Appendix B

Air Quality, Greenhouse Gas Emissions, and Energy Calculations and Health Risk Assessment

Air Quality and Greenhouse Gas Emissions Analysis Technical Report for the 14800 W. Schulte Road Logistics Center Project County of San Joaquin, California

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Acronyms and Abbreviations

Acronym/Abbreviation	Definition
µg/m^3	micrograms per cubic meter
AB	Assembly Bill
ADMRT	Air Dispersion and Risk Tool
AERMOD	American Meteorological Society/Environmental Protection Agency Regulatory Model
amsl	above mean sea level
AQMP	Air Quality Management Plan
CAAQS	California Ambient Air Quality Standards
CalEEMod	California Emissions Estimator Model
CALGreen	California's Green Building Standards
CALINE4	California LINE Source Dispersion Model
CalRecycle	California Department of Resources Recycling and Recovery
Caltrans	California Department of Transportation
CAP	climate action plan
CAPCOA	California Air Pollution Control Officers Association
CARB	California Air Resources Board
CAT	Climate Action Team
CDPH	California Department of Public Health
CEC	California Energy Commission
CEQA	California Environmental Quality Act
CH_4	methane
C/M1	commercial manufacturing
CNRA	California Natural Resources Agency
CO	carbon monoxide
CO_2	carbon dioxide
CPUC	California Public Utilities Commission
DPM	diesel particulate matter
EO	Executive Order
EPA	U.S. Environmental Protection Agency
EV	electric vehicle
GHG	greenhouse gas
GWP	global warming potential
H_2S	hydrogen sulfide
HAP	hazardous air pollutant
HARP2	Hotspots Analysis and Reporting Program Version 2
HFC	hydrofluorocarbon
HRA	health risk assessment
HVAC	heating, ventilation, and air conditioning
I	Interstate
IPCC	Intergovernmental Panel on Climate Change
ITE	Institute of Transportation Engineers
LCFS	Low Carbon Fuel Standard

Acronym/Abbreviation	Definition
LED	light emitting diode
LOS	level of service
LST	localized significance thresholds
MM	Mitigation Measure
MMT	million metric ton
MT CO_2e	metric tons of CO_2 equivalent
N_2O	nitrous oxide
NAAQS	National Ambient Air Quality Standards
NF_3	nitrogen trifluoride
NHTSA	National Highway Traffic Safety Administration
NO_2	nitrogen dioxide
NO_x	oxides of nitrogen
O_3	ozone
OEHHA	Office of Environmental Health Hazard Assessment
PDF	project design feature
PeMS	Caltrans Performance Measurement System
PF	public facilities
PFC	perfluorocarbon
PG&E	Pacific Gas and Electric
PM_{10}	particulate matter with an aerodynamic diameter less than or equal to 10 microns
$PM_{2.5}$	particulate matter with an aerodynamic diameter less than or equal to 2.5 microns
ppb	parts per billion
ppm	parts per million
PV	photovoltaic
RCP	Regional Comprehensive Plan
RPS	Renewables Portfolio Standard
RTP	Regional Transportation Plan
SB	Senate Bill
SCAQMD	South Coast Air Quality Management District
SCS	Sustainable Communities Strategy
SF_6	sulfur hexafluoride
SJCOG	San Joaquin Council of Governments
SJVAB	San Joaquin Valley Air Basin
SJVAPCD	San Joaquin Valley Air Pollution Control District
SLCP	short-lived climate pollutant
SO_2	sulfur dioxide
SO_4	sulfates
SO_x	sulfur oxides
SRA	source-receptor area
TAC	toxic air contaminants
TIA	Transportation Impact Analysis
TRU	transport refrigeration unit
UNFCCC	United Nations Framework Convention on Climate Change

Acronym/Abbreviation	Definition
USGS	U.S. Geological Survey
VOC	volatile organic compound
ZNE	zero net energy

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Executive Summary

The purpose of this technical report is to assess the potential air quality and greenhouse gas (GHG) emissions impacts associated with implementation of the proposed 14800 W. Schulte Road Logistics Center Project (project). This assessment utilizes the significance thresholds in Appendix G of the California Environmental Quality Act (CEQA) Guidelines (14 CCR 15000 et seq.).

Project and Approach Overview

The project proposes construction of a warehouse and distribution facility to include a 278,927-square-foot warehouse building and 2,968-square-foot office space, a 278,889-square-foot warehouse building and 3,006-square-foot office space, and a 163,523-square-foot warehouse building and 2,964-square-foot office space totaling 730,277 square feet and associated parking. The project proposes utilization of a private well for water and an on-site septic system for sewage disposal.

The project site is located within the San Joaquin Valley Air Basin (SJVAB) and is under the jurisdiction of the San Joaquin Valley Air Pollution Control District (SJVAPCD). The SJVAPCD *Guidance for Assessing and Mitigating Air Quality Impacts* (GAMAQI) was followed as applicable to the project. Construction and operational criteria air pollutant and GHG emissions were estimated using the California Emissions Estimator Model (CalEEMod) Version 2016.3.2 and a spreadsheet-based model and emission factors from the California Air Resources Board (CARB) EMFAC2017 and the U.S. Environmental Protection Agency (EPA) AP-42 Compilation of Air Emissions Factors.

Air Quality

Criteria air pollutants are defined as pollutants for which the federal and state governments have established ambient air quality standards, or criteria, for outdoor concentrations to protect public health. Criteria air pollutants include ozone (O_3), nitrogen dioxide (NO_2), carbon monoxide (CO), sulfur dioxide (SO_2), particulate matter with an aerodynamic diameter less than or equal to 10 microns (PM_{10}), particulate matter with an aerodynamic diameter less than or equal to 2.5 microns ($PM_{2.5}$), and lead. Pollutants that are evaluated include reactive organic gases (ROGs), oxides of nitrogen (NO_x), CO, sulfur oxides (SO_x), PM_{10}, and $PM_{2.5}$. ROGs and NO_x are important because they are precursors to O_3.

Conflict with or Obstruct Applicable Air Quality Plan

A project is non-conforming with an air quality plan if it conflicts with or delays implementation of any applicable attainment or maintenance plan. The SJVAPCD has prepared plans to attain federal and state O_3 and particulate matter ambient air quality standards as required under the federal and California Clean Air Act. The SJVAPCD has established thresholds of significance for criteria pollutant emissions, and projects with emissions below the thresholds of significance for criteria pollutants would be determined to "not conflict or obstruct implementation of the District's air quality plan" (SJVAPCD 2015a). As determined in the assessment of project-generated construction and operational emissions, the project would result in emissions that would not exceed SJVAPCD thresholds or result in an increase in the frequency or severity of existing air quality violations or cause or contribute to new violations. As discussed in Section 2.5.2, the project would exceed the SJVAPCD threshold for NO_x during operations. Therefore, the project would potentially conflict with or delay the implementation of the SJVAPCD attainment plans and would result in a **significant and unavoidable** impact with implementation of **Mitigation Measure (MM) AQ-1** through **MM-AQ-3**.

Cumulative Impacts

The potential for the project to result in a cumulatively considerable impact, per the SJVAPCD guidance and thresholds, is based on the project's impact compared to the SJVAPCD significance criteria. The annual construction emissions would not exceed the SJVAPCD significance thresholds for ROG, NO_x, CO, SO_x, PM_{10}, or $PM_{2.5}$. The project's maximum daily construction and operational emissions would be less than the SJVAPCD localized thresholds for ROG, NO_x, CO, SO_x, PM_{10}, or $PM_{2.5}$. However, the project's annual operational emissions would exceed the SJVAPCD significance threshold for NO_x with implementation of **MM-AQ-1** through **MM-AQ-3.** Therefore, the project operational impacts would be **significant and unavoidable**.

Exposure of Sensitive Receptors

Carbon Monoxide Hotspot

Operation of the project would not expose sensitive receptors to localized high concentrations of CO or contribute traffic volumes to intersections that would cause a CO hotspot. As neither the 1-hour nor the 8-hour CO California Ambient Air Quality Standards (CAAQS) would be equaled or exceeded at any of the studied intersections, potential CO hotspot impacts would be less than significant.

Valley Fever

Coccidioidomycosis, more commonly known as Valley Fever, is an infection caused by inhalation of the spores of the *Coccidioides immitis* fungus, which grows in the soils of the southwestern United States. The project would be required to comply with Rule 8021, Section 6.3, which would require the project to develop, prepare, submit, obtain approval of, and implement a dust control plan. Compliance with the required dust control plan would reduce fugitive dust impacts to less than significant for project construction, which would also minimize the release of the *Coccidioides immitis* fungus from construction activities. In addition, the project would implement various dust control strategies and provide Valley Fever awareness and training to all project construction employees as included in **PDF-AQ-1** and **PDF-AQ-2**. The nearest sensitive-receptor land use (existing residence) is located over 1,500 feet from the project site. Therefore, the project would have a **less-than-significant** impact with respect to valley fever exposure for sensitive receptors. Thus, impacts would be **less than significant**.

Health Risk Assessment

Project construction activities would produce diesel particulate matter (DPM) due to combustion equipment such as loaders and backhoes, and haul truck trips. Due to this relatively short period of exposure (10 months) and minimal particulate emissions on site, TACs generated by the project is not anticipated to result in concentrations causing significant health risks. In addition, diesel equipment would also be subject to CARB's Airborne Toxic Control Measures for in-use off-road diesel fleets, which would minimize DPM emissions. Furthermore, the nearest sensitive receptor is located over 1,500 feet from the project site. Operation of the project would result in TAC emissions from operation of the diesel yard truck and diesel forklifts, diesel-fueled fire pump, diesel fuel storage tank, truck trips, and truck idling. The project operation would result in Maximum Individual Cancer Risk, Chronic Hazard Index, and Acute Hazard Index less than the applicable SJVAPCD significance thresholds with implementation of **MM-AQ-3**. Thus, health risk impacts associated with the project would be **less than significant** with mitigation.

Other Emissions (Odors)

The analysis of the project's potential to result in other emissions is focused on potential odor impacts. Potential odors produced during construction would be attributable to concentrations of unburned hydrocarbons from tailpipes of construction equipment, architectural coatings, and asphalt pavement application, which would disperse rapidly from the project site and generally occur at magnitudes that would not affect substantial numbers of people. Impacts associated with odors during construction would be less than significant. The project would not include land-use types that would generate odors during operation. Therefore, project construction and operations would result in odor impacts that are **less than significant**.

Greenhouse Gas Emissions

Global climate change is primarily considered a cumulative impact, but must also be evaluated on a project-level under CEQA. A project participates in this potential impact through its incremental contribution combined with the cumulative increase of all other sources of GHG emissions. GHGs are gases that absorb infrared radiation in the atmosphere. Principal GHGs regulated under state and federal law and regulations include carbon dioxide (CO_2), methane (CH_4), and nitrous oxide (N_2O). GHG emissions are measured in metric tons of CO_2 equivalent (MT CO_2e), which account for weighted global warming potential (GWP) factors for CH_4 and N_2O.

Project-Generated Construction and Operational Greenhouse Gas Emissions and Consistency with Applicable Greenhouse Gas Reduction Plans

Construction of the project would result in GHG emissions primarily associated with use of off-road construction equipment, on-road hauling and vendor (material delivery) trucks, and worker vehicles. The estimated total GHG emissions during construction would be approximately 456 MT CO_2e. Estimated project-generated construction emissions amortized over 30 years would be approximately 15 MT CO_2e per year.

Operation of the project would generate GHG emissions through motor vehicle and delivery truck trips to and from the project site; landscape maintenance equipment operation; energy use (natural gas and generation of electricity consumed by the project); solid waste disposal; generation of electricity associated with the water pump; on-site septic system; and a yard truck, forklifts, and a diesel-fueled fire pump, and diesel fuel storage tank. Estimated annual project-generated operational emissions plus amortized project construction emissions would be approximately 12,494 MT CO_2e per year.

Development of the project site would be consistent with the County's General Plan, support the San Joaquin Council of Governments (SJCOG) 2018 Regional Transportation Plan/Sustainable Communities Strategy (RTP/SCS), and demonstrate consistency with the Scoping Plan, which all promote economic growth while achieving greater energy efficiency. The project would be consistent with SJCOG's 2018 RTP/SCS, Senate Bill 32, and Executive Order S-3-05. The project would not conflict with any plans adopted with the purpose of reducing GHG emissions; therefore, the project's impacts with respect to GHG emissions would be **less than significant**.

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1 Introduction

1.1 Report Purpose and Scope

The purpose of this technical report is to assess the potential air quality and greenhouse gas (GHG) emissions impacts associated with implementation of the proposed 14800 W. Schulte Road Logistics Center Project (project). This assessment uses the significance thresholds in Appendix G of the California Environmental Quality Act (CEQA) Guidelines (14 CCR 15000 et seq.), and is based on the emissions-based significance thresholds recommended by the San Joaquin Valley Air Pollution Control District (SJVAPCD) and other applicable thresholds of significance.

This introductory section provides a description of the project and the project location. Chapter 2, Air Quality, describes the air quality–related environmental setting, regulatory setting, existing air quality conditions, and thresholds of significance and analysis methodology, and presents an air quality impact analysis per Appendix G of the CEQA Guidelines. Chapter 3, Greenhouse Gas Emissions, follows the same format as Chapter 2 and similarly describes the GHG emissions–related environmental setting, regulatory setting, existing climate changes conditions, and thresholds of significance and analysis methodology, and presents a GHG emissions impact analysis per Appendix G of the CEQA Guidelines. Chapter 4, References Cited, includes a list of the references cited. Chapter 5, List of Preparers, includes a list of those who prepared this technical report.

1.2 Regional and Local Setting

Project Location and Surrounding Land Uses

The project is located at 14800 West Schulte Road on a 37.47-acre vacant property within southwestern unincorporated County of San Joaquin (County), California (Figure 1, Regional Map, and Figure 2, Project Location). The project site is located within the San Joaquin Valley Air Basin (SJVAB) which consists of eight counties and is spread across 25,000 square miles of Central California. The project site is composed of one parcel (Assessor's Parcel Number 209-240-23). Under the existing conditions, the project site is vacant and contains bare expanses of soil interspersed with ruderal vegetation. The project site was formerly used as a biomass energy facility, which was decommissioned and demolished in 2019.

The project site is bounded by Schulte Road and agricultural uses to the north, Quality Road and agricultural uses to the east, a manufacturing/warehouse use to the south, and a warehouse/distribution use to the west.

Regional access to the project site is provided by Interstate (I) 580 and I-205, located approximately 1.5 miles to the southwest and north, respectively, and I-5, located approximately 8 miles to the east.

Project Site Conditions

The project site is located approximately 133 feet above mean sea level and is relatively flat; however, the project site includes various depressions and elevated areas (ranging from approximately 5 to 25 feet in height/depth) that are the result of previous earthmoving and demolition activities. Two drainage basins are located along the northern edge of the project site with depths of about 15 to 25 feet below adjacent grades. In addition, two large

stockpiles, one composed of soil and organic material and the other composed of aggregate base and/or rock, are located along the southern edge of the site.

General Plan and Zoning

The County's General Plan Land Use Map designates the project site as General Industrial (I/G), and the County's Zoning Map identifies the site as General Industrial (I-G); thus, the project would be consistent with the current zoning and land use designation.

1.3 Project Description

The project proposes construction of a warehouse and distribution facility to include a 278,927-square-foot warehouse building and 2,968-square-foot office space, a 278,889-square-foot warehouse building and 3,006-square-foot office space, and a 163,523-square-foot warehouse building and 2,964-square-foot office space totaling 730,277 square feet and associated parking. The project proposes utilization of a private well for water and an on-site septic system for sewage disposal.

1.4 Project Design Features

The following project design features (PDFs) would be included as part of the project:

PDF-AQ-1 Prior to the County of San Joaquin's (County's) approval of any grading permits and during project construction, a Fugitive Dust Control Plan shall be prepared demonstrating compliance with San Joaquin Valley Air Pollution Control District's (SJVAPCD's) Rules 8021, 8031, 8041, 8051, 8061, and 8071, to the satisfaction of the County. The project applicant or its designee shall require implementation of the following fugitive dust measures to minimize course particulate matter emissions as part of the Fugitive Dust Control Plan. All measures shall be designated on Grading Plans.

a. Grading areas shall be watered, or another SJVAPCD-approved dust control non-toxic agent shall be used, at least three times daily to minimize fugitive dust only where chemical stabilizers are not used.
b. All permanent roads and the paved access roadway improvements shall be constructed and paved as early as possible in the construction process to reduce construction vehicle travel on unpaved roads. Foundations shall be finalized as soon as possible following site preparation and grading activities to reduce fugitive dust from earth-moving operations.
c. Grading areas shall be stabilized as quickly as possible to minimize fugitive dust.
d. Chemical stabilizer shall be applied, a gravel pad shall be installed, or the last 100 feet of internal travel path within the construction site shall be paved prior to public road entry.
e. Wheel washers, grates, rock, or road washers shall be installed adjacent to the site access points for tire inspection and washing prior to vehicle entry on public roads.
f. Visible track-out into traveled public streets shall be removed with the use of sweepers, water trucks, or similar method within 30 minutes of occurrence.

g. Perimeter erosion control shall be provided to prevent washout of silty material onto public roads. Unpaved construction site egress points shall be graveled to prevent track-out.

h. The construction access point shall be wet-washed at the end of the workday if any vehicle travel on unpaved surfaces has occurred.

i. Haul trucks shall be covered or at least 2 feet of freeboard shall be maintained to reduce blow-off during hauling.

j. On-site stockpiles of excavated material shall be covered.

k. A 15 mile per hour speed limit on unpaved surfaces shall be enforced.

l. Construction traffic control plans shall route delivery and haul trucks required during construction away from sensitive receptor locations and congested intersections to the extent feasible. Construction Traffic Control plans shall be finalized and approved prior to issuance of grading permits.

PDF-AQ-2 The project applicant or its designee shall provide to all project construction employees the fact sheet entitled "Preventing Work-Related Coccidioidomycosis (Valley Fever)" by the California Department of Public Health and ensure all employees are aware of the potential risks the site poses. The project applicant or its designee shall inform all project construction employees of all occupational responsibilities and requirements contained in these measures to reduce potential exposure to *Coccidioides* spores.

The training shall include all the following topics:

a. What Valley Fever is and how it is contracted.

b. High-risk areas and types of work and environmental conditions during which the risk of contracting Valley Fever is highest.

c. Personal risk factors that may create a higher risk for some individuals.

d. Personal and environmental exposure prevention methods.

e. Importance of early detection, diagnosis, and treatment.

f. Recognizing common signs and symptoms of Valley Fever.

g. Importance of reporting symptoms to the employer and seeking medical attention.

h. Common treatment and prognosis for Valley Fever.

PDF-AQ/GHG-1 The buildings shall be designed to achieve a minimum the Leadership in Energy and Environmental Design (LEED) Certified goal identified by the LEED Green Building Rating System to conserve resources, including but not limited to energy and renewable resources.

PDF-AQ/GHG-2 Install 2-3% skylights in warehouse buildings for natural lighting and reduce electricity consumption from warehouse lighting.

PDF-AQ/GHG-3 Install conduit for future electric truck charging capabilities.

PDF-AQ/GHG-4 Install conduit for 33 future electric vehicle charging spaces.

PDF-AQ/GHG-5 Designate 21 parking spaces for clean air/electric vehicle/vanpool parking.

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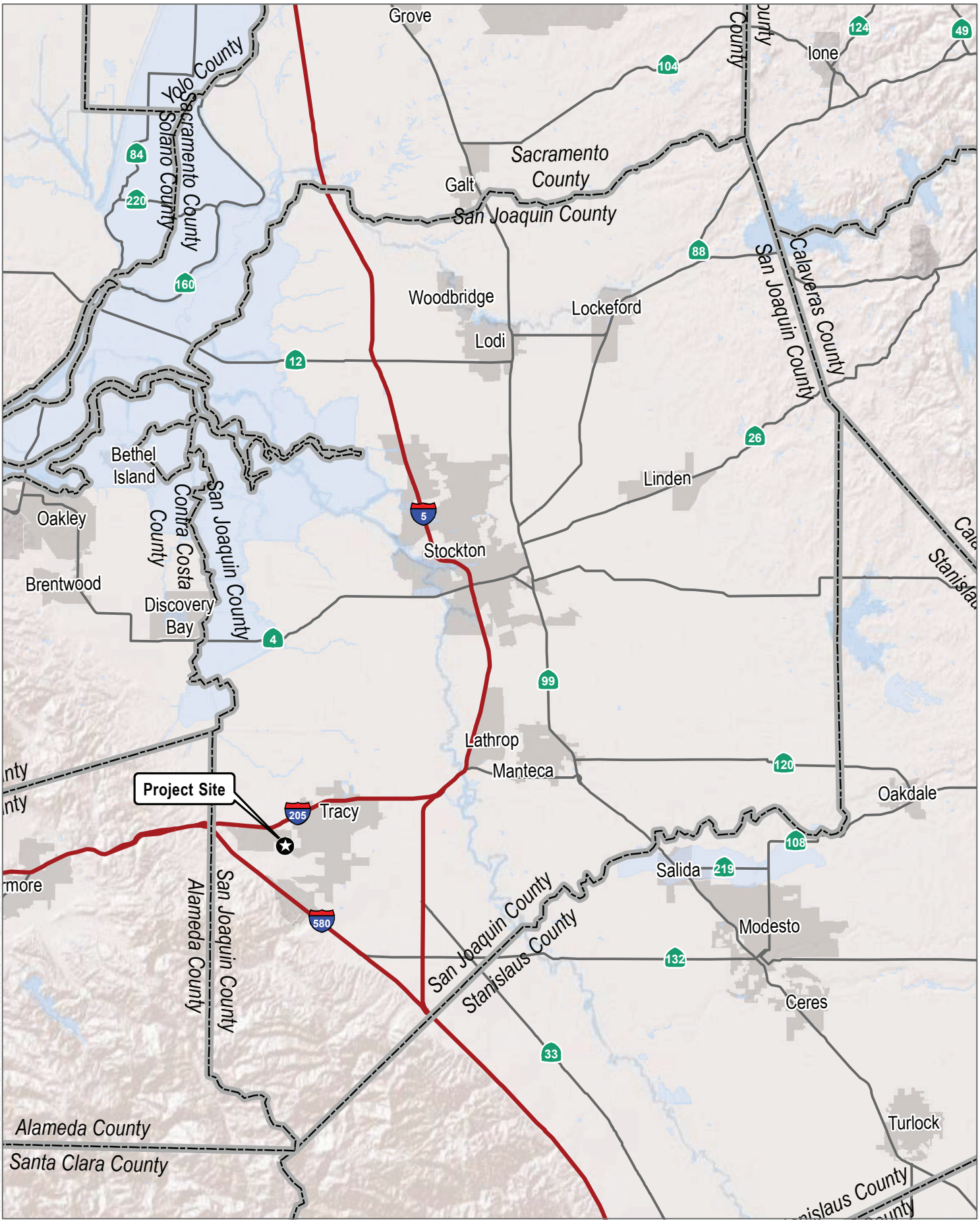

SOURCE: ESRI Basemaps

DUDEK

0 3 6 Miles

FIGURE 1

Regional Map

14800 W. Schulte Road Logistics Center Project

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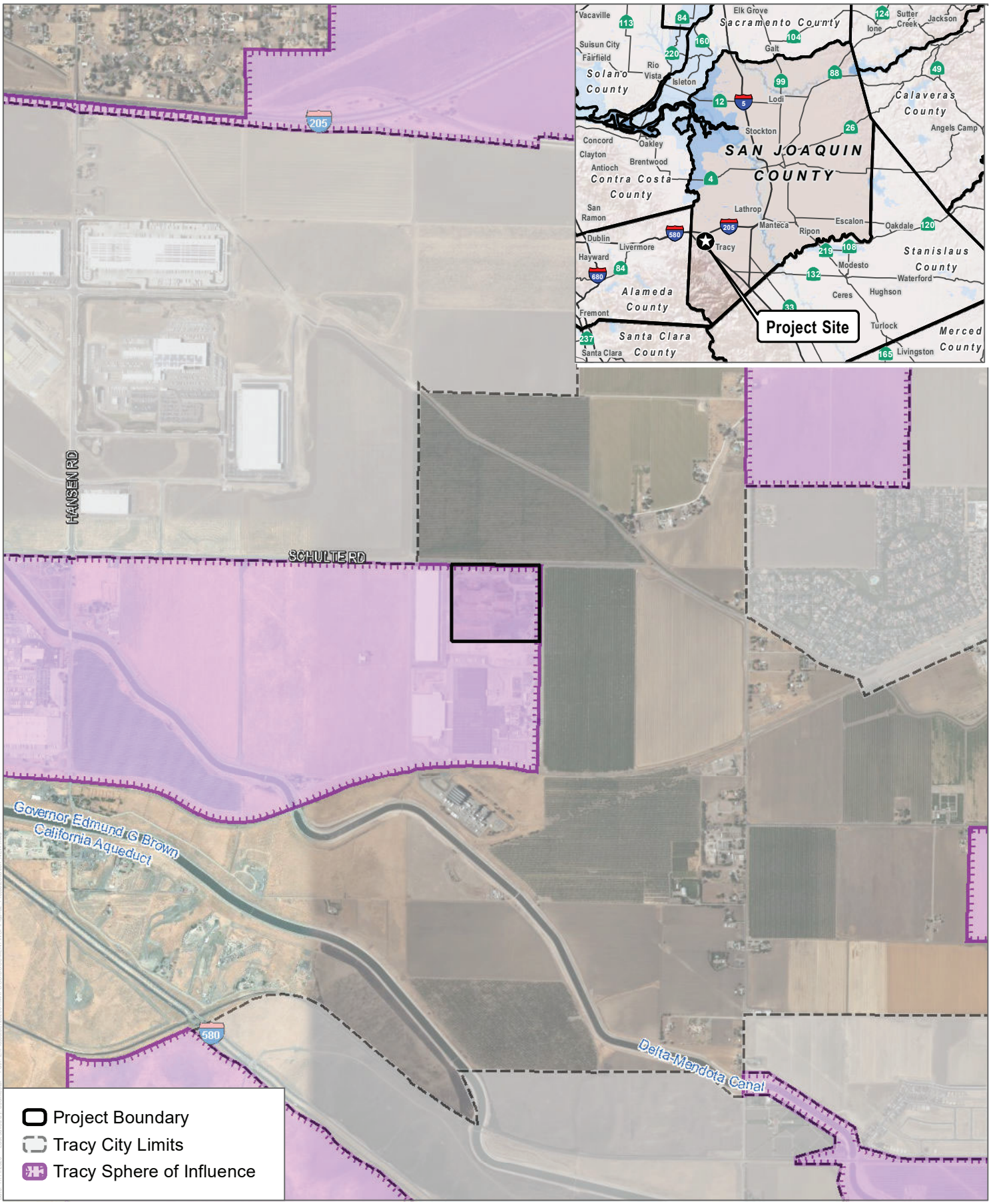

SOURCE: Bing Imagery (Accessed 2020), NHD (Accessed 2020)

DUDEK

0 1,000 2,000 Feet

FIGURE 2

Project Location

14800 W. Schulte Road Logistics Center Project

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2 Air Quality

2.1 Environmental Setting

As stated previously, the project site is located within the SJVAB.

2.1.1 Meteorological and Topographical Conditions

The primary factors that determine air quality are the locations of air pollutant sources and the amounts of pollutants emitted. Meteorological and topographical conditions, however, also are important. Factors such as wind speed and direction, air temperature gradients and sunlight, and precipitation and humidity interact with physical landscape features to determine the movement and dispersal of criteria air pollutants. The analysis was prepared in accordance with the SJVAPCD *Guidance for Assessing and Mitigating Air Quality Impacts* (GAMAQI). These factors are described below.

Topography

The project lies within the SJVAB, which consists of eight counties and is spread across 25,000 square miles of Central California. The SJVAB is bordered on the east by the Sierra Nevada (8,000 to 14,491 feet in elevation); on the west by the Coast Ranges (averaging 3,000 feet in elevation); and to the south by the Tehachapi Mountains (6,000 to 7,981 feet in elevation). The San Joaquin Valley comprises the southern half of California's Central Valley and is approximately 250 miles long and averages 35 miles wide, with a slight downward elevation gradient from Bakersfield in the southeast end (elevation 408 feet) to sea level at the northwest end where the San Joaquin Valley opens to the San Francisco Bay at the Carquinez Strait. At its northern end is the Sacramento Valley, which comprises the northern half of California's Central Valley. The region's topographic features restrict air movement through and out of the SJVAB. As a result, the SJVAB is highly susceptible to pollutant accumulation over time.

Climate

The San Joaquin Valley is in a Mediterranean Climate Zone, influenced by a subtropical high-pressure cell most of the year and characterized by warm, dry summers and cooler winters. Mediterranean climates are characterized by sparse rainfall, which occurs mainly in winter. Summertime maximum temperatures in the San Joaquin Valley often exceed 100°F.

The vertical dispersion of air pollutants in the San Joaquin Valley can be limited by the presence of persistent temperature inversions. Air temperatures usually decrease with an increase in altitude. A reversal of this atmospheric state, where the air temperature increases with height, is termed an inversion. A temperature inversion can act like a lid, restricting vertical mixing of air above and below an inversion because of differences in air density and thereby trapping air pollutants below the inversion. The subtropical high-pressure cell is strongest during spring, summer and fall and produces subsiding air, which can result in temperature inversions. Most of the surrounding mountains are above the normal height of summer inversions (1,500–3,000 feet). Wintertime high pressure events can often last many weeks with surface temperatures often lowering into the 30s °F. During these events, fog can be present and inversions are extremely strong. These wintertime inversions can inhibit vertical mixing of pollutants to a few hundred feet.

Wind Patterns

Wind speed and direction play an important role in dispersion and transport of air pollutants. Winds in the San Joaquin Valley most frequently blow from the northwesterly direction, especially in the summer. The region's topographic features restrict air movement and channel the air mass towards the southeastern end of the San Joaquin Valley. Marine air can flow into the SJVAB from the Sacramento–San Joaquin River Delta and over Altamont Pass and Pacheco Pass, where it can flow through the San Joaquin Valley, over the Tehachapi Pass, into the Mojave Desert Air Basin (MDAB). The Coastal Range and the Sierra Nevada are barriers to air movement to the west and east, respectively. A secondary but significant summer wind pattern is from the southeasterly direction and can be associated with nighttime drainage winds, prefrontal conditions and summer monsoons. During winter, winds can be very weak, which minimizes the transport of pollutants and results in stagnation events.

Two significant diurnal wind cycles that occur frequently in the San Joaquin Valley are the sea breeze and mountain-valley upslope and drainage flows. The sea breeze can accentuate the northwest wind flow, especially on summer afternoons. Nighttime drainage flows can accentuate the southeast movement of air down the San Joaquin Valley. In the mountains during periods of weak synoptic scale winds, winds tend to be upslope during the day and downslope at night. Nighttime and drainage flows are pronounced during the winter when flow from the easterly direction is enhanced by nighttime cooling in the Sierra Nevada. Eddies can form in the valley wind flow and can re-circulate a polluted air mass for an extended period.

Temperature, Sunlight and Ozone Production

Solar radiation and temperature are particularly important in the chemistry of O_3 formation. The SJVAB averages over 260 sunny days per year. Photochemical air pollution (primarily O_3) results from the atmospheric ROGs and NO_2 under the influence of sunlight. O_3 concentrations are very dependent on the amount of solar radiation, especially during late spring, summer and early fall. O_3 levels typically peak in the afternoon. After the sun goes down, the chemical reaction between nitrous oxide and O_3 begins to dominate. This reaction tends to reduce O_3 concentrations in the metropolitan areas through the early morning hours. At sunrise, NO_x tends to peak, partly due to low levels of O_3 at this time and also due to the morning commuter vehicle emissions of NO_x.

Reaction rates generally increase with temperature, which results in greater O_3 production at higher temperatures. However, extremely hot temperatures can "lift" or "break" the inversion layer. Typically, if the inversion layer remains intact, O_3 levels peak in the late afternoon. If the inversion layer breaks and the resultant afternoon winds occur, O_3 levels peak in the early afternoon and decrease in the late afternoon as the contaminants are dispersed or transported out of the SJVAB. O_3 levels are low during winter periods when there is much less sunlight to drive the photochemical reaction.

Precipitation, Humidity, and Fog

Precipitation and fog can result in the reduction or increase in some pollutant concentrations. For instance, O_3 needs sunlight for its formation, and clouds and fog can block the required solar radiation. In addition, wet fogs can cleanse the air during winter as moisture collects on particles and deposits them on the ground. Fog with less moisture content, however, can contribute to the formation of secondary ammonium nitrate particulate matter.

The winds and unstable air conditions experienced during the passage of winter storms result in periods of low pollutant concentrations. Between winter storms, high pressure and light winds allow cold, moist air to pool on the

San Joaquin Valley floor, resulting in strong low-level temperature inversions and very stable air conditions, which can lead to Tule fog. Wintertime conditions favorable to fog formation are also conditions favorable to high concentrations of particulate matter.

Urban Heat Island Effect

The "urban heat island" refers to the effect of urbanized areas on surface and air temperature compared to their rural surroundings. Buildings, roads, and other "hardscape" create an island of higher temperatures within the regional landscape. As described by the EPA, "urban heat islands are caused by development and the changes in radiative and thermal properties of urban infrastructure as well as the impacts buildings can have on the local microclimate—for example tall buildings can slow the rate at which cities cool off at night. Heat islands are influenced by a city's geographic location and by local weather patterns, and their intensity changes on a daily and seasonal basis." (EPA 2008). The term is generally used to refer to community-wide effects, particularly for large metropolitan cities. The potential adverse effects of the urban heat island effect include increased energy consumption, elevated emissions of air pollutants and GHGs, compromised human health and comfort, and impaired water quality. Increased temperatures due to the urban heat island effect may also lead to increased energy consumption, which has implications for air quality and GHG emissions. In addition to energy-related increases in air emissions, elevated air temperatures increase the rate of ground-level O_3 formation. Communities have adopted various strategies to deal with these environmental impacts, such as increasing vegetation and using more energy-efficient building materials. These strategies are often part of more general energy savings or "sustainability" practices and are not identified as "urban heat island effect" mitigation, but nevertheless they provide the benefits of reducing surface and atmospheric heat islands.

2.1.2 Pollutants and Effects

2.1.2.1 Criteria Air Pollutants

Criteria air pollutants are defined as pollutants for which the federal and state governments have established ambient air quality standards, or criteria, for outdoor concentrations to protect public health. The federal and state standards have been set, with an adequate margin of safety, at levels above which concentrations could be harmful to human health and welfare. These standards are designed to protect the most sensitive persons from illness or discomfort. Pollutants of concern include O_3, nitrogen dioxide (NO_2), carbon monoxide (CO), sulfur dioxide (SO_2), PM_{10}, $PM_{2.5}$, and lead. Reactive organic gases (ROGs; also referred to as volatile organic compounds [VOCs])[1] and oxides of nitrogen (NO_x) are also important because they are precursors to O_3, These pollutants, as well as toxic air contaminants (TACs), are discussed in the following paragraphs.[2] In California, sulfates, vinyl chloride, hydrogen sulfide, and visibility-reducing particles are also regulated as criteria air pollutants. A more detailed discussion of health effects of criteria air pollutants is provided in Appendix C.

Ozone. O_3 in the troposphere causes numerous adverse health effects; short-term exposures (lasting for a few hours) to O_3 at levels typically observed in Southern California can result in breathing pattern changes, reduction

[1] The SJVAPCD threshold is set for ROG. However, ROG and VOC are generally considered equivalent for CEQA analyses; as such, ROG and VOC are used interchangeably in this analysis.

[2] The descriptions of each of the criteria air pollutants and associated health effects are based on the EPA's Criteria Air Pollutants (EPA 2016a) and the CARB Glossary of Air Pollution Terms (CARB 2016a).

of breathing capacity, respiratory symptoms, worsening of lung disease leading to premature death, increased susceptibility to infections, inflammation of and damage to the lung tissue, and some immunological changes (EPA 2013; CARB 2019a). These health problems are particularly acute in sensitive receptors such as the sick, older adults, and young children.

Inhalation of O_3 causes inflammation and irritation of the tissues lining human airways, causing and worsening a variety of symptoms. Exposure to O_3 can reduce the volume of air that the lungs breathe in and cause shortness of breath. O_3 in sufficient doses increases the permeability of lung cells, rendering them more susceptible to toxins and microorganisms. The occurrence and severity of health effects from O_3 exposure vary widely among individuals, even when the dose and the duration of exposure are the same. Research shows adults and children who spend more time outdoors participating in vigorous physical activities are at greater risk from the harmful health effects of O_3 exposure. While there are relatively few studies of O_3's effects on children, the available studies show that children are no more or less likely to suffer harmful effects than adults. However, there are a number of reasons why children may be more susceptible to O_3 and other pollutants. Children and teens spend nearly twice as much time outdoors and engaged in vigorous activities as adults. Children breathe more rapidly than adults and inhale more pollution per pound of their body weight than adults. Also, children are less likely than adults to notice their own symptoms and avoid harmful exposures. Further research may be able to better distinguish between health effects in children and adults. Children, adolescents and adults who exercise or work outdoors, where O_3 concentrations are the highest, are at the greatest risk of harm from this pollutant (CARB 2019a).

A number of population groups are potentially at increased risk for O_3 exposure effects. In the ongoing review of O_3, the EPA has identified populations as having adequate evidence for increased risk from O_3 exposures include individuals with asthma, younger and older age groups, individuals with reduced intake of certain nutrients such as Vitamins C and E, and outdoor workers. There is suggestive evidence for other potential factors, such as variations in genes related to oxidative metabolism or inflammation, gender, socioeconomic status, and obesity. However further evidence is needed (SCAQMD 2017).

The adverse effects reported with short-term O_3 exposure are greater with increased activity because activity increases the breathing rate and the volume of air reaching the lungs, resulting in an increased amount of O_3 reaching the lungs. Children may be a particularly vulnerable population to air pollution effects because they spend more time outdoors, are generally more active, and have a higher specific ventilation relative to their body weight, compared to adults (SCAQMD 2017).

Nitrogen Dioxide. A large body of health science literature indicates that exposure to NO_2 can induce adverse health effects. The strongest health evidence, and the health basis for the AAQS for NO_2, is results from controlled human exposure studies that show that NO_2 exposure can intensify responses to allergens in allergic asthmatics. In addition, a number of epidemiological studies have demonstrated associations between NO_2 exposure and premature death, cardiopulmonary effects, decreased lung function growth in children, respiratory symptoms, emergency room visits for asthma, and intensified allergic responses. Infants and children are particularly at risk because they have disproportionately higher exposure to NO_2 than adults due to their greater breathing rate for their body weight and their typically greater outdoor exposure duration. Several studies have shown that long-term NO_2 exposure during childhood, the period of rapid lung growth, can lead to smaller lungs at maturity in children with higher compared to lower levels of exposure. In addition, children with asthma have a greater degree of airway responsiveness compared with adult asthmatics. In adults, the greatest risk is to people who have chronic respiratory diseases, such as asthma and chronic obstructive pulmonary disease (CARB 2019b).

Carbon Monoxide. Carbon monoxide is harmful because it binds to hemoglobin in the blood, reducing the ability of blood to carry oxygen. This interferes with oxygen delivery to the body's organs. The most common effects of CO exposure are fatigue, headaches, confusion and reduced mental alertness, and light-headedness, dizziness due to inadequate oxygen delivery to the brain. For people with cardiovascular disease, short-term CO exposure can further reduce their body's already compromised ability to respond to the increased oxygen demands of exercise, exertion, or stress. Inadequate oxygen delivery to the heart muscle leads to chest pain and decreased exercise tolerance. Unborn babies whose mothers experience high levels of CO exposure during pregnancy are at risk of adverse developmental effects. Unborn babies, infants, elderly people, and people with anemia or with a history of heart or respiratory disease are most likely to experience health effects with exposure to elevated levels of CO (CARB 2019c).

Sulfur Dioxide. SO_2 is an irritant gas that attacks the throat and lungs and can cause acute respiratory symptoms and diminished ventilator function in children. When combined with particulate matter (PM), SO_2 can injure lung tissue and reduce visibility and the level of sunlight. SO_2 can worsen asthma resulting in increased symptoms, increased medication usage, and emergency room visits.

Controlled human exposure and epidemiological studies show that children and adults with asthma are more likely to experience adverse responses with SO_2 exposure, compared with the non-asthmatic population. Effects at levels near the one-hour standard are those of asthma exacerbation, including bronchoconstriction accompanied by symptoms of respiratory irritation such as wheezing, shortness of breath and chest tightness, especially during exercise or physical activity. Also, exposure at elevated levels of SO_2 (above 1 part per million [ppm]) results in increased incidence of pulmonary symptoms and disease, decreased pulmonary function, and increased risk of mortality. The elderly and people with cardiovascular disease or chronic lung disease (such as bronchitis or emphysema) are most likely to experience these adverse effects (CARB 2019d).

SO_2 is of concern both because it is a direct respiratory irritant and because it contributes to the formation of sulfate and sulfuric acid in PM (NRC 2005). People with asthma are of particular concern, both because they have increased baseline airflow resistance and because their SO_2-induced increase in resistance is greater than in healthy people, and it increases with the severity of their asthma (NRC 2005). SO_2 is thought to induce airway constriction via neural reflexes involving irritant receptors in the airways (NRC 2005).

Particulate Matter.

A number of adverse health effects have been associated with exposure to both $PM_{2.5}$ and PM_{10}. For $PM_{2.5}$, short-term exposures (up to 24-hours duration) have been associated with premature mortality, increased hospital admissions for heart or lung causes, acute and chronic bronchitis, asthma attacks, emergency room visits, respiratory symptoms, and restricted activity days. These adverse health effects have been reported primarily in infants, children, and older adults with preexisting heart or lung diseases. In addition, of all of the common air pollutants, $PM_{2.5}$ is associated with the greatest proportion of adverse health effects related to air pollution, both in the United States and world-wide based on the World Health Organization's Global Burden of Disease Project. Short-term exposures to PM_{10} have been associated primarily with worsening of respiratory diseases, including asthma and chronic obstructive pulmonary disease, leading to hospitalization and emergency department visits (CARB 2017a).

Long-term (months to years) exposure to $PM_{2.5}$ has been linked to premature death, particularly in people who have chronic heart or lung diseases, and reduced lung function growth in children. The effects of long-term exposure to PM_{10} are less clear, although several studies suggest a link between long-term PM_{10} exposure and

respiratory mortality. The International Agency for Research on Cancer published a review in 2015 that concluded that PM in outdoor air pollution causes lung cancer (CARB 2017a).

People with influenza, people with chronic respiratory and cardiovascular diseases, and older adults may suffer worsening illness and premature death as a result of breathing PM. People with bronchitis can expect aggravated symptoms from breathing PM. Children may experience a decline in lung function due to breathing in PM_{10} and $PM_{2.5}$ (EPA 2009).

PM encompasses a physically and chemically diverse class of ambient air pollutants of both anthropogenic and biological origin. The PM standard is the only NAAQS that does not target a specific chemical or family of chemical species (NRC 2005). The range of human health effects associated with ambient PM levels or demonstrated in laboratory studies has expanded from earlier concerns for total mortality and respiratory morbidity to include cardiac mortality and morbidity, blood vessel constriction, stroke, premature birth, low birth weight, retarded lung growth, enhancement of allergic responses, reduced resistance to infection, degenerative lesions in the brain, and lung cancer (EPA 2004).

Lead. Lead in the atmosphere occurs as particulate matter. Sources of lead include leaded gasoline; the manufacturing of batteries, paints, ink, ceramics, and ammunition; and secondary lead smelters. Prior to 1978, mobile emissions were the primary source of atmospheric lead. Between 1978 and 1987, the phaseout of leaded gasoline reduced the overall inventory of airborne lead by nearly 95%. With the phaseout of leaded gasoline, secondary lead smelters, battery recycling, and manufacturing facilities are becoming lead-emissions sources of greater concern.

Prolonged exposure to atmospheric lead poses a serious threat to human health. Health effects associated with exposure to lead include gastrointestinal disturbances, anemia, kidney disease, and, in severe cases, neuromuscular and neurological dysfunction. Of particular concern are low-level lead exposures during infancy and childhood. Such exposures are associated with decrements in neurobehavioral performance, including intelligence quotient performance, psychomotor performance, reaction time, and growth. Children are highly susceptible to the effects of lead.

Reactive Organic Gases. Hydrocarbons are organic gases that are formed from hydrogen and carbon and sometimes other elements. Hydrocarbons that contribute to formation of O_3 are referred to and regulated as ROGs (also referred to as VOCs). Combustion engine exhaust, oil refineries, and fossil-fueled power plants are the sources of hydrocarbons. Other sources of hydrocarbons include evaporation from petroleum fuels, solvents, dry cleaning solutions, and paint.

The primary health effects of ROGs result from the formation of O_3 and its related health effects. High levels of ROGs in the atmosphere can interfere with oxygen intake by reducing the amount of available oxygen through displacement. Carcinogenic forms of hydrocarbons, such as benzene, are considered TACs. There are no separate health standards for ROGs as a group.

2.1.2.2 Non-Criteria Air Pollutants

Toxic Air Contaminants. A substance is considered toxic if it has the potential to cause adverse health effects in humans, including increasing the risk of cancer upon exposure, or acute and/or chronic noncancerous health effects. A toxic substance released into the air is considered a TAC. TACs are identified by federal and state

agencies based on a review of available scientific evidence. In the State of California, TACs are identified through a two-step process that was established in 1983 under the Toxic Air Contaminant Identification and Control Act. This two-step process of risk identification and risk management and reduction was designed to protect residents from the health effects of toxic substances in the air. In addition, the California Air Toxics "Hot Spots" Information and Assessment Act, Assembly Bill (AB) 2588, was enacted by the legislature in 1987 to address public concern over the release of TACs into the atmosphere. The law requires facilities emitting toxic substances to provide local air pollution control districts with information that will allow an assessment of the air toxics problem, identification of air toxics emissions sources, location of resulting hotspots, notification of the public exposed to significant risk, and development of effective strategies to reduce potential risks to the public over 5 years.

Examples include certain aromatic and chlorinated hydrocarbons, certain metals, and asbestos. TACs are generated by a number of sources, including stationary sources such as dry cleaners, gas stations, combustion sources, and laboratories; mobile sources such as automobiles; and area sources such as landfills. Adverse health effects associated with exposure to TACs may include carcinogenic (i.e., cancer-causing) and noncarcinogenic effects. Noncarcinogenic effects typically affect one or more target organ systems and may be experienced on either short-term (acute) or long-term (chronic) exposure to a given TAC.

Diesel Particulate Matter. Diesel particulate matter (DPM) is part of a complex mixture that makes up diesel exhaust. Diesel exhaust is composed of two phases, gas and particle, both of which contribute to health risks. More than 90% of DPM is less than 1 micrometer in diameter (about 1/70th the diameter of a human hair), and thus is a subset of PM2.5 (CARB 2016b). DPM is typically composed of carbon particles ("soot," also called black carbon, or BC) and numerous organic compounds, including over 40 known cancer-causing organic substances. Examples of these chemicals include polycyclic aromatic hydrocarbons, benzene, formaldehyde, acetaldehyde, acrolein, and 1,3-butadiene (CARB 2016b). The CARB classified "particulate emissions from diesel-fueled engines" (i.e., DPM; 17 CCR 93000) as a TAC in August 1998. DPM is emitted from a broad range of diesel engines: on-road diesel engines of trucks, buses, and cars and off-road diesel engines, including locomotives, marine vessels, and heavy-duty construction equipment, among others. Approximately 70% of all airborne cancer risk in California is associated with DPM (CARB 2000). To reduce the cancer risk associated with DPM, CARB adopted a diesel risk reduction plan in 2000 (CARB 2000). Because it is part of PM2.5, DPM also contributes to the same noncancerous health effects as PM2.5 exposure. These effects include premature death; hospitalizations and emergency department visits for exacerbated chronic heart and lung disease, including asthma; increased respiratory symptoms; and decreased lung function in children. Several studies suggest that exposure to DPM may also facilitate development of new allergies (CARB 2016b). Those most vulnerable to noncancerous health effects are children whose lungs are still developing and the elderly who often have chronic health problems.

Odorous Compounds. Odors are generally regarded as an annoyance rather than a health hazard. Manifestations of a person's reaction to odors can range from psychological (e.g., irritation, anger, or anxiety) to physiological (e.g., circulatory and respiratory effects, nausea, vomiting, and headache). The ability to detect odors varies considerably among the population and overall is subjective. People may have different reactions to the same odor. An odor that is offensive to one person may be perfectly acceptable to another (e.g., coffee roaster). An unfamiliar odor is more easily detected and is more likely to cause complaints than a familiar one. Known as odor fatigue, a person can become desensitized to almost any odor, and recognition may only occur with an alteration in the intensity. The occurrence and severity of odor impacts depend on the nature, frequency, and intensity of the source; wind speed and direction; and the sensitivity of receptors.

Valley Fever. Coccidioidomycosis, more commonly known as "valley fever," is an infection caused by inhalation of the spores of the *Coccidioides immitis* fungus, which grows in the soils of the southwestern United States. When fungal spores are present, any activity that disturbs the soil, such as digging, grading, or other earth-moving operations, can cause the spores to become airborne and thereby increase the risk of exposure. The ecologic factors that appear to be most conducive to survival and replication of the spores are high summer temperatures, mild winters, sparse rainfall, and alkaline sandy soils.

The fungus is very prevalent in the soils of California's San Joaquin Valley. Per the California Department of Public Health (CDPH), the range over 8 years (2011–2018) for coccidioidomycosis cases in San Joaquin County is 7.2 to 31.6 cases per 100,000 people per year. Statewide incidences in 2018 were 18.8 per 100,000 people (CDPH 2019).

The project would be required to comply with Rule 8021, Section 6.3, which would require the project to develop, prepare, submit, obtain approval of, and implement a dust control plan.

2.1.3 Sensitive Receptors

Some land uses are considered more sensitive to changes in air quality than others, depending on the population groups and the activities involved. People most likely to be affected by air pollution include children, the elderly, athletes, and people with cardiovascular and chronic respiratory diseases. Facilities and structures where these air pollution-sensitive people live or spend considerable amounts of time are known as sensitive receptors. Land uses where air pollution-sensitive individuals are most likely to spend time include schools and schoolyards, parks and playgrounds, daycare centers, nursing homes, hospitals, and residential communities (sensitive sites or sensitive land uses) (CARB 2005). The SJVAPCD identifies sensitive receptors as facilities that house or attract children, the elderly, people with illnesses, hospitals, schools, convalescent facilities, and residential areas (SJVAPCD 2000). The closest off-site sensitive receptor to the project site includes a residence located 1,360 feet west of the project site.

2.2 Regulatory Setting

2.2.1 Federal Regulations

2.2.1.1 Criteria Air Pollutants

The federal Clean Air Act, passed in 1970 and last amended in 1990, forms the basis for the national air pollution control effort. The EPA is responsible for implementing most aspects of the Clean Air Act, including setting National Ambient Air Quality Standards (NAAQS) for major air pollutants; setting hazardous air pollutant (HAP) standards; approving state attainment plans; setting motor vehicle emission standards; issuing stationary source emission standards and permits; and establishing acid rain control measures, stratospheric O_3 protection measures, and enforcement provisions. Under the Clean Air Act, NAAQS are established for the following criteria pollutants: O_3, CO, NO_2, SO_2, PM_{10}, $PM_{2.5}$, and lead.

The NAAQS describe acceptable air quality conditions designed to protect the health and welfare of the citizens of the nation. The NAAQS (other than for O_3, NO_2, SO_2, PM_{10}, $PM_{2.5}$, and those based on annual averages or arithmetic mean) are not to be exceeded more than once per year. NAAQS for O_3, NO_2, SO_2, PM_{10}, and $PM_{2.5}$ are based on statistical calculations over 1- to 3-year periods, depending on the pollutant. The Clean Air Act requires the EPA to

reassess the NAAQS at least every 5 years to determine whether adopted standards are adequate to protect public health based on current scientific evidence. States with areas that exceed the NAAQS must prepare a state implementation plan that demonstrates how those areas will attain the NAAQS within mandated time frames. A more detailed discussion of the NAAQS, as well as the CAAQS (discussed below), is provided in Appendix C.

2.2.1.2 Hazardous Air Pollutants

The 1977 federal Clean Air Act amendments required the EPA to identify National Emission Standards for Hazardous Air Pollutants to protect public health and welfare. HAPs include certain volatile organic chemicals, pesticides, herbicides, and radionuclides that present a tangible hazard, based on scientific studies of exposure to humans and other mammals. Under the 1990 federal Clean Air Act Amendments, which expanded the control program for HAPs, 187 substances and chemical families were identified as HAPs.

2.2.2 State Regulations

2.2.2.1 Criteria Air Pollutants

The federal Clean Air Act delegates the regulation of air pollution control and the enforcement of the NAAQS to the states. In California, the task of air quality management and regulation has been legislatively granted to CARB, with subsidiary responsibilities assigned to air quality management districts and air pollution control districts at the regional and county levels. CARB, which became part of the California Environmental Protection Agency in 1991, is responsible for ensuring implementation of the California Clean Air Act of 1988, responding to the federal Clean Air Act, and regulating emissions from motor vehicles and consumer products.

CARB has established California Ambient Air Quality Standards (CAAQS), which are generally more restrictive than the NAAQS. As stated previously, an ambient air quality standard defines the maximum amount of a pollutant averaged over a specified period of time that can be present in outdoor air without harm to the public's health. For each pollutant, concentrations must be below the relevant CAAQS before a basin can attain the corresponding CAAQS. Air quality is considered "in attainment" if pollutant levels are continuously below the CAAQS and violate the standards no more than once each year. The CAAQS for O_3, CO, SO_2 (1-hour and 24-hour), NO_2, PM_{10}, and $PM_{2.5}$ and visibility-reducing particles are values that are not to be exceeded.

The SJVAPCD has based their thresholds of significance for CEQA purposes on the levels that scientific and factual data demonstrate that the air basin can accommodate without affecting the attainment date for the NAAQS or CAAQS. Since an ambient air quality standard is based on maximum pollutant levels in outdoor air that would not harm the public's health, and air district thresholds pertain to attainment of the ambient air quality standard, this means that the thresholds established by air districts are also protective of human health. All others are not to be equaled or exceeded. The NAAQS and CAAQS are presented in Table 1.

Table 1. Ambient Air Quality Standards

Pollutant	Averaging Time	California Standards[a]	National Standards[b]	
		Concentration[c]	*Primary*[c,d]	*Secondary*[c,e]
O_3	1 hour	0.09 ppm (180 µg/m^3)	—	Same as Primary Standard[f]
	8 hours	0.070 ppm (137 µg/m^3)	0.070 ppm (137 µg/m^3)[f]	

Table 1. Ambient Air Quality Standards

Pollutant	Averaging Time	California Standards[a]	National Standards[b]	
		Concentration[c]	*Primary*[c,d]	*Secondary*[c,e]
NO_2[g]	1 hour	0.18 ppm (339 µg/m³)	0.100 ppm (188 µg/m³)	Same as Primary Standard
	Annual Arithmetic Mean	0.030 ppm (57 µg/m³)	0.053 ppm (100 µg/m³)	
CO	1 hour	20 ppm (23 mg/m³)	35 ppm (40 mg/m³)	None
	8 hours	9.0 ppm (10 mg/m³)	9 ppm (10 mg/m³)	
SO_2[h]	1 hour	0.25 ppm (655 µg/m³)	0.075 ppm (196 µg/m³)	—
	3 hours	—	—	0.5 ppm (1,300 µg/m³)
	24 hours	0.04 ppm (105 µg/m³)	0.14 ppm (for certain areas)[g]	—
	Annual	—	0.030 ppm (for certain areas)[g]	—
PM_{10}[i]	24 hours	50 µg/m³	150 µg/m³	Same as Primary Standard
	Annual Arithmetic Mean	20 µg/m³	—	
$PM_{2.5}$[i]	24 hours	—	35 µg/m³	Same as Primary Standard
	Annual Arithmetic Mean	12 µg/m³	12.0 µg/m³	15.0 µg/m³
Lead[j,k]	30-day Average	1.5 µg/m³	—	—
	Calendar Quarter	—	1.5 µg/m³ (for certain areas)[k]	Same as Primary Standard
	Rolling 3-Month Average	—	0.15 µg/m³	
Hydrogen sulfide	1 hour	0.03 ppm (42 µg/m³)	—	—
Vinyl chloride[j]	24 hours	0.01 ppm (26 µg/m³)	—	—
Sulfates	24- hours	25 µg/m³	—	—
Visibility reducing particles	8 hour (10:00 a.m. to 6:00 p.m. PST)	Insufficient amount to produce an extinction coefficient of 0.23 per kilometer due to the number of particles when the relative humidity is less than 70%	—	—

Source: CARB 2016c.

Notes: µg/m³ = micrograms per cubic meter; mg/m³= milligrams per cubic meter; ppm = parts per million by volume; O_3 = ozone; NO_2 = nitrogen dioxide; CO = carbon monoxide; SO_2 = sulfur dioxide; PM_{10} = particulate matter with an aerodynamic diameter less than or equal to 10 microns; $PM_{2.5}$ = particulate matter with an aerodynamic diameter less than or equal to 2.5 microns.

[a] California standards for O_3, CO, SO_2 (1-hour and 24-hour), NO_2, suspended particulate matter (PM_{10}, $PM_{2.5}$), and visibility-reducing particles are values that are not to be exceeded. All others are not to be equaled or exceeded. CAAQS are listed in the Table of Standards in Section 70200 of Title 17 of the California Code of Regulations.

[b] National standards (other than O_3, NO_2, SO_2, particulate matter, and those based on annual averages or annual arithmetic mean) are not to be exceeded more than once per year. The O_3 standard is attained when the fourth highest 8-hour concentration measured at each site in a year, averaged over 3 years, is equal to or less than the standard. For PM_{10}, the 24-hour standard is attained when the expected number of days per calendar year with a 24-hour average concentration above 150 µg/m³ is equal to or less than 1. For $PM_{2.5}$, the 24-hour standard is attained when 98% of the daily concentrations, averaged over 3 years, are equal to or less than the standard.

[c] Concentration expressed first in units in which it was promulgated. Equivalent units given in parentheses are based on a reference temperature of 25°C and a reference pressure of 760 torr. Most measurements of air quality are to be corrected to a reference temperature of 25°C and a reference pressure of 760 torr; ppm in this table refers to ppm by volume, or micromoles of pollutant per mole of gas.

[d] National Primary Standards: The levels of air quality necessary, with an adequate margin of safety, to protect the public health.

[e] National Secondary Standards: The levels of air quality necessary to protect the public welfare from any known or anticipated adverse effects of a pollutant.

[f] On October 1, 2015, the national 8-hour O_3 primary and secondary standards were lowered from 0.075 to 0.070 ppm.

[g] To attain the national 1-hour standard, the 3-year average of the annual 98th percentile of the 1-hour daily maximum concentrations at each site must not exceed 100 parts per billion (ppb). Note that the national 1-hour standard is in units of ppb. California standards are in units of ppm. To directly compare the national 1-hour standard to the California standards, the units can be converted from ppb to ppm. In this case, the national standard of 100 ppb is identical to 0.100 ppm.

[h] On June 2, 2010, a new 1-hour SO_2 standard was established, and the existing 24-hour and annual primary standards were revoked. To attain the national 1-hour standard, the 3-year average of the annual 99th percentile of the 1-hour daily maximum concentrations at each site must not exceed 75 ppb. The 1971 SO_2 national standards (24-hour and annual) remain in effect until 1 year after an area is designated for the 2010 standard, except that in areas designated nonattainment of the 1971 standards, the 1971 standards remain in effect until implementation plans to attain or maintain the 2010 standards are approved.

[i] On December 14, 2012, the national annual $PM_{2.5}$ primary standard was lowered from 15 µg/m³ to 12.0 µg/m³. The existing national 24-hour $PM_{2.5}$ standards (primary and secondary) were retained at 35 µg/m³, as was the annual secondary standard of 15 µg/m³. The existing 24-hour PM_{10} standards (primary and secondary) of 150 µg/m³ were also retained. The form of the annual primary and secondary standards is the annual mean averaged over 3 years.

[j] CARB has identified lead and vinyl chloride as TACs with no threshold level of exposure for adverse health effects determined. These actions allow for the implementation of control measures at levels below the ambient concentrations specified for these pollutants.

[k] The national standard for lead was revised on October 15, 2008, to a rolling 3-month average. The 1978 lead standard (1.5 µg/m³ as a quarterly average) remains in effect until 1 year after an area is designated for the 2008 standard, except that in areas designated nonattainment for the 1978 standard, the 1978 standard remains in effect until implementation plans to attain or maintain the 2008 standard are approved.

2.2.2.2 Toxic Air Contaminants

The state Air Toxics Program was established in 1983 under Assembly Bill (AB) 1807 (Tanner). The California TAC list identifies more than 700 pollutants, of which carcinogenic and noncarcinogenic toxicity criteria have been established for a subset of these pollutants pursuant to the California Health and Safety Code. In accordance with AB 2728, the state list includes the (federal) HAPs. In 1987, the Legislature enacted the Air Toxics "Hot Spots" Information and Assessment Act of 1987 (AB 2588) to address public concern over the release of TACs into the atmosphere. AB 2588 law requires facilities emitting toxic substances to provide local air pollution control districts with information that will allow an assessment of the air toxics problem, identification of air toxics emissions sources, location of resulting hotspots, notification of the public exposed to significant risk, and development of effective strategies to reduce potential risks to the public over 5 years. TAC emissions from individual facilities are quantified and prioritized. "High-priority" facilities are required to perform a health risk assessment (HRA), and if specific thresholds are exceeded, the facility operator is required to communicate the results to the public in the form of notices and public meetings.

In 2000, CARB approved a comprehensive Diesel Risk Reduction Plan to reduce diesel emissions from both new and existing diesel-fueled vehicles and engines (CARB 2000). The regulation is anticipated to result in an 80% decrease in statewide diesel health risk in 2020 compared with the diesel risk in 2000. Additional regulations apply to new trucks and diesel fuel, including the On-Road Heavy Duty Diesel Vehicle (In-Use) Regulation, the On-

Road Heavy Duty (New) Vehicle Program, the In-Use Off-Road Diesel Vehicle Regulation, and the New Off-Road Compression-Ignition (Diesel) Engines and Equipment program. These regulations and programs have timetables by which manufacturers must comply and existing operators must upgrade their diesel-powered equipment. There are several Airborne Toxic Control Measures that reduce diesel emissions, including In-Use Off-Road Diesel-Fueled Fleets (13 CCR 2449 et seq.) and In-Use On-Road Diesel-Fueled Vehicles (13 CCR 2025).

California Health and Safety Code Section 41700

Section 41700 of the Health and Safety Code states that a person shall not discharge from any source whatsoever quantities of air contaminants or other material that cause injury, detriment, nuisance, or annoyance to any considerable number of persons or to the public; or that endanger the comfort, repose, health, or safety of any of those persons or the public; or that cause, or have a natural tendency to cause, injury or damage to business or property. This section also applies to sources of objectionable odors.

Safety Training on Valley Fever Assembly Bill 203

AB 203 adds Section 6709 to the Labor Code and requires employers to provide effective Valley Fever awareness and prevention training for all construction employees at risk of prolonged exposure to dust in Fresno, Kern, Kings, Madera, Merced, Monterey, San Joaquin, San Luis Obispo, Santa Barbara, Tulare, and Ventura Counties by May 1, 2020, annually by that date thereafter, and again before an employee begins work that is reasonably anticipated to cause exposure to substantial dust disturbance.

2.2.3 Local Regulations

2.2.3.1 San Joaquin Valley Air Pollution Control District

The SJVAPCD is the regional agency responsible for the regulation and enforcement of federal, state, and local air pollution control regulations in the SJVAB. The SJVAPCD jurisdiction includes all of Merced, San Joaquin, Stanislaus, Madera, Fresno, Kings, and Tulare Counties, and the San Joaquin Valley portion of Kern County.

Air Quality Plans

The SJVAPCD has prepared several air quality attainment plans to achieve the O_3 and particulate matter standards, the most recent of which include the *2020 Reasonably Available Control Technology Demonstration for the 2015 8-Hour Ozone Standard (SJVAPCD 2020a), 2016 Plan for the 2008 8-Hour Ozone Standard* (SJVAPCD 2016a), *2014 Reasonably Available Control Technology Demonstration for the 8-Hour Ozone State Implementation Plan* (SJVAPCD 2014a), *2013 Plan for the Revoked 1-Hour Ozone Standard* (SJVAPCD 2013), *2007 PM_{10} Maintenance Plan and Request for Redesignation* (SJVAPCD 2007a), *2012 $PM_{2.5}$ Plan* (SJVAPCD 2012), *2015 Plan for the 1997 $PM_{2.5}$ Standard* (SJVAPCD 2015b), *2016 Moderate Area Plan for the 2012 $PM_{2.5}$ Standard* (SJVAPCD 2016b), and the *2018 Plan for the 1997, 2006, and 2012 $PM_{2.5}$ Standards* (SJVAPCD 2020b). The following sections summarize key elements of these and other recent air quality attainment plans.

Extreme 1-Hour Ozone Attainment Demonstration Plan

The *Extreme 1-Hour Ozone Attainment Demonstration Plan*, adopted by the SJVAPCD Governing Board October 8, 2004, sets forth measures and emission-reduction strategies designed to attain the federal 1-hour O_3 standard

by November 15, 2010, as well as an emissions inventory, outreach, and rate of progress demonstration. This plan was approved by the EPA on March 8, 2010; however, the EPA's approval was subsequently withdrawn effective November 26, 2012, in response to a decision issued by the U.S. Court of Appeals for the Ninth Circuit (*Sierra Club v. EPA*, 671 F.3d 955) remanding EPA's approval of these SIP revisions. Concurrent with the EPA's final rule, CARB withdrew the 2004 plan. The SJVAPCD developed a new plan for the 1-hour O_3 standard, the *2013 Plan for the Revoked 1-Hour Ozone Standard*, which it adopted in September 2013.

2007 8-Hour Ozone Plan

The *2007 8-Hour Ozone Plan*, adopted by the Governing Board on April 30, 2007, sets forth measures and a "dual path" strategy to attain the federal 1997 8-hour O_3 standard by 2023 for the SJVAB by reducing emissions of O_3 and particulate matter precursors (SJVAPCD 2007b). The plan also includes provisions for improved pollution control technologies for mobile and stationary sources, as well as an increase in state and federal funding for incentive-based measures to reduce emissions. All local measures would be adopted by the SJVAPCD before 2012. This plan was approved by the EPA on April 30, 2012. On November 26, 2012, however, the EPA withdrew its determination that the plan satisfied the federal Clean Air Act requirements regarding emissions growth caused by growth in vehicle miles traveled. All other determinations in the EPA's March 1, 2012, rule approving the plan remain unchanged and in effect. The SJVAPCD is currently in the process of developing an O_3 plan to address EPA's 2008 8-hour O_3 standard, with attainment required by 2032.

2009 Reasonably Available Control Technology (RACT) SIP

On April 16, 2009, the Governing Board adopted the *Reasonably Available Control Technology Demonstration for Ozone State Implementation Plans* (2009 RACT SIP) (SJVAPCD 2009a). In part, the 2009 RACT SIP satisfied the commitment by the SJVAPCD for a new RACT analysis for the 1-hour O_3 plan (see discussion of the EPA withdrawal of approval in the *Extreme 1-Hour Ozone Attainment Demonstration Plan* summary above) and was intended to prevent all sanctions that could be imposed by EPA for failure to submit a required SIP revision for the 1-hour O_3 standard. With respect to the 8-hour standard, the plan also assesses the SJVAPCD's rules based on the adjusted major source definition of 10 tons per year (due to the SJVAB's designation as an extreme O_3 nonattainment area), evaluates SJVAPCD rules against new Control Techniques Guidelines promulgated since August 2006, and reviews additional rules and rule amendments that had been adopted by the Governing Board since August 17, 2006, for RACT consistency.

2013 Plan for the Revoked 1-Hour Ozone Standard

The SJVAPCD developed a plan for EPA's revoked 1-hour O_3 standard after the EPA withdrew its approval of the 2004 *Extreme 1-Hour Ozone Attainment Demonstration Plan* as a result of litigation. As a result of the litigation, the EPA reinstated previously revoked requirements for 1-hour O_3 attainment plans. The 2013 plan addresses those requirements, including a demonstration of implementation of Reasonably Available Control Measures and a demonstration of a rate of progress averaging 3% annual reductions of ROG or NO_x emissions every 3 years. The *2013 Plan for the Revoked 1-Hour Ozone Standard* was approved by the Governing Board on September 19, 2013 (SJVAPCD 2013). Based on implementation of the ongoing control measures, preliminary modeling indicates that the SJVAB will attain the 1-hour O_3 standard by 2017, before the final attainment year of 2022 and without relying on long-term measures under the federal Clean Air Act Section 182(e)(5) ("black box reductions").

2014 RACT SIP

On June 19, 2014, the Governing Board adopted the *2014 Reasonably Available Control Technology Demonstration for the 8-Hour Ozone State Implementation Plan* (2014 RACT SIP) (SJVAPCD 2014a). This RACT SIP includes a demonstration that the SJVAPCD rules implement RACT. The plan reviews each of the NO_x reduction rules and concludes that they satisfy requirements for stringency, applicability, and enforceability, and meet or exceed RACT. The plan's analysis of further ROG reductions through modeling and technical analyses demonstrates that added ROG reductions will not advance SJVAB's O_3 attainment. Each ROG (i.e., VOC) rule evaluated in the 2009 RACT SIP, however, has been subsequently approved by the EPA as meeting RACT within the last 2 years. The O_3 attainment strategy, therefore, focuses on further NO_x reductions.

SJVAPCD 2016 Plan for the 2008 8-Hour Ozone Standard

The SJVAPCD adopted the 2016 Plan for the 2008 8-Hour Ozone Standard in June 2016. This plan demonstrates the practicable and expeditious attainment of the 75 parts per billion 8-hour O_3 standard.

SJVAPCD 2016 Moderate Area Plan for the 2012 $PM_{2.5}$ Standard

The SJVAPCD adopted the 2016 Moderate Area Plan for the 2012 $PM2.5$ Standard on September 15, 2016. This plan addresses the EPA federal annual $PM_{2.5}$ standard of 12 µg/m^3, established in 2012. This plan includes an attainment impracticability demonstration and request for reclassification of the San Joaquin Valley Air Basin (SJVAB) from Moderate nonattainment to Serious nonattainment.

SJVAPCD 2018 Plan for the 1997, 2006, and 2012 $PM_{2.5}$ Standards

The SJVAPCD adopted the 2018 Plan for the 1997, 2006, and 2012 $PM_{2.5}$ Standards on November 15, 2018. This plan addresses the U.S. Environmental Protection Agency (EPA) federal 1997 annual $PM_{2.5}$ standard of 15 µg/m^3 and 24-hour $PM_{2.5}$ standard of 65 µg/m^3; the 2006 24-hour $PM_{2.5}$ standard of 35 µg/m^3; and the 2012 annual $PM_{2.5}$ standard of 12 µg/m^3. This plan demonstrates attainment of the federal $PM_{2.5}$ standards as expeditiously as practicable.

2020 RACT Demonstration

The SJVAPCD adopted the 2020 RACT Demonstration for the 2015 8-Hour Ozone Standard on June 18, 2020. The Valley is classified as an Extreme nonattainment area for the 2015 O_3 standard. The 2020 RACT Demonstration includes a comprehensive evaluation of all NOx and ROG SJVAPCD rules to ensure that each rule meets or exceeds RACT. The 2020 RACT Demonstration fulfills CAA requirements and demonstrates that all federal RACT requirements continue to be satisfied in the Valley.

Particulate Matter Attainment Plans

2007 PM_{10} Maintenance Plan and Request for Redesignation

On September 20, 2007, the Governing Board approved the *2007 PM_{10} Maintenance Plan and Request for Redesignation* (SJVAPCD 2007a). After achieving compliance with the annual and 24-hour NAAQS for PM_{10} during

the period from 2003 to 2006,[3] the SJVAPCD prepared the *2007 PM_{10} Maintenance Plan and Request for Redesignation*. The plan includes future emission estimates through 2020 and, based on modeling, projects that SJVAB will continue to attain the PM_{10} NAAQS through 2020. The plan does not call for adoption of new control measures. Measures called for in the *2007 8-Hour Ozone Plan* and *2008 $PM_{2.5}$ Plan* (discussed below) will also produce PM_{10} benefits; however, the plan does include a contingency plan if future PM_{10} levels were to exceed the NAAQS. It also includes a request that the EPA redesignate the SJVAB to attainment status for the PM_{10} NAAQS. On October 25, 2007, CARB approved the SJVAPCD's plan with modifications to the transportation conformity budgets. On September 25, 2008, the EPA redesignated the SJVAB to attainment for the PM_{10} NAAQS and approved the PM_{10} maintenance plan.

2008 $PM_{2.5}$ Plan

The SJVAPCD Governing Board adopted the *2008 $PM_{2.5}$ Plan* on April 30, 2008 (SJVAPCD 2008). This plan is designed to assist the SJVAB in attaining all $PM_{2.5}$ standards, including the 1997 federal standards, the 2006 federal standards, and the state standard, as soon as possible. On July 13, 2011, the EPA issued a proposed rule partially approving and disapproving the *2008 $PM_{2.5}$ Plan*. Subsequently, on November 9, 2011, the EPA issued a final rule approving most of the plan with an effective date of January 9, 2012. However, the EPA disapproved the plan's contingency measures because they would not provide sufficient emission reductions.

2012 $PM_{2.5}$ Plan

Approved by the Governing Board on December 20, 2012, the *2012 $PM_{2.5}$ Plan* addresses attainment of EPA's 24-hour $PM_{2.5}$ standard of 35 micrograms per cubic meter ($\mu g/m^3$) established in 2006. In addition to reducing direct emissions of $PM_{2.5}$, this plan focuses on reducing emissions of NO_x, which is a predominant pollutant in the formation of $PM_{2.5}$ in the SJVAB. The plan relies on a multilevel approach to reducing emissions through SJVAPCD efforts (industry, the general public, employers, and small businesses) and state/federal efforts (passenger vehicles, heavy-duty trucks, and off-road sources), as well as SJVAPCD and state/federal incentive programs to accelerate replacement of on- and off-road vehicles and equipment. Through compliance with this attainment plan, the SJVAB would achieve attainment of the federal $PM_{2.5}$ standard by the attainment deadline of 2019, with the majority of the SJVAB actually experiencing attainment well before the deadline. The EPA lowered the $PM_{2.5}$ standard again in 2012 and is in the process of completing attainment designations.

2015 Plan for the 1997 $PM_{2.5}$ Standard

The Governing Board adopted the *2015 Plan for the 1997 $PM_{2.5}$ Standard* on April 16, 2015 (SJVAPCD 2015b). This plan addresses the EPA's annual $PM_{2.5}$ standard of 15 micrograms per cubic meter ($\mu g/m^3$) and 24-hour $PM_{2.5}$ standard of 65 $\mu g/m^3$ established in 1997. While nearly achieving the 1997 standards, the SJVAB experienced higher $PM_{2.5}$ levels in winter 2013–2014 due to the extreme drought, stagnation, strong inversions, and historically dry conditions; thus, the SJVAPCD was unable to meet the attainment date of December 31, 2015. Accordingly, this plan also contains a request for a one-time extension of the attainment deadline for the 24-hour standard to 2018 and the annual standard to 2020. The plan builds on past development and implementation of effective control strategies. Consistent with EPA regulations for $PM_{2.5}$ plans to achieve the 1997 standards, the plan contains Most Stringent

[3] Attainment is achieved if the 3-year annual average PM_{10} concentration is less than or equal to 50 $\mu g/m^3$ and the expected 24-hour exceedance days is less than or equal to 1.0.

Measures, Best Available Control Measures, additional enforceable commitments for further reductions in emissions, and ensures expeditious attainment of the 1997 standard.

2016 Moderate Area Plan for the 2012 $PM_{2.5}$ Standard

On September 15, 2016, the Governing Board adopted the *2016 Moderate Area Plan for the 2012 $PM_{2.5}$ Standard* (SJVAPCD 2016b). This plan addresses the federal mandates for areas classified as "moderate nonattainment" for the 2012 $PM_{2.5}$ NAAQS of 12 µg/m^3. Consistent with EPA's $PM_{2.5}$ Implementation Rule, the plan satisfies the mandate to submit a moderate nonattainment plan to EPA by October 2016, demonstrates impracticability of attaining the 2012 $PM_{2.5}$ standard by the moderate nonattainment deadline of 2021, includes a request to reclassify the San Joaquin Valley to a "serious nonattainment" area for the 2012 PM2.5 standard, satisfies all federal Clean Air Act requirements for moderate nonattainment areas, and demonstrates that emissions are continuing to be reduced in the San Joaquin Valley.

2017 Particulate Matter Plans

The SJVAPCD is in the process of developing an attainment strategy to address the 1997, 2006, and 2012 $PM_{2.5}$ standards and a plan to demonstrate maintenance of the 1987 PM_{10} standard, as required under the federal Clean Air Act.

Senate Bill 656 Particulate Matter Control Measure Implementation Schedule

Senate Bill (SB) 656 was enacted in 2003 and codified as California Health and Safety Code Section 39614. SB 656 seeks to reduce exposure to PM_{10} and $PM_{2.5}$ and to make further progress toward attainment of the NAAQS and CAAQS for PM_{10} and $PM_{2.5}$. SB 656 required CARB, in consultation with local air districts, to develop and adopt lists of "the most readily available, feasible, and cost-effective" particulate matter control measures. Subsequently, the air districts were required to adopt implementation schedules for the relevant control measures in their district. In June 2005, the SJVAPCD adopted its SB 656 Particulate Matter Control Measure Implementation Schedule. The SJVAPCD analysis of the CARB list concluded that all but one of the measures that apply to SJVAPCD sources had been implemented or were in one of the SJVAPCD's attainment plans for adoption within the next 2 years. The remaining measure pertains to a future amendment of a rule for gasoline transfer into stationary storage containers, delivery vessels, and bulk plants.

Applicable Rules

The SJVAPCD's primary means of implementing air quality plans is by adopting and enforcing rules and regulations. Stationary sources within the jurisdiction are regulated by the SJVAPCD's permit authority over such sources and through its review and planning activities. Unlike stationary source projects, which encompass very specific types of equipment, process parameters, throughputs, and controls, air emissions sources from land use development projects are mainly mobile sources (traffic) and area sources (small dispersed stationary and other non-mobile sources), including exempt (i.e., no permit required) sources such as consumer products, landscaping equipment, furnaces, and water heaters. Mixed-use land development projects may include nonexempt sources including devices such as small to large boilers, stationary internal combustion engines, gas stations, or asphalt batch plants.

Notwithstanding nonexempt stationary sources, which would be permitted on a case-by-case basis, SJVAPCD Regulations VIII and IX generally apply to land use development projects and are described below:

Regulation IV – Prohibitions

- Rule 4102: Nuisance – Prohibits discharge of air contaminants or other materials from any source which causes injury, detriment, nuisance, or annoyance to any considerable number of persons or to the public or which endanger the comfort, repose, health, or safety of any such person or the public or which cause or have a natural tendency to cause injury or damage to business or property.
- Rule 4601: Architectural Coatings – The purpose of the rule is to limit VOC emissions from architectural coatings. This rule specifies architectural coatings storage, cleanup, and labeling requirements.
- Rule 4641: Cutback, Slow Cure, and Emulsified Asphalt, Paving and Maintenance Operations – The purpose of this rule is to limit VOC emissions by restricting the application and manufacturing of certain types of asphalt for paving and maintenance operations.

Regulation VIII – Fugitive PM_{10} Prohibition

- Rule 8021: Construction, Demolition, Excavation, Extraction, and Other Earthmoving Activities – The purpose of this rule is to limit fugitive dust emissions from construction, demolition, excavation, extraction, and other earthmoving activities. The rule outlines Dust Control Plan requirements for certain applicable construction activities.
- Rule 8031: Bulk Materials – The purpose of the rule is to limit fugitive dust emissions from the outdoor handling, storage, and transport of bulk materials.
- Rule 8041: Carryout and Trackout – The purpose of this rule is to prevent or limit fugitive dust emissions from carryout and trackout.
- Rule 8051: Open Areas – The purpose of this rule is to limit fugitive dust emissions from open areas.
- Rule 8061: Paved And Unpaved Roads – The purpose of this rule is to limit fugitive dust emissions from paved and unpaved roads by implementing control measures and design criteria.
- Rule 8071: Unpaved Vehicle/Equipment Traffic Areas – The purpose of this rule is to limit fugitive dust emissions from unpaved vehicle and equipment traffic areas.

Pursuant to Rule 8021, Section 6.3, the project would be required to develop, prepare, submit, obtain approval of, and implement a dust control plan, which would reduce fugitive dust impacts to less than significant during project construction.

Regulation IX – Mobile and Indirect Sources

- Rule 9110: General Conformity – The rule specifies the criteria and procedures for determining the conformity of federal actions with the San Joaquin Valley Unified Air Pollution Control District's air quality implementation plan.
- Rule 9120: Transportation Conformity – The rule sets forth the principles for determining conformity of transportation plans, programs, and projects which are developed, funded, or approved by the U.S. Department of Transportation (DOT), and by metropolitan planning organizations (MPOs) or other recipients of funds under Title 23 U.S.C. or the Federal Transit Act. The rule sets forth policy, criteria, and procedures for demonstrating and assuring conformity of such activities to an applicable implementation plan developed pursuant to the Clean Air Act.

- Rule 9410: Employer Based Trip Reduction – The purpose of this rule is to reduce vehicle miles traveled (VMT) from private vehicles used by employees to commute to and from their worksites to reduce emissions of oxides of nitrogen, volatile organic compounds, and particulate matter.
- Rule 9510: Indirect Source Review (ISR) – The purpose of this rule is to fulfill the District's emission reduction commitments in the PM_{10} and Ozone Attainment Plans, achieve emission reductions from the construction and use of development projects through design features and on-site measures, and provide a mechanism for reducing emissions from the construction of and use of development projects through off-site measures.
- Rule 9610: State Implementation Plan Credit for Emission Reductions Generated through Incentive Programs – The purpose of this rule is to provide an administrative mechanism for the District to achieve credit towards State Implementation Plan requirements for emission reductions achieved in the San Joaquin Valley Air Basin through incentive programs administered by the District, U.S. Department of Agriculture Natural Resources Conservation Service, or CARB.

Rule 9510: Indirect Source Review

The ISR rule, which was adopted December 15, 2005, and went into effect March 1, 2006, requires developers of new residential, commercial, and some industrial projects to reduce NO_x and PM_{10} emissions generated by their projects. Pursuant to Rule 9510, the purpose of the ISR program is to reduce emissions of NO_x and PM_{10} from new land development projects. In general, development contributes to air pollution in the SJVAB increasing the number of vehicles and vehicle miles traveled. ISR applies to development projects that require discretionary approval from the lead agency. The ISR rule also applies to transportation and transit projects whose construction exhaust emissions would equal or exceed 2 tons per year of NO_x or PM_{10}. The ISR rule requires submittal of an air impact assessment application no later than the date on which application is made for a final discretionary approval from the public agency. The air impact assessment contains the information necessary to calculate both construction and operational emissions of a development project.

Section 6.0 of the ISR rule outlines general mitigation requirements for developments that include reduction in construction emissions of 20% of the total construction NO_x emissions, and 45% of the total construction PM_{10} exhaust emissions. The rule also requires the project to reduce operational NO_x emissions by 33.3% and operational PM_{10} emissions by 50% compared to the unmitigated baseline. Section 7.0 of the ISR rule includes fee schedules for construction or operational excess emissions of NO_x or PM_{10}—those emissions above the goals identified in Section 6.0 of the rule. Monies collected from this fee are used by the SJVAPCD to fund emission reduction projects in the SJVAB on behalf of the project.

Currently, the SJVAPCD is proposing revisions to Rule 9510 that may affect the applicability mechanism of the ISR rule to ensure that the rule applies consistently throughout the San Joaquin Valley, as well as clarification and enhancement of several other aspects of the rule.

Rule 9610: State Implementation Plan Credit for Emission Reductions Generated through Incentive Programs

Rule 9610 provides an administrative mechanism for the SJVAPCD to receive credit towards SIP requirements for emission reductions achieved in the SJVAB through incentive programs administered by the SJVAPCD, U.S. Department of Agriculture Natural Resources Conservation Service, or CARB. On April 9, 2015, EPA finalized a limited approval and limited disapproval (for a minor administrative error) of Rule 9610 as a revision to the California SIP. Additional documentation regarding the effectiveness of the SJVAPCD's incentive programs can be found in *2015 Annual Demonstration Report SIP Credit for Emission Reductions Generated Through Incentive Programs* (SJVAPCD 2015c).

2.2.3.2 San Joaquin Council of Governments

San Joaquin Council of Governments (SJCOG) Board adopted the 2018 Regional Transportation Plan/ Sustainable Communities Strategy (RTP/SCS) on June 28, 2018. The RTP/SCS is comprehensive in its response to new federal statues embodies in the Moving Ahead for Progress in the 21st Century and state statutes including Senate Bill 375. The RTP/SCS continues to provide a sustainability vision through year 2042 that recognizes the significant impact the transportation network has on the region's public health, mobility, and economic vitality. As the region's comprehensive long-range transportation planning document, the RTP/SCS serves as a guide for achieving public policy decisions that will result in balanced investments for a wide range of multimodal transportation improvements. SJCOG is currently preparing the 2022 RTP/SCS Update, Envision 2050 (SJCOG 2018).

2.2.3.3 County of San Joaquin

The County's General Plan Public Health and Safety Element, Air Quality Goal is intended to protect public health and welfare by implementing measures that allow the SJVAPCD to attain federal and state air quality standards. The Element sets forth a number of policies and standards to reduce current pollutant emissions and to require new development to include measures to comply with air quality standards. The County's General Plan Public Health and Safety Element, Air Quality Goal includes the following:

Goal PHS-5: To protect public health, agricultural crops, scenic resources, and the built and natural environments from air pollution.

- **PHS-5.4: Innovative Mitigation Measures.** The County shall encourage innovative mitigation measures and project redesign to reduce air quality impacts by coordinating with SJVAPCD, project applicants, and other interested parties.
- **PHS-5.5: Air District Best Performance Standards.** The County shall consider the Best Performance Standards adopted by SJVAPCD during the review of new development proposals.
- **PHS-5.6: Toxic Air Contaminants.** The County shall require effective buffers between residential areas and other sensitive receptors and nonresidential land uses, such as highways, trucking centers, gasoline dispensing facilities, and dry cleaners, that generate TACs.
- **PHS-5.7: Toxic Air Contaminant Exposure Reduction Measures for New Development**. The County shall require new development projects to implement all applicable best management practices that will reduce exposure of sensitive receptors (e.g., hospitals, schools, daycare facilities, elderly housing and convalescent facilities) to TACs.
- **PHS-5.8: Minimize Motor Vehicle Emissions.** The County shall strive to minimize motor vehicle emissions through land use and transportation strategies, as well as by promotion of alternative fuels.
- **PHS-5.9: Particulate Emissions from Construction.** The County shall support SJVAPCD efforts to reduce PM_{10} and $PM_{2.5}$ emissions from construction, grading, excavation, and demolition to the maximum extent feasible and consistent with state and federal regulations.
- **PHS-5.10: Particulate Emissions from County Roads.** The County shall require PM_{10} and $PM_{2.5}$ emission reductions on County-maintained roads to the maximum extent feasible and consistent with state and federal regulations.

- **PHS-5.11: Paving Materials.** The County shall require all access roads, driveways, and parking areas serving new commercial and industrial development to be constructed with materials that minimize particulate emissions and are appropriate to the scale and intensity of use.
- **PHS-5.13: Industrial Best Management Practices.** The County shall require industrial facilities to incorporate economically feasible Best Management Practices and control technology to reduce PM_{10} and $PM_{2.5}$ emissions consistent with state and federal regulations.
- **PHS-5.14: Energy Consumption Reduction.** The County shall encourage new development to incorporate green building practices and reduce air quality impacts from energy consumption.

2.3 Regional and Local Air Quality Conditions

2.3.1 San Joaquin Valley Air Basin Attainment Designation

Pursuant to the 1990 federal Clean Air Act amendments, the EPA classifies air basins (or portions thereof) as "attainment" or "nonattainment" for each criteria air pollutant, based on whether the NAAQS have been achieved. Generally, if the recorded concentrations of a pollutant are lower than the standard, the area is classified as "attainment" for that pollutant. If an area exceeds the standard, the area is classified as "nonattainment" for that pollutant. If there is not enough data available to determine whether the standard is exceeded in an area, the area is designated as "unclassified" or "unclassifiable." The designation of "unclassifiable/attainment" means that the area meets the standard or is expected to be meet the standard despite a lack of monitoring data. Areas that achieve the standards after a nonattainment designation are re-designated as maintenance areas and must have approved Maintenance Plans to ensure continued attainment of the standards. The California Clean Air Act, like its federal counterpart, called for the designation of areas as "attainment" or "nonattainment," but based on CAAQS rather than the NAAQS. Table 2 depicts the current attainment status of the project site with respect to the NAAQS and CAAQS, as well as the attainment classifications for the criteria pollutants are outlined in Table 2.

Table 2. San Joaquin Valley Air Basin Attainment Status

Pollutant	Designation/Classification	
	National Designation	*California Designation*
Ozone (O_3) – 1-hour	No national standard[1]	Nonattainment/Severe
Ozone (O_3) – 8-hour	Nonattainment/Extreme[2]	Nonattainment
Nitrogen dioxide (NO_2)	Unclassifiable/attainment	Attainment
Carbon monoxide (CO)	Unclassifiable/attainment	Attainment
Sulfur dioxide (SO_2)	Unclassifiable/attainment	Attainment
Respirable particulate matter (PM_{10})	Attainment (Maintenance)[3]	Nonattainment
Fine particulate matter ($PM_{2.5}$)	Nonattainment[4]	Nonattainment
Lead (Pb)[5]	Unclassifiable/attainment	Attainment
Sulfates (SO_4)	No national standard	Attainment
Hydrogen sulfide (H_2S)	No national standard	Unclassified
Vinyl chloride[5]	No national standard	No designation
Visibility-reducing particles	No national standard	Unclassified

Sources: SJVAPCD 2020c; EPA 2018 (national); CARB 2019e (California).

Notes: Attainment = meets the standards; Attainment (maintenance) = achieve the standards after a nonattainment designation; Nonattainment = does not meet the standards; Unclassified or unclassifiable = insufficient data to classify; Unclassifiable/attainment = meets the standard or is expected to be meet the standard despite a lack of monitoring data.

1 Effective June 15, 2005, the EPA revoked the national 1-hour ozone standard, including associated designations and classifications. EPA had previously classified the SJVAB as extreme nonattainment for this standard. EPA approved the 2004 Extreme Ozone Attainment Demonstration Plan (SJVAPCD 2004) on March 8, 2010 (effective April 7, 2010). Many applicable requirements for extreme 1-hour ozone nonattainment areas continue to apply to the SJVAB.

2 Though the San Joaquin Valley was initially classified as serious nonattainment for the 1997 8-hour ozone standard, EPA approved San Joaquin Valley reclassification to extreme nonattainment in the Federal Register on May 5, 2010 (effective June 4, 2010).

3 On September 25, 2008, EPA re-designated the San Joaquin Valley to attainment for the PM_{10} NAAQS and approved the PM_{10} Maintenance Plan.

4 The San Joaquin Valley is designated nonattainment for the 1997 $PM_{2.5}$ NAAQS. EPA designated the San Joaquin Valley as nonattainment for the 2006 $PM_{2.5}$ NAAQS on November 13, 2009 (effective December 14, 2009).

5 CARD has identified lead and vinyl chloride as toxic air contaminants with no threshold level of exposure for adverse health effects determined.

In summary, the EPA has designated the SJVAB as a nonattainment area for the national 8-hour O_3 standard, and CARB has designated the SJVAB as a nonattainment area for the California 1-hour and 8-hour O_3 standards. The SJVAB has been designated as a nonattainment area for the California 24-hour and annual PM_{10} standards, a nonattainment area for the national 24-hour and annual $PM_{2.5}$ standards, and as a nonattainment area for the California annual $PM_{2.5}$ standard. The SJVAB is designated as unclassified or attainment for all other criteria air pollutants.

2.3.2 Local Ambient Air Quality

CARB, air districts, and other agencies monitor ambient air quality at approximately 250 air quality monitoring stations across the state. The SJVAPCD and CARB monitors local ambient air quality at the project site. Air quality monitoring stations usually measure pollutant concentrations 10 feet above ground level; therefore, air quality is often referred to in terms of ground-level concentrations. The most recent background ambient air quality data from 2016 to 2018 are presented in Table 3. The Tracy monitoring station, located at 5749 South Tracy Boulevard, Tracy, California 95377, is the nearest air quality monitoring station to the project site, located approximately 3.3 miles southeast from the project site. The data collected at this station are considered representative of the air quality experienced in the project vicinity. Air quality data for O_3, NO_2, and PM_{10} from the Tracy monitoring station are provided in Table 3. Because CO and $PM_{2.5}$ are not monitored at the Tracy monitoring station, CO and $PM_{2.5}$ measurements were taken from the Stockton monitoring station (1593 East Hazelton Avenue, Stockton, California 95205, approximately 19.8 miles northeast from the project site). SO_2 is not currently monitored in the County and data is not available. The number of days exceeding the ambient air quality standards are also shown in Table 3.

Table 3. Local Ambient Air Quality Data

Monitoring Station	Unit	Averaging Time	Agency/ Method	Ambient Air Quality Standard	Measured Concentration by Year			Exceedances by Year		
					2016	*2017*	*2018*	*2016*	*2017*	*2018*
Ozone (O_3)										
Tracy	ppm	Maximum 1-hour concentration	California	0.09	0.109	0.093	0.099	4	0	1
	ppm	Maximum 8-hour concentration	California	0.070	0.092	0.082	0.081	19	5	8
			National	0.070	0.092	0.082	0.081	19	5	8

Table 3. Local Ambient Air Quality Data

Monitoring Station	Unit	Averaging Time	Agency/ Method	Ambient Air Quality Standard	Measured Concentration by Year			Exceedances by Year		
					2016	*2017*	*2018*	*2016*	*2017*	*2018*
Nitrogen Dioxide (NO_2)										
Tracy	ppm	Maximum 1-hour concentration	California	0.18	0.028	0.040	0.048	0	0	0
			National	0.100	0.028	0.041	0.049	0	0	0
	ppm	Annual concentration	California	0.030	0.048	0.050	0.056	—	—	—
			National	0.053	0.048	0.050	0.056	—	—	—
Carbon Monoxide (CO)										
Stockton	ppm	Maximum 1-hour concentration	California	20	1.7	2.2	3	0	0	0
			National	35	1.7	2.2	3	0	0	0
	ppm	Maximum 8-hour concentration	California	9.0	1.3	1.9	2.7	0	0	0
			National	9	1.3	1.9	2.7	0	0	0
Coarse Particulate Matter (PM_{10})[a]										
Tracy	µg/m³	Maximum 24-hour concentration	California	50	53.0	152.0	250.2	0.0 (0)	0.0 (0)	2.0 (2)
			National	150	52	151	249	0.0 (0)	0.0 (0)	2.0 (2)
	µg/m³	Annual concentration	California	20	—	—	—	—	—	—
Fine Particulate Matter ($PM_{2.5}$)[a]										
Stockton	µg/m³	Maximum 24-hour concentration	National	35	28.5	47.9	257.5	—	—	—
	µg/m³	Annual concentration	California	12	—	—	—	—	—	—
			National	12.0	11.7	12.2	17.6	—	—	—

Sources: CARB 2020a; EPA 2020a.

Notes: — = not available; µg/m³ = micrograms per cubic meter; ND = insufficient data available to determine the value; ppm = parts per million

Data taken from CARB iADAM (http://www.arb.ca.gov/adam) and EPA AirData (https://www.epa.gov/outdoor-air-quality-data) represent the highest concentrations experienced over a given year.

Exceedances of national and California standards are only shown for O_3 and particulate matter. Daily exceedances for particulate matter are estimated days because PM_{10} and $PM_{2.5}$ are not monitored daily. All other criteria pollutants did not exceed national or California standards during the years shown. There is no national standard for 1-hour O_3, annual PM_{10}, or 24-hour SO_2, nor is there a California 24-hour standard for $PM_{2.5}$.

SO_2 is not currently monitored in the County and data is not available; therefore, it is not included in the table.

Tracy Monitoring Station is located at 5749 South Tracy Boulevard, Tracy, California 95377.

Stockton Monitoring Station is located 1593 East Hazelton Avenue, Stockton, California 95205.

[a] Measurements of PM_{10} and $PM_{2.5}$ are usually collected every 6 days and every 1 to 3 days, respectively. Number of days exceeding the standards is a mathematical estimate of the number of days concentrations would have been greater than the level of the standard had each day been monitored. The numbers in parentheses are the measured number of samples that exceeded the standard.

2.4 Significance Criteria and Methodology

2.4.1 Thresholds of Significance

The significance criteria used to evaluate the project impacts to air quality is based on the recommendations provided in Appendix G of the CEQA Guidelines. For the purposes of this air quality analysis, a significant impact would occur if the project would (14 CCR 15000 et seq.):

1. Conflict with or obstruct implementation of the applicable air quality plan.
2. Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard.
3. Expose sensitive receptors to substantial pollutant concentrations.
4. Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people.

Appendix G of the CEQA Guidelines (14 CCR 15000 et seq.) indicates that, where available, the significance criteria established by the applicable air quality management district or air pollution control district may be relied upon to determine whether the project would have a significant impact on air quality.

SJVAPCD

Criteria Air Pollutants

The SJVAPCD GAMAQI has established emissions-based thresholds of significance for criteria pollutants (SJVAPCD 2015a), which are depicted in Table 4. As shown in Table 4, the SJVAPCD has established significance thresholds for construction emissions and operational permitted and non-permitted equipment and activities, and it recommends evaluating impact significance for these categories separately. These thresholds of significance are based on a calendar-year basis, although construction emissions are assessed on a rolling 12-month period.

Table 4. SJVAPCD CEQA Significance Thresholds for Criteria Pollutants

Pollutant	Construction Emissions (tons per year)	Operational Emissions (tons per year)	
		Permitted Equipment and Activities	*Non-Permitted Equipment and Activities*
ROG	10	10	10
NO_x	10	10	10
CO	100	100	100
SO_x	27	27	27
PM_{10}	15	15	15
$PM_{2.5}$	15	15	15

Source: SJVAPCD 2015a.

In addition to the annual emissions mass thresholds described in Table 4, the SJVAPCD has also established screening criteria to determine whether a project would result in a CO hotspot at affected roadway intersections (SJVAPCD 2015a). If neither of the following criteria is met at any of the intersections affected by the project, the project would result in no potential to create a violation of the CO standard:

- A traffic study for the project indicates that the level of service (LOS) on one or more streets or at one or more intersections in the project site will be reduced to LOS E or F.
- A traffic study indicates that the project will substantially worsen an already existing LOS F on one or more streets or at more or more intersections in the project site.

Ambient Air Quality Impacts

Appendix G of the CEQA Guidelines indicates that a project would have a significant air quality impact if it would violate any air quality standard or contribute substantially to an existing or projected air quality violation. The thresholds of significance for ambient air quality are based on the CAAQS and NAAQS, whereby a project would be considered to have a significant impact if its emissions are predicted to cause or contribute to a violation of an ambient air quality standard by exceeding any CAAQS or NAAQS (SJVAPCD 2015a). The SJVAPCD recommends that an Ambient Air Quality Assessment be performed when on-site emissions of any criteria pollutant would equal or exceed any applicable threshold of significance for criteria pollutants or 100 pounds per day of any criteria pollutant (SJVAPCD 2015a). In the Ambient Air Quality Assessment, air pollutant concentrations are determined through air quality dispersion modeling, added to the corresponding background level, and compared to the relevant CAAQS and/or NAAQS. If the air pollutant concentrations plus background levels, however, would exceed a CAAQS or NAAQS, the SJVAPCD recommends that specified significant impact levels (SILs) be applied to the modeled concentrations to assess whether a project's emissions would contribute substantially to an existing violation of the CAAQS or NAAQS (SJVAPCD 2014b).

Toxic Air Contaminants

The SJVAPCD has established thresholds of significance for combined TAC emissions from the operations of both permitted and non-permitted sources (SJVAPCD 2015a). Projects that have the potential to expose the public to TACs in excess of the following thresholds would be considered to have a significant air quality impact:

- Probability of contracting cancer for the maximally exposed individual equals or exceeds 20 in 1 million people[4]
- Hazard Index[5] for acute and chronic non-carcinogenic TACs equals or exceeds 1 for the maximally exposed individual

[4] The cancer risk threshold was increased from 10 to 20 in 1 million with approval of APR 1906 (Framework for Performing Health Risk Assessments) on June 30, 2015.

[5] Non-cancer adverse health impact, both for acute (short-term) and chronic (long-term) health effects, is measured against a hazard index, which is defined as the ratio of the predicted incremental exposure concentration from the project to a published reference exposure level that could cause adverse health effects as established by the Office of Environmental Health Hazard Assessment (OEHHA). The ratio (referred to as the hazard quotient) of each noncarcinogenic substance that affects a certain organ system is added together to produce an overall hazard index for that organ system.

Odors

As described in the GAMAQI, due to the subjective nature of odor impacts, there are no quantitative thresholds to determine if potential odors would have a significant impact (SJVAPCD 2015a). Projects must be assessed for odor impacts on a case-by-case basis for the following two situations:

- Generators: Projects that would potentially generate odorous emissions proposed to locate near existing sensitive receptors or other land uses where people may congregate
- Receivers: Residential or other sensitive receptor projects or other projects built for the intent of attracting people locating near existing odor sources

The SJVAPCD has identified some common types of facilities that have been known to produce substantial odors, as well as screening distances between these odor sources and receptors. These are depicted in Table 5.

Table 5. Screening Levels for Potential Odor Sources

Type of Facility	Screening Distance (Miles)
Wastewater Treatment Facility	2
Sanitary Landfill	1
Transfer Station	1
Composting Facility	1
Petroleum Facility	2
Asphalt Batch Plant	1
Chemical Manufacturing	1
Fiberglass Manufacturing	1
Painting/Coating (i.e., auto body shop)	1
Food Processing Facility	1
Feed Lot/Dairy	1
Rendering Plant	1

Source: SJVAPCD 2015d.

If the project would result in an odor source and sensitive receptors being located within these screening distances, additional analysis would be required. For projects involving new receptors locating near an existing odor source where there is currently no nearby development and for new odor sources locating near existing receptors, the SJVAPCD recommends the analysis be based on a review of odor complaints for similar facilities, with consideration also given to local meteorological conditions, particularly the intensity and direction of prevailing winds. Regarding the complaint record of the odor source facility (or similar facility), the facility would be considered to result in significant odors if there has been:

- More than one confirmed complaint per year averaged over a 3-year period.
- Three unconfirmed complaints[6] per year averaged over a 3-year period.

[6] An unconfirmed complaint means that either the odor/air contaminant release could not be detected or the source/facility cannot be determined (SJVAPCD 2015a).

Cumulative

A project's emissions may be individually limited but cumulatively considerable when taken in combination with past, present, and future development within the SJVAB. If a project would result in a significant impact based on the SJVAPCD annual thresholds of significance for criteria pollutants, then the project would also be considered cumulatively significant. However, if the project emissions are below the annual significance thresholds for criteria pollutants, the impact may still be cumulatively significant. For instance, if the project results in criteria pollutant concentrations that exceed any of the federal health-based ambient air concentration standards or causes a worsening of areas already exceeding those standards, the project's impacts would be considered individually significant, as well as cumulatively significant. In addition, the combined emissions of the project and cumulative development located within the same area could potentially cause or worsen an exceedance of the concentration standards, whereby the project would have a cumulatively significant impact (SJVAPCD 2015a).

In regard to TACs, since impacts are localized and the SJVAPCD thresholds of significance for TACs have been established at an extremely conservative level, risks that equal or exceed the individual thresholds of significance are also considered cumulatively significant (SJVAPCD 2015a). No other cumulative risk thresholds would apply.

The SJVAPCD has not established cumulative significance thresholds regarding odor impacts.

2.4.2 Approach and Methodology

2.4.2.1 Construction Emissions

Emissions from the construction phase of the project were estimated using CalEEMod Version 2016.3.2. Construction scenario assumptions, including phasing, equipment mix, and vehicle trips, were based on information provided by the project applicant and CalEEMod default values when project specifics were not known.

For purposes of estimating project emissions, and based on information provided by the project applicant, it is assumed that construction of the project would commence in July 2021[7] and would last approximately 10 months, ending in April 2022. The analysis contained herein is based on the following assumptions (duration of phases is approximate):

- Site Preparation: 2 weeks (July 1, 2021 – July 15, 2021)
- Grading: 1 month (July 16, 2021 – August 31, 2021)
- Building Construction: 7 months (September 1, 2021 – March 30, 2022)
- Paving: 1 month (April 1, 2022– April 30, 2022)
- Architectural Coating: 3 months (February 1, 2022 – April 30, 2022)

Grading would include 37.47 acres and balanced cut and fill. The construction equipment mix and vehicle trips used for estimating the project-generated construction emissions are shown in Table 6.

[7] The analysis assumes a construction start date of July 2021, which represents the earliest date construction would initiate. Assuming the earliest start date for construction represents the worst-case scenario for criteria air pollutant and GHG emissions because equipment and vehicle emission factors for later years would be slightly less due to more stringent standards for in-use off-road equipment and heavy-duty trucks, as well as fleet turnover replacing older equipment and vehicles in later years.

Table 6. Construction Scenario Assumptions

Construction Phase	One-Way Vehicle Trips			Equipment		
	Average Daily Worker Trips	*Average Daily Vendor Truck Trips*	*Total Haul Truck Trips*	*Equipment Type*	*Quantity*	*Usage Hours*
Site Preparation	18	6	0	Tractors/Loaders/ Backhoes	4	8
				Rubber Tired Loaders	3	8
Grading	20	6	0	Excavators	2	8
				Graders	1	8
				Rubber Tired Loaders	1	8
				Scrapers	2	8
				Tractors/Loaders/ Backhoes	2	8
Building Construction	100	20	0	Cranes	1	7
				Forklifts	3	8
				Generator Sets	1	8
				Tractors/Loaders/ Backhoes	3	7
				Welders	1	8
Paving	16	4	0	Pavers	2	8
				Paving Equipment	2	8
				Rollers	2	8
Architectural Coating	30	8	0	Air Compressors	1	6

Notes: See Appendix A for details.

The project would implement dust control strategies as a project design feature. To reflect implementation of proposed dust control strategies, the following was assumed in CalEEMod:

- Water exposed area three times per day (61% reduction in PM_{10} and $PM_{2.5}$).
- Limit vehicle travel on unpaved roads to 15 miles per hour.

2.4.2.2 Operational Emissions

Emissions from the operational phase of the project were estimated using CalEEMod Version 2016.3.2. Operational year 2022 was assumed consistent with completion of project construction. Although emission reductions are not quantified, the project would incorporate the PDFs summarized in Section 1.4.

Area Sources

CalEEMod was used to estimate operational emissions from area sources, including emissions from consumer product use, architectural coatings, and landscape maintenance equipment. Emissions associated

with natural gas usage in space heating and water heating are calculated in the building energy use module of CalEEMod, as described in the following text.

Consumer products are chemically formulated products used by household and institutional consumers, including detergents; cleaning compounds; polishes; floor finishes; cosmetics; personal care products; home, lawn, and garden products; disinfectants; sanitizers; aerosol paints; and automotive specialty products. Other paint products, furniture coatings, or architectural coatings are not considered consumer products (CAPCOA 2017). Consumer product ROG emissions are estimated in CalEEMod based on the floor area of nonresidential buildings and on the default factor of pounds of ROG per building square foot per day. For parking lot land uses, CalEEMod estimates ROG emissions associated with use of parking surface degreasers based on a square footage of parking surface area and pounds of ROG per square foot per day.

ROG off-gassing emissions result from evaporation of solvents contained in surface coatings such as in paints and primers using during building maintenance. CalEEMod calculates the ROG evaporative emissions from application of nonresidential surface coatings based on the ROG emission factor, the building square footage, the assumed fraction of surface area, and the reapplication rate. The ROG emission factor is based on the ROG content of the surface coatings, and SJVAPCD's Rule 4601 (Architectural Coatings) governs the ROG (or VOC) content for interior and exterior coatings. The model default reapplication rate of 10% of area per year is assumed. Consistent with CalEEMod defaults, it is assumed that the nonresidential surface area for painting equals 2.0 times the floor square footage, with 75% assumed for interior coating and 25% assumed for exterior surface coating (CAPCOA 2017).

Landscape maintenance includes fuel combustion emissions from equipment such as lawn mowers, rototillers, shredders/grinders, blowers, trimmers, chain saws, and hedge trimmers. The emissions associated from landscape equipment use are estimated based on CalEEMod default values for emission factors (grams per square foot of nonresidential building space per day) and number of summer days (when landscape maintenance would generally be performed) and winter days. For San Joaquin County, the average annual "summer" days are estimated to 365 days; however, it is assumed that landscaping equipment would likely only operate during the week (not weekends), so operational days were assumed to be 250 days per year in CalEEMod (CAPCOA 2017).

Energy Sources

As represented in CalEEMod, energy sources include emissions associated with building electricity and natural gas usage (non-hearth). Electricity use would contribute indirectly to criteria air pollutant emissions; however, the emissions from electricity use are only quantified for GHGs in CalEEMod, since criteria pollutant emissions occur at the site of the power plant, which is typically off site.

CalEEMod default values for energy consumption for each land use were applied for the project analysis. The energy use from nonresidential land uses is calculated in CalEEMod based on the Commercial and Residential Appliance Saturation Study (CAPCOA 2017).

Mobile Sources

Mobile sources for the project would primarily be motor vehicles (automobiles, light-duty trucks, and heavy-duty trucks)[8] traveling to and from the project site. Motor vehicles may be fueled with gasoline, diesel, or alternative fuels.

[8] "Heavy-duty trucks" include medium-heavy-duty trucks (3-axle) and heavy-heavy-duty trucks (4+-axle).

Emissions from the mobile sources during operation of the project were estimated using a spreadsheet-based model and emission factors from the CARB EMFAC2017 and EPA AP-42 factors for paved road dust generation. Vehicle trip lengths were assumed to be 40 miles for truck trips (in accordance with South Coast Air Quality Management District [SCAQMD] guidance) and 14.7 miles for passenger car trips (CalEEMod default) for the project.

Based on the Traffic Impact Analysis prepared for the project by Advanced Mobility Group (AMG 2020) and Section 4.7, Transportation, of the Draft EIR, the project would generate a total of 1,182 daily trips; based on 2016 ITE Warehouse Land Use, 801 trips would be passenger vehicles, light-duty trucks, and motorcycles (68%) and 381 trips would be heavy-duty trucks and medium-heavy-duty trucks (32%). The project mobile trips were conservatively estimated to operate 365 days per year.

Vehicle emissions occur during startup, operation (running), and idling, as well as from evaporative losses when the engines are resting. The emissions factors for trucks and passenger vehicles were determined using EMFAC2017, which generates emissions factors, expressed in grams per mile, grams per trip, and grams per vehicle per day, for the fleet in a class of motor vehicles within a region for a particular study year. For this analysis, San Joaquin County was selected for the region and calendar year 2022 was selected in EMFAC to represent the project's operational start year.

A composite, or weighted-average, emissions factor was developed for project vehicle types if more than one vehicle category in EMFAC is anticipated to be representative of the project vehicle. The composite emission factors are weighted by vehicle-miles traveled, population, or trips depending on the emissions process, which is the physical mechanism that results in the emissions of a pollutant. Delivery trucks were assumed to be heavy-duty trucks and medium-heavy-duty trucks. For the passenger vehicles, the composite emission factor represents the weighted average emission rate for passenger vehicles, light-duty trucks, and motorcycles. Heavy-duty trucks and medium-heavy-duty trucks were assumed to be diesel-fueled, and passenger vehicles, light-duty trucks, and motorcycles were assumed to be a composite mix of gasoline, diesel-fueled, natural gas, and electric consistent with the default EMFAC vehicle mix.

Truck idling would be limited to 5 minutes in accordance with CARB's adopted ATCM; however, for modeling purposes, it was conservatively assumed that the heavy-duty trucks would idle for a total of 15 minutes: entering the site, at the loading dock, and prior to exiting the site.

Off-Road Equipment

Based on the type of project, off-road equipment is anticipated, which is typically associated with warehouse land uses; however, project-specifics are not available at this time. Nonetheless, in a good faith effort to include sources typically associated with warehouse land uses, forklifts, a yard truck, and diesel-fueled fire pump and diesel fuel storage tank are included in the project's emission inventory. Methods and assumptions to estimate these sources of emissions are discussed below. Note that all stationary sources would be required to comply with applicable SJVAPCD rules and regulations and would be required to obtain a permit to operate from the SJVAPCD.

Forklifts

The SCAQMD published a high cube warehouse truck trip study white paper summary of business survey results, which summarizes various operational results from 34 operating high cube warehouses ("SCAQMD Survey") (SCAQMD 2014). The SCAQMD Survey reported an average of 0.12 forklifts/pallet jacks per 1,000 square feet of building area, which was applied to the project. Note that this estimate is for total forklifts and pallet jacks, while pallet jacks are

small as they are primarily used to lift small loads in tight quarters (and are electric or manual); therefore, assuming all pieces of equipment are forklifts is conservative. For the project, a total of 87 forklifts were assumed based on the high cube warehouse factor of 0.12 forklifts/pallet jacks per 1,000 square feet of building area was applied. All indoor forklifts are anticipated to be electric-powered and while the majority of forklifts are anticipated to be used indoors, to conservatively capture the potential for outdoor forklift usage, 75% (65 forklifts) of the forklifts were assumed to be indoor and 25% (22 forklifts) were assumed to be outdoor. The indoor forklifts were modeled as 21-kilowatt electric forklifts that would operate at 8 hours per day, 365 days per year. The outdoor forklifts were modeled as 100-horsepower diesel rough terrain forklifts that would operate at 8 hours per day, 365 days per year. CalEEMod and spreadsheet were used to estimate emissions from forklifts.

Yard Trucks

Industrial warehouse building operation may require cargo handling equipment to move empty containers and empty chassis to and from the various pieces of cargo handling equipment that receive and distribute containers, which is commonly done by yard trucks. Yard trucks, which are also called yard goats, utility tractors, hustlers, yard hostlers, and yard tractors, were reported at the majority of the 34 high cube warehouses in the SCAQMD Survey with an average usage of 3.6 hostlers per million square feet of building area. The 3.6 hostlers per million square feet of building area was applied to the project with the project totaling one yard truck. The yard truck was assumed to be diesel-powered, 200 horsepower, and would operate for four hours per day, 365 days per year. CalEEMod was used to estimate emissions from the yard truck.

Stationary Sources (Fire Pump and Fuel Storage)

The project would operate one 351-horsepower Clarke John Deere JU6H-UFADD0 Tier 3 diesel-fueled fire pump and diesel fuel storage tank. The fuel storage tank would hold a maximum capacity of 133.40 gallons of diesel fuel. While use of the fire pump during an emergency is not included in the emissions inventory as they are speculative, emissions associated with testing and maintenance of the fire pump are included. The fire pump was assumed to be tested for 1 hour per day and 50 hours per year. CalEEMod was used to estimate emissions from the fire pump testing and maintenance. EPA TANKS 4.0.9d was used to estimate emissions from the diesel fuel storage tank.

2.4.2.3 Carbon Monoxide Hotspots

Mobile source impacts occur on two scales of motion, regionally and locally. Regionally, travel related to the project would add to regional trip generation and increase VMT within the local airshed and the SJVAB. Locally, traffic generated by the project would be added to the County's roadway system near the project site. If such traffic occurs during periods of poor atmospheric ventilation, is composed of a large number of vehicles cold-starting and operating at pollution-inefficient speeds, and is operating on roadways already congested with non-project traffic, there would be the potential for the formation of microscale CO hotspots in the area immediately around points of congested traffic.

In addition to the numerous factors that would need to be present for a CO hotspot to occur, the potential for CO hotspots in the SDAB is steadily decreasing because of the continued improvement in vehicular emissions at a rate faster than the rate of vehicle growth and/or congestion, and the already very low ambient CO concentrations. Furthermore, CO transport is extremely limited, and disperses rapidly with distance from the source. Under certain extreme meteorological conditions, however, CO concentrations near a congested roadway or intersection may reach unhealthy levels, affecting sensitive receptors such as residents, children, hospital patients, and older adults. Typically,

high CO concentrations are associated with roadways or intersections operating at an unacceptable LOS. Projects contributing to adverse traffic impacts may result in the formation of CO hotspots.

The 2015 SJVAPCD GAMAQI states that a quantitative CO hotspots analysis be performed if either of the following two conditions exist: a traffic study for the project indicates that the Level of Service (LOS) on one or more streets or at one or more intersections in the project vicinity will be reduced to LOS E or F; or a traffic study indicates that the project will substantially worsen an already existing LOS F on one or more streets or at more or more intersections in the project vicinity.

2.4.2.4 Operational Health Risk Assessment

CARB's *Air Quality and Land Use Handbook: A Community Health Perspective* encourages consideration of the health impacts of distribution centers that accommodates more than 100 trucks per day on sensitive receptors sited within 1,000 feet from the source in the land use decision-making process (CARB 2005). For the operational health risk, the operation year 2022 was assumed consistent with completion of project construction. Emissions from the operation of the project include an on-site yard truck, an on-site diesel-fueled fire pump, an on-site diesel fuel storage tank, on-site and off-site truck trips, and on-site truck idling emissions. For risk assessment purposes, PM_{10} in diesel exhaust is considered DPM, originating mainly from truck traveling on site and off site and truck idling located at the loading docks on site. Truck travel and idling emission rates were obtained from CARB's EMFAC2017. Emission factors representing the vehicle mix and emissions for 2022 were used to estimate emissions associated with operation of the project. Truck idling would be limited to 5 minutes in accordance with CARB's adopted Airborne Toxic Control Measure; however, truck idling was conservatively assumed to idle for 15 minutes.[9] Therefore, the analysis conservatively overestimates DPM emissions from idling. Deliveries were assumed to occur throughout the week (i.e., Monday through Sunday). Similarly, emissions from the yard truck, diesel-fueled fire pump, and benzene, toluene, and xylene breathing and working loss emissions from the diesel fuel storage tank were estimated and included in the HRA.

Conservatively, a 2022 EMFAC2017 run was conducted and a constant 2022 emission factor data set was used for the entire duration of the analysis (i.e., 70 years). Use of the 2022 emission factors would overstate potential impacts since this approach does not include reductions in emissions due to fleet turnover or cleaner technology with lower emissions. The truck travel DPM emissions were calculated by applying the exhaust PM_{10} emission factor from EMFAC2017 and the total truck trip number over the length of the distance traveled. In addition, the on-site truck idling exhaust emissions were calculated by applying the idle exhaust PM_{10} emission factor from EMFAC2017 and total truck trips over the total idling time (i.e., 15 minutes). The diesel-powered, 200 horsepower, yard truck DPM emissions were estimated using CalEEMod. The yard truck was assumed to operate for four hours per day, 365 days per year (1,460 hours per year). The fire pump was assumed to be tested for 1 hour per day and 50 hours per year. CalEEMod was used to estimate emissions from the fire pump testing and maintenance. The diesel fuel storage tank VOC emissions were estimated using TANKS 2.0.9d and TAC emissions were estimated using SJVAPCD's Storage Tank Diesel Fugitives emissions workbook (SJVAPCD 2016c).

Air dispersion modeling was performed using the EPA's American Meteorological Society/Environmental Protection Agency Regulatory Model (AERMOD) Version 19191 modeling system (computer software) with the Lakes

[9] Although the project is required to comply with CARB's idling limit of 5 minutes, on-site idling emissions was estimated for a total of 15 minutes of truck idling (three separate idling events), which would take into account on-site idling at the loading dock and idling during check-in and check-out.

Environmental Software implementation/user interface, AERMOD View Version 9.9.0, as required by the SJVAPCD. The truck traffic was modeled as a line of adjacent volume sources from Interstate (I-) 580 and I-205 to the project site and truck travel on site to estimate emissions at proximate receptors. The yard truck was modeled as adjacent volume sources on site. Truck idling at the loading docks were modeled as a line of adjacent volume sources.

As previously described, health effects from carcinogenic air toxics are usually described in terms of cancer risk. The SJVAPCD recommends a carcinogenic (cancer) risk threshold of 20 in one million. Some TACs increase noncancer health risk due to long-term (chronic) exposures. A hazard index less than one (1) means that adverse health effects are not expected. Within this analysis, noncarcinogenic exposures of less than 1 are considered less than significant. The exhaust from diesel engines is a complex mixture of gases, vapors, and particles, many of which are known human carcinogens. DPM has established cancer risk factors and relative exposure values for long-term chronic health hazard impacts. Acute relative exposure values are established and regulated for benzene, toluene, and xylene breathing and working loss emissions from the diesel fuel storage tank and are included in the HRA.

Dudek evaluated the project's potential cancer and noncancer health impacts using exposure periods appropriate to evaluate long-term emission increases (third trimester of pregnancy to 70 years). Emissions dispersion of TAC emissions were modeled using AERMOD, then cancer risk and noncancer health impacts subsequently using the CARB HARP2 (ADMRT, version 19121). The chemical exposure results were then compared to SJVAPCD thresholds to assess project significance. Principal parameters of this modeling are presented in Table 7.

Table 7. Operational Health Risk Assessment American Meteorological Society/U.S. Environmental Protection Agency Regulatory Model Operational Principal Parameters

Parameter	Details
Meteorological Data	The latest 5-year meteorological data (2004 – 2008) for the City of Tracy station (Station ID 99008) provided by SJVAPCD were downloaded (SJVAPCD 2018), then input to AERMOD. For cancer or chronic noncancer risk assessments, the average cancer risk of all years modeled was used. A wind rose is provided for this station on Figure 3.
Urban versus Rural Option	Rural dispersion option was selected due to the undeveloped nature of the project area.
Terrain Characteristics	Digital elevation model files were imported into AERMOD so that complex terrain features were evaluated as appropriate. The National Elevation Dataset (NED) dataset with resolution of 1/3 arc-second was used (SCAQMD 2018).
Emission Sources and Release Parameters	Air dispersion modeling of operational activities was conducted using mobile source diesel PM_{10} exhaust emissions generated using EMFAC2017. The yard truck and diesel-fueled fire pump diesel PM_{10} exhaust emissions were estimated using the CalEEMod. The diesel fuel storage tank VOC emissions were estimated using TANKS 2.0.9d and toxic air contaminant emissions were estimated using SJVAPCD's Storage Tank Diesel Fugitives emission workbook (SJVAPCD 2016c).
Source Release Characterizations	• Off-site and on-site truck travel were modeled as a line of adjacent volume sources, and based on EPA methodology, the modeled sources would result in a release height of 3.4 meters, a plume height of 6.8 meters, and a plume width of 9.3 meters (SBCAPCD 2020; EPA 2015). • The truck idling emissions at loading docks were modeled as a line of volume sources with a release height of 4 meters, a plume height of 6.8 meters, and plume width of 3.3 meters (EPA 2015; SBCAPCD 2020; SCAQMD 2003). • The yard truck was modeled as a line of volume sources assuming a plume height of 6.8

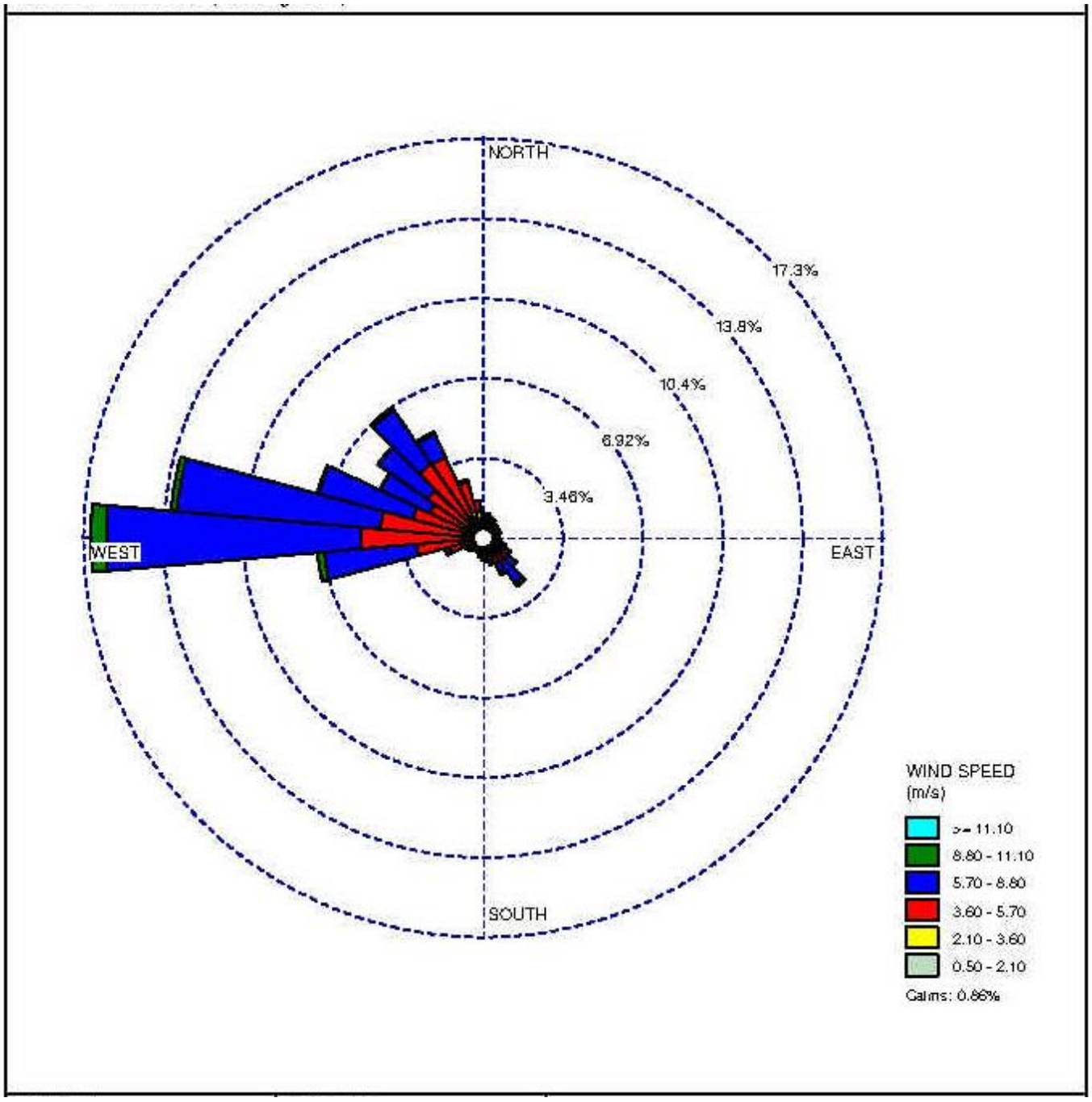
Table 7. Operational Health Risk Assessment American Meteorological Society/U.S. Environmental Protection Agency Regulatory Model Operational Principal Parameters

Parameter	Details
	meters, plume width of 3.3 meters, and release height of 3.4 meters (EPA 2015). • Based on dimension of a diesel-fueled CAT forklift, the forklift was modeled as a line of volume sources assuming a plume height of 4.85 meters, plume width of 2.25 meters, and release height of 2.42 meters (CAT Lift Trucks 2020). • Based on information from the applicant, the project would install a Clarke John Deere JU6H-UFADD0 351-horsepower diesel-fueled fire pump. Thus, the modeling parameters (i.e., exhaust velocity, exhaust temperature) were obtained from the applicant and manufacturer specifications. The fire pump was modeled to have a release height of 1.91 meters, inside stack diameter of 0.15 meters, stack temperature of 816°F, and exhaust flowrate of 0.89 cubic meters per second. • Based on tank dimension information from the applicant and modeling guidance from SJVAPCD, the diesel fuel storage tank working and breathing emissions were modeled as a point source with a release height of 2.00 meters, exhaust velocity of 0.001 meters per second, stack inside diameter of 0.001 meter, and tank exhaust temperature of 0°F (SJVAPCD 2006). • The project buildings and the nearby warehouse were modeled to account for building downwash for point sources.

Note: AERMOD = American Meteorological Society/Environmental Protection Agency Regulatory Model; SJVAPCD = San Joaquin Valley Air Pollution Control District; SCAQMD = South Coast Air Quality Management District; EPA = U.S. Environmental Protection Agency; PM_{10} = particulate matter with an aerodynamic diameter less than or equal to 10 microns.
See Appendix A.

Regarding receptors, the operational scenario used a coarse Cartesian receptor grid with 100-meter spacing out to 1,000 meters and a fine Cartesian receptor grid with 50-meter spacing out to 500 meters from the project site and either side of the line volume source.

Figure 3. Wind Rose of Meteorological Data – City of Tracy (Station ID 99008) (blowing from)



Source: SJVAPCD 2018.

2.5 Impact Analysis

2.5.1 Would the project conflict with or obstruct implementation of the applicable air quality plan?

A project is non-conforming with an air quality plan if it conflicts with or delays implementation of any applicable attainment or maintenance plan. The SJVAPCD has prepared plans to attain federal and state O_3 and particulate matter ambient air quality standards as required under the federal and California Clean Air Acts, as detailed in Section 2.2.3, Local Regulations. The SJVAPCD has established thresholds of significance for criteria pollutant emissions, which are based on SJVAPCD New Source Review offset requirements for stationary sources. Stationary sources in the SJVAPCD jurisdiction are subject to some of the toughest regulatory requirements in the nation. Emission reductions achieved through implementation of SJVAPCD offset requirements are a major component of the SJVAPCD's air quality plans. Thus, projects with emissions below the thresholds of significance for criteria pollutants would be determined to not conflict or obstruct implementation of the SJVAPCD's air quality plan (SJVAPCD 2015a). As discussed in Section 2.5.2, the project would exceed the SJVAPCD threshold for NO_x during operations. Therefore, the project would potentially conflict with or delay the implementation of the SJVAPCD attainment plans and would result in a **potentially significant** impact.

Mitigation Measures

See **MM-AQ-1** through **MM-AQ-3** detailed in Section 2.5.2.

Level of Significance After Mitigation

Implementation of **MM-AQ-1** through **MM-AQ-3** would result in mitigated operational emissions; however, due to the lack of project-specific information, the effectiveness from all measures could not be quantified. Thus, the mitigated NO_x emissions during operation would exceed the SJVAPCD threshold and the project would potentially conflict with or delay the implementation of the SJVAPCD attainment plans and the impact would remain **significant and unavoidable.**

2.5.2 Would the project result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard?

Past, present, and future development projects may contribute to adverse air quality impacts in the SJVAB on a cumulative basis. By its nature, air pollution is largely a cumulative impact. The nonattainment status of regional pollutants is a result of past and present development, and SJVAPCD develops and implements plans for future attainment of ambient air quality standards. Based on these considerations, project-level thresholds of significance for criteria pollutants are used in the determination of whether a project's individual emissions would have a cumulatively considerable contribution on air quality. If a project's emissions would exceed the applied significance thresholds, it would have a cumulatively considerable contribution. Conversely, projects that do not exceed the project-specific thresholds are generally not considered to be cumulatively significant.

Construction and operation of the project would result in emissions of criteria air pollutants, which may result in a cumulatively considerable net increase in emissions of criteria air pollutants for which the SJVAB is designated as nonattainment under the NAAQS or CAAQS. As discussed in Section 2.3.1, the SJVAB has been designated as a nonattainment area for O_3, PM_{10}, and $PM_{2.5}$ under national and/or California standards. The following discussion quantitatively evaluates potential short-term construction and long-term operational impacts that would result from implementation of the project.

Construction Emissions

Construction of the project would result in the temporary addition of pollutants to the local airshed caused by on-site sources (i.e., off-road construction equipment, soil disturbance, and ROG off-gassing) and off-site sources (i.e., vendor trucks and worker vehicle trips). Construction emissions can vary substantially from day to day, depending on the level of activity, the specific type of operation, and, for dust, the prevailing weather conditions. Therefore, such emission levels can only be approximately estimated with a corresponding uncertainty in precise ambient air quality impacts.

As discussed in Section 2.4.2.1, Construction Emissions, criteria air pollutant emissions associated with temporary construction activity were quantified using CalEEMod. Construction emissions were calculated for the estimated worst-case day over the construction period associated with each phase and reported as the maximum daily emissions estimated during each year of construction (2021 through 2022). Construction schedule assumptions, including phase type, duration, and sequencing, were based on information provided by the project applicant and are intended to represent a reasonable scenario based on the best information available. Default values provided in CalEEMod were used where detailed project information was not available.

Implementation of the project would generate air pollutant emissions from entrained dust, off-road equipment, vehicle emissions, architectural coatings, and asphalt pavement application. Entrained dust results from the exposure of earth surfaces to wind from the direct disturbance and movement of soil, resulting in PM_{10} and $PM_{2.5}$ emissions. The project would implement various dust control strategies (**PDF-AQ-1**) and would be required to comply with SJVAPCD Regulation VIII to control dust emissions generated during the grading activities. Proposed construction practices that would be employed to reduce fugitive dust emissions include watering of the active sites and unpaved roads three times per day depending on weather conditions and restricting vehicle speed on unpaved roads to 15 miles per hour. Internal combustion engines used by construction equipment, vendor trucks (i.e., delivery trucks), and worker vehicles would result in emissions of ROGs, NO_x, CO, PM_{10}, and $PM_{2.5}$. The application of architectural coatings, such as exterior application/interior paint and other finishes, and of asphalt pavement would also produce ROG emissions; however, the contractor is required to procure architectural coatings from a supplier in compliance with the requirements of SJVAPCD's Rule 4601 (Architectural Coatings) and limit the amount of ROG emissions from cutback asphalt in compliance with the requirements of SJVAPCD's Rule 4641 (Cutback, Slow Cure, and Emulsified Asphalt, Paving and Maintenance Operations). Pursuant to Regulation VIII, Rule 8021, Section 6.3, the project would be required to develop, prepare, submit, obtain approval of, and implement a dust control plan, which would reduce fugitive dust impacts to less than significant for project construction.

Table 8 presents the estimated annual construction emissions generated during construction of the project. Details of the emission calculations are provided in Appendix A.

Table 8. Estimated Annual Construction Criteria Air Pollutant Emissions - Unmitigated

Year	ROG	NO_x	CO	SO_x	PM_{10}	$PM_{2.5}$
	tons per year					
2021	0.09	1.00	0.64	<0.01	0.14	0.09
2022	2.25	0.17	0.23	<0.01	0.02	0.01
Rolling 12-month Total	**2.34**	**1.17**	**0.87**	**<0.01**	**0.16**	**0.10**
SJVAPCD Threshold	*10*	*10*	*100*	*27*	*15*	*15*
Threshold Exceeded?	**No**	**No**	**No**	**No**	**No**	**No**

Notes: ROG = reactive organic gas; NO_x = oxides of nitrogen; CO = carbon monoxide; SO_x = sulfur oxides; PM_{10} = coarse particulate matter; $PM_{2.5}$ = fine particulate matter; SJVAPCD = San Joaquin Valley Air Pollution Control District; <0.01 = reported value less than 0.01.
See Appendix A for complete results.
These emissions reflect CalEEMod "mitigated" output, which accounts for compliance with SJVAPCD's Rule 4601 (Architectural Coatings) and implementation of the project's fugitive dust control strategies, including watering of the project site and unpaved roads three times per day, and restricting vehicle speed on unpaved roads to 15 miles per hour.

As shown in Table 8, annual construction emissions would not exceed the SJVAPCD significance thresholds for ROG, NO_x, CO, SO_x, PM_{10}, or $PM_{2.5}$ during construction in all construction years; thus, impacts would be **less than significant**.

Operational Emissions

As discussed in Section 1.3, Project Description, the project would include the construction of warehouse and office land uses and associated parking. Operation of the project would generate ROG, NO_x, CO, SO_x, PM_{10}, and $PM_{2.5}$ emissions from mobile sources, including vehicle trips from passenger vehicles and heavy-duty trucks; area sources, including the use of consumer products, architectural coatings for repainting, and landscape maintenance equipment; energy sources, including combustion of fuels used for space and water heating; off-road equipment, including forklifts and a yard truck; and stationary sources, specifically the fire pump testing and maintenance. As discussed in Section 2.4.2.2, Operational Emissions, pollutant emissions associated with long-term operations were quantified using CalEEMod for area, energy, off-road, and stationary sources and primarily based on CalEEMod default values. Project-generated mobile source emissions were estimated in spreadsheet using EMFAC2017 emission factors and based on project-specific trip rates. Fuel storage tank emissions were estimated using the EPA TANKS 4.0.9d.

Table 9 presents the annual area, energy, mobile, off-road, and stationary source emissions associated with operation (year 2022) of the project. Details of the emission calculations are provided in Appendix A.

Table 9. Estimated Annual Operational Criteria Air Pollutant Emissions - Unmitigated

Emission Source	ROG	NO_x	CO	SO_x	PM_{10}	$PM_{2.5}$
	tons per year					
Area	3.12	<0.01	0.01	0.00	<0.01	<0.01
Energy	0.02	0.22	0.19	<0.01	0.02	0.02
Mobile	0.73	20.32	7.88	0.09	11.95	3.10
Stationary	0.01	0.03	0.03	<0.01	<0.01	<0.01
Fuel Storage Tank	<0.01	0.00	0.00	0.00	0.00	0.00
Off-Road	0.48	6.17	9.39	0.01	0.22	0.20

Table 9. Estimated Annual Operational Criteria Air Pollutant Emissions - Unmitigated

Emission Source	ROG	NO_x	CO	SO_x	PM_{10}	$PM_{2.5}$
Total	4.36	26.75	17.50	0.11	12.18	3.32
SJVAPCD Threshold	*10*	*10*	*100*	*27*	*15*	*15*
Threshold Exceeded?	No	Yes	No	No	No	No

Notes: ROG = reactive organic compound; NO_x = oxides of nitrogen; CO = carbon monoxide; SO_x = sulfur oxides; PM_{10} = coarse particulate matter; $PM_{2.5}$ = fine particulate matter; SJVAPCD = San Joaquin Valley Air Pollution Control District; <0.01 = reported value less than 0.01.
See Appendix A for complete results.
Totals may not sum due to rounding.
Stationary source consists of fuel pump testing and maintenance and diesel fuel storage tank.

As shown in Table 9, the combined annual area, energy, and mobile source emissions would not exceed the SJVAPCD's operational thresholds for ROG, CO, SO_x, PM_{10}, and $PM_{2.5}$. However, the project would exceed the SJVAPCD's operational threshold for NO_x and impacts would be **potentially significant**.

Ambient Air Quality Assessment

The SJVAPCD recommends that an Ambient Air Quality Assessment be performed when on-site emissions of any criteria pollutant would equal or exceed any applicable threshold of significance for criteria pollutants or 100 pounds per day of any criteria pollutant (SJVAPCD 2015a). The maximum daily emissions during construction for ROG would occur during the overlap of building construction and architectural coating in 2022. Operational emissions generated on site include area sources, energy sources, and off-road equipment. The majority of the mobile emissions would occur a distance from the project site; therefore, localized impacts from mobile sources were assumed to include traveling 0.45 miles on site and 0.25 miles off site. The results of the screening analysis are presented in Table 10.

Table 10. Estimated Maximum Daily Construction and Operational Criteria Air Pollutant Emissions - Unmitigated

Year	ROG	NO_x	CO	SO_x	PM_{10}	$PM_{2.5}$
	pounds per day					
Construction 2021	4.23	46.82	31.12	0.06	9.10	5.76
Construction 2022	72.15	18.94	19.43	0.03	0.98	0.87
Maximum Daily Construction Emissions	72.15	46.82	31.12	0.06	9.10	5.76
Maximum Daily Operational Emissions	21.43	51.85	68.03	0.12	2.76	1.63
SJVAPCD Threshold	*100*	*100*	*100*	*100*	*100*	*100*
Threshold Exceeded?	No	No	No	No	No	No

Notes: ROG = reactive organic gas; NO_x = oxides of nitrogen; CO = carbon monoxide; SO_x = sulfur oxides; PM_{10} = coarse particulate matter; $PM_{2.5}$ = fine particulate matter; SJVAPCD = San Joaquin Valley Air Pollution Control District; <0.01 = reported value less than 0.01.
See Appendix A for complete results.
The values shown are the maximum summer or winter daily emissions results from CalEEMod. These emissions reflect CalEEMod "mitigated" output, which accounts for compliance with SJVAPCD's Rule 4601 (Architectural Coatings) and implementation of the project's fugitive dust control strategies, including watering of the project site and unpaved roads three times per day, and restricting vehicle speed on unpaved roads to 15 miles per hour. Construction mobile source emissions assumed to travel 0.45 miles on site and 0.25 miles off site. Operational mobile source emissions assumed to travel 0.45 miles on site and 0.25 miles off site.

As indicated in Table 10, the project would not exceed 100 pounds per day on site for ROG, NO_x, CO, SO_x, PM_{10}, or $PM_{2.5}$ during construction or operation; therefore, the project's localized criteria air pollutant impacts would be **less than significant**.

Health Effects

Operation of the project would result in emissions that would exceed the SJVAPCD threshold for NO_x. Project construction and operation would not exceed SJVAPCD thresholds for ROG, CO, SO_x, PM_{10}, or $PM_{2.5}$, and construction would not exceed SJVAPCD threshold for NO_x.

ROGs and NO_x are precursors to O_3, for which the SJVAB is designated as nonattainment with respect to the NAAQS and CAAQS. The health effects associated with O_3 are generally associated with reduced lung function. The contribution of ROGs and NO_x to regional ambient O_3 concentrations is the result of complex photochemistry. The increases in O_3 concentrations in the SJVAB due to O_3 precursor emissions tend to be found downwind from the source location to allow time for the photochemical reactions to occur. However, the potential for exacerbating excessive O_3 concentrations would also depend on the time of year that the ROG emissions would occur because exceedances of the O_3 CAAQS/NAAQS tend to occur between April and October when solar radiation is highest. The holistic effect of a single project's emissions of O_3 precursors is speculative due to the lack of quantitative methods to assess this impact. Since operation of the project would exceed the SJVAPCD threshold for NO_x, implementation of the project could contribute to regional O_3 concentrations and the associated health effects.

Operation of the project would contribute to exceedances of the NAAQS and CAAQS for NO_2. Health effects that result from NO_2 and NO_x include respiratory irritation, which could be experienced by nearby receptors during the periods of heaviest use of off-road construction equipment. However, project construction would be relatively short term, and off-road construction equipment would be operating at various portions of the site and would not be concentrated in one portion of the site at any one time. In addition, existing NO_2 concentrations in the area are well below the NAAQS and CAAQS standards. Due to exceedances in operation-generated emissions of NO_x, the project could result in potential health effects associated with NO_2 and NO_x.

CO tends to be a localized impact associated with congested intersections. The associated potential for CO hotspots was discussed previously and was determined to be a less-than-significant impact. Furthermore, the existing CO concentrations in the area are well below the NAAQS and CAAQS standards. Thus, the project's CO emissions would not contribute to significant health effects associated with this pollutant.

Construction and operation of the project would also not exceed thresholds for PM_{10} or $PM_{2.5}$ and would not contribute to exceedances of the NAAQS and CAAQS for particulate matter or obstruct the SJVAB from coming into attainment for these pollutants. The project would also not result in substantial DPM emissions during construction and operation, and therefore, would not result in significant health effects related to DPM exposure. Additionally, the project would implement dust control strategies and be required to comply with SJVAPCD Regulation VIII, which limits the amount of fugitive dust generated during construction. Pursuant to Regulation VIII, Rule 8021, Section 6.3, the project would be required to develop, prepare, submit, obtain approval of, and implement a dust control plan, which would reduce fugitive dust impacts. Due to the minimal contribution of particulate matter during construction and operation, the project is not anticipated to result in health effects associated with PM_{10} or $PM_{2.5}$.

In summary, because operation of the project could result in exceedances of the SJVAPCD significance thresholds for NO_x during operation, the potential health effects associated with criteria air pollutants, specifically O_3, are considered **potentially significant**. Notably, there are numerous scientific and technological complexities associated with correlating criteria air pollutant emissions from an individual project to specific health effects or potential additional nonattainment days, and there are currently no modeling tools that could provide reliable and meaningful additional information regarding health effects from criteria air pollutants generated by individual projects.

Mitigation Measures

MM-AQ-1: **Vehicle Miles Traveled Reduction Strategies.** The project shall implement a Transportation Demand Management (TDM) Program to facilitate increased opportunities for bicycling and pedestrian travel, as well as provide the resources, means, and incentives for ride-sharing and carpooling to reduce vehicle miles traveled and associated criteria air pollutant emissions. The following components are to be included in the TDM Program:

Bicycle and Pedestrian Travel

a) Provide bicycle parking facilities: one bike rack space per 20 vehicle/employee parking spaces or to meet demand, whichever results in the greater number of bicycle racks.
b) Provide shower and locker facilities to encourage employees to bike and/or walk to work: one shower and three lockers per every 25 employees.

Ride-Sharing and Commute Reduction

a) Promote ridesharing programs through a multifaceted approach, such as designating a certain percentage of parking spaces for ridesharing vehicles, designating adequate passenger loading and unloading and waiting areas for ridesharing vehicles, or providing a website or message board for coordinating rides.
b) Implement marketing strategies to reduce commute trips. Information sharing and marketing are important components to successful commute trip-reduction strategies. Implementing commute trip-reduction strategies without a complementary marketing strategy would result in lower vehicle miles traveled reductions. Marketing strategies may include new employee orientation of trip reduction and alternative mode options, event promotions, or publications.

MM-AQ-2 **Idling Restriction.** The project shall minimize idling time of all vehicles and equipment to the extent feasible; idling for periods of greater than 5 minutes shall be prohibited. Signage shall be posted at truck parking spots, entrances, and truck bays advising that idling time shall not exceed 5 minutes per idling location. To the extent feasible, the tenant shall restrict idling emission from trucks by using auxiliary power units and electrification.

MM-AQ-3 **Forklifts and Yard Trucks.** During operation, the project shall require that all forklifts are powered by electricity or other zero-emission technology; if electric is not available or feasible, propane is acceptable. All yard trucks shall meet Tier 4 Interim standards or better or utilize zero-emission technology (electric, fuel-cell, etc.).

Level of Significance After Mitigation

Implementation of **MM-AQ-1** through **MM-AQ-3** would result in mitigated operational emissions. It should be noted that due to the lack of project-specific information, the effectiveness from measures **MM-AQ-1** and **MM-AQ-2** could not be quantified. The mitigated operational emissions are summarized in Table 11. Details of the emission calculations are provided in Appendix A.

Table 11. Estimated Annual Operational Criteria Air Pollutant Emissions - Mitigated

Emission Source	ROG	NO_x	CO	SO_x	PM_{10}	$PM_{2.5}$
	tons per year					
Area	3.12	<0.01	0.01	0.00	<0.01	<0.01
Energy	0.02	0.22	0.19	<0.01	0.02	0.02
Mobile	0.73	20.32	7.88	0.09	11.95	3.10
Stationary	0.01	0.03	0.03	<0.01	<0.01	<0.01
Fuel Storage Tank	<0.01	0.00	0.00	0.00	0.00	0.00
Off-road	0.01	0.16	0.32	<0.01	<0.01	<0.01
Total	**3.89**	**20.73**	**8.43**	**0.09**	**11.97**	**3.12**
SJVAPCD Threshold	*10*	*10*	*100*	*27*	*15*	*15*
Threshold Exceeded?	**No**	**Yes**	**No**	**No**	**No**	**No**

Notes: ROG = reactive organic compound; NO_x = oxides of nitrogen; CO = carbon monoxide; SO_x = sulfur oxides; PM_{10} = coarse particulate matter; $PM_{2.5}$ = fine particulate matter; SJVAPCD = San Joaquin Valley Air Pollution Control District; PDF = project design feature; <0.01 = reported value less than 0.01.
These emissions reflect CalEEMod "mitigated" output, which accounts for implementation of **MM-AQ-3**, implementation of Tier 4 interim yard truck and electric forklifts.
See Appendix A for complete results.
Totals may not sum due to rounding.

As shown in Table 11, operation-generated NO_x emissions would exceed the SJVAPCD threshold of significance. Thus, operation-generated impacts after mitigation would be **significant and unavoidable** with implementation of **MM-AQ-1** through **MM-AQ-3**.

2.5.3 Would the project expose sensitive receptors to substantial pollutant concentrations?

Health Impacts of Carbon Monoxide

As described previously, exposure to high concentrations of CO can result in dizziness, fatigue, chest pain, headaches, and impairment of central nervous system functions. Mobile-source impacts, including those related to CO, occur essentially on two scales of motion. Regionally, project-related operational travel would add to regional trip generation and increase the VMT within the local airshed and the SJVAB. Locally, project operational traffic would be added to the roadway system in the vicinity of the project site. Although the SJVAB is currently an attainment area for CO, there is a potential for the formation of microscale CO "hotspots" to occur immediately around points of congested traffic. Hotspots can form if such traffic occurs during periods of poor atmospheric ventilation, is composed of a large number of vehicles cold-started and operating at pollution-inefficient speeds, and/or is operating on roadways crowded with non-project traffic. Because of continued improvement in vehicular

emissions at a rate faster than the rate of vehicle growth and/or congestion, the potential for CO hotspots in the SJVAB is steadily decreasing.

The 2015 SJVAPCD GAMAQI states that a quantitative CO hotspots analysis should be performed if either of the following two conditions exist: a traffic study for the project indicates that the LOS on one or more streets or at one or more intersections in the project vicinity will be reduced to LOS E or F, or a traffic study indicates that the project will substantially worsen an already existing LOS F on one or more streets or at more or more intersections in the project vicinity.

The Traffic Impact Analysis prepared for the project (AMG 2020) evaluated whether there would be a worsening in the LOS (e.g., congestion) at the intersections affected by the project. The project's traffic analysis evaluated six intersections based on existing traffic volumes and current street geometry. The results of the LOS assessment show that under Cumulative Plus Project conditions, four of the six study intersections are forecast to operate at unacceptable LOS (LOS E or worse) during the peak hours with a volume over 3,000 trips. As shown in Appendix D, the four key study intersections according to the criteria above are (1) Hansen Road and Schulte Road (LOS F in PM peak hour), (2) Valpico Road and Lammers Road (LOS F/F in AM/PM peak hour), (3) Valpico Road and Corral Hallow Road (LOS F in PM peak hour), and (4) Lammers Road and 11th Street (LOS F/F in AM/PM peak hours). The remaining key intersections are projected to operate at acceptable LOS conditions in the Cumulative Plus Project scenario.

The screening evaluation presents LOS and whether a quantitative CO hotspots analysis may be required. According to the California Department of Transportation (Caltrans) CO Protocol, there is a cap on the number of intersections that need to be analyzed for any one project. For a single project with multiple intersections, only the three intersections representing the worst LOS ratings of the project and, to the extent they are different intersections, the three intersections representing the highest traffic volumes, need be analyzed. For each intersection failing a screening test as described in this protocol, an additional intersection should be analyzed (Caltrans 2010).

Based on the CO hotspot screening evaluation (Appendix D), intersections at Hansen Road and Schulte Road, Valpico Road and Corral Hallow Road, and Lammers Road and 11th Street all have 16 links and have signalized control. The potential impact of the project on local CO levels was assessed at these three intersections with the Caltrans CL4 interface based on the California LINE Source Dispersion Model, which allows microscale CO concentrations to be estimated along each roadway corridor or near intersections (Caltrans 1998a).

The emissions factor represents the weighted average emissions rate of the local San Joaquin County vehicle fleet expressed in grams per mile per vehicle. Consistent with the traffic scenario, emissions factors for 2022 were used. Emissions factors were predicted by EMFAC2017 based on a 5 mph average speed for all of the intersections for approach and departure segments. The hourly traffic volume anticipated to travel on each link, in units of vehicles per hour, was based on information provided by the Traffic Impact Analysis, and modeling assumptions are outlined in Appendix D.

Four receptor locations were modeled at each intersection to determine CO ambient concentrations. A receptor was assumed on the sidewalk at each corner of the modeled intersections, to represent the future possibility of extended outdoor exposure. CO concentrations were modeled at these locations to assess the maximum potential CO exposure that could occur in 2022. A receptor height of 5.9 feet (1.8 meters) was used in accordance with Caltrans recommendations for all receptor locations (Caltrans 1998b).

The CO Protocol recommends using the highest 1-hour measurement in the last 3 years as the projected future 1-hour CO background concentration for the analysis (Caltrans 2010). A CO concentration of 3.0 ppm by volume was recorded in 2018 for the Stockton monitoring station in San Joaquin County and was assumed in the California LINE Source Dispersion Model for 2022 (EPA 2020a). To estimate an 8-hour average CO concentration, a persistence factor of 0.69, as calculated based on the CO Protocol (Caltrans 2010), was applied to the output values of predicted concentrations in ppm at each of the receptor locations. Model input and output data are available in Appendix D. Table 12 summarizes the maximum 1-hour and 8-hour CO concentrations at the studied intersections.

Table 12. CALINE4 Predicted Carbon Monoxide Concentrations

Intersection	Maximum Modeled Impact for Year 2022 Cumulative Plus Project (ppm)	
	1-hour	*8-hour*[a]
Hansen Road and Schulte Road	3.3	2.78
Valpico Road and Corral Hallow Road	3.4	2.87
Lammers Road and 11th Street	3.7	3.12

Source: Caltrans 1998a (CALINE4).
Notes: ppm = parts per million.
See Appendix D.
[a] 8-hour concentrations were obtained by multiplying the 1-hour concentration by a persistence factor of 0.69 (Caltrans 2010).

As shown in Table 12, the maximum CO concentration predicted for the 1-hour averaging period at the studied intersections would be 3.7 ppm, which is below the 1-hour CO CAAQS of 20 ppm (CARB 2014a). The maximum predicted 8-hour CO concentration of 3.12 ppm at the studied intersections would be below the 8-hour CO CAAQS of 9.0 ppm (CARB 2018). Neither the 1-hour nor 8-hour CAAQS would be equaled or exceeded at any of the intersections studied. Accordingly, the proposed project would not cause or contribute to violations of the CAAQS and would not result in exposure of sensitive receptors to localized high concentrations of CO. CO tends to be a localized impact associated with congested intersections. Thus, the project's CO emissions would not contribute to significant health effects associated with this pollutant. As such, impacts to sensitive receptors with regard to potential CO hotspots resulting from the project's contribution to cumulative traffic-related air quality impacts would be **less than significant**.

Health Impacts of Toxic Air Contaminants

As discussed in Section 2.1.2.2, a substance is considered toxic if it has the potential to cause adverse health effects in humans, including increasing the risk of cancer upon exposure or acute (immediate) and/or chronic (cumulative) non-cancer health effects. Potential construction-related health risk is qualitatively evaluated and operational health risk is quantitatively evaluated for the project, below.

Construction Health Risk

Project construction would result in emissions of diesel particulate from heavy construction equipment and trucks accessing the site. DPM is characterized as a TAC by the State of California. The Office of Environmental Health Hazard Assessment has identified carcinogenic and chronic noncarcinogenic effects from long-term exposure, but has not identified health effects due to short-term exposure to diesel exhaust. According to the Office of Environmental Health Hazard Assessment, health risk assessments, which determine the exposure of sensitive receptors to toxic emissions, should be based on a 70-year exposure period for the maximally exposed individual

resident; however, such assessments should be limited to the period/duration of activities associated with the project. Thus, the duration of the proposed construction activities would only constitute a small percentage of the total 70-year exposure period. Due to this relatively short period of exposure (10 months) and minimal particulate emissions on site, TACs generated by the project would not result in concentrations causing significant health risks. In addition, diesel equipment would also be subject to CARB's Airborne Toxic Control Measures for in-use off-road diesel fleets, which would minimize DPM emissions. Furthermore, the nearest sensitive receptor is located over 1,500 feet from the project site. Overall, based on the above considerations, the project would not result in substantial TAC exposure to sensitive receptors in the vicinity of the project, and impacts would be **less than significant**.

Operational Health Risk

As discussed in Section 2.4.2.3, an HRA was performed to estimate the Maximum Individual Cancer Risk, Chronic Hazard Index, and Acute Hazard Index for residential receptors as a result of emissions from the project's diesel yard truck and diesel forklifts; diesel-fueled fire pump; benzene, toluene, and xylene working and breathing loss emissions from the diesel fuel storage tank; truck trips; and truck idling emissions. Results of the HRA during operation are presented in Table 13.

Table 13. Operational Health Risk Assessment Results – Unmitigated

Impact Parameter	Units	Impact Level	CEQA Threshold
Maximum Individual Cancer Risk	Per Million	37.75	20
Chronic Hazard Index	Index Value	0.009	1.0
Acute Hazard Index	Index Value	0.0004	1.0

Source: SJVAPCD 2015a.
Notes: CEQA = California Environmental Quality Act.
See Appendix B.

The results of the operational analysis demonstrate that the project would be below the chronic and acute hazard index thresholds of 1.0. However, the project would exceed the maximum individual cancer risk of 20 in a million for the residential receptor. Thus, the impact would be **potentially significant**

Valley Fever

As discussed in Section 2.1.2.2, the average incidence rate of Valley Fever within the County is below the statewide average. Furthermore, construction of the project would comply with SJVAPCD Regulation VIII (Fugitive PM_{10} Prohibition), which requires fugitive dust sources to implement best available control measures for all sources and prohibits all forms of visible particulate matter from crossing any property line. SJVAPCD Regulation VIII is intended to reduce PM_{10} emissions from any transportation, handling, construction, or storage activity that has the potential to generate fugitive dust. In addition, the project would implement various dust control strategies and provide Valley Fever awareness and training to all project construction employees as included in **PDF-AQ-1** and **PDF-AQ-2**. The nearest sensitive-receptor land use (existing residence) is located over 1,500 feet from the project site. Because the project would implement dust control strategies and valley fever awareness and training, and due to the distance from the nearest sensitive receptors, it is not anticipated that earth-moving activities during project construction would result in exposure of nearby sensitive receptors to valley fever. Pursuant to Regulation VIII, Rule 8021, Section 6.3, the project would be required to develop, prepare, submit, obtain approval of, and implement a dust control plan, which would control the release of the *Coccidioides immitis*

fungus during construction activities. Therefore, the project would have a **less-than-significant** impact with respect to valley fever exposure for sensitive receptors.

Mitigation Measures

See **MM-AQ-3** detailed in Section 2.5.2.

Level of Significance After Mitigation

As discussed in Section 2.4.2.3, an HRA was performed to estimate the Maximum Individual Cancer Risk, Chronic Hazard Index, and Acute Hazard Index for residential receptors as a result of emissions from the project during operation on sensitive receptors proximate of the project. Results of the operational HRA including **MM-AQ-3** are presented in Table 14.

Table 14. Operational Health Risk Assessment Results – Mitigated

Impact Parameter	Units	Impact Level	CEQA Threshold
Maximum Individual Cancer Risk	Per Million	4.10	20
Chronic Hazard Index	Index Value	0.0010	1.0
Acute Hazard Index	Index Value	0.0004	1.0

Source: SJVAPCD 2015a.
Notes: CEQA = California Environmental Quality Act.
See Appendix B.
These emissions reflect CalEEMod "mitigated" output, which accounts for implementation of **MM-AQ-3**, implementation of Tier 4 interim yard truck and electric forklifts.

As shown in Table 14, the TAC emissions from operation of the project would result in a Maximum Individual Cancer Risk, Chronic Hazard Index, and Acute Hazard Index less than the applicable SJVAPCD significance thresholds, resulting in a **less-than-significant impact with mitigation**.

2.5.4 Would the project result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?

The analysis of the project's potential to result in other emissions is focused on potential odor impacts. The occurrence and severity of potential odor impacts depend on numerous factors. The nature, frequency, and intensity of the source; the wind speeds and direction; and the sensitivity of receiving location each contribute to the intensity of the impact. Although offensive odors seldom cause physical harm, they can be annoying and cause distress among the public and generate citizen complaints.

Odors would be potentially generated from vehicles and equipment exhaust emissions during construction of the project. Potential odors produced during construction would be attributable to concentrations of unburned hydrocarbons from tailpipes of construction equipment, architectural coatings, and asphalt pavement application. Such odors would disperse rapidly from the project site and generally occur at magnitudes that would not affect substantial numbers of people. Furthermore, SJVAPCD Rule 4641 limits the amount of VOC emissions from cutback asphalt. Thus, any potential odors generated during asphalt paving would be regulated through mandatory compliance with SJVAPCD rules. Therefore, impacts associated with odors during construction would be less than significant.

Land uses and industrial operations that are associated with odor complaints include agricultural uses, wastewater treatment plants, food processing plants, chemical plants, composting, refineries, landfills, dairies, and fiberglass molding. The project would not include land uses that generate odors as discussed above during operation. Therefore, project operations would result in an odor impact that is **less than significant.**

Mitigation Measures

No mitigation is required.

Level of Significance After Mitigation

Impacts would be less than significant without mitigation.

3 Greenhouse Gas Emissions

3.1 Environmental Setting

3.1.1 Climate Change Overview

Climate change refers to any significant change in measures of climate, such as temperature, precipitation, or wind patterns, lasting for an extended period of time (i.e., decades or longer). The Earth's temperature depends on the balance between energy entering and leaving the planet's system. Many factors, both natural and human, can cause changes in Earth's energy balance, including variations in the sun's energy reaching Earth, changes in the reflectivity of Earth's atmosphere and surface, and changes in the greenhouse effect, which affects the amount of heat retained by Earth's atmosphere (EPA 2017a).

The greenhouse effect is the trapping and build-up of heat in the atmosphere (troposphere) near the Earth's surface. The greenhouse effect traps heat in the troposphere through a threefold process as follows: Short-wave radiation emitted by the Sun is absorbed by the Earth, the Earth emits a portion of this energy in the form of long-wave radiation, and GHGs in the upper atmosphere absorb this long-wave radiation and emit it into space and toward the Earth. The greenhouse effect is a natural process that contributes to regulating the Earth's temperature and creates a pleasant, livable environment on the Earth. Human activities that emit additional GHGs to the atmosphere increase the amount of infrared radiation that gets absorbed before escaping into space, thus enhancing the greenhouse effect and causing the Earth's surface temperature to rise.

The scientific record of the Earth's climate shows that the climate system varies naturally over a wide range of time scales and that, in general, climate changes prior to the Industrial Revolution in the 1700s can be explained by natural causes such as changes in solar energy, volcanic eruptions, and natural changes in GHG concentrations. Recent climate changes, in particular the warming observed over the past century, however, cannot be explained by natural causes alone. Rather, it is extremely likely that human activities have been the dominant cause of that warming since the mid-twentieth century and is the most significant driver of observed climate change (IPCC 2013; EPA 2017a). Human influence on the climate system is evident from the increasing GHG concentrations in the atmosphere, positive radiative forcing, observed warming, and improved understanding of the climate system (IPCC 2013). The atmospheric concentrations of GHGs have increased to levels unprecedented in the last 800,000 years, primarily from fossil fuel emissions and secondarily from emissions associated with land use changes (IPCC 2013). Continued emissions of GHGs will cause further warming and changes in all components of the climate system, which is discussed further in Section 3.3.2, Potential Effects of Climate Change.

3.1.2 Greenhouse Gases

A GHG is any gas that absorbs infrared radiation in the atmosphere; in other words, GHGs trap heat in the atmosphere. As defined in California Health and Safety Code, Section 38505(g), for purposes of administering many of the state's primary GHG emissions reduction programs, GHGs include carbon dioxide (CO_2), methane (CH_4), nitrous oxide (N_2O), hydrofluorocarbons (HFCs), perfluorocarbons (PFCs), sulfur hexafluoride (SF_6), and nitrogen trifluoride (NF_3). (See also CEQA Guidelines, Section 15364.5.) Some GHGs, such as CO_2, CH_4, and N_2O, occur naturally and are emitted into the atmosphere through natural processes and human activities. Of these gases, CO_2

and CH_4 are emitted in the greatest quantities from human activities. Manufactured GHGs, which have a much greater heat-absorption potential than CO_2, include fluorinated gases, such as HFCs, PFCs, and SF_6, which are associated with certain industrial products and processes. The following paragraphs provide a summary of the most common GHGs and their sources.[10]

Carbon Dioxide. CO_2 is a naturally occurring gas and a by-product of human activities and is the principal anthropogenic GHG that affects the Earth's radiative balance. Natural sources of CO_2 include respiration of bacteria, plants, animals, and fungus; evaporation from oceans; volcanic out-gassing; and decomposition of dead organic matter. Human activities that generate CO_2 are from the combustion of fuels such as coal, oil, natural gas, and wood and changes in land use.

Methane. CH_4 is produced through both natural and human activities. CH_4 is a flammable gas and is the main component of natural gas. Methane is produced through anaerobic (without oxygen) decomposition of waste in landfills, flooded rice fields, animal digestion, decomposition of animal wastes, production and distribution of natural gas and petroleum, coal production, and incomplete fossil fuel combustion.

Nitrous Oxide. N_2O is produced through natural and human activities, mainly through agricultural activities and natural biological processes, although fuel burning and other processes also create N_2O. Sources of N_2O include soil cultivation practices (microbial processes in soil and water), especially the use of commercial and organic fertilizers, manure management, industrial processes (such as in nitric acid production, nylon production, and fossil-fuel-fired power plants), vehicle emissions, and using N_2O as a propellant (e.g., rockets, racecars, and aerosol sprays).

Fluorinated Gases. Fluorinated gases (also referred to as F-gases) are synthetic powerful GHGs emitted from many industrial processes. Fluorinated gases are commonly used as substitutes for stratospheric ozone-depleting substances (e.g., CFCs, HCFCs, and halons). The most prevalent fluorinated gases include the following:

- **Hydrofluorocarbons:** HFCs are compounds containing only hydrogen, fluorine, and carbon atoms. HFCs are synthetic chemicals used as alternatives to ozone-depleting substances in serving many industrial, commercial, and personal needs. HFCs are emitted as by-products of industrial processes and are used in manufacturing.
- **Perfluorocarbons:** PFCs are a group of human-made chemicals composed of carbon and fluorine only. These chemicals were introduced as alternatives, with HFCs, to the ozone depleting substances. The two main sources of PFCs are primary aluminum production and semiconductor manufacturing. Since PFCs have stable molecular structures and do not break down through the chemical processes in the lower atmosphere, these chemicals have long lifetimes, ranging between 10,000 and 50,000 years.
- **Sulfur Hexafluoride:** SF_6 is a colorless gas soluble in alcohol and ether and slightly soluble in water. SF_6 is used for insulation in electric power transmission and distribution equipment, semiconductor manufacturing, the magnesium industry, and as a tracer gas for leak detection.
- **Nitrogen Trifluoride:** NF_3 is used in the manufacture of a variety of electronics, including semiconductors and flat panel displays.

[10] The descriptions of GHGs are summarized from the Intergovernmental Panel on Climate Change (IPCC) Second Assessment Report (1995), IPCC Fourth Assessment Report (2007), CARB's "Glossary of Air Pollution Terms" (2016a), and EPA's "Glossary of Climate Change Terms" (2016e).

Chlorofluorocarbons. CFCs are synthetic chemicals that have been used as cleaning solvents, refrigerants, and aerosol propellants. CFCs are chemically unreactive in the lower atmosphere (troposphere) and the production of CFCs was prohibited in 1987 due to the chemical destruction of stratospheric O_3.

Hydrochlorofluorocarbons. HCFCs are a large group of compounds, whose structure is very close to that of CFCs—containing hydrogen, fluorine, chlorine, and carbon atoms—but including one or more hydrogen atoms. Like HFCs, HCFCs are used in refrigerants and propellants. HCFCs were also used in place of CFCs for some applications; however, their use in general is being phased out.

Black Carbon. Black carbon is a component of fine particulate matter, which has been identified as a leading environmental risk factor for premature death. It is produced from the incomplete combustion of fossil fuels and biomass burning, particularly from older diesel engines and forest fires. Black carbon warms the atmosphere by absorbing solar radiation, influences cloud formation, and darkens the surface of snow and ice, which accelerates heat absorption and melting. Black carbon is a short-lived species that varies spatially, which makes it difficult to quantify the global warming potential. DPM emissions are a major source of black carbon and are TACs that have been regulated and controlled in California for several decades to protect public health. In relation to declining DPM from the California Air Resources Board's (CARB's) regulations pertaining to diesel engines, diesel fuels, and burning activities, CARB estimates that annual black carbon emissions in California have reduced by 70% between 1990 and 2010, with 95% control expected by 2020 (CARB 2014).

Water Vapor. The primary source of water vapor is evaporation from the ocean, with additional vapor generated by sublimation (change from solid to gas) from ice and snow, evaporation from other water bodies, and transpiration from plant leaves. Water vapor is the most important, abundant, and variable GHG in the atmosphere and maintains a climate necessary for life.

Ozone. Tropospheric O_3, which is created by photochemical reactions involving gases from both natural sources and human activities, acts as a GHG. Stratospheric O_3, which is created by the interaction between solar ultraviolet radiation and molecular oxygen (O_2), plays a decisive role in the stratospheric radiative balance. Depletion of stratospheric O_3, due to chemical reactions that may be enhanced by climate change, results in an increased ground-level flux of ultraviolet-B radiation.

Aerosols. Aerosols are suspensions of particulate matter in a gas emitted into the air through burning biomass (plant material) and fossil fuels. Aerosols can warm the atmosphere by absorbing and emitting heat and can cool the atmosphere by reflecting light.

3.1.3 Global Warming Potential

Gases in the atmosphere can contribute to climate change both directly and indirectly. Direct effects occur when the gas itself absorbs radiation. Indirect radiative forcing occurs when chemical transformations of the substance produce other GHGs, when a gas influences the atmospheric lifetimes of other gases, and/or when a gas affects atmospheric processes that alter the radiative balance of the Earth (e.g., affect cloud formation or albedo) (EPA 2016d). The Intergovernmental Panel on Climate Change (IPCC) developed the global warming potential (GWP) concept to compare the ability of each GHG to trap heat in the atmosphere relative to another gas. The GWP of a GHG is defined as the ratio of the time-integrated radiative forcing from the instantaneous release of 1 kilogram of a trace substance relative to that of 1 kilogram of a reference gas (IPCC 2014). The reference gas used is CO_2; therefore, GWP-weighted emissions are measured in metric tons of CO_2 equivalent (MT CO_2e).

The current version of CalEEMod (version 2016.3.2) assumes that the GWP for CH_4 is 25 (so emissions of 1 MT of CH_4 are equivalent to emissions of 25 MT of CO_2), and the GWP for N_2O is 298, based on the IPCC Fourth Assessment Report (IPCC 2007). The GWP values identified in CalEEMod were applied to the project.

3.2 Regulatory Setting

3.2.1 Federal Regulations

Massachusetts v. EPA. In *Massachusetts v. EPA* (April 2007), the U.S. Supreme Court directed the EPA administrator to determine whether GHG emissions from new motor vehicles cause or contribute to air pollution that may reasonably be anticipated to endanger public health or welfare, or whether the science is too uncertain to make a reasoned decision. In December 2009, the administrator signed a final rule with the following two distinct findings regarding GHGs under Section 202(a) of the federal Clean Air Act:

- The Administrator found that elevated concentrations of GHGs—CO_2, CH_4, N_2O, HFCs, PFCs, and SF_6—in the atmosphere threaten the public health and welfare of current and future generations. This is the "endangerment finding."
- The Administrator further found the combined emissions of GHGs—CO_2, CH_4, N_2O, and HFCs—from new motor vehicles and new motor vehicle engines contribute to the GHG air pollution that endangers public health and welfare. This is the "cause or contribute finding."

These two findings were necessary to establish the foundation for regulation of GHGs from new motor vehicles as air pollutants under the Clean Air Act.

Energy Independence and Security Act of 2007. The Energy Independence and Security Act of 2007 (December 2007), among other key measures, would do the following, which would aid in the reduction of national GHG emissions (EPA 2007):

- Increase the supply of alternative fuel sources by setting a mandatory Renewable Fuel Standard requiring fuel producers to use at least 36 billion gallons of biofuel in 2022.
- Set a target of 35 miles per gallon for the combined fleet of cars and light trucks by model year 2020, and directs National Highway Traffic Safety Administration (NHTSA) to establish a fuel economy program for medium- and heavy-duty trucks and create a separate fuel economy standard for work trucks.
- Prescribe or revise standards affecting regional efficiency for heating and cooling products and procedures for new or amended standards, energy conservation, energy-efficiency labeling for consumer electronic products, residential boiler efficiency, electric motor efficiency, and home appliances.

Federal Vehicle Standards. In response to the U.S. Supreme Court ruling previously discussed, the Bush Administration issued Executive Order (EO) 13432 in 2007 directing the EPA, the Department of Transportation, and the Department of Energy to establish regulations that reduce GHG emissions from motor vehicles, non-road vehicles, and non-road engines by 2008. In 2009, the NHTSA issued a final rule regulating fuel efficiency and GHG emissions from cars and light-duty trucks for model year 2011, and in 2010, the EPA and NHTSA issued a final rule regulating cars and light-duty trucks for model years 2012–2016 (75 FR 25324–25728).

In 2010, President Barack Obama issued a memorandum directing the Department of Transportation, Department of Energy, EPA, and NHTSA to establish additional standards regarding fuel efficiency and GHG reduction, clean fuels, and advanced vehicle infrastructure. In response to this directive, EPA and NHTSA proposed stringent, coordinated federal GHG and fuel economy standards for model years 2017–2025 light-duty vehicles. The proposed standards projected to achieve 163 grams per mile of CO_2 in model year 2025, on an average industry fleet-wide basis, which is equivalent to 54.5 miles per gallon if this level were achieved solely through fuel efficiency. The final rule was adopted in 2012 for model years 2017–2021 (77 FR 62624–63200). On January 12, 2017, the EPA finalized its decision to maintain the current greenhouse (GHG) emissions standards for model years 2022–2025 cars and light trucks (EPA 2017b).

In addition to the regulations applicable to cars and light-duty trucks described above, in 2011, the EPA and NHTSA announced fuel economy and GHG standards for medium- and heavy-duty trucks for model years 2014–2018 (76 FR 57106–57513). The standards for CO_2 emissions and fuel consumption are tailored to three main vehicle categories: combination tractors, heavy-duty pickup trucks and vans, and vocational vehicles. According to the EPA, this regulatory program will reduce GHG emissions and fuel consumption for the affected vehicles by 6%–23% over the 2010 baselines.

In August 2016, the EPA and NHTSA announced the adoption of the phase two program related to the fuel economy and GHG standards for medium- and heavy-duty trucks. The phase two program will apply to vehicles with model year 2018 through 2027 for certain trailers, and model years 2021 through 2027 for semi-trucks, large pickup trucks, vans, and all types and sizes of buses and work trucks. The final standards are expected to lower CO_2 emissions by approximately 1.1 billion MT and reduce oil consumption by up to 2 billion barrels over the lifetime of the vehicles sold under the program (EPA and NHTSA 2016).

In August 2018, EPA and NHTSA proposed to amend certain fuel economy and GHG standards for passenger cars and light trucks and establish new standards for model years 2021 through 2026. Compared to maintaining the post-2020 standards now in place, the 2018 proposal would increase U.S. fuel consumption by about half a million barrels per day (2%–3% of total daily consumption, according to the Energy Information Administration) and would impact the global climate by 3/1000th of 1°C by 2100 (EPA and NHTSA 2018). California and other states have stated their intent to challenge federal actions that would delay or eliminate GHG reduction measures and have committed to cooperating with other countries to implement global climate change initiatives. Thus, the timing and consequences of the 2018 federal proposal are speculative at this time.

On September 27, 2019, EPA and NHTSA published the "Safer Affordable Fuel-Efficient (SAFE) Vehicles Rule Part One: One National Program." (84 Fed. Reg. 51,310), which became effective November 26, 2019. The Part One Rule revokes California's authority to set its own GHG emissions standards and set zero-emission vehicle mandates in California. On March 31, 2020, the EPA and NHTSA issued Part Two of the SAFE Rule, which will go into effect 60 days after being published in the Federal Register. The Part Two Rule sets CO_2 emissions standards and corporate average fuel economy standards for passenger vehicles and light duty trucks for model years 2021 through 2026. This issue is evolving as California and 22 other states, as well as the District of Columbia and four cities, filed suit against the EPA and a petition for reconsideration of the rule on November 26, 2019. The timeline for the litigation to be resolved is unknown at time of report preparation.

Clean Power Plan and New Source Performance Standards for Electric Generating Units. On October 23, 2015, EPA published a final rule (effective December 22, 2015) establishing the Carbon Pollution Emission Guidelines for Existing Stationary Sources: Electric Utility Generating Units (80 FR 64510–64660), also known as the Clean Power Plan. These guidelines prescribe how states must develop plans to reduce GHG emissions from existing

fossil-fuel-fired electric generating units. The guidelines establish CO_2 emission performance rates representing the best system of emission reduction for two subcategories of existing fossil-fuel-fired electric generating units: (1) fossil-fuel-fired electric utility steam-generating units, and (2) stationary combustion turbines. Concurrently, the EPA published a final rule (effective October 23, 2015) establishing Standards of Performance for Greenhouse Gas Emissions from New, Modified, and Reconstructed Stationary Sources: Electric Utility Generating Units (80 FR 64661–65120). The rule prescribes CO_2 emission standards for newly constructed, modified, and reconstructed affected fossil-fuel-fired electric utility generating units. The U.S. Supreme Court stayed implementation of the Clean Power Plan pending resolution of several lawsuits.

3.2.2 State Regulations

The statewide GHG emissions regulatory framework is summarized below by category: state climate change targets, building energy, renewable energy and energy procurement, mobile sources, solid waste, water, and other state regulations and goals. The following text describes EOs, legislation, regulations, and other plans and policies that would directly or indirectly reduce GHG emissions and/or address climate change issues.

State Climate Change Targets

The state has taken a number of actions to address climate change. These include EOs, legislation, and CARB plans and requirements. These are summarized below.

EO S-3-05. EO S-3-05 (June 2005) established California's GHG emissions reduction targets and laid out responsibilities among the state agencies for implementing the EO and for reporting on progress toward the targets. This EO established the following targets:

- By 2010, reduce GHG emissions to 2000 levels
- By 2020, reduce GHG emissions to 1990 levels
- By 2050, reduce GHG emissions to 80% below 1990 levels

EO S-3-05 also directed the California Environmental Protection Agency to report biannually on progress made toward meeting the GHG targets and the impacts to California due to global warming, including impacts to water supply, public health, agriculture, the coastline, and forestry. The Climate Action Team (CAT) was formed, which subsequently issued reports from 2006 to 2010 (CAT 2016).

AB 32. In furtherance of the goals established in EO S-3-05, the Legislature enacted AB 32 (Núñez and Pavley). The bill is referred to as the California Global Warming Solutions Act of 2006 (September 27, 2006). AB 32 provided initial direction on creating a comprehensive multiyear program to limit California's GHG emissions at 1990 levels by 2020 and initiate the transformations required to achieve the state's long-range climate objectives.

SB 32 and AB 197. SB 32 and AB 197 (enacted in 2016) are companion bills. SB 32 codified the 2030 emissions reduction goal of EO B-30-15 by requiring CARB to ensure that statewide GHG emissions are reduced to 40% below 1990 levels by 2030. AB 197 established the Joint Legislative Committee on Climate Change Policies, consisting of at least three members of the Senate and three members of the Assembly, in order to provide ongoing oversight over implementation of the state's climate policies. AB 197 also added two members of the Legislature to the Board as nonvoting members; requires CARB to make available and update

(at least annually via its website) emissions data for GHGs, criteria air pollutants, and TACs from reporting facilities; and, requires CARB to identify specific information for GHG emissions reduction measures when updating the scoping plan.

CARB's 2007 Statewide Limit. In 2007, in accordance with California Health and Safety Code, Section 38550, CARB approved a statewide limit on the GHG emissions level for year 2020 consistent with the determined 1990 baseline (427 million metric tons (MMT) CO_2e).

CARB's Climate Change Scoping Plan. One specific requirement of AB 32 is for CARB to prepare a "scoping plan" for achieving the maximum technologically feasible and cost-effective GHG emission reductions by 2020 (Health and Safety Code, Section 38561(a)), and to update the plan at least once every 5 years. In 2008, CARB approved the first scoping plan. The *Climate Change Scoping Plan: A Framework for Change* (*Scoping Plan*) included a mix of recommended strategies that combined direct regulations, market-based approaches, voluntary measures, policies, and other emission reduction programs calculated to meet the 2020 statewide GHG emission limit and initiate the transformations needed to achieve the state's long-range climate objectives. The key elements of the Scoping Plan include the following (CARB 2008):

1. Expanding and strengthening existing energy efficiency programs as well as building and appliance standards
2. Achieving a statewide renewable energy mix of 33%
3. Developing a California cap-and-trade program that links with other Western Climate Initiative partner programs to create a regional market system and caps sources contributing 85% of California's GHG emissions
4. Establishing targets for transportation-related GHG emissions for regions throughout California, and pursuing policies and incentives to achieve those targets
5. Adopting and implementing measures pursuant to existing state laws and policies, including California's clean car standards, goods movement measures, and the Low Carbon Fuel Standard (LCFS 17 CCR, Section 95480 et seq.)
6. Creating targeted fees, including a public goods charge on water use, fees on high GWP gases, and a fee to fund the administrative costs of the State of California's long-term commitment to AB 32 implementation

The Scoping Plan also identified local governments as essential partners in achieving California's goals to reduce GHG emissions because they have broad influence and, in some cases, exclusive authority over activities that contribute to significant direct and indirect GHG emissions through their planning and permitting processes, local ordinances, outreach and education efforts, and municipal operations. Specifically, the Scoping Plan encouraged local governments to adopt a reduction goal for municipal operations and for community emissions to reduce GHGs by approximately 15% from then levels (2008) by 2020. Many local governments developed community-scale local GHG reduction plans based on this Scoping Plan recommendation.

In 2014, CARB approved the first update to the Scoping Plan. The *First Update to the Climate Change Scoping Plan: Building on the Framework* (*First Update)* defined the state's GHG emission reduction priorities for the next 5 years and laid the groundwork to start the transition to the post-2020 goals set forth in EOs S-3-05 and B-16-2012. The *First Update* concluded that California is on track to meet the 2020 target but recommended a 2030 mid-term GHG reduction target be established to ensure a continuum of action to reduce emissions. The *First Update* recommended a mix of technologies in key economic sectors to reduce emissions through 2050 including: energy demand reduction through efficiency and activity changes; large-scale electrification of on-road

vehicles, buildings and industrial machinery; decarbonizing electricity and fuel supplies; and, the rapid market penetration of efficient and clean energy technologies. As part of the *First Update*, CARB recalculated the state's 1990 emissions level, using more recent global warming potentials identified by the Intergovernmental Panel on Climate Change, from 427 MMT CO_2e to 431 MMT CO_2e.

In 2015, as directed by EO B-30-15, CARB began working on an update to the Scoping Plan to incorporate the 2030 target of 40% below 1990 levels by 2030 to keep California on its trajectory toward meeting or exceeding the long-term goal of reducing GHG emissions to 80% below 1990 levels by 2050 as set forth in S-3-05. The Governor called on California to pursue a new and ambitious set of strategies, in line with the five climate change pillars from his inaugural address, to reduce GHG emissions and prepare for the unavoidable impacts of climate change. In the summer of 2016, the Legislature affirmed the importance of addressing climate change through passage of Senate Bill (SB) 32 (Pavley, Chapter 249, Statutes of 2016).

In December 2017, CARB's Governing Board adopted the *2017 Climate Change Scoping Plan Update (2030 Scoping Plan)* (CARB 2017b). The 2030 Scoping Plan builds on the successful framework established in the initial Scoping Plan and First Update, while identifying new, technologically feasible and cost-effective strategies that will serve as the framework to achieve the 2030 GHG target and define the state's climate change priorities to 2030 and beyond. The strategies' "known commitments" include implementing renewable energy and energy efficiency (including the mandates of SB 350), increased stringency of the Low Carbon Fuel Standard, measures identified in the Mobile Source and Freight Strategies, measures identified in the proposed Short-Lived Climate Pollutant Plan, and increased stringency of SB 375 targets. To fill the gap in additional reductions needed to achieve the 2030 target, it recommends continuing the Cap-and-Trade Program and a measure to reduce GHGs from refineries by 20%.

For local governments, the 2030 Scoping Plan replaced the initial Scoping Plan's 15% reduction goal with a recommendation to aim for a community-wide goal of no more than 6 MT CO_2e per capita by 2030 and no more than 2 MT CO_2e per capita by 2050, which are consistent with the state's long-term goals. These goals are also consistent with the Under 2 MOU and the Paris Agreement, which are developed around the scientifically based levels necessary to limit global warming below 2°C. The 2030 Scoping Plan recognized the benefits of local government GHG planning (e.g., through climate action plans [CAPs]) and provide more information regarding tools CARB is working on to support those efforts. It also recognizes the CEQA streamlining provisions for project level review where there is a legally adequate CAP.

The Scoping Plan recommends strategies for implementation at the statewide level to meet the goals of AB 32, SB 32, and the EOs and establishes an overall framework for the measures that will be adopted to reduce California's GHG emissions. A project is considered consistent with the statutes and EOs if it meets the general policies in reducing GHG emissions to facilitate the achievement of the state's goals and does not impede attainment of those goals. As discussed in several cases, a given project need not be in perfect conformity with each and every planning policy or goals to be consistent. A project would be consistent if it will further the objectives and not obstruct their attainment.

CARB's Regulations for the Mandatory Reporting of Greenhouse Gas Emissions. CARB's Regulation for the Mandatory Reporting of Greenhouse Gas Emissions (17 CCR 95100–95157) incorporated by reference certain requirements that EPA promulgated in its Final Rule on Mandatory Reporting of Greenhouse Gases (Title 40, CFR, Part 98). Specifically, Section 95100(c) of the Mandatory Reporting Regulation incorporated those requirements that EPA promulgated in the Federal Register on October 30, 2009; July 12, 2010; September 22, 2010; October

28, 2010; November 30, 2010; December 17, 2010; and April 25, 2011. In general, entities subject to the Mandatory Reporting Regulation that emit over 10,000 MT CO_2e per year are required to report annual GHGs through the California Electronic GHG Reporting Tool. Certain sectors, such as refineries and cement plants, are required to report regardless of emission levels. Entities that emit more than the 25,000 MT CO_2e per year threshold are required to have their GHG emission report verified by a CARB-accredited third-party verified.

EO B-18-12. EO B-18-12 (April 2012) directed state agencies, departments, and other entities under the governor's executive authority to take action to reduce entity-wide GHG emissions by at least 10% by 2015 and 20% by 2020, as measured against a 2010 baseline. EO B-18-12 also established goals for existing state buildings for reducing grid-based energy purchases and water use.

EO B-30-15. EO B-30-15 (April 2015) identified an interim GHG reduction target in support of targets previously identified under S-3-05 and AB 32. EO B-30-15 set an interim target goal of reducing GHG emissions to 40% below 1990 levels by 2030 to keep California on its trajectory toward meeting or exceeding the long-term goal of reducing GHG emissions to 80% below 1990 levels by 2050 as set forth in S-3-05. To facilitate achieving this goal, EO B-30-15 called for CARB to update the Scoping Plan to express the 2030 target in terms of MMT CO_2e. The EO also called for state agencies to continue to develop and implement GHG emission reduction programs in support of the reduction targets.

SB 605 and SB 1383. SB 605 (2014) requires CARB to complete a comprehensive strategy to reduce emissions of short-lived climate pollutants (SLCPs) in the state; and SB 1383 (2016) requires CARB to approve and implement that strategy by January 1, 2018. SB 1383 also establishes specific targets for the reduction of SLCPs (40% below 2013 levels by 2030 for methane and HFCs, and 50% below 2013 levels by 2030 for anthropogenic black carbon), and provides direction for reductions from dairy and livestock operations and landfills. Accordingly, and as mentioned above, CARB adopted its *Short-Lived Climate Pollutant Reduction Strategy* (*SLCP Reduction Strategy*) in March 2017. The *SLCP Reduction Strategy* establishes a framework for the statewide reduction of emissions of black carbon, methane, and fluorinated gases.

Building Energy

Title 24, Part 6. Title 24 of the California Code of Regulations was established in 1978 and serves to enhance and regulate California's building standards. While not initially promulgated to reduce GHG emissions, Part 6 of Title 24 specifically established Building Energy Efficiency Standards that are designed to ensure new and existing buildings in California achieve energy efficiency and preserve outdoor and indoor environmental quality. These energy efficiency standards are reviewed every few years by the Building Standards Commission and the California Energy Commission (CEC) (and revised if necessary) (California Public Resources Code, Section 25402(b)(1)). The regulations receive input from members of industry, as well as the public, with the goal of "reducing of wasteful, uneconomic, inefficient, or unnecessary consumption of energy" (California Public Resources Code, Section 25402). These regulations are carefully scrutinized and analyzed for technological and economic feasibility (California Public Resources Code, Section 25402(d)) and cost effectiveness (California Public Resources Code, Sections 25402(b)(2) and (b)(3)). As a result, these standards save energy, increase electricity supply reliability, increase indoor comfort, avoid the need to construct new power plants, and help preserve the environment.

The 2019 Title 24 standards are the currently applicable building energy efficiency standards, and became effective on January 1, 2020. The 2019 Title 24 Building Energy Efficiency Standards will further reduce energy used and associated GHG emissions compared to prior standards. In general, single-family residences built to the

2019 standards are anticipated to use approximately 7% less energy due to energy efficiency measures than those built to the 2016 standards; once rooftop solar electricity generation is factored in, single-family residences built under the 2019 standards will use approximately 53% less energy than those under the 2016 standards (CEC 2018a). Nonresidential buildings built to the 2019 standards are anticipated to use an estimated 30% less energy than those built to the 2016 standards (CEC 2018).

Title 24, Part 11. In addition to the CEC's efforts, in 2008, the California Building Standards Commission adopted the nation's first green building standards. The California Green Building Standards Code (Part 11 of Title 24) is commonly referred to as California's Green Building Standards (CALGreen), and establishes minimum mandatory standards as well as voluntary standards pertaining to the planning and design of sustainable site development, energy efficiency (in excess of the California Energy Code requirements), water conservation, material conservation, and interior air quality. The CALGreen standards took effect in January 2011 and instituted mandatory minimum environmental performance standards for all ground-up, new construction of commercial, low-rise residential and state-owned buildings and schools and hospitals. The CALGreen 2019 standards, which are the current standards, became effective January 1, 2020. For nonresidential projects, some of the key mandatory CALGreen 2019 standards include the following (24 CCR Part 11):

- Long-term bicycle parking. For new buildings with tenant spaces that have 10 or more tenant-occupants, provide secure bicycle parking for 5% of the tenant-occupant vehicular parking spaces with a minimum of one bicycle parking facility (5.106.4.1.2).
- Designated parking for clean air vehicles. In new projects or additions to alterations that add 10 or more vehicular parking spaces, provide designated parking for any combination of low-emitting, fuel-efficient and carpool/van pool vehicles as shown in Table 5.106.5.2 of the CALGreen Code (5.106.5.2).
- Electric vehicle (EV) charging stations. Construction shall comply with Section 5.106.5.3.1 (single charging space requirements) or Section 106.5.3.2 (multiple charging space requirements) to facilitate future installation of electric vehicle supply equipment (EVSE). The compliance requires empty raceways for future conduit and documentation that the electrical system has adequate capacity for the future load. Table 5.106.5.3.3 of the CALGreen Code shall be used to determine if single or multiple charging space requirements apply for the future installation of EVSE (5.106.5.3).[11]
- Shade trees. Shade trees shall be planted to comply with Sections 5.106.12.1 (surface parking areas), 5.106.12.2 (landscape areas), and 5.106.12.3 (hardscape areas). Percentages shown shall be measured at noon on the summer solstice. Landscape irrigation necessary to establish and maintain tree health shall comply with Section 5.304.6. (5.106.12).
- Water conserving plumbing fixtures and fittings. Plumbing fixtures (water closets and urinals) and fittings (faucets and showerheads) shall comply with the following:
    - Water Closets. The effective flush volume of all water closets shall not exceed 1.28 gallons per flush (5.303.3.1)

[11] Table 5.106.5.3.3 of the CALGreen code establishes a range of EV charging space requirements based on the total number of parking places of a project. At the minimum, no EV charging spaces are required if the project has a total of 0 to 9 parking spaces. At the maximum, 6% of the total parking spaces are required to be EV charging spaces for projects with a total number of actual parking spaces of 201 and over.

  - Urinals. The effective flush volume of wall-mounted urinals shall not exceed 0.125 gallons per flush (5.303.3.2.1). The effective flush volume of floor-mounted or other urinals shall not exceed 0.5 gallons per flush (5.303.3.2.2).
  - Showerheads. Single showerheads shall have a minimum flow rate of not more than 1.8 gallons per minute and 80 psi (5.303.3.3.1). When a shower is served by more than one showerhead, the combined flow rate of all showerheads and/or other shower outlets controlled by a single valve shall not exceed 1.8 gallons per minute at 80 psi (5.303.3.3.2).
  - Faucets and fountains. Nonresidential lavatory faucets shall have a maximum flow rate of not more than 0.5 gallons per minute at 60 psi (5.303.3.4.1). Kitchen faucets shall have a maximum flow rate of not more than 1.8 gallons per minute of 60 psi (5.303.3.4.2). Wash fountains shall have a maximum flow rate of not more than 1.8 gallons per minute/20 [rim space (inches) at 60 psi] (5.303.3.4.3). Metering faucets shall not deliver more than 0.20 gallons per cycle (5.303.3.4.4). Metering faucets for wash fountains shall have a maximum flow rate not more than 0.20 gallons per cycle/20 [rim space (inches) at 60 psi] (5.303.3.4.5).
- Outdoor potable water use in landscaped areas. Nonresidential developments shall comply with a local water efficient landscape ordinance or the current California Department of Water Resources' Model Water Efficient Landscape Ordinance (MWELO), whichever is more stringent (5.304.1).
- Recycled water supply systems. Recycled water supply systems shall be installed in accordance with Sections 5.305.1.1 (outdoor recycled water supply systems), 5.305.1.2 (technical requirements for outdoor recycled water supply systems), and the California Plumbing Code (5.305.1).
- Construction waste management. Recycle and/or salvage for reuse a minimum of 65% of the nonhazardous construction and demolition waste in accordance with Section 5.408.1.1 (construction waste management plan). 5.405.1.2 (waste management company), or 5.408.1.3 (waste stream reduction alternative); or meet a local construction and demolition waste management ordinance, whichever is more stringent (5.408.1).
- Outdoor Air Quality. Installations of HVAC, refrigeration, and fire suppression equipment shall comply with Section 5.508.1.1 (no CFCs) and Section 5.508.1.2 (no halons).

The CALGreen standards also include voluntary efficiency measures that are implemented at the discretion of local agencies and applicants. The California Public Utilities Commission, CEC, and CARB also have a shared, established goal of achieving zero net energy (ZNE) performance for new construction in California. The key policy timelines include: (1) all new residential construction in California will be ZNE by 2020, and (2) all new commercial construction in California will be ZNE by 2030.[12]

Title 20. Title 20 of the California Code of Regulations requires manufacturers of appliances to meet state and federal standards for energy and water efficiency. The CEC certifies an appliance based on a manufacturer's demonstration that the appliance meets the standards. New appliances regulated under Title 20 include refrigerators, refrigerator-freezers, and freezers; room air conditioners and room air-conditioning heat pumps; central air conditioners; spot air conditioners; vented gas space heaters; gas pool heaters; plumbing fittings and plumbing fixtures; fluorescent lamp ballasts; lamps; emergency lighting; traffic signal modules; dishwashers; clothes washers and dryers; cooking products; electric motors; low-voltage dry-type distribution transformers;

[12] For example, per CPUC, California's Zero Net Energy Policies and Initiatives, it is expected that achievement of the zero net energy goal will occur via revisions to the Title 24 standards (CPUC 2013).

power supplies; televisions and consumer audio and video equipment; and battery charger systems. Title 20 presents protocols for testing each type of appliance covered under the regulations and appliances must meet the standards for energy performance, energy design, water performance and water design. Title 20 contains three types of standards for appliances: federal and state standards for federally regulated appliances, state standards for federally regulated appliances, and state standards for non-federally regulated appliances.

Senate Bill 1. SB 1 (Murray) (August 2006) established a $3 billion rebate program to support the goal of the state to install rooftop solar energy systems with a generation capacity of 3,000 megawatts through 2016. SB 1 added sections to the Public Resources Code, including Chapter 8.8 (California Solar Initiative), that require building projects applying for ratepayer-funded incentives for photovoltaic systems to meet minimum energy efficiency levels and performance requirements. Section 25780 established that it is a goal of the state to establish a self-sufficient solar industry. The goals included establishing solar energy systems as a viable mainstream option for both homes and businesses within 10 years of adoption, and placing solar energy systems on 50% of new homes within 13 years of adoption. SB 1, also termed "Go Solar California," was previously titled "Million Solar Roofs."

California AB 1470 (Solar Water Heating). This bill established the Solar Water Heating and Efficiency Act of 2007. The bill makes findings and declarations of the Legislature relating to the promotion of solar water heating systems and other technologies that reduce natural gas demand. The bill defines several terms for purposes of the act. The bill requires the commission to evaluate the data available from a specified pilot program, and, if it makes a specified determination, to design and implement a program of incentives for the installation of 200,000 solar water heating systems in homes and businesses throughout the state by 2017.

Renewable Energy and Energy Procurement

SB 1078. SB 1078 (Sher) (September 2002) established the Renewable Portfolio Standard (RPS) program, which required an annual increase in renewable generation by the utilities equivalent to at least 1% of sales, with an aggregate goal of 20% by 2017. This goal was subsequently accelerated, requiring utilities to obtain 20% of their power from renewable sources by 2010 (see SB 107, EO S-14-08, and S-21-09).

SB 1368. SB 1368 (September 2006), required the CEC to develop and adopt regulations for GHG emission performance standards for the long-term procurement of electricity by local publicly owned utilities. These standards must be consistent with the standards adopted by the California Public Utilities Commission (CPUC).

AB 1109. Enacted in 2007, AB 1109 required the CEC to adopt minimum energy efficiency standards for general-purpose lighting, to reduce electricity consumption 50% for indoor residential lighting and 25% for indoor commercial lighting.

EO S-14-08. EO S-14-08 (November 2008) focused on the contribution of renewable energy sources to meet the electrical needs of California while reducing the GHG emissions from the electrical sector. This EO required that all retail suppliers of electricity in California serve 33% of their load with renewable energy by 2020. Furthermore, the EO directed state agencies to take appropriate actions to facilitate reaching this target. The California Natural Resources Agency (CNRA), through collaboration with the CEC and California Department of Fish and Wildlife (formerly the California Department of Fish and Game), was directed to lead this effort.

EO S-21-09 and SBX1-2. EO S-21-09 (September 2009) directed CARB to adopt a regulation consistent with the goal of EO S-14-08 by July 31, 2010. CARB was further directed to work with the CPUC and CEC to ensure that the regulation builds upon the RPS program and was applicable to investor-owned utilities, publicly owned utilities, direct access providers, and community choice providers. Under this order, CARB was to give the highest priority to those renewable resources that provide the greatest environmental benefits with the least environmental costs and impacts on public health and can be developed the most quickly in support of reliable, efficient, cost-effective electricity system operations. On September 23, 2010, CARB initially approved regulations to implement a Renewable Electricity Standard. However, this regulation was not finalized because of subsequent legislation (SB X1-2, Simitian, statutes of 2011) signed by Governor Brown in April 2011.

SB X1 2 expanded the Renewables Portfolio Standard by establishing a renewable energy target of 20% of the total electricity sold to retail customers in California per year by December 31, 2013, and 33% by December 31, 2020, and in subsequent years. Under the bill, a renewable electrical generation facility is one that uses biomass, solar thermal, photovoltaic, wind, geothermal, fuel cells using renewable fuels, small hydroelectric generation (30 megawatts or less), digester gas, municipal solid waste conversion, landfill gas, ocean wave, ocean thermal, or tidal current, and that meets other specified requirements with respect to its location.

SB X1-2 applies to all electricity retailers in the state including publicly owned utilities, investor-owned utilities, electricity service providers, and community choice aggregators. All of these entities must meet the renewable energy goals previously listed.

SB 350. SB 350 (October 2015) further expanded the RPS by establishing a goal of 50% of the total electricity sold to retail customers in California per year by December 31, 2030. In addition, SB 350 included the goal to double the energy efficiency savings in electricity and natural gas final end uses (e.g., heating, cooling, lighting, or class of energy uses on which an energy-efficiency program is focused) of retail customers through energy conservation and efficiency. The bill also requires the CPUC, in consultation with the CEC, to establish efficiency targets for electrical and gas corporations consistent with this goal.

SB 100. SB 100 (2018) increased the standards set forth in SB 350 establishing that 44% of the total electricity sold to retail customers in California per year by December 31, 2024, 52% by December 31, 2027, and 60% by December 31, 2030, be secured from qualifying renewable energy sources. SB 100 states that it is the policy of the state that eligible renewable energy resources and zero-carbon resources supply 100% of the retail sales of electricity to California. This bill requires that the achievement of 100% zero-carbon electricity resources do not increase the carbon emissions elsewhere in the western grid and that the achievement not be achieved through resource shuffling.

Mobile Sources

AB 1493. AB 1493 (Pavley) (July 2002) was enacted in a response to the transportation sector accounting for more than half of California's CO_2 emissions. AB 1493 required CARB to set GHG emission standards for passenger vehicles, light-duty trucks, and other vehicles determined by the state board to be vehicles that are primarily used for noncommercial personal transportation in the state. The bill required that CARB set GHG emission standards for motor vehicles manufactured in 2009 and all subsequent model years. CARB adopted the standards in September 2004. When fully phased in, the near-term (2009–2012) standards will result in a reduction of about 22% in GHG emissions compared to the emissions from the 2002 fleet, while the mid-term (2013–2016) standards will result in a reduction of about 30%.

Heavy Duty Diesel. CARB adopted the final Heavy Duty Truck and Bus Regulation, Title 13, Division 3, Chapter 1, Section 2025, on December 31, 2014, to reduce PM and NO_x emissions from heavy-duty diesel vehicles. The rule requires PM filters be applied to newer heavier trucks and buses by January 1, 2012, with older vehicles required to comply by January 1, 2015. The rule will require nearly all diesel trucks and buses to be compliant with the 2010 model year engine requirement by January 1, 2023. CARB also adopted an Airborne Toxic Control Measure to limit idling of diesel-fueled commercial vehicles on December 12, 2013. This rule requires diesel-fueled vehicles with gross vehicle weights greater than 10,000 pounds to idle no more than 5 minutes at any location (13 CCR 2485).

EO S-1-07. EO S-1-07 (January 2007, implementing regulation adopted in April 2009) sets a declining LCFS for GHG emissions measured in CO_2e grams per unit of fuel energy sold in California. The target of the LCFS is to reduce the carbon intensity of California passenger vehicle fuels by at least 10% by 2020 (17 CCR 95480 et seq.). The carbon intensity measures the amount of GHG emissions in the lifecycle of a fuel, including extraction/feedstock production, processing, transportation, and final consumption, per unit of energy delivered.

SB 375. SB 375 (Steinberg) (September 2008) addresses GHG emissions associated with the transportation sector through regional transportation and sustainability plans. SB 375 requires CARB to adopt regional GHG reduction targets for the automobile and light-truck sector for 2020 and 2035 and to update those targets every 8 years. SB 375 requires the state's 18 regional metropolitan planning organizations (MPOs) to prepare a Sustainable Communities Strategy (SCS) as part of their Regional Transportation Plan (RTP) that will achieve the GHG reduction targets set by CARB. If a MPO is unable to devise an SCS to achieve the GHG reduction target, the MPO must prepare an Alternative Planning Strategy demonstrating how the GHG reduction target would be achieved through alternative development patterns, infrastructure, or additional transportation measures or policies.

Pursuant to Government Code, Section 65080(b)(2)(K), a SCS does not: (i) regulate the use of land; (ii) supersede the land use authority of cities and counties; or (iii) require that a city's or county's land use policies and regulations, including those in a general plan, be consistent with it. Nonetheless, SB 375 makes regional and local planning agencies responsible for developing those strategies as part of the federally required metropolitan transportation planning process and the state-mandated housing element process.

In September 2010, CARB adopted the first SB 375 targets for the regional metropolitan planning organizations. The targets for the San Joaquin Council of Governments (SJCOG) are an 5% reduction in emissions per capita by 2020 and a 10% reduction by 2035 below a 2005 baseline. Achieving these goals through adoption of a SCS is the responsibility of the metropolitan planning organizations. SJCOG Board adopted its first RTP/SCS on June 26, 2014. The plan quantified a 24.4% reduction by 2020 and a 23.7% reduction by 2035 below a 2005 baseline (SJCOG 2014). On June 28, 2018, the SJCOG Board adopted the 2018 RTP/SCS, which builds upon the progress made in the 2014 RTP/SCS (SJCOG 2018).

Advanced Clean Cars Program and Zero-Emissions Vehicle Program. The Advanced Clean Cars program (January 2012) is a new emissions-control program for model years 2015 through 2025. The program combines the control of smog- and soot-causing pollutants and GHG emissions into a single coordinated package. The package includes elements to reduce smog-forming pollution, reduce GHG emissions, promote clean cars, and provide the fuels for clean cars (CARB 2012). To improve air quality, CARB has implemented new emission standards to reduce smog-forming emissions beginning with 2015 model year vehicles. It is estimated that in 2025 cars will emit 75% less smog-forming pollution than the average new car sold today. To reduce GHG emissions, CARB, in

conjunction with the EPA and the NHTSA, adopted new GHG standards for model year 2017 to 2025 vehicles; the new standards are estimated to reduce GHG emissions by 34% in 2025. The ZEV program will act as the focused technology of the Advanced Clean Cars program by requiring manufacturers to produce increasing numbers of ZEVs and plug-in hybrid electric vehicles in the 2018 to 2025 model years.

EO B-16-12. EO B-16-12 (March 2012) required that state entities under the governor's direction and control support and facilitate the rapid commercialization of ZEVs. It ordered CARB, CEC, CPUC, and other relevant agencies to work with the Plug-in Electric Vehicle Collaborative and the California Fuel Cell Partnership to establish benchmarks to help achieve benchmark goals by 2015, 2020, and 2025. On a statewide basis, EO B-16-12 established a target reduction of GHG emissions from the transportation sector equaling 80% less than 1990 levels by 2050. This directive did not apply to vehicles that have special performance requirements necessary for the protection of the public safety and welfare.

AB 1236. AB 1236 (October 2015) (Chiu) required a city, county, or city and county to approve an application for the installation of electric vehicle charging stations, as defined, through the issuance of specified permits unless the city or county makes specified written findings based upon substantial evidence in the record that the proposed installation would have a specific, adverse impact upon the public health or safety, and there is no feasible method to satisfactorily mitigate or avoid the specific, adverse impact. The bill provided for appeal of that decision to the planning commission, as specified. The bill provided that the implementation of consistent statewide standards to achieve the timely and cost-effective installation of electric vehicle charging stations is a matter of statewide concern. The bill required electric vehicle charging stations to meet specified standards. The bill required a city, county, or city and county with a population of 200,000 or more residents to adopt an ordinance, by September 30, 2016, that created an expedited and streamlined permitting process for electric vehicle charging stations, as specified. The bill also required a city, county, or city and county with a population of less than 200,000 residents to adopt this ordinance by September 30, 2017.

Water

EO B-29-15. In response to the ongoing drought in California, EO B-29-15 (April 2015) set a goal of achieving a statewide reduction in potable urban water usage of 25% relative to water use in 2013. The term of the EO extended through February 28, 2016, although many of the directives have become permanent water-efficiency standards and requirements. The EO includes specific directives that set strict limits on water usage in the state. In response to EO B-29-15, the California Department of Water Resources has modified and adopted a revised version of the Model Water Efficient Landscape Ordinance that, among other changes, significantly increases the requirements for landscape water use efficiency and broadens its applicability to include new development projects with smaller landscape areas.

Solid Waste

AB 939, AB 341, and AB 1826. In 1989, AB 939, known as the Integrated Waste Management Act (California Public Resources Code, Sections 40000 et seq.), was passed because of the increase in waste stream and the decrease in landfill capacity. The statute established the California Integrated Waste Management Board, which oversees a disposal reporting system. AB 939 mandated a reduction of waste being disposed where jurisdictions were required to meet diversion goals of all solid waste through source reduction, recycling, and composting activities of 25% by 1995 and 50% by the year 2000.

AB 341 (Chapter 476, Statutes of 2011 [Chesbro]) amended the California Integrated Waste Management Act of 1989 to include a provision declaring that it is the policy goal of the state that not less than 75% of solid waste generated be source-reduced, recycled, or composted by the year 2020, and annually thereafter. In addition, AB 341 required the California Department of Resources Recycling and Recovery (CalRecycle) to develop strategies to achieve the state's policy goal. CalRecycle conducted several general stakeholder workshops and several focused workshops and in August 2015 published a discussion document titled AB 341 Report to the Legislature, which identifies five priority strategies that CalRecycle believes would assist the state in reaching the 75% goal by 2020, legislative and regulatory recommendations and an evaluation of program effectiveness (CalRecycle 2012).

AB 1826 (Chapter 727, Statutes of 2014, effective 2016) requires businesses to recycle their organic waste (i.e., food waste, green waste, landscape and pruning waste, nonhazardous wood waste, and food-soiled paper waste that is mixed in with food waste) depending on the amount of waste they generate per week. This law also requires local jurisdictions across the state to implement an organic waste recycling program to divert organic waste generated by businesses, including multifamily residential dwellings that consist of five or more units. The minimum threshold of organic waste generation by businesses decreases over time, which means an increasingly greater proportion of the commercial sector will be required to comply.

Other State Actions

Senate Bill 97. SB 97 (Dutton) (August 2007) directed the Governor's Office of Planning and Research (OPR) to develop guidelines under CEQA for the mitigation of GHG emissions. In 2008, OPR issued a technical advisory as interim guidance regarding the analysis of GHG emissions in CEQA documents. The advisory indicated that the lead agency should identify and estimate a project's GHG emissions, including those associated with vehicular traffic, energy consumption, water usage, and construction activities (OPR 2018). The advisory further recommended that the lead agency determine significance of the impacts and impose all mitigation measures necessary to reduce GHG emissions to a level that is less than significant. The CNRA adopted the CEQA Guidelines amendments in December 2009, which became effective in March 2010.

Under the amended Guidelines, a lead agency has the discretion to determine whether to use a quantitative or qualitative analysis or apply performance standards to determine the significance of GHG emissions resulting from a particular project (14 CCR 15064.4(a)). The Guidelines require a lead agency to consider the extent to which the project complies with regulations or requirements adopted to implement a statewide, regional, or local plan for the reduction or mitigation of GHG emissions (14 CCR 15064.4(b)). The Guidelines also allow a lead agency to consider feasible means of mitigating the significant effects of GHG emissions, including reductions in emissions through the implementation of project features or off-site measures. The adopted amendments do not establish a GHG emission threshold, instead allowing a lead agency to develop, adopt, and apply its own thresholds of significance or those developed by other agencies or experts. The CNRA also acknowledges that a lead agency may consider compliance with regulations or requirements implementing AB 32 in determining the significance of a project's GHG emissions (CNRA 2009).

With respect to GHG emissions, the CEQA Guidelines state in Section 15064.4(a) that lead agencies should "make a good faith effort, to the extent possible on scientific and factual data, to describe, calculate or estimate" GHG emissions. The CEQA Guidelines note that an agency may identify emissions by either selecting a "model or methodology" to quantify the emissions or by relying on "qualitative analysis or other performance based standards" (14 CCR 15064.4(a)). Section 15064.4(b) states that the lead agency should consider the following

when assessing the significance of impacts from GHG emissions on the environment: (1) the extent a project may increase or reduce GHG emissions as compared to the existing environmental setting; (2) whether the project emissions exceed a threshold of significance that the lead agency determines applies to the project; and (3) the extent to which the project complies with regulations or requirements adopted to implement a statewide, regional, or local plan for the reduction or mitigation of GHG emissions (14 CCR 15064.4(b)).

EO S-13-08. EO S-13-08 (November 2008) is intended to hasten California's response to the impacts of global climate change, particularly sea-level rise. Therefore, the EO directs state agencies to take specified actions to assess and plan for such impacts. The final 2009 California Climate Adaptation Strategy report was issued in December 2009 (CNRA 2009), and an update, Safeguarding California: Reducing Climate Risk, followed in July 2014 (CNRA 2014). To assess the state's vulnerability, the report summarizes key climate change impacts to the state for the following areas: Agriculture, Biodiversity and Habitat, Emergency Management, Energy, Forestry, Ocean and Coastal Ecosystems and Resources, Public Health, Transportation, and Water. Issuance of the Safeguarding California: Implementation Action Plans followed in March 2016 (CNRA 2016). In January 2018, the CNRA released the Safeguarding California Plan: 2018 Update, which communicates current and needed actions that state government should take to build climate change resiliency (CNRA 2018a).

3.2.3 Local Regulations

3.2.3.1 San Joaquin Valley Air Pollution Control District

The SJVAPCD does not regulate GHG emissions directly through its permitting responsibilities for stationary sources. Thus, there are no SJVAPCD rules or regulations related to GHGs. The SJVAPCD, however, effects reductions of GHGs from new and modified stationary sources when acting as a lead agency for CEQA. The SJVAPCD implements its GHG policies and reviews whether new or modified stationary sources will implement best performance standards (BPS).

In 2009, the SJVAPCD developed an internal policy and guidance for local land use agencies to use in evaluating GHG impacts under CEQA. In the *Final Staff Report – Addressing GHG Emissions Impacts under the California Environmental Quality Act* (SJVAPCD 2009b), the SJVAPCD reviewed potential GHG significance thresholds and approaches suggested by or adopted by the following entities, ranging from quantification of a project's GHG impacts without a recommended significance threshold to a zero threshold to specific significance thresholds for different kinds of projects (e.g., residential, mixed use, industrial, plans).[13] The following discussion summarizes the SJVAPCD's conclusions about various categories of GHG significance thresholds.

Zero Threshold. The SJVAPCD concluded that "although a zero threshold is appealing in its simplicity; execution of a zero threshold would be difficult or impossible" (SJVAPCD 2009b). Furthermore, the SJVAPCD found that projects that could not reduce their emissions to zero would require preparation of an environmental impact report and adoption of a statement of overriding consideration by the lead agency. Potentially, projects could choose to relocate to a region

[13] These documents encompassed the primary approaches for establishing significance thresholds in the period prior to the March 18, 2010 effective date of revisions of the CEQA Guidelines in accordance with SB 97. Additional guidance regarding assessment of GHG impacts were provided in the revised CEQA Guidelines and accompanying *Final Statement of Reasons for Regulatory Action – Amendments to the State CEQA Guidelines Addressing Analysis and Mitigation of Greenhouse Gas Emissions Pursuant to SB97* (CNRA 2009a). In addition, the California appellate courts and the Supreme Court have more recently considered CEQA cases and, in some cases, issued published decisions that provide additional direction regarding the appropriateness of certain GHG assessment methodologies and significance thresholds.

with a less stringent threshold, so-called "leakage" that would still result in GHG emissions outside the SJVAPCD. Finally, the SJVAPCD noted that CARB concluded that zero thresholds are not mandated because some level of GHG emissions is still consistent with climate stabilization and other regulatory programs will result in GHG reductions. For these reasons, the SJVAPCD did not support a zero threshold. Accordingly, a zero threshold was not selected as an appropriate GHG/climate change threshold for this assessment.

Non-zero Quantitative Thresholds. As indicated previously, the SJVAPCD reviewed numerous quantitative thresholds adopted or proposed by other air districts and organizations, including "mass of GHG emissions generate per unit of activity, GHG emissions per capita per unit basis, and percent reduction compared to Business-as-Usual" (SJVAPCD 2009b). While a tiered approach was evaluated, with the final tier incorporating a quantitative threshold, the SJVAPCD concluded that "without supporting scientific information, establishment of tier trigger levels could be argued to be arbitrary, and District staff does not believe the available science supports establishing a bright-line threshold, above which emissions are significant and below which they are not" (SJVAPCD 2009b).

Best Performance Standards. The SJVAPCD evaluated performance-based standards, which would state "in quantifiable terms the level and extent of the attribute necessary to reach a goal or objective (SJVAPCD 2009b). The SJVAPCD considered a project achieving the performance-based standard or mitigating GHG emissions to an equivalent emission reduction level would be considered to have a less-than-significant cumulative impact on climate change. In conclusion, the SJVAPCD found that the state's GHG emission reduction target would be accomplished by achieving a 29% reduction from business-as-usual (BAU) and that this achieving this reduction would be a "de facto" performance-based standard for GHG emission reductions.

On December 17, 2009, the SJVAPCD Governing Board adopted *Guidance for Valley Land-Use Agencies in Addressing GHG Emission Impacts for New Projects under CEQA* (SJVAPCD 2009c). The guidance recommends the following hierarchy for evaluating a project's impact with respect to its GHG emissions:

- Projects complying with an approved GHG emission reduction plan or GHG mitigation program, which avoids or substantially reduces GHG emissions within the geographic area in which the project is located would be determined to have a less-than-significant individual and cumulative impact for GHG emissions. Such plans or programs must be specified in law or approved by the lead agency with jurisdiction over the affected resource and supported by a CEQA compliant environmental review document adopted by the lead agency. Projects complying with an approved GHG emission reduction plan or GHG mitigation program would not be required to implement BPS.
- Projects implementing BPS would not require quantification of project specific GHG emissions.[14] Consistent with the CEQA Guidelines, such projects would be determined to have a less-than-significant individual and cumulative impact for GHG emissions.
- Projects not implementing BPS would require quantification of project-specific GHG emissions and demonstration that project-specific GHG emissions would be reduced or mitigated by at least 29%, compared to BAU, including GHG emission reductions achieved since the 2002–2004 baseline period. Projects achieving at least a 29% GHG emission reduction compared to BAU would be determined to have a less-than-significant individual and cumulative impact for GHG (SJVAPCD 2009c).

[14] The guidance recommends, "projects requiring preparation of an Environmental Impact Report for any other reason would require quantification of project specific GHG emissions" (SJVAPCD 2009c). This assessment for the project does include quantification of the project's construction and operational GHG emissions.

- For development projects, BPS would include project design elements, land use decisions, and technologies that reduce GHG emissions. While the SJVAPCD has adopted BPS for several types of stationary sources (e.g., boilers), it has not developed BPS for land development projects. Projects implementing any combination of BPS, and/or demonstrating a total 29% reduction in GHG emissions from BAU, would be determined to have a less-than-significant individual and cumulative impact on global climate change (SJVAPCD 2015a).

3.2.3.2 County of San Joaquin

The County's General Plan Public Health and Safety Element, GHG Reductions Goal and Natural and Cultural Resources Element, Energy Resources Goal sets targets and strategies to reduce GHG emissions and associated climate change by supporting new renewable energy facilities. The County's General Plan Public Health and Safety Element, GHG Reductions Goal and Natural and Cultural Resources Element, Energy Resources Goal includes the following:

Goal PHS-6: To reduce GHG emissions as part of the statewide effort to combat climate change.

- **PHS-6.2: Community GHG Reduction Targets.** The County shall reduce community GHG emissions by 15% below 2005 levels by 2020, and shall strive to reduce GHG emissions by 40% and 80% below reduced 2020 levels by 2035 and 2050, respectively.
- **PHS-6.3: GHG Reduction Strategies.** The County shall promote GHG emission reductions by encouraging efficient farming methods (e.g., no-till farming, crop rotation, cover cropping); supporting the installation of renewable energy technologies; and protecting grasslands, open space, oak woodlands, riparian forest and farmlands from conversion to urban use.
- **PHS-6.5: Diversion, Recycling, and Reuse**. The County shall achieve a 75% diversion of landfill waste based on 1990 levels by 2020, and shall achieve a diversion rate of 90% by 2035.
- **PHS-6.6: Business-Related GHG Reduction Strategies**. The County shall encourage all businesses to help reduce GHG emissions by: replacing high mileage fleet vehicles with more efficient and/or alternative fuel vehicles increasing the energy efficiency of facilities; transitioning toward the use of renewable energy instead of non-renewable energy sources; adopting purchasing practices that promote emissions reductions and reusable materials and increasing recycling.
- **PHS-6.7: New Development.** The County shall require new development to incorporate all feasible mitigation measures to reduce construction and operational GHG emissions.
- **PHS-6.0: Public Awareness.** The County shall support public awareness about climate change and encourage County residents and businesses to become involved in activities and lifestyle changes that will aid in reduction of GHG emissions through alternative energy use, energy and water conservation, waste reduction and recycling, and other sustainable practices.

Goal NCR-5: To increase energy independence through the use of renewable energy sources and improved energy conservation and efficiency.

- **NCR-5.1: Nonrenewable Energy and Energy Efficiency.** The County shall support the efforts of residents, businesses, and energy providers to reduce the consumption of nonrenewable energy and shall promote energy providers' programs to increase energy efficiency and implement demand response programs.

- **NCR-5.2: Alternative Energy.** The County shall support the efforts of residents, businesses, and energy providers to develop and use alternative, renewable energy sources, including but not limited to, biomass, solar, wind, and geothermal.
- **NCR-5.9: Shaded Parking Lots.** The County shall require parking lots to be shaded in the summertime but allow winter solar access to adjacent buildings and sidewalks.
- **NCR-5.11: Green Building Practices.** The County shall encourage green building practices in new construction.
- **NCR-5.12: Energy Efficient Industry.** The County shall support energy efficiency of industrial processes.
- **NCR-5.13: Solar Heating in Industrial Operations.** The County shall encourage industrial operations that require large amounts of hot water to incorporate active solar systems in the design of buildings.

3.3 Greenhouse Gas Inventories and Climate Change Conditions

3.3.1 Sources of Greenhouse Gas Emissions

Anthropogenic GHG emissions worldwide in 2017 (the most recent year for which data is available) totaled approximately 50,860 million metric tons (MMT) of CO_2e, excluding land use change and forestry (PBL 2018). Six countries—China, the United States, the Russian Federation, India, Japan, and Brazil—and the European community accounted for approximately 65% of the total global emissions, or approximately 33,290 MMT CO_2e (PBL 2018).

Per the EPA Inventory of U.S. Greenhouse Gas Emissions and Sinks: 1990–2018 (EPA 2020b), total United States GHG emissions were approximately 6,676.6 million metric tons (MMT) CO_2e in 2018 (EPA 2020b). The primary GHG emitted by human activities in the United States was CO_2, which represented approximately 81.3% of total GHG emissions (5,428.1 MMT CO_2e). The largest source of CO_2, and of overall GHG emissions, was fossil-fuel combustion, which accounted for approximately 92.8% of CO_2 emissions in 2018 (5,031.8 MMT CO_2e). Relative to 1990, gross United States GHG emissions in 2018 are higher by 3.7%, down from a high of 15.2% above 1990 levels in 2007. GHG emissions decreased from 2017 to 2018 by 2.9% (188.4 MMT CO_2e) and overall, net emissions in 2018 were 10.2% below 2005 levels (EPA 2020b).

According to California's 2000–2018 GHG emissions inventory (2020 edition), California emitted 425 MMT CO_2e in 2018, including emissions resulting from out-of-state electrical generation (CARB 2020b). The sources of GHG emissions in California include transportation, industrial uses, electric power production from both in-state and out-of-state sources, commercial and residential uses, agriculture, high-GWP substances, and recycling and waste. The California GHG emission source categories and their relative contributions in 2018 are presented in Table 15.

Table 15. Greenhouse Gas Emissions Sources in California

Source Category	Annual GHG Emissions (MMT CO_2e)	Percent of Total
Transportation	169.50	40%
Industrial uses	89.18	21%
Electricity generation[a]	63.11	15%
Residential and commercial uses	41.37	10%
Agriculture	32.57	8%

Table 15. Greenhouse Gas Emissions Sources in California

Source Category	Annual GHG Emissions (MMT CO_2e)	Percent of Total
High GWP substances	20.46	5%
Recycling and waste	9.09	2%
Totals	**425.28**	**100%**

Source: CARB 2020b.
Notes: GHG = greenhouse gas; GWP = global warming potential; MMT CO_2e = million metric tons of carbon dioxide equivalent. Emissions reflect 2018 California GHG inventory.
Totals may not sum due to rounding.
[a] Includes emissions associated with imported electricity, which account for 24.57 MMT CO_2e.

As outlined in Table 16, the County of San Joaquin's Greenhouse Gas Emissions by Sectors (2007), the County emitted 3,051,996 MT CO_2e in 2007 (County of San Joaquin 2014).

Table 16. County of San Joaquin Greenhouse Gas Emissions by Sectors (2007)

Source Category	Annual GHG Emissions (MT CO_2e)
Electricity	831,532
Transportation	1,350,924
Waste	41,067
Wastewater	2,784
Agriculture	825,689
Total	**3,051,996**

Source: County of San Joaquin 2014.
GHG = greenhouse gas; MT CO_2e = metric tons of carbon dioxide equivalent.
Reflects inventory year 2007.
Total may not add due to rounding.

3.3.2 Potential Effects of Climate Change

In California, climate change impacts have the potential to affect sea-level rise, agriculture, snowpack and water supply, forestry, wildfire risk, public health, and electricity demand and supply. The primary effect of global climate change has been a rise in average global tropospheric temperature. Reflecting the long-term warming trend since pre-industrial times, observed mean surface temperature for the decade 2006–2015 was 0.87°C (likely between 0.75°C and 0.99°C) higher than the average over the 1850–1900 period (IPCC 2018). Scientific modeling predicts that continued emissions of GHGs at or above current rates would induce more extreme climate changes during the twenty-first century than were observed during the twentieth century. Human activities are estimated to have caused approximately 1.0°C (1.8°F) of global warming above pre-industrial levels, with a likely range of 0.8°C to 1.2°C (1.4°F to 2.2°F) (IPCC 2018). Global warming is likely to reach 1.5°C (2.7°F) between 2030 and 2052 if it continues to increase at the current rate (IPCC 2018).

Although climate change is driven by global atmospheric conditions, climate change impacts are felt locally. A scientific consensus confirms that climate change is already affecting California. The Office of Environmental Health Hazard Assessment identified various indicators of climate change in California, which are scientifically based measurements that track trends in various aspects of climate change. Many indicators reveal discernible evidence that climate change is occurring in California and is having significant, measurable impacts in the state.

Changes in the state's climate have been observed, including an increase in annual average air temperature with record warmth from 2012 to 2016, more frequent extreme heat events, more extreme drought, a decline in winter chill, an increase in cooling degree days and a decrease in heating degree days, and an increase in variability of statewide precipitation (OEHHA 2018).

Warming temperatures and changing precipitation patterns have altered California's physical systems—the ocean, lakes, rivers and snowpack—upon which the state depends. Winter snowpack and spring snowmelt runoff from the Sierra Nevada and southern Cascade Mountains provide approximately one-third of the state's annual water supply. Impacts of climate on physical systems have been observed, such as high variability of snow-water content (i.e., amount of water stored in snowpack), decrease in snowmelt runoff, glacier change (loss in area), rise in sea levels, increase in average lake water temperature and coastal ocean temperature, and a decrease in dissolved oxygen in coastal waters (OEHHA 2018).

Impacts of climate change on biological systems, including humans, wildlife, and vegetation, have also been observed, including climate change impacts on terrestrial, marine, and freshwater ecosystems. As with global observations, species responses include those consistent with warming: elevational or latitudinal shifts in range, changes in the timing of key plant and animal life cycle events, and changes in the abundance of species and in community composition. Humans are better able to adapt to a changing climate than plants and animals in natural ecosystems. Nevertheless, climate change poses a threat to public health, as warming temperatures and changes in precipitation can affect vector-borne pathogen transmission and disease patterns in California as well as the variability of heat-related deaths and illnesses. In addition, since 1950, the area burned by wildfires each year has been increasing.

The California Natural Resources Agency (CNRA) has released four California Climate Change Assessments (2006, 2009, 2012, and 2018), which have addressed the following: acceleration of warming across the state, more intense and frequent heat waves, greater riverine flows, accelerating sea level rise, more intense and frequent drought, more severe and frequent wildfires, more severe storms and extreme weather events, shrinking snowpack and less overall precipitation, and ocean acidification, hypoxia, and warming. To address local and regional governments need for information to support action in their communities, the Fourth Assessment (CNRA 2018b) includes reports for nine regions of the state, including the San Joaquin Region, where the project is located. Key projected climate changes for the San Joaquin Region include the following (CNRA 2018b):

- Agriculture is one of the most vulnerable sectors under climate change due in part of more frequent and severe drought, as well as tighter water supply.
- Ecosystems in the San Joaquin Valley are highly vulnerable to climate change given existing anthropogenic stressors and the lack of organization of landscape-scale science, funding, and mitigation of adverse impacts within the region.
- Water resources within the San Joaquin Valley region will be severely impacted by climate change.
- Infrastructure in the San Joaquin Valley, including urban, water, and transportation systems may face increased stress from higher temperatures and extreme precipitation events, including droughts and floods.

Agriculture. Some of the specific challenges faced by the agricultural sector and farmers include more drastic and unpredictable precipitation and weather patterns; extreme weather events that range from severe flooding to extreme drought, to destructive storm events; significant shifts in water availably and water quality; changes in pollinator lifecycles; temperature fluctuations, including extreme heat stress and decreased chill hours; increased

risks from invasive species and weeds, agricultural pests and plant diseases; and disruptions to the transportation and energy infrastructure supporting agricultural production.

Biodiversity and Habitat. Specific climate change challenges to biodiversity and habitat include species migration in response to climatic changes, range shift and novel combinations of species; pathogens, parasites and disease; invasive species; extinction risks; changes in the timing of seasonal life-cycle events; food web disruptions; threshold effects (i.e., a change in the ecosystem that results in a "tipping point" beyond which irreversible damage or loss has occurred).

Energy. Specific climate change challenges for the energy sector include temperature, fluctuating precipitation patterns, increasing extreme weather events, and sea-level rise.

Forestry. The most significant climate change related risk to forests is accelerated risk of wildfire and more frequent and severe droughts. Droughts have resulted in more large-scale mortalities and combined with increasing temperatures have led to an overall increase in wildfire risks. Increased wildfire intensity subsequently increases public safety risks, property damage, fire suppression and emergency response costs, watershed and water quality impacts, and vegetation conversions.

Ocean and Coastal Ecosystems and Resources. Sea-level rise, changing ocean conditions, and other climate change stressors are likely to exacerbate long-standing challenges related to ocean and coastal ecosystems in addition to threatening people and infrastructure located along the California coastline and in coastal communities. Sea-level rise, in addition to more frequent and severe coastal storms and erosion, are threatening vital infrastructure such as roads, bridges, power plants, ports and airports, gasoline pipes, and emergency facilities, as well as negatively impacting the coastal recreational assets such as beaches and tidal wetlands.

Public Health. Climate change can impact public health through various environmental changes and is the largest threat to human health in the twenty-first century. Changes in precipitation patterns affect public health primarily through potential for altered water supplies, and extreme events such as heat, floods, droughts, and wildfires. Increased frequency, intensity, and duration of extreme heat and heat waves are likely to increase the risk of mortality due to heat-related illness, as well as exacerbate existing chronic health conditions. Other extreme weather events are likely to negatively impact air quality and increase or intensify respiratory illness, such as asthma and allergies.

Transportation. Although the transportation industry is a source of GHG emissions, it is also vulnerable to climate change risks. Increasing temperatures and extended periods of extreme heat threaten the integrity of the roadways and rail lines. High temperatures cause the road surfaces to expand, which leads to increased pressure and pavement buckling. High temperatures can also cause rail breakages, which could lead to train derailment. Other forms of extreme weather events, such as extreme storm events, can negatively impact infrastructure, which can impair movement of peoples and goods, or potentially block evacuation routes and emergency access roads. Increased wildfires, flooding, erosion risks, landslides, mudslides, and rockslides can all profoundly impact the transportation system and pose a serious risk to public safety.

Water. Climate change could seriously impact the timing, form, amount of precipitation, runoff patterns, and frequency and severity of precipitation events. Higher temperatures reduce the amount of snowpack and lead to earlier snowmelt, which can impact water supply availability, natural ecosystems, and winter recreation. Water supply availability during the intense dry summer months is heavily dependent on the snowpack accumulated during the winter time. Increased risk of flooding has a variety of public health concerns, including water quality, public safety,

property damage, displacement, and post-disaster mental health problems. Prolonged and intensified droughts can also negatively groundwater reserves and result in increased overdraft and subsidence. The higher risk of wildfires can lead to increased erosion, which can negatively impact watersheds and result in poor water quality.

3.4 Significance Criteria and Methodology

3.4.1 Thresholds of Significance

The significance criteria used to evaluate the project's GHG emissions impacts is based on the recommendations provided in Appendix G of the CEQA Guidelines. For the purposes of this GHG emissions analysis, the project would have a significant environmental impact if it would (14 CCR 15000 et seq.):

1. Generate GHG emissions, either directly or indirectly, that may have a significant impact on the environment?
2. Conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of GHGs?

Global climate change is a cumulative impact; a project participates in this potential impact through its incremental contribution combined with the cumulative increase of all other sources of GHGs. There are currently no established thresholds for assessing whether the GHG emissions of a project, such as the proposed project, would be considered a cumulatively considerable contribution to global climate change; however, all reasonable efforts should be made to minimize a project's contribution to global climate change. In addition, while GHG impacts are recognized exclusively as cumulative impacts (CAPCOA 2008), GHG emissions impacts must also be evaluated on a project-level under CEQA.

The CEQA Guidelines do not prescribe specific methodologies for performing an assessment, do not establish specific thresholds of significance, and do not mandate specific mitigation measures. Rather, the CEQA Guidelines emphasize the lead agency's discretion to determine the appropriate methodologies and thresholds of significance consistent with the manner in which other impact areas are handled in CEQA (CNRA 2009). The State of California has not adopted emission-based thresholds for GHG emissions under CEQA. The Governor's Office of Planning and Research's Technical Advisory, titled "Discussion Draft CEQA and Climate Change Advisory," states that (OPR 2018):

> Neither the CEQA statute nor the CEQA Guidelines prescribe thresholds of significance or particular methodologies for perming an impact analysis. This is left to lead agency judgment and discretion, based upon factual data and guidance from regulatory agencies and other sources where available and applicable. Even in the absence of clearly defined thresholds for GHG emissions, such emissions must be disclosed and mitigated to the extent feasible whenever the lead agency determines that the project contributes to a significant, cumulative climate change impact.

Furthermore, the advisory document indicates that "in the absence of regulatory standards for GHG emissions or other scientific data to clearly define what constitutes a 'significant impact,' individual lead agencies may undertake a project-by-project analysis, consistent with available guidance and current CEQA practice." Section 15064.7(c) of the CEQA Guidelines specifies that "when adopting thresholds of significance, a lead agency may consider thresholds of significance previously adopted or recommended by other public agencies, or recommended by experts, provided the decision of the lead agency to adopt such thresholds is supported by substantial evidence."

Notwithstanding the CEQA Guidelines, local land use agencies sought additional technical assistance from expert air quality agencies in how to complete the suggested quantitative analysis of the significance of GHG emissions for land use projects being considered under CEQA. The SJVAPCD adopted *Guidance for Valley Land-Use Agencies in Addressing GHG Emission Impacts for New Projects under CEQA* (SJVAPCD 2009c). The guidance relies on either BPS or 29% reduction compared to BAU to assess significance of project specific GHG emissions on global climate change during the environmental review process. Notably, the project would not be considered a stationary project with applicable BPS. Regarding the BAU threshold, the Supreme Court in its 2015 decision, *Center for Biological Diversity v. Department of Fish and Wildlife*, S217763 (*Newhall*), concluded that substantial evidence is required to support the application of AB 32 statewide GHG reduction goal of 29% to new land use projects. Since neither the BPS nor BAU approach is generally appropriate for this project, the SJVAPCD guidance was not used for this analysis. However, the SJVAPCD guidance does not limit a lead agency's authority in establishing its own process and guidance for determining significance of project-related impacts on global climate change.

In absence of any applicable numeric threshold, this analysis assesses compliance with applicable plans, policies, regulations, and requirements adopted to implement a statewide, regional, or local plan for the reduction or mitigation of GHG emissions. As a land use development project, the most directly applicable adopted regulatory plan to reduce GHG emissions is the SJCOG 2018 RTP/SCS, which is designed to achieve regional GHG reductions from the land use and transportation sectors as required by SB 375 and the state's long-term climate goals. This analysis also considers consistency with regulations and requirements adopted pursuant to the Scoping Plan and the County's General Plan. GHG emissions from project construction and operation are included for disclosure consistent with OPR recommendations and industry practice.

3.4.2 Approach and Methodology

3.4.2.1 Construction

CalEEMod Version 2016.3.2 was used to estimate potential project-generated GHG emissions during construction. Construction of the project would result in GHG emissions primarily associated with use of off-road construction equipment, on-road hauling and vendor (material delivery) trucks, and worker vehicles. All details for construction criteria air pollutants discussed in Section 2.4.2.1, are also applicable for the estimation of construction-related GHG emissions. As such, see Section 2.4.2.1 for a discussion of construction emissions calculation methodology and assumptions.

3.4.2.2 Operation

Emissions from the operational phase of the project were estimated using CalEEMod Version 2016.3.2. Operational year 2022 was assumed consistent with completion of project construction. Although emission reductions are not quantified, the project would incorporate the PDFs summarized in Section 1.4.

CalEEMod Version 2016.3.2 was used to estimate potential project-generated operational GHG emissions from area sources (landscape maintenance), energy sources (natural gas and electricity), solid waste, water supply and wastewater treatment, off-road equipment, and stationary sources (fire pump). Mobile source emissions were estimated using a spreadsheet model based on CARB EMFAC2017 emission factors. Emissions from each category are discussed in the following text with respect to the project. For additional details, see Section 2.4.2.2, Operational Emissions, for a discussion of operational emission calculation methodology and assumptions, specifically for area, energy (natural gas), and mobile sources.

Area Sources

CalEEMod was used to estimate GHG emissions from the project's area sources, which include operation of gasoline-powered landscape maintenance equipment, which produce minimal GHG emissions. See Section 2.4.2.2, for a discussion of landscaping equipment emissions calculations.

Energy Sources

The estimation of operational energy emissions was based on CalEEMod land use defaults and total area (i.e., square footage) of the project's land use.

The current version of CalEEMod assumes compliance with the 2016 Title 24 Building Energy Efficiency Standards (CAPCOA 2017); however, the project would be required to comply with the 2019 Title 24 Standards at a minimum. Per CEC's Impact Analysis for the 2019 Update to the California Energy Efficiency Standards for Residential and Non-Residential Buildings, the first-year savings for newly constructed nonresidential buildings are 197 gigawatt hours of electricity, 76.6 megawatt of demand, and 0.27 million therms of gas, representing reductions from the 2016 Title 24 standard of 10.7%, 9%, and 1%, respectively (CEC 2018).

CalEEMod default energy intensity factors (CO_2, CH_4, and N_2O mass emissions per kilowatt-hour) for Pacific Gas and Electric (PG&E) is based on the value for PG&E's energy mix in 2008. As explained in Section 3.2.2, SB X1 2 established a target of 33% from renewable energy sources for all electricity providers in California by 2020, and SB 100 calls for further development of renewable energy, with a target of 60% by 2030. The CO_2 emissions intensity factor for utility energy use in 2022 (first full year of project operations) in CalEEMod was adjusted to reflect PG&E's 2018 reported factor, which assumes 29.7% of the power mix consists of eligible renewables (PG&E 2020).

Mobile Sources

All details for criteria air pollutants discussed in Section 2.4.2.2 are also applicable for the estimation of operational mobile source GHG emissions. Mobile sources for the project would primarily be motor vehicles (automobiles, light-duty trucks, and heavy-duty trucks)[15] traveling to and from the project site. As discussed in Section 2.4.2.2, emissions from the mobile sources during operation of the project were estimated using a spreadsheet-based model and emission factors from the CARB EMFAC2017.

Solid Waste

The project would generate solid waste, and therefore, result in CO_2e emissions associated with landfill off-gassing. CalEEMod default values for solid waste generation were used to estimate GHG emissions associated with solid waste.

Water and Wastewater

The project proposes utilization of a private well for water and an on-site septic system for sewage disposal. The project would operate a 22-kilowatt electric pump to pump water from the private well for water use. Water consumption estimates for both indoor and outdoor water use were estimated using CalEEMod default values.

[15] "Heavy-duty trucks" include medium-heavy-duty trucks (3-axle) and heavy-heavy-duty trucks (4+-axle).

Electricity use for water supply are based on the electric pump rating, pump flowrate, electricity intensity factors from CalEEMod for the County, and the indoor and outdoor water use default values in CalEEMod.

Off-Road Equipment

All details for criteria air pollutants discussed in Section 2.4.2.2 are also applicable for the estimation of operational off-road sources of GHG emissions and the estimation of operational GHG emissions from the fire pump.

3.5 Impact Analysis

3.5.1 Would the project generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?

3.5.2 Would the proposed project conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of greenhouse gases?

Construction Emissions

Construction of the project would result in GHG emissions, which are primarily associated with the use of off-road construction equipment, haul trucks, on-road vendor trucks, and worker vehicles.

CalEEMod was used to calculate the annual GHG emissions based on the construction scenario described in Section 2.4.2.1. Construction of the project is anticipated to commence in July 2021 and would last approximately 10 months, ending in April 2022. On-site sources of GHG emissions include off-road equipment and off-site sources include vendor trucks and worker vehicles. Table 17 presents construction emissions for the project in 2021 and 2022 from on-site and off-site emission sources.

Table 17. Estimated Annual Construction Greenhouse Gas Emissions - Unmitigated

Year	CO_2	CH_4	N_2O	CO_2e
	Metric Tons per Year			
2021	285.70	0.06	0.00	287.26
2022	168.02	0.03	0.00	168.70
			Total	**455.96**

Notes: CO_2 = carbon dioxide; CH_4 = methane; N_2O = nitrous oxide; CO_2e = carbon dioxide equivalent; <0.01 = reported value less than 0.01.
See Appendix A for complete results.
The values shown are the annual emissions reflect California Emissions Estimator Model "mitigated" output.
Totals may not add due to rounding.

As shown in Table 17, the estimated total GHG emissions during construction of would be approximately 456 MT CO_2e over the construction period. Estimated project-generated construction emissions amortized over 30 years would be approximately 15 MT CO_2e per year. As with project-generated construction criteria air pollutant

emissions, GHG emissions generated during construction of the project would be short-term in nature, lasting only for the duration of the construction period, and would not represent a long-term source of GHG emissions.

Operational Emissions

Operation of the project would generate GHG emissions through passenger vehicle and delivery truck trips to and from the project site; landscape maintenance equipment operation; energy use (natural gas and generation of electricity consumed by the project); solid waste disposal; generation of electricity associated with the water pump; on-site septic system; and a yard truck, forklifts, and a diesel-fueled fire pump. CalEEMod and a spreadsheet model were used to calculate the annual GHG emissions based on the operational assumptions described in Section 3.4.2.2, Operation. The estimated operational project-generated GHG emissions are shown in Table 18.

Table 18. Estimated Annual Operational Greenhouse Gas Emissions

Emission Source	CO_2	CH_4	N_2O	CO_2e
	metric tons per year			
Area	0.02	<0.01	0.00	0.02
Energy	567.70	0.05	0.01	573.12
Mobile	8,857.25	0.06	1.23	9,226.53
Solid waste	139.43	8.24	0.00	345.43
Water supply and wastewater	0.00	38.25	0.13	994.80
Stationary	5.71	0.00	0.00	5.73
Fuel Storage Tank	0.00	0.00	0.00	0.00
Off-road	1,321.85	0.42	0.00	1,332.73
Amortized 30-Year Construction Emissions				*15.20*
Operation plus Amortized Construction Total				**12,493.57**

Notes: CO_2 = carbon dioxide; CH_4 = methane; N_2O = nitrous oxide; CO_2e = carbon dioxide equivalent; < 0.01 = reported emissions less than 0.01.
See Appendix A for complete results.
Totals may not add due to rounding.

As shown in Table 18, estimated annual project-generated GHG emissions would be approximately 12,494 MT CO_2e per year as a result of project operations and amortized construction.

Project Consistency with Applicable GHG-Related Laws and Regulations

The project's consistency with statewide GHG reduction strategies is summarized in detail in Table 19.

Table 19. Applicable Greenhouse Gas-Related Laws and Regulations

Project Component	Applicable Laws/ Regulations	GHG Reduction Measures Required for Project
Building Components/Facility Operations		
Roofs/Ceilings/ Insulation	CALGreen Code (Title 24, Part 11) California Energy	The project must comply with efficiency standards regarding roofing, ceilings, and insulation. For example: Roofs/Ceilings: New construction must reduce roof heat island effects

Table 19. Applicable Greenhouse Gas-Related Laws and Regulations

Project Component	Applicable Laws/ Regulations	GHG Reduction Measures Required for Project
	Code (Title 24, Part 6)	per CALGreen Code Section 106.11.2, which requires use of roofing materials having a minimum aged solar reflectance, thermal emittance complying with Section A5.106.11.2.2 and A5.106.11.2.3 or a minimum aged Solar Reflectance Index as specified in Tables A5.106.11.2.2, or A5.106.11.2.3. Roofing materials must also meet solar reflectance and thermal emittance standards contained in Title 20 Standards. Roof/Ceiling Insulation: There are also requirements for the installation of roofing and ceiling insulation. (See Title 24, Part 6 Compliance Manual at Section 3.2.2.)
Flooring	CALGreen Code	The project must comply with efficiency standards regarding flooring materials. For example, for 80% of floor area must receive "resilient flooring," the flooring must meet applicable installation and material requirements contained in CALGreen Code Section 5.504.4.6.
Window and Doors (Fenestration)	California Energy Code	The project must comply with fenestration efficiency requirements. For example, the choice of windows, glazed doors, and any skylights for the project must conform to energy consumption requirements affecting size, orientation, and types of fenestration products used. (See Title 24, Part 6 Compliance Manual, Section 3.3.)
Building Walls/Insulation	CALGreen Code California Energy Code	The project must comply with efficiency requirements for building walls and insulation. Exterior Walls: Must meet requirements in current edition of California Energy Code and comply with Sections A5.106.7.1 or A5.106.7.2 of CALGreen Code for wall surfaces, as well as Section 5.407.1, which requires weather-resistant exterior wall and foundation envelope as required by California Building Code Section 1403.2. Construction must also meet requirements contained in Title 24, Part 6, which vary by material of the exterior walls. (See Title 24, Part 6 Compliance Manual, Part 3.2.3.) Demising (Interior) Walls: Mandatory insulation requirements for demising walls (which separate conditioned from non-conditions space) differ by the type of wall material used. (*Id*. at 3.2.4.) Door Insulation: There are mandatory requirements for air infiltration rates to improve insulation efficiency; they differ according to the type of door. (*Id*. at 3.2.5.) Flooring Insulation: There are mandatory requirements for insulation that depend on the material and location of the flooring. (*Id*. at 3.2.6.)
Finish Materials	CALGreen Code	The project must comply with pollutant control requirements for finish materials. For example, materials including adhesives, sealants, caulks, paints and coatings, carpet systems, and composite wood products must meet requirements in CALGreen Code to ensure pollutant control. (CALGreen Code Section 5.504.4.)
Wet Appliances (Toilets/Faucets/ Urinal, Dishwasher/ Clothes Washer, Spa and Pool/Water	CALGreen Code California Energy Code Appliance Efficiency Regulations (Title 20	Wet appliances associated with the project must meet various efficiency requirements. For example: Spa and Pool: Use associated with the project is subject to appliance efficiency requirements for service water heating systems and equipment, spa and pool heating systems and equipment. (Title 24,

Table 19. Applicable Greenhouse Gas-Related Laws and Regulations

Project Component	Applicable Laws/ Regulations	GHG Reduction Measures Required for Project
Heater)	Standards)	Part 6, Sections 110.3, 110.4, 110.5; Title 20 Standards, Sections 1605.1(g), 1605.3(g); see also California Energy Code.) Toilets/Faucets/Urinals: Use associated with the project is subject to new maximum rates for toilets, urinals, and faucets effective January 1, 2016: • Showerheads maximum flow rate 2.5 gpm at 80 psi • Wash fountains 2.2 × (rim space in inches/20) gpm at 60 psi • Metering faucets 0.25 gallons/cycle • Lavatory faucets and aerators 1.2 gpm at 60 psi • Kitchen faucets and aerators 1.8 gpm with optional temporary flow of 2.2 gpm at 60 psi • Public lavatory faucets 0.5 gpm at 60 psi • Trough-type urinals 16 inches length • Wall mounted urinals 0.125 gallons per flush • Other urinals 0.5 gallons per flush (Title 20 Standards, Sections 1605.1(h),(i) 1065.3(h),(i).) Water Heaters: Use associated with the project is subject to appliance efficiency requirements for water heaters. (Title 20 Standards, Sections 1605.1(f), 1605.3(f).) Dishwasher/Clothes Washer: Use associated with the project is subject to appliance efficiency requirements for dishwashers and clothes washers. (Title 20 Standards, Sections 1605.1(o),(p),(q), 1605.3(o),(p),(q).)
Dry Appliances (Refrigerator/ Freezer, Heater/ Air Conditioner, Clothes Dryer)	Title 20 Standards CALGreen Code	Dry appliances associated with the project must meet various efficiency requirements. For example: Refrigerator/Freezer: Use associated with the project is subject to appliance efficiency requirements for refrigerators and freezers. (Title 20 Standards, Sections 1605.1(a), 1605.3(a).) Heater/Air Conditioner: Use associated with the project is subject to appliance efficiency requirements for heaters and air conditioners. (Title 20 Standards, Sections 1605.1(b),(c),(d),(e), 1605.3(b),(c),(d),(e) as applicable.) Clothes Dryer: Use associated with the project is subject to appliance efficiency requirements for clothes dryers. (Title 20 Standards, Section 1605.1(q).)
	CALGreen Code	Installations of HVAC, refrigeration and fire suppression equipment must comply with CALGreen Code Sections 5.508.1.1 and 508.1.2, which prohibits CFCs, halons, and certain HCFCs and HFCs.
Lighting	Title 20 Standards	Lighting associated with the project will be subject to energy efficiency requirements contained in Title 20 Standards. General Lighting: Indoor and outdoor lighting associated with the project must comply with applicable appliance efficiency regulations (Title 20 Standards, Sections 1605.1(j),(k),(n), 1605.3(j),(k),(n).) Emergency lighting and self-contained lighting: the project must also comply with applicable appliance efficiency regulations (Title 20 Standards, Sections 1605.1(l), 1605.3(l).)

Table 19. Applicable Greenhouse Gas-Related Laws and Regulations

Project Component	Applicable Laws/ Regulations	GHG Reduction Measures Required for Project
		Traffic Signal Lighting: For any necessary project improvements involving traffic lighting, traffic signal modules and traffic signal lamps will need to comply with applicable appliance efficiency regulations (Title 20 Standards, Sections 1605.1(m), 1605.3(m).)
	California Energy Code	Lighting associated with the project will also be subject to energy efficiency requirements contained in Title 24, Part 6, which contains energy standards for non-residential indoor lighting and outdoor lighting. (See Title 24 Part 6 Compliance Manual, at Sections 5, 6.) Mandatory lighting controls for indoor lighting include, for example, regulations for automatic shut-off, automatic daytime controls, demand responsive controls, and certificates of installation. (Id. at Section 5.) Regulations for outdoor lighting include, for example, creation of lighting zones, lighting power requirements, a hardscape lighting power allowance, requirements for outdoor incandescent and luminaire lighting, and lighting control functionality. (Id. at Section 6.)
	AB 1109	Lighting associated with the project will be subject to energy efficiency requirements adopted pursuant to AB 1109. Enacted in 2007, AB 1109 required the CEC to adopt minimum energy efficiency standards for general purpose lighting, to reduce electricity consumption 25% for indoor commercial lighting.
Bicycle and Vehicle Parking	CALGreen Code	The project will be required to provide compliant bicycle parking, fuel-efficient vehicle parking, and electric vehicle charging spaces (CALGreen Code Sections 5.106.4, 5.106.5.1, 5.106.5.3)
	California Energy Code	The project is also subject to parking requirements contained in Title 24, Party 6. For example, parking capacity is to meet but not exceed minimum local zoning requirements, and the project should employ approved strategies to reduce parking capacity (Title 24, Part 6, section 106.6)
Landscaping	CALGreen Code	The CALGreen Code requires and has further voluntary provisions for: - A water budget for landscape irrigation use; - For new water service, separate meters or submeters must be installed for indoor and outdoor potable water use for landscaped areas of 1,000-5,000 square feet; - Provide water-efficient landscape design that reduces use of potable water beyond initial requirements for plant installation and establishment
	Model Water Efficient Landscaping Ordinance	The model ordinance promotes efficient landscaping in new developments and establishes an outdoor water budget for new and renovated landscaped areas that are 500 square feet or larger. (CCR, Title 23, Division 2, Chapter 2.7.)
	Cap-and-Trade Program	Transportation fuels used in landscape maintenance equipment (e.g., gasoline) would be subject to the Cap-and-Trade Program. (See "Energy Use," below.)
Refrigerants	CARB Management of High GWP Refrigerants for	Any refrigerants associated with the project will be subject to CARB standards. CARB's Regulation for the Management of High GWP Refrigerants for Stationary Sources 1) reduces emissions of high-GWP

Table 19. Applicable Greenhouse Gas-Related Laws and Regulations

Project Component	Applicable Laws/ Regulations	GHG Reduction Measures Required for Project
	Stationary Sources	refrigerants from leaky stationary, non-residential refrigeration equipment; 2) reduces emissions resulting from the installation and servicing of stationary refrigeration and air conditioning appliances using high-GWP refrigerants; and 3) requires verification GHG emission reductions. (CCR, Title 17, Division 3, Chapter 1, Subchapter 10, Article 4, Subarticle 5.1, Section 95380 et seq.)
Consumer Products	CARB High GWP GHGs in Consumer Products	All consumer products associated with the project will be subject to CARB standards. CARB's consumer products regulations set VOC limits for numerous categories of consumer products, and limits the reactivity of the ingredients used in numerous categories of aerosol coating products (CCR, Title 17, Division 3, Chapter 1, Subchapter 8.5.)
Construction		
Use of Off-Road Diesel Engines, Vehicles, and Equipment	CARB In-Use Off-Road Diesel Vehicle Regulation	Any relevant vehicle or machine use associated with the project will be subject to CARB standards. The CARB In-Use-Off-Road Diesel Vehicle Regulation applies to certain off-road diesel engines, vehicles, or equipment greater than 25 horsepower. The regulation: 1) imposes limits on idling, requires a written idling policy, and requires a disclosure when selling vehicles; 2) requires all vehicles to be reported to CARB (using the Diesel Off-Road Online Reporting System) and labeled; 3) restricts the adding of older vehicles into fleets starting on January 1, 2014; and 4) requires fleets to reduce their emissions by retiring, replacing, or repowering older engines, or installing Verified Diesel Emission Control Strategies (i.e., exhaust retrofits). The requirements and compliance dates of the Off-Road regulation vary by fleet size, as defined by the regulation.
	Cap-and-Trade Program	Transportation fuels (e.g., gasoline) used in equipment operation would be subject to the Cap-and-Trade Program. (See "Energy Use," below.)
Greening New Construction	CALGreen Code	All new construction, including the project, must comply with CALGreen Code, as discussed in more detail throughout this table. Adoption of the mandatory CALGreen Code standards for construction has been essential for improving the overall environmental performance of new buildings; it also sets voluntary targets for builders to exceed the mandatory requirements.
Construction Waste	CALGreen Code	The project will be subject to CALGreen Code requirements for construction waste reduction, disposal, and recycling, such as a requirement to recycle and/or salvage for reuse a minimum of 50% of the non-hazardous construction waste in accordance with Section 5.408.1.1, 5.408.1.2, or 5.408.1.3; or meet a local construction and demolition waste management ordinance, whichever is more stringent.
Worker, vendor and truck vehicle trips (on-road vehicles)	Cap-and-Trade Program	Transportation fuels (e.g., gasoline) used in worker, vendor and truck vehicle trips would be subject to the Cap-and-Trade Program.

Table 19. Applicable Greenhouse Gas-Related Laws and Regulations

Project Component	Applicable Laws/ Regulations	GHG Reduction Measures Required for Project
Solid Waste		
Solid Waste Management	Landfill Methane Control Measure	Waste associated with the project will be disposed per state requirements for landfills, material recovery facilities, and transfer stations. Per the statewide GHG emissions inventory, the largest emissions from waste management sectors come from landfills, and are in the form of CH_4. In 2010, CARB adopted a regulation that reduces emissions from methane in landfills, primarily by requiring owners and operators of certain uncontrolled municipal solid waste landfills to install gas collection and control systems, and requires existing and newly installed gas and control systems to operate in an optimal manner. The regulation allows local air districts to voluntarily enter into a memorandum of understanding with CARB to implement and enforce the regulation and to assess fees to cover costs of implementation.
	Mandatory Commercial Recycling (AB 341)	AB 341 will require the project, if it generates four cubic yards or more of commercial solid waste per week, to arrange for recycling services, using one of the following: self-haul; subscribe to a hauler(s); arranging for pickup of recyclable materials; subscribing to a recycling service that may include mixed waste processing that yields diversion results comparable to source separation. The project will also be subject to local commercial solid waste recycling program required to be implemented by each jurisdiction under AB 341.
	CALGreen Code	The project will be subject to CALGreen Code requirement to provide areas that serve the entire building and are identified for the depositing, storage and collection of nonhazardous materials for recycling (CALGreen Code Section 5.410.1)
Energy Use		
Electricity/Natural Gas Generation	Cap-and-Trade Program	Electricity and natural gas usage associated with the project will be subject to the Cap-and-Trade Program. The rules came into effect on January 1, 2013, applying to large electric power plants and large industrial plants. In 2015, importers and distributors of fossil fuels were added to the Cap-and-Trade Program in the second phase. Specifically, on January 1, 2015, cap-and-trade compliance obligations were phased in for suppliers of natural gas, reformulated gasoline blendstock for oxygenate blending (RBOB), distillate fuel oils, and liquefied petroleum gas that meet or exceed specified emissions thresholds. The threshold that triggers a cap-and-trade compliance obligation for a fuel supplier is 25,000 metric tons or more of CO_2e annually from the GHG emissions that would result from full combustion or oxidation of quantities of fuels (including natural gas, RBOB, distillate fuel oil, liquefied petroleum gas, and blended fuels that contain these fuels) imported and/or delivered to California.

Table 19. Applicable Greenhouse Gas-Related Laws and Regulations

Project Component	Applicable Laws/ Regulations	GHG Reduction Measures Required for Project
Renewable Energy	California RPS (SB X1-2, SB 350, and SB 100)	Energy providers associated with the project will be required to comply with RPS set by SB X1 2, SB 350, and SB 100. SB X1 2 requires investor-owned utilities, publicly-owned utilities, and electric service providers to increase purchases of renewable energy such that at least 33% of retail sales are procured from renewable energy resources by December 31, 2020. In the interim, each entity was required to procure an average of 20% of renewable energy for the period of January 1, 2011 through December 31, 2013; and will be required to procure an average of 25% by December 31, 2016, and 33% by 2020. SB 350 requires retail sellers and publicly owned utilities to procure 50% of their electricity from eligible renewable energy resources by 2030. SB 100 increased the standards set forth in SB 350 establishing that 44% of the total electricity sold to retail customers in California per year by December 31, 2024, 52% by December 31, 2027, and 60% by December 31, 2030, be secured from qualifying renewable energy sources. SB 100 states that it is the policy of the state that eligible renewable energy resources and zero-carbon resources supply 100% of the retail sales of electricity to California by 2045.
	Million Solar Roofs Program (SB 1)	The project will participate in California's energy market, which is affected by implementation of the Million Solar Roofs Program. As part of Governor Schwarzenegger's Million Solar Roofs Program, California has set a goal to install 3,000 megawatts of new, solar capacity through 2016. The Million Solar Roofs Program is a ratepayer-financed incentive program aimed at transforming the market for rooftop solar systems by driving down costs over time.
	California Solar Initiative- Thermal Program	The project will participate in California's energy market, which is affected by implementation of the California Solar Initiative -Thermal Program. Multifamily and Commercial properties qualify for rebates of up to $800,000 on solar water heating systems and eligible solar pool heating systems qualify for rebates of up to $500,000. Funding for the California Solar Initiative-Thermal program comes from ratepayers of Pacific Gas and Electric, SCE, Southern California Gas Company, and San Diego Gas and Electric. The rebate program is overseen by the CPUC as part of the California Solar Initiative.
	Waste Heat and Carbon Emissions Reduction Act (AB 1613, AB 2791)	The project will participate in California's energy market, which is affected by implementation of the Waste Heat and Carbon Emissions Reduction Act. Originally enacted in 2007 and amended in 2008, this act directed the CEC, CPUC, and CARB to implement a program that would encourage the development of new combined heat and power systems in California with a generating capacity of not more than 20 megawatts, to increase combined heat and power use by 30,000 gigawatt-hour. The CPUC publicly owned electric utilities, and CEC duly established policies and procedures for the purchase of electricity from eligible combined heat and power systems. CEC guidelines require combined heat and power systems to be

Table 19. Applicable Greenhouse Gas-Related Laws and Regulations

Project Component	Applicable Laws/ Regulations	GHG Reduction Measures Required for Project
		designed to reduce waste energy; have a minimum efficiency of 60%; have NO_x emissions of no more than 0.07 pounds per megawatt-hour; be sized to meet eligible customer generation thermal load; operate continuously in a manner that meets expected thermal load and optimizes efficient use of waste heat; and be cost effective, technologically feasible, and environmentally beneficial.
Vehicular/Mobile Sources		
General	SB 375 and SJCOG RTP/SCS	The project complies with, and is subject to, the SJCOG adopted RTP/SCS in 2018.
Fuel	Low Carbon Fuel Standard (LCFS)/ EO S-01-07	Auto trips associated with the project will be subject to LCFS (EO S-01-07), which requires a 10% or greater reduction in the average fuel carbon intensity by 2020 with a 2010 baseline for transportation fuels in California regulated by CARB. The program establishes a strong framework to promote the low carbon fuel adoption necessary to achieve the Governor's 2030 and 2050 GHG goals.
	Cap-and-Trade Program	Use of gasoline associated with the project will be subject to the Cap-and-Trade Program. The rules came into effect on January 1, 2013, applying to large electric power plants and large industrial plants. In 2015, importers and distributors of fossil fuels were added to the Cap-and-Trade Program in the second phase. Specifically, on January 1, 2015, cap-and-trade compliance obligations were phased in for suppliers of natural gas, RBOB, distillate fuel oils, and liquefied petroleum gas that meet or exceed specified emissions thresholds. The threshold that triggers a cap-and-trade compliance obligation for a fuel supplier is 25,000 MT or more of CO_2e annually from the GHG emissions that would result from full combustion or oxidation of quantities of fuels (including natural gas, RBOB, distillate fuel oil, liquefied petroleum gas, and blended fuels that contain these fuels) imported and/or delivered to California.
Automotive Refrigerants	CARB Regulation for Small Containers of Automotive Refrigerant	Vehicles associated with the project will be subject to CARB's Regulation for Small Containers of Automotive Refrigerant. (CCR, Title 17, Division 3, Chapter 1, Subchapter 10, Article 4, Subarticle 5, Section 95360 et seq.) The regulation applies to the sale, use, and disposal of small containers of automotive refrigerant with a GWP greater than 150. The regulation achieves emission reductions through implementation of four requirements: 1) use of a self-sealing valve on the container, 2) improved labeling instructions, 3) a deposit and recycling program for small containers, and 4) an education program that emphasizes best practices for vehicle recharging. This regulation went into effect on January 1, 2010 with a one-year sell-through period for containers manufactured before January 1, 2010. The target recycle rate is initially set at 90%, and rises to 95% beginning January 1, 2012.

Table 19. Applicable Greenhouse Gas-Related Laws and Regulations

Project Component	Applicable Laws/ Regulations	GHG Reduction Measures Required for Project
Light-Duty Vehicles	AB 1493 (or the Pavley Standard)	Cars that drive to and from the project will be subject to AB 1493, which directed CARB to adopt a regulation requiring the maximum feasible and cost-effective reduction of GHG emissions from new passenger vehicles. Pursuant to AB 1493, CARB adopted regulations that establish a declining fleet average standard for CO_2, CH_4, N_2O, and HFCs (air conditioner refrigerants) in new passenger vehicles and light-duty trucks beginning with the 2009 model year and phased-in through the 2016 model year. These standards are divided into those applicable to lighter and those applicable to heavier portions of the passenger vehicle fleet. The regulations will reduce "upstream" smog-forming emissions from refining, marketing, and distribution of fuel.
	Advanced Clean Car and ZEV Programs	Cars that drive to and from the project will be subject to the Advanced Clean Car and ZEV Programs. In January 2012, CARB approved a new emissions-control program for model years 2017 through 2025. The program combines the control of smog, soot and global warming gases and requirements for greater numbers of zero-emission vehicles into a single package of standards called Advanced Clean Cars. By 2025, new automobiles will emit 34% fewer global warming gases and 75% fewer smog-forming emissions. The ZEV program will act as the focused technology of the Advanced Clean Cars program by requiring manufacturers to produce increasing numbers of ZEVs and plug-in hybrid electric vehicles in the 2018-2025 model years.
	Tire Inflation Regulation	Cars that drive to and from the project will be subject to the CARB Tire Inflation Regulation, which took effect on September 1, 2010, and applies to vehicles with a gross vehicle weight rating of 10,000 pounds or less. Under this regulation, automotive service providers must, inter alia, check and inflate each vehicle's tires to the recommended tire pressure rating, with air or nitrogen, as appropriate, at the time of performing any automotive maintenance or repair service, and to keep a copy of the service invoice for a minimum of three years, and make the vehicle service invoice available to the CARB, or its authorized representative upon request.
	EPA and NHTSA GHG and CAFE standards.	Mobile sources that travel to and from the project would be subject to EPA and NHTSA GHG and CAFE standards for passenger cars, light-duty trucks, and medium-duty passenger vehicles. (75 FR 25324–25728 and 77 FR 62624–63200.)
Medium- and Heavy-Duty Vehicles	CARB In-Use On-Road Heavy-Duty Diesel Vehicles Regulation (Truck and Bus Regulation)	Any heavy-duty trucks associated with the project will be subject to CARB standards. The regulation requires diesel trucks and buses that operate in California to be upgraded to reduce emissions. Newer heavier trucks and buses must meet PM filter requirements. Lighter and older heavier trucks must be replaced starting January 1, 2015. By January 1, 2023, nearly all trucks and buses will need to have 2010 model year engines

Table 19. Applicable Greenhouse Gas-Related Laws and Regulations

Project Component	Applicable Laws/ Regulations	GHG Reduction Measures Required for Project
		or equivalent. The regulation applies to nearly all privately and federally owned diesel fueled trucks and buses and to privately and publicly owned school buses with a gross vehicle weight rating greater than 14,000 pounds.
	CARB In-Use Off-Road Diesel Vehicle Regulation	Any relevant vehicle or machine use associated with the project will be subject to CARB standards. The CARB In-Use-Off-Road Diesel Vehicle Regulation applies to certain off-road diesel engines, vehicles, or equipment greater than 25 horsepower. The regulations: 1) imposes limits on idling, requires a written idling policy, and requires a disclosure when selling vehicles; 2) requires all vehicles to be reported to CARB (using the Diesel Off-Road Online Reporting System) and labeled; 3) restricts the adding of older vehicles into fleets starting on January 1, 2014; and 4) requires fleets to reduce their emissions by retiring, replacing, or repowering older engines, or installing Verified Diesel Emission Control Strategies (i.e., exhaust retrofits). The requirements and compliance dates of the Off-Road regulation vary by fleet size, as defined by the regulation.
	Heavy-Duty Vehicle GHG Emission Reduction Regulation	Any relevant vehicle or machine use associated with the project will be subject to CARB standards. The CARB Heavy-Duty Vehicle GHG Emission Reduction Regulation applies to heavy-duty tractors that pull 53-foot or longer box-type trailers. (CCR, Title 17, Division 3, Chapter 1, Subchapter 10, Article 4, Subarticle 1, Section 95300 et seq.) Fuel efficiency is improved through improvements in tractor and trailer aerodynamics and the use of low rolling resistance tires.
	EPA and NHTSA GHG and CAFE standards.	Mobile sources that travel to and from the project would be subject to EPA and NHTSA GHG and CAFE standards for medium- and heavy-duty vehicles. (76 FR 57106–57513.)
Water Use		
Water Use Efficiency	Emergency State Water Board Regulations	Water use associated with the project will be subject to emergency regulations. On May 18, 2016, partially in response to EO B-27-16, the State Water Board adopted emergency water use regulations (CCR, title 23, Section 864.5 and amended and re-adopted Sections 863, 864, 865, and 866). The regulation directs the State Water Board, Department of Water Resources, and CPUC to implement rates and pricing structures to incentivize water conservation, and calls upon water suppliers, homeowners' associations, California businesses, landlords and tenants, and wholesale water agencies to take stronger conservation measures.
	EO B-37-16	Water use associated with the project will be subject to Emergency EO B-37-16, issued May 9, 2016, which directs the State Water Resources Control Board to adjust emergency water conservation regulations through the end of January, 2017 to reflect differing water supply conditions across the state.

Table 19. Applicable Greenhouse Gas-Related Laws and Regulations

Project Component	Applicable Laws/ Regulations	GHG Reduction Measures Required for Project
		The Water Board must also develop a proposal to achieve a mandatory reduction of potable urban water usage that builds off the mandatory 25% reduction called for in EO B-29-15. The Water Board and Department of Water Resources will develop new, permanent water use targets to which the project will be subject. The Water Board will permanently prohibit water-wasting practices such as hosing off sidewalks, driveways, and other hardscapes; washing automobiles with hoses not equipped with a shut-off nozzle; using non-recirculated water in a fountain or other decorative water feature; watering lawns in a manner that causes runoff, or within 48 hours after measurable precipitation; and irrigating ornamental turf on public street medians.
	EO B-40-17	EO B-40-17 lifted the drought emergency in all California counties except Fresno, Kings, Tulare, and Tuolumne. It also rescinds EO B-29-15, but expressly states that EO B-37-16 remains in effect and directs the State Water Resources Control Board to continue development of permanent prohibitions on wasteful water use to which the project will be subject.
	SB X7-7	Water provided to the project will be affected by SB X7-7's requirements for water suppliers. SB X7-7, or the Water Conservation Act of 2009, requires all water suppliers to increase water use efficiency. It also requires, among other things, that the Department of Water Resources, in consultation with other state agencies, develop a single standardized water use reporting form, which would be used by both urban and agricultural water agencies.
	CALGreen Code	The project is subject to CALGreen Code's water efficiency standards, including a required 20% mandatory reduction in indoor water use. (CALGreen Code, Division 4.3.)
	California Water Code, Division 6, Part 2.10, Sections 10910–10915.	Development and approval of the project requires the development of a project-specific Water Supply Assessment.
	Cap-and-Trade Program	The project proposes utilization of a private well for water and an on-site septic system for sewage disposal. Thus, the Cap-and-Trade Program does not apply to the project.
	California RPS (SB X1-2, SB 350, SB 100)	Electricity usage associated with water and wastewater supply, treatment and distribution associated with the project will be required to comply with RPS set by SB X1-2, SB 350, and SB 100.

Notes: AB = Assembly Bill; CARB = California Air Resources Board; CEC = California Energy Commission; CFC = chlorofluorocarbon; CH_4 = methane; CO_2 = carbon dioxide; CO_2e = carbon dioxide equivalent; CPUC = California Public Utilities Commission; EO = Executive Order; EPA = Environmental Protection Agency; GHG = greenhouse gas; GWP = global warming potential; HCFC = hydrochlorofluorocarbon; HFC = hydrofluorocarbon; gpm = gallons per minute; MT = metric tons; N_2O = nitrous oxide; NHTSA = National Highway Traffic Safety Administration; PM = particulate matter; RPS = Renewable Portfolio Standard; RTP/SCS = Regional Transportation Plan/Sustainable Communities Strategy; SB = Senate Bill; SJCOG = San Joaquin Council of Governments; VOC = volatile organic compound; ZEV = zero emission vehicle.

As shown in Table 19, the project would be required to comply with the various GHG-reducing regulations.

Project Consistency with the County's General Plan

The County's General Plan includes various goals and policies that promote the use of clean and renewable energy sources, reduce waste, conserve water, and promote the efficient and sustainable use of energy. The Community Development, Public Facilities and Services, Public Health and Safety, and Natural and Cultural Resources Elements include goals and policies that result in benefits with reducing GHG emissions. Table 20 summarizes the project's consistency with the County's policies.

Table 20. Consistency with County of San Joaquin's 2035 General Plan Policies

General Plan Policies	Project Consistency
LU-1.6: New Employment-Generating Uses. The County shall direct new employment-generating uses to locate within Urban and Rural Communities and City Fringe Areas, at freeway interchanges, and in other areas designated for commercial or industrial development. The County may allow employment-generating uses in other unincorporated areas when development proposal demonstrate that the project will not conflict with adjacent uses and will provide: jobs to County residents; adequate infrastructure and services (i.e., water, sewer, drainage, and transportation); and positive tax benefits to the County.	*Consistent.* The project is an employment-generating land use located near I-205 and I-580 freeways and is designated for industrial development. The project would also provide additional employment opportunities in the County, which reduces vehicle miles traveled for residents who may otherwise be traveling outside the County for employment.
LU-2.2: Sustainable Building Practices. The County shall promote and, where appropriate, require sustainable building practices that incorporate a "whole system" approach to designing and constructing buildings that consume less energy, water, and other resources, facilitate natural ventilation, use daylight effectively, and are healthy, safe, comfortable, and durable.	*Consistent.* The project buildings would be designed to achieve a minimum LEED Certified goal identified by the LEED Green Building Rating System to conserve resources, including but not limited to energy and renewable resources, as detailed in **PDF-AQ/GHG-1**. Furthermore, implemented by **PDF-AQ/GHG-2**, the project would install 2%–3% skylights in warehouse buildings for natural lighting and to reduce electricity consumption from warehouse lighting.
ED-2.4: Green Economy: The County shall encourage the development and expansion of industries and businesses that rely on environmentally-sustainable products and services, such as renewable energy, green building, clean transportation, water conservation, waste management and recycling, and sustainable land management.	*Consistent.* The project buildings would be designed to achieve a minimum LEED Certified goal identified by the LEED Green Building Rating System to conserve resources, including but not limited to energy and renewable resources, as detailed in **PDF-AQ/GHG-1**. As implemented under **PDF-AQ/GHG-3** through **PDF-AQ/GHG-5**, the project would install conduit for future electric truck charging capabilities, install conduit for 33 future EV charging spaces, and designate 21 parking space for clean air/EV/vanpool parking.
TM-6.7: Bicycle Amenities. The County shall encourage new large employers to provide bicycle racks.	*Consistent.* The project would comply with the current California Green Building Standards Code and install short-term and long-term bicycle parking.
PHS-5.14: Energy Consumption Reduction. The County shall encourage new development to incorporate green building practices and reduce air quality impacts from energy consumption.	*Consistent.* The project buildings would be designed to achieve a minimum LEED Certified goal identified by the LEED Green Building Rating System to conserve resources, including but not limited to energy and renewable resources, as detailed in **PDF-AQ/GHG-1**. Furthermore, implemented by **PDF-AQ/GHG-2**, the project would install 2%–3% skylights in warehouse buildings for natural lighting and to reduce electricity consumption from warehouse lighting.

Table 20. Consistency with County of San Joaquin's 2035 General Plan Policies

General Plan Policies	Project Consistency
PHS-6.6: Business-related GHG Reduction Strategies. The County shall encourage all businesses to help reduce GHG emissions by: replacing high mileage fleet vehicles with more efficient and/or alternative fuel vehicles; increasing the energy efficiency of facilities; transitioning toward the use of renewable energy instead of non-renewable energy sources; adopting purchasing practices that promote emissions reductions and reusable materials; and increasing recycling.	*Consistent.* The project buildings would be designed to achieve a minimum LEED Certified goal identified by the LEED Green Building Rating System to conserve resources, including but not limited to energy and renewable resources, as detailed in **PDF-AQ/GHG-1**. Furthermore, as implemented by **PDF-AQ/GHG-2**, the project would install 2%–3% skylights in warehouse buildings for natural lighting and to reduce electricity consumption from warehouse lighting. During both construction and operation of the project, the project would comply with all state regulations related to solid waste generation, storage, and disposal, including the California Integrated Waste Management Act, as amended. During construction, all wastes would be recycled to the maximum extent possible. As implemented under **PDF-AQ/GHG-3** through **PDF-AQ/GHG-5**, the project would install conduit for future electric truck charging capabilities, install conduit for 33 future EV charging spaces, and designate 21 parking space for clean air/EV/vanpool parking.
PHS-6.7: New Development. The County shall require new development to incorporate all feasible mitigation measures to reduce construction and operational GHG emissions.	*Consistent.* The project buildings would be designed to achieve a minimum LEED Certified goal identified by the LEED Green Building Rating System to conserve resources, including but not limited to energy and renewable resources, as detailed in **PDF-AQ/GHG-1**. Furthermore, as implemented by **PDF-AQ/GHG-2**, the project would install 2%–3% skylights in warehouse buildings for natural lighting and to reduce electricity consumption from warehouse lighting.
NCR-5.11: Green Building Practices. The County shall encourage green building practices in new construction.	*Consistent.* The project buildings would be designed to achieve a minimum LEED Certified goal identified by the LEED Green Building Rating System to conserve resources, including but not limited to energy and renewable resources, as detailed in **PDF-AQ/GHG-1**. Furthermore, as implemented by **PDF-AQ/GHG-2**, the project would install 2%–3% skylights in warehouse buildings for natural lighting and to reduce electricity consumption from warehouse lighting.
NCR-5.14: Natural Daylighting in Commercial Operations. The County shall encourage commercial and employment operations to incorporate natural daylighting by the use of windows and skylights to reduce energy demand for lighting.	*Consistent.* The project buildings would be designed to achieve a minimum LEED Certified goal identified by the LEED Green Building Rating System to conserve resources, including but not limited to energy and renewable resources, as detailed in **PDF-AQ/GHG-1**. Furthermore, as implemented by **PDF-AQ/GHG-2**, the project would install 2%–3% skylights in warehouse buildings for natural lighting and to reduce electricity consumption from warehouse lighting.

Source: County of San Joaquin 2016.
Notes: County = County of San Joaquin; EV = electric vehicle; GHG = greenhouse gas; LEED = Leadership in Energy and Environmental Design.

As discussed in Table 20, the project would be consistent with the County's General Plan Policies.

Project Consistency with CARB's Scoping Plan

The Scoping Plan, approved by CARB in 2008 and updated in 2014 and 2017, provides a framework for actions to reduce California's GHG emissions and requires CARB and other state agencies to adopt regulations and other initiatives to reduce GHGs. As such, the Scoping Plan is not directly applicable to specific projects, nor is it intended to be used for project-level evaluations.[16] Under the Scoping Plan, however, there are several state regulatory measures aimed at the identification and reduction of GHG emissions. CARB and other state agencies have adopted many of the measures identified in the Scoping Plan. Most of these measures focus on area source emissions (e.g., energy usage, high-GWP GHGs in consumer products) and changes to the vehicle fleet (i.e., hybrid, electric, and more fuel-efficient vehicles) and associated fuels (e.g., Low-Carbon Fuel Standard), among others. The project would comply with all applicable regulations adopted in furtherance of the Scoping Plan to the extent required by law.

The Scoping Plan recommends strategies for implementation at the statewide level to meet the goals of AB 32 and establishes an overall framework for the measures that will be adopted to reduce California's GHG emissions. Table 21 highlights measures that have been developed under the 2030 Scoping Plan and the project's consistency with those measures. Table 21 also includes measures recommended in the 2030 Scoping Plan. To the extent that these regulations are applicable to the project, its inhabitants, or uses, the project would comply with all applicable regulations adopted in furtherance of the Scoping Plan.

Table 21. Project Consistency with 2030 Scoping Plan GHG Emission-Reduction Strategies

Scoping Plan Measure	Measure Number	Project Consistency
Transportation Sector		
Advanced Clean Cars	T-1	*Consistent.* The project's employees would purchase vehicles in compliance with CARB vehicle standards that are in effect at the time of vehicle purchase.
1.5 million zero-emission and plug-in hybrid light-duty electric vehicles by 2025 (4.2 million Zero-Emissions Vehicles by 2030)	Recommended	*Consistent.* Implemented by **PDF-AQ/GHG-4**, the project would install conduit for 33 future EV charging stations (6% of parking spaces) in accordance with CALGreen standards.
Low Carbon Fuel Standard	T-2	*Consistent.* Motor vehicles driven by the project's employees would use compliant fuels.
Low Carbon Fuel Standard (18% reduction in carbon intensity by 2030)	Recommended	*Consistent.* Motor vehicles driven by the project's employees would use compliant fuels.
Regional Transportation-Related GHG Targets	T-3	*Consistent.* Implemented by **PDF-AQ-GHG-3** through **PDF-AQ/GHG-5**, the project would install conduit for future electric truck charging capabilities, install conduit for 33 future EV charging stations, and designate 21 parking spaces for clean air/EV/vanpool parking to encourage use of alternative forms of transportation.

[16] The Final Statement of Reasons for the amendments to the State CEQA Guidelines reiterates the statement in the Initial Statement of Reasons that "[t]he Scoping Plan may not be appropriate for use in determining the significance of individual projects because it is conceptual at this stage and relies on the future development of regulations to implement the strategies identified in the Scoping Plan" (CNRA 2009a).

Table 21. Project Consistency with 2030 Scoping Plan GHG Emission-Reduction Strategies

Scoping Plan Measure	Measure Number	Project Consistency
Advanced Clean Transit	Recommended	*Not applicable.* This measure does not apply to the project. The project would not inhibit CARB from implementing this Scoping Plan Measure.
Last Mile Delivery	Recommended	*Not applicable.* This measure does not apply to the project. The project would not inhibit CARB from implementing this Scoping Plan Measure.
Reduction in Vehicle Miles Traveled	Recommended	*Not applicable.* The project would not prevent CARB from implementing this measure.
Vehicle Efficiency Measures 1. Tire Pressure 2. Fuel Efficiency Tire Program 3. Low-Friction Oil 4. Solar-Reflective Automotive Paint and Window Glazing	T-4	*Consistent.* These standards would be applicable to the light-duty vehicles that would access the project site. Motor vehicles driven by the project's employees would maintain proper tire pressure when their vehicles are serviced. The project's employees would replace tires in compliance with CARB vehicle standards that are in effect at the time of vehicle purchase. Motor vehicles driven by the project's employees would use low-friction oils when their vehicles are serviced. The project's employees would purchase vehicles in compliance with CARB vehicle standards that are in effect at the time of vehicle purchase. In addition, the project would not prevent CARB from implementing this measure.
Ship Electrification at Ports (Shore Power)	T-5	*Not applicable.* This measure does not apply to the project. The project would not inhibit CARB from implementing this Scoping Plan Measure.
Goods Movement Efficiency Measures 1. Port Drayage Trucks 2. Transport Refrigeration Units Cold Storage Prohibition 3. Cargo Handling Equipment, Anti-Idling, Hybrid, Electrification 4. Goods Movement Systemwide Efficiency Improvements 5. Commercial Harbor Craft Maintenance and Design Efficiency 6. Clean Ships 7. Vessel Speed Reduction	T-6	*Consistent.* The project would support applicable efficiency measures within this scoping plan measure including increasing efficiency of goods movement.
California Sustainable Freight Action Plan	Recommended	*Consistent*. The project would support applicable efficiency measures within this scoping plan measure including increasing efficiency of goods movement. The project would not inhibit CARB from implementing this Scoping Plan Measure.

Table 21. Project Consistency with 2030 Scoping Plan GHG Emission-Reduction Strategies

Scoping Plan Measure	Measure Number	Project Consistency
Heavy-Duty Vehicle GHG Emission Reduction 1. Tractor-Trailer GHG Regulation 2. Heavy-Duty Greenhouse Gas Standards for New Vehicle and Engines (Phase I)	T-7	*Consistent.* Heavy-duty vehicles would be required to comply with CARB GHG reduction measures. In addition, the project would not prevent CARB from implementing this measure.
Medium- and Heavy-Duty Vehicle Hybridization Voucher Incentive Project	T-8	*Consistent.* The project medium- and heavy-duty vehicles (e.g., delivery trucks) could take advantage of the vehicle hybridization action, which would reduce GHG emissions through increased fuel efficiency. In addition, the project would not prevent CARB from implementing this measure.
Medium and Heavy-Duty GHG Phase 2	Recommended	*Not applicable.* This measure does not apply to the project. The project would not inhibit CARB from implementing this Scoping Plan Measure.
High-Speed Rail	T-9	*Not applicable.* This measure does not apply to the project. The project would not inhibit CARB from implementing this Scoping Plan Measure.
Electricity and Natural Gas Sector		
Energy Efficiency Measures (Electricity)	E-1	*Consistent.* The project will comply with current Title 24, Part 6, of the California Code of Regulations energy efficiency standards for electrical appliances and other devices at the time of building construction.
Energy Efficiency (Natural Gas)	CR-1	*Consistent.* The project will comply with current Title 24, Part 6, of the California Code of Regulations energy efficiency standards for electrical appliances and other devices at the time of building construction.
Solar Water Heating (California Solar Initiative Thermal Program)	CR-2	*Not applicable.* The project would not prevent CARB from implementing this measure.
Combined Heat and Power	E-2	*Not applicable.* This measure does not apply to the project. The project would not inhibit CARB from implementing this Scoping Plan Measure.
Renewable Portfolios Standard (33% by 2020)	E-3	*Consistent.* The electricity used by the project would benefit from reduced GHG emissions resulting from increased use of renewable energy sources.
Renewable Portfolios Standard (50% by 2050)	Recommended	*Consistent.* The electricity used by the project would benefit from reduced GHG emissions resulting from increased use of renewable energy sources.
Senate Bill 1 Million Solar Roofs (California Solar Initiative, New Solar Home Partnership, Public Utility Programs) and Earlier Solar Programs	E-4	*Not applicable.* The project would not prevent CARB from implementing this measure.

Table 21. Project Consistency with 2030 Scoping Plan GHG Emission-Reduction Strategies

Scoping Plan Measure	Measure Number	Project Consistency
Water Sector		
Water Use Efficiency	W-1	*Consistent.* As implemented by **PDF-AQ/GHG-1**, The project would be designed at a minimum to meet LEED Certified rating, which would conserve water resources. The project would not prevent CARB from implementing this measure.
Water Recycling	W-2	*Not applicable.* Recycled water is not available to the project site. The project would not prevent CARB from implementing this measure.
Water System Energy Efficiency	W-3	*Not applicable.* This is applicable for the transmission and treatment of water, but it is not applicable for the project.
Reuse Urban Runoff	W-4	*Not applicable.* The reuse of urban water on site was determined to not be feasible. The project would not prevent CARB from implementing this measure.
Renewable Energy Production	W-5	*Not applicable.* Applicable for wastewater treatment systems. Not applicable for the project.
Green Buildings		
State Green Building Initiative: Leading the Way with State Buildings (Greening New and Existing State Buildings)	GB-1	*Consistent.* The project would be required to be constructed in compliance with state or local green building standards in effect at the time of building construction. As implemented by **PDF-AQ/GHG-1**, The project would be designed at a minimum to meet LEED Certified rating, which would conserve water resources. Furthermore, implemented by **PDF-AQ/GHG-2**, the project would install 2%–3% skylights in warehouse buildings for natural lighting and to reduce electricity consumption from warehouse lighting.
Green Building Standards Code (Greening New Public Schools, Residential and Commercial Buildings)	GB-2	*Consistent.* The project's buildings would meet green building standards that are in effect at the time of construction. As implemented by **PDF-AQ/GHG-1**, The project would be designed at a minimum to meet LEED Certified rating, which would conserve water resources. Furthermore, implemented by **PDF-AQ/GHG-2**, the project would install 2%–3% skylights in warehouse buildings for natural lighting and to reduce electricity consumption from warehouse lighting.
Beyond Code: Voluntary Programs at the Local Level (Greening New Public Schools, Residential and Commercial Buildings)	GB-3	*Consistent.* The project would be required to be constructed in compliance with local green building standards in effect at the time of building construction. As implemented by **PDF-AQ/GHG-1**, The project would be designed at a minimum to meet LEED Certified rating, which would conserve water resources. Furthermore, implemented by **PDF-AQ/GHG-2**, the project would install 2%–3% skylights in warehouse buildings for natural lighting and to reduce electricity consumption from warehouse lighting.

Table 21. Project Consistency with 2030 Scoping Plan GHG Emission-Reduction Strategies

Scoping Plan Measure	Measure Number	Project Consistency
Greening Existing Buildings (Greening Existing Homes and Commercial Buildings)	GB-4	*Not applicable.* This measure does not apply to the project. The project would not inhibit CARB from implementing this Scoping Plan Measure. As implemented by **PDF-AQ/GHG-1**, The project would be designed at a minimum to meet LEED Certified rating, which would conserve water resources. Furthermore, implemented by **PDF-AQ/GHG-2**, the project would install 2%–3% skylights in warehouse buildings for natural lighting and to reduce electricity consumption from warehouse lighting.
Industry Sector		
Energy Efficiency and Co-Benefits Audits for Large Industrial Sources	I-1	*Not applicable.* This measure does not apply to the project. The project would not inhibit CARB from implementing this Scoping Plan Measure.
Oil and Gas Extraction GHG Emission Reduction	I-2	*Not applicable.* This measure does not apply to the project. The project would not inhibit CARB from implementing this Scoping Plan Measure.
Reduce GHG Emissions by 20% in Oil Refinery Sector	Recommended	*Not applicable.* This measure does not apply to the project. The project would not inhibit CARB from implementing this Scoping Plan Measure.
GHG Emissions Reduction from Natural Gas Transmission and Distribution	I-3	*Not applicable.* This measure does not apply to the project. The project would not inhibit CARB from implementing this Scoping Plan Measure.
Refinery Flare Recovery Process Improvements	I-4	*Not applicable.* This measure does not apply to the project. The project would not inhibit CARB from implementing this Scoping Plan Measure.
Work with the local air districts to evaluate amendments to their existing leak detection and repair rules for industrial facilities to include methane leaks	I-5	*Not applicable.* This measure does not apply to the project. The project would not inhibit CARB from implementing this Scoping Plan Measure.
Recycling and Waste Management Sector		
Landfill Methane Control Measure	RW-1	*Not applicable.* This measure does not apply to the project. The project would not inhibit CARB from implementing this Scoping Plan Measure.
Increasing the Efficiency of Landfill Methane Capture	RW-2	*Not applicable.* This measure does not apply to the project. The project would not inhibit CARB from implementing this Scoping Plan Measure.
Mandatory Commercial Recycling	RW-3	*Consistent.* During both construction and operation of the project, the project would comply with all state regulations related to solid waste generation, storage, and disposal, including the California Integrated Waste Management Act, as amended. During construction, all wastes would be recycled to the maximum extent possible.

Table 21. Project Consistency with 2030 Scoping Plan GHG Emission-Reduction Strategies

Scoping Plan Measure	Measure Number	Project Consistency
Increase Production and Markets for Compost and Other Organics	RW-4	*Not applicable.* This measure does not apply to the project. The project would not inhibit CARB from implementing this Scoping Plan Measure.
Anaerobic/Aerobic Digestion	RW-5	*Not applicable.* This measure does not apply to the project. The project would not inhibit CARB from implementing this Scoping Plan Measure.
Extended Producer Responsibility	RW-6	*Not applicable.* This measure does not apply to the project. The project would not inhibit CARB from implementing this Scoping Plan Measure.
Environmentally Preferable Purchasing	RW-7	*Not applicable.* This measure does not apply to the project. The project would not inhibit CARB from implementing this Scoping Plan Measure.
Forests Sector		
Sustainable Forest Target	F-1	*Not applicable.* This measure does not apply to the project. The project would not inhibit CARB from implementing this Scoping Plan Measure.
High Global Warming Potential Gases Sector		
Motor Vehicle Air Conditioning Systems: Reduction of Refrigerant Emissions from Non-Professional Servicing	H-1	*Not applicable.* This measure does not apply to the project. The project would not inhibit CARB from implementing this Scoping Plan Measure.
SF_6 Limits in Non-Utility and Non-Semiconductor Applications	H-2	*Not applicable.* This measure does not apply to the project. The project would not inhibit CARB from implementing this Scoping Plan Measure.
Reduction of Perfluorocarbons in Semiconductor Manufacturing	H-3	*Not applicable.* This measure does not apply to the project. The project would not inhibit CARB from implementing this Scoping Plan Measure.
Limit High Global Warming Potential Use in Consumer Products	H-4	*Consistent.* The project's employees would use consumer products that would comply with the regulations that are in effect at the time of manufacture.
Air Conditioning Refrigerant Leak Test During Vehicle Smog Check	H-5	*Not applicable.* This measure does not apply to the project. The project would not inhibit CARB from implementing this Scoping Plan Measure.
Stationary Equipment Refrigerant Management Program – Refrigerant Tracking/Reporting/Repair Program	H-6	*Not applicable.* This measure does not apply to the project. The project would not inhibit CARB from implementing this Scoping Plan Measure.
Stationary Equipment Refrigerant Management Program – Specifications for Commercial and Industrial Refrigeration	H-6	*Not applicable.* This measure does not apply to the project. The project would not inhibit CARB from implementing this Scoping Plan Measure.
SF_6 Leak Reduction Gas Insulated Switchgear	H-6	*Not applicable.* This measure does not apply to the project. The project would not inhibit CARB from implementing this Scoping Plan Measure.
40% reduction in methane and hydrofluorocarbon emissions	Recommended	*Not applicable.* This measure does not apply to the project. The project would not inhibit CARB from implementing this Scoping Plan Measure.

Table 21. Project Consistency with 2030 Scoping Plan GHG Emission-Reduction Strategies

Scoping Plan Measure	Measure Number	Project Consistency
50% reduction in black carbon emissions	Recommended	*Not applicable.* This measure does not apply to the project. The project would not inhibit CARB from implementing this Scoping Plan Measure.
Agriculture Sector		
Methane Capture at Large Dairies	A-1	*Not applicable.* This measure does not apply to the project. The project would not inhibit CARB from implementing this Scoping Plan Measure.

Source: CARB 2008, 2017b.
Notes: CARB = California Air Resources Board; EV = electric vehicle; GHG = greenhouse gas; project = 14800 W. Schulte Road Logistics Center Project; SF_6 = sulfur hexafluoride.

Based on the analysis in Table 21, the project would be consistent with the applicable strategies and measures in the Scoping Plan.

Project Consistency with San Joaquin Council of Government's Regional Transportation Plan/Sustainable Communities Strategy

SJCOG's 2018 RTP/SCS is a regional growth-management strategy that targets per capita GHG reduction from passenger vehicles and light-duty trucks in the San Joaquin region pursuant to SB 375. In addition to demonstrating the region's ability to attain and exceed the GHG emission-reduction targets set forth by CARB, the 2018 RTP/SCS outlines a series of policies and strategies to help balance investments that maintain the roadway system, enhance safety and provide congestion relief, and integrate technological advances as part of the transportation solution. Thus, successful implementation of the 2018 RTP/SCS would result in GHG emission reductions, reduce potential impact on the environment, facilitate efficient public investments, maximize mobility and accessibility, support economic vitality, improve public health, and build on active transportation. The 2018 RTP/SCS incorporates local land use projections and circulation networks in city and county general plans. The County's General Plan Land Use Map designates the project site as General Industrial (I/G) and the County's Zoning Map identifies the site as General Industrial (I-G); thus, the project would be consistent with the current zoning and land use designation.

The SJCOG 2018 RTP/SCS provides employee estimates for the years 2015 and 2045. To provide an interim year comparison, this analysis interpolates the region's projected employee population in the project's operational year (2022) based on the average growth rate to compare with the estimated increase in employees generated by the project. The SJCOG 2018 RTP/SCS estimates that the region's employee population will increase approximately 23% between 2015 and 2045. Regarding households, the SJCOG 2018 RTP/SCS estimates that the region's total households will increase approximately 44% between 2015 and 2045. It is anticipated that the project would potentially add 555 full-time employees, which would not exceed the interpolated annual growth rate of 2,261 employees a year for the region. Based on these considerations, vehicle trip generation and planned development for the site are concluded to have been anticipated in the SJCOG growth projections because the land use designation and zoning would remain the same (i.e., General Industrial). Therefore, the addition of project-generated employees to the region's estimated employee population would not exceed the SJCOG 2018 RTP/SCS forecasted employment population.

Table 22 summarizes the project's consistency with the SJCOG's 2018 RTP/SCS policies and supportive strategies.

Table 22. Project Consistency with SJCOG's 2018 RTP/SCS Policies and Supportive Strategies

2018 RTP/SCS Supportive Strategies	Strategy Number	Project Consistency
Policy: Enhance the Environment for Existing and Future Generations and Conserve Energy		
Encourage efficient development patterns that maintain agricultural viability with natural resources	1	*No conflict. T*he project would not prevent SJCOG from implementing this strategy.
Enhance the connection between land use and transportation choices through projects supporting energy and water efficiency	2	*Consistent.* The project will comply with current Title 24, Part 6, of the California Code of Regulations energy efficiency standards for electrical appliances and other devices at the time of building construction. As implemented by **PDF-AQ/GHG-1**, The project would be designed at a minimum to meet LEED Certified rating, which would conserve water resources. Furthermore, as implemented by **PDF-AQ/GHG-2**, the project would install 2%–3% skylights in warehouse buildings for natural lighting and to reduce electricity consumption from warehouse lighting. Implemented by **PDF-AQ-GHG-3** through **PDF-AQ/GHG-5**, the project would install conduit for future electric truck charging capabilities, install conduit for 33 future EV charging stations, and designate 21 parking spaces for clean air/EV/vanpool parking to encourage use of alternative forms of transportation.
Improve air quality by reducing transportation-related emissions	3	*Consistent.* The project would result in criteria air pollutant and GHG emissions as a result of operation-generated mobile emissions. However, as implemented by **PDF-AQ-GHG-3** through **PDF-AQ/GHG-5**, the project would install conduit for future electric truck charging capabilities, install conduit for 33 future EV charging stations, and designate 21 parking spaces for clean air/EV/vanpool parking to encourage use of alternative forms of transportation. Furthermore, the project would provide a regional hub for goods movement connecting with the arterial goods distribution system.
Policy: Maximize Mobility and Accessibility		
Improve regional transportation system efficiency	4	*No conflict.* The project would not prevent SJCOG from implementing this strategy.
Optimize public transportation system to provide efficient and convenient access for users at all income levels	5	*No conflict.* The project would not prevent SJCOG from implementing this strategy.
Facilitate transit-oriented development to maximize existing transit investments	6	*No conflict.* The project would not prevent SJCOG from implementing this strategy.
Provide transportation improvements to facilitate non-motorized travel, including incorporation of complete streets elements as appropriate	7	*No conflict.* The project would not prevent SJCOG from implementing this strategy.
Improve major transportation corridors to minimize impacts on rural roads	8	*No conflict.* The project would not prevent SJCOG from implementing this strategy.

Table 22. Project Consistency with SJCOG's 2018 RTP/SCS Policies and Supportive Strategies

2018 RTP/SCS Supportive Strategies	Strategy Number	Project Consistency
Policy: Increase Safety and Security		
Facilitate projects that reduce the number of and severity of traffic incidents	9	*No conflict.* The project would not prevent SJCOG from implementing this strategy.
Encourage and support projects that increase safety and security	10	*No conflict.* The project would not prevent SJCOG from implementing this strategy.
Improve communication and coordination between agencies and the public for emergency preparedness and support local and state efforts for transportation network resiliency, reliability, and climate adaptation	11	*No conflict.* The project would not prevent SJCOG from implementing this strategy.
Policy: Preserve the Efficiency of the Existing Transportation System		
Optimize existing transportation system capacity through available and/or innovative strategies	12	*No conflict.* The project would not prevent SJCOG from implementing this strategy.
Support the continued maintenance and preservation of the existing transportation system	13	*No conflict.* The project would not prevent SJCOG from implementing this strategy.
Encourage system efficiency with transportation improvements that facilitate improvements in the jobs/housing balance	14	*No conflict.* The project would not prevent SJCOG from implementing this strategy.
Improve transportation options linking residents to employment centers within and out of the County	15	*No conflict.* The project would not prevent SJCOG from implementing this strategy.
Policy: Support Economic Vitality		
Improve freight access to key strategic economic centers	16	*Consistent*. The project would provide a regional hub for goods movement connecting with the arterial goods distribution system.
Promote safe and efficient strategies to improve movement of goods by water, air, rail and truck	17	*Consistent.* Implemented by **PDF-AQ-GHG-3** through **PDF-AQ/GHG-5**, the project would install conduit for future electric truck charging capabilities, install conduit for 33 future EV charging stations, and designate 21 parking spaces for clean air/EV/vanpool parking to encourage use of alternative forms of transportation. The project would provide a regional hub for goods movement connecting with the arterial goods distribution system.
Support transportation improvements that improve economic competitiveness, revitalize commercial corridors and strategic economic centers, and enhance travel and tourism opportunities	18	*No conflict.* The project would not prevent SJCOG from implementing this strategy.

Table 22. Project Consistency with SJCOG's 2018 RTP/SCS Policies and Supportive Strategies

2018 RTP/SCS Supportive Strategies	Strategy Number	Project Consistency
Policy: Promote Interagency Coordination and Public Participation for Transportation Decision-Making and Planning Efforts		
Provide equitable access to transportation planning	19	*No conflict.* The project would not prevent SJCOG from implementing this strategy.
Engage in public early, clearly, and continuously	20	*No conflict.* The project would not prevent SJCOG from implementing this strategy.
Use a variety of methods to engage the public, encouraging representation from diverse income and ethnic backgrounds	21	*No conflict.* The project would not prevent SJCOG from implementing this strategy.
Policy: Maximize Cost-Effectiveness		
Support the use of state and federal grants to supplement local funding and pursue discretionary grant funding opportunities from outside the region	22	*No conflict.* The project would not prevent SJCOG from implementing this strategy.
Support projects that maximize cost effectiveness	23	*No conflict.* The project would not prevent SJCOG from implementing this strategy.
Maximize funding of existing transportation options	24	*No conflict.* The project would not prevent SJCOG from implementing this strategy.
Policy: Improve the Quality of Life for Residents		
Encourage transportation investments that support a greater mix of housing options at all income levels	25	*No conflict.* The project would not prevent SJCOG from implementing this strategy.
Improve the connection between land use and transportation	26	*No conflict.* The project would not prevent SJCOG from implementing this strategy.
Enhance public health through active transportation projects	27	*No conflict.* The project would not prevent SJCOG from implementing this strategy.

Source: SJCOG.
Notes: EV = electric vehicle; GHG = greenhouse gas; project = 14800 W. Schulte Road Logistics Center Project; SJCOG = San Joaquin Council of Governments; RTP/SCS = Regional Transportation Plan/Sustainable Communities Strategy

Based on the analysis in Table 22, the project would be consistent with the SJCOG 2018 RTP/SCS.

Project Consistency with Senate Bill 32 and Executive Order S-3-05

The project would not impede the attainment of the GHG reduction goals for 2030 or 2050 identified in EO S-3-05 and SB 32. As discussed in Section 3.2.2, EO S-3-05 establishes the following goals: GHG emissions should be reduced to 2000 levels by 2010, to 1990 levels by 2020, and to 80% below 1990 levels by 2050. SB 32 establishes for a statewide GHG emissions reduction target whereby CARB, in adopting rules and regulations to achieve the maximum technologically feasible and cost-effective GHG emissions reductions, shall ensure that statewide GHG emissions are reduced to at least 40% below 1990 levels by December 31, 2030. While there are no established protocols or thresholds of significance for that future year analysis, CARB forecasts that compliance with the current Scoping Plan puts the state on a trajectory of meeting these long-term GHG goals, although the specific path to compliance is unknown (CARB 2014).

CARB has expressed optimism with regard to both the 2030 and 2050 goals. It states in the First Update to the Climate Change Scoping Plan that "California is on track to meet the near-term 2020 GHG emissions limit and is well positioned to maintain and continue reductions beyond 2020 as required by AB 32" (CARB 2014). With regard to the 2050 target for reducing GHG emissions to 80% below 1990 levels, the First Update to the Climate Change Scoping Plan states the following (CARB 2014):

> This level of reduction is achievable in California. In fact, if California realizes the expected benefits of existing policy goals (such as 12,000 megawatts of renewable distributed generation by 2020, net zero energy homes after 2020, existing building retrofits under AB 758, and others) it could reduce emissions by 2030 to levels squarely in line with those needed in the developed world and to stay on track to reduce emissions to 80% below 1990 levels by 2050. Additional measures, including locally driven measures and those necessary to meet federal air quality standards in 2032, could lead to even greater emission reductions.

In other words, CARB believes that the state is on a trajectory to meet the 2030 and 2050 GHG reduction targets set forth in AB 32, SB 32, and EO S-3-05. This is confirmed in the 2030 Scoping Plan, which states (CARB 2017b):

> The Scoping Plan builds upon the successful framework established by the Initial Scoping Plan and First Update, while identifying new, technologically feasible, and cost-effective strategies to ensure that California meets its GHG reduction targets in a way that promotes and rewards innovation, continues to foster economic growth, and delivers improvements to the environment and public health, including in disadvantaged communities.

Conclusion

The project is consistent with the Scoping Plan, 2018 RTP/SCS, and County's General Plan, which all promote economic growth while achieving greater energy efficiency. The project would also be consistent with SJCOG's 2018 RTP/SCS, SB 32, and EO S-3-05 by being consistent with VMT reduction strategies and policies, increasing the use of alternative fueled vehicles, and implementing energy efficiency strategies. The project would not conflict with any plans adopted with the purpose of reducing GHG emissions; therefore, the project's impacts with respect to GHG emissions would be **less than significant**.

Mitigation Measures

No mitigation is required.

Level of Significance After Mitigation

Impacts would be less than significant without mitigation.

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4 References Cited

13 CCR 2025. Regulation to Reduce Emissions of Diesel Particulate Matter, Oxides of Nitrogen and Other Criteria Pollutants, from In-Use Heavy-Duty Diesel-Fueled Vehicles.

13 CCR 2449–2449.3 and Appendix A. General Requirements for In-Use Off-Road Diesel-Fueled Fleets.14 CCR 15000–15387 and Appendices A–L. Guidelines for Implementation of the California Environmental Quality Act, as amended.

14 CCR 15000–15387 and Appendices A–L. Guidelines for Implementation of the California Environmental Quality Act, as amended.

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5 List of Preparers

Samantha Wang, Air Quality Specialist
Jennifer Reed, Air Quality Services Manager

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Appendix A

CalEEMod Output Files

Schulte Unmit

San Joaquin County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	2.97	1000sqft	0.07	2,968.00	0
General Office Building	3.01	1000sqft	0.07	3,006.00	0
General Office Building	2.96	1000sqft	0.07	2,964.00	0
Unrefrigerated Warehouse-No Rail	278.93	1000sqft	6.40	278,927.00	0
Unrefrigerated Warehouse-No Rail	278.89	1000sqft	6.40	278,889.00	0
Unrefrigerated Warehouse-No Rail	163.52	1000sqft	3.75	163,523.00	0
Other Asphalt Surfaces	10.02	Acre	10.02	436,471.20	0
Parking Lot	526.00	Space	4.73	210,400.00	0
City Park	5.96	Acre	5.96	259,617.60	0

1.2 Other Project Characteristics

Urbanization	Rural	**Wind Speed (m/s)**	2.7	**Precipitation Freq (Days)**	51
Climate Zone	2			**Operational Year**	2022
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	206	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - RPS based on PG&E 2018 reported factor https://www.pgecorp.com/corp_responsibility/reports/2020/assets/PGE_CRSR_2020.pdf

Land Use - City park represents landscape and outdoor water use.

Construction Phase - Data provided by applicant.

Trips and VMT - Data provided by applicant.

Grading -

Architectural Coating - SJVAPCD Rule 4601 VOC limits

Vehicle Trips - Quantified in spreadsheet using EMFAC2017

Area Coating - SJVAPCD Rule 4601 VOC limits

Energy Use - Compliance with 2019 T24 10% electricity reduction, 1% NG reduction
Electricity use from water pump included

Water And Wastewater - Outdoor wateruse City Park land use represents landscaping. Project will be on 100% septic.
Water and wastewater would use onsite electric pump. Added to electricity use.

Construction Off-road Equipment Mitigation - Fugitive dust control measures

Operational Off-Road Equipment - .

Stationary Sources - Emergency Generators and Fire Pumps -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	100.00
tblArchitecturalCoating	EF_Nonresidential_Interior	150.00	50.00
tblArchitecturalCoating	EF_Parking	150.00	100.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	150	100
tblAreaCoating	Area_EF_Nonresidential_Interior	150	50
tblAreaCoating	Area_EF_Parking	150	100
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	30.00	11.00
tblConstructionPhase	NumDays	75.00	33.00
tblConstructionPhase	NumDays	55.00	64.00
tblConstructionPhase	NumDays	55.00	21.00

tblConstructionPhase	NumDays	740.00	151.00
tblEnergyUse	NT24E	1.77	1.85
tblEnergyUse	T24E	3.22	2.90
tblEnergyUse	T24E	0.50	0.45
tblEnergyUse	T24NG	15.99	15.83
tblEnergyUse	T24NG	6.11	6.05
tblLandUse	LandUseSquareFeet	2,960.00	2,964.00
tblLandUse	LandUseSquareFeet	2,970.00	2,968.00
tblLandUse	LandUseSquareFeet	3,010.00	3,006.00
tblLandUse	LandUseSquareFeet	163,520.00	163,523.00
tblLandUse	LandUseSquareFeet	278,890.00	278,889.00
tblLandUse	LandUseSquareFeet	278,930.00	278,927.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	206
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblTripsAndVMT	VendorTripNumber	0.00	8.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	268.00	20.00
tblTripsAndVMT	WorkerTripNumber	137.00	30.00
tblTripsAndVMT	WorkerTripNumber	15.00	16.00
tblTripsAndVMT	WorkerTripNumber	687.00	100.00
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tblVehicleTrips	ST_TR	2.46	0.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	SU_TR	1.05	0.00

tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	11.03	0.00
tblVehicleTrips	WD_TR	1.68	0.00
tblWater	AerobicPercent	87.46	0.00
tblWater	AerobicPercent	87.46	0.00
tblWater	AerobicPercent	87.46	0.00
tblWater	AerobicPercent	87.46	0.00
tblWater	AerobicPercent	87.46	0.00
tblWater	AnaDigestCombDigestGasPercent	100.00	0.00
tblWater	AnaDigestCombDigestGasPercent	100.00	0.00
tblWater	AnaDigestCombDigestGasPercent	100.00	0.00
tblWater	AnaDigestCombDigestGasPercent	100.00	0.00
tblWater	AnaDigestCombDigestGasPercent	100.00	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	ElectricityIntensityFactorForWastewaterTreatment	1,911.00	0.00
tblWater	ElectricityIntensityFactorForWastewaterTreatment	1,911.00	0.00
tblWater	ElectricityIntensityFactorForWastewaterTreatment	1,911.00	0.00
tblWater	ElectricityIntensityFactorForWastewaterTreatment	1,911.00	0.00
tblWater	ElectricityIntensityFactorForWastewaterTreatment	1,911.00	0.00
tblWater	ElectricityIntensityFactorToDistribute	1,272.00	0.00
tblWater	ElectricityIntensityFactorToDistribute	1,272.00	0.00

tblWater	ElectricityIntensityFactorToDistribute	1,272.00	0.00
tblWater	ElectricityIntensityFactorToDistribute	1,272.00	0.00
tblWater	ElectricityIntensityFactorToDistribute	1,272.00	0.00
tblWater	ElectricityIntensityFactorToSupply	2,117.00	0.00
tblWater	ElectricityIntensityFactorToSupply	2,117.00	0.00
tblWater	ElectricityIntensityFactorToSupply	2,117.00	0.00
tblWater	ElectricityIntensityFactorToSupply	2,117.00	0.00
tblWater	ElectricityIntensityFactorToSupply	2,117.00	0.00
tblWater	ElectricityIntensityFactorToTreat	111.00	0.00
tblWater	ElectricityIntensityFactorToTreat	111.00	0.00
tblWater	ElectricityIntensityFactorToTreat	111.00	0.00
tblWater	ElectricityIntensityFactorToTreat	111.00	0.00
tblWater	ElectricityIntensityFactorToTreat	111.00	0.00
tblWater	OutdoorWaterUseRate	973,866.27	0.00
tblWater	SepticTankPercent	10.33	100.00
tblWater	SepticTankPercent	10.33	100.00
tblWater	SepticTankPercent	10.33	100.00
tblWater	SepticTankPercent	10.33	100.00
tblWater	SepticTankPercent	10.33	100.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.2021	1.8778	1.5564	3.2400e-003	0.3083	0.0868	0.3952	0.1316	0.0808	0.2124	0.0000	285.7004	285.7004	0.0624	0.0000	287.2613
2022	2.3198	0.7590	0.8902	1.9000e-003	0.0585	0.0346	0.0931	0.0157	0.0326	0.0483	0.0000	168.0239	168.0239	0.0272	0.0000	168.7033
Maximum	**2.3198**	**1.8778**	**1.5564**	**3.2400e-003**	**0.3083**	**0.0868**	**0.3952**	**0.1316**	**0.0808**	**0.2124**	**0.0000**	**285.7004**	**285.7004**	**0.0624**	**0.0000**	**287.2613**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.2021	1.8778	1.5564	3.2400e-003	0.1604	0.0868	0.2473	0.0621	0.0808	0.1428	0.0000	285.7001	285.7001	0.0624	0.0000	287.2610
2022	2.3198	0.7590	0.8902	1.9000e-003	0.0585	0.0346	0.0931	0.0157	0.0326	0.0483	0.0000	168.0237	168.0237	0.0272	0.0000	168.7032
Maximum	**2.3198**	**1.8778**	**1.5564**	**3.2400e-003**	**0.1604**	**0.0868**	**0.2473**	**0.0621**	**0.0808**	**0.1428**	**0.0000**	**285.7001**	**285.7001**	**0.0624**	**0.0000**	**287.2610**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**40.32**	**0.00**	**30.29**	**47.20**	**0.00**	**26.67**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	7-1-2021	9-30-2021	1.3440	1.3440
2	10-1-2021	12-31-2021	0.7370	0.7370
3	1-1-2022	3-31-2022	2.1518	2.1518
4	4-1-2022	6-30-2022	0.9233	0.9233
		Highest	2.1518	2.1518

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	3.1180	1.1000e-004	0.0117	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0227	0.0227	6.0000e-005	0.0000	0.0242
Energy	0.0243	0.2211	0.1857	1.3300e-003		0.0168	0.0168		0.0168	0.0168	0.0000	567.7043	567.7043	0.0507	0.0139	573.1240
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Stationary	0.0123	0.0344	0.0314	6.0000e-005		1.8100e-003	1.8100e-003		1.8100e-003	1.8100e-003	0.0000	5.7120	5.7120	8.0000e-004	0.0000	5.7320
Waste						0.0000	0.0000		0.0000	0.0000	139.4304	0.0000	139.4304	8.2401	0.0000	345.4330
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	38.2475	0.1296	994.7975
Total	**3.1546**	**0.2556**	**0.2288**	**1.3900e-003**	**0.0000**	**0.0187**	**0.0187**	**0.0000**	**0.0187**	**0.0187**	**139.4304**	**573.4389**	**712.8694**	**46.5391**	**0.1435**	**1,919.1107**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	3.1180	1.1000e-004	0.0117	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0227	0.0227	6.0000e-005	0.0000	0.0242
Energy	0.0243	0.2211	0.1857	1.3300e-003		0.0168	0.0168		0.0168	0.0168	0.0000	567.7043	567.7043	0.0507	0.0139	573.1240
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Stationary	0.0123	0.0344	0.0314	6.0000e-005		1.8100e-003	1.8100e-003		1.8100e-003	1.8100e-003	0.0000	5.7120	5.7120	8.0000e-004	0.0000	5.7320
Waste						0.0000	0.0000		0.0000	0.0000	139.4304	0.0000	139.4304	8.2401	0.0000	345.4330
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	38.2475	0.1296	994.7975
Total	**3.1546**	**0.2556**	**0.2288**	**1.3900e-003**	**0.0000**	**0.0187**	**0.0187**	**0.0000**	**0.0187**	**0.0187**	**139.4304**	**573.4389**	**712.8694**	**46.5391**	**0.1435**	**1,919.1107**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	7/1/2021	7/15/2021	5	11	
2	Grading	Grading	7/16/2021	8/31/2021	5	33	
3	Architectural Coating	Architectural Coating	2/1/2022	4/30/2022	5	64	
4	Paving	Paving	4/1/2022	4/30/2022	5	21	
5	Building Construction	Building Construction	9/1/2021	3/30/2022	5	151	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 82.5

Acres of Paving: 14.75

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,095,416; Non-Residential Outdoor: 365,139; Striped Parking Area: 38,812 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	6.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	6.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	30.00	8.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	16.00	4.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	100.00	20.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0994	0.0000	0.0994	0.0546	0.0000	0.0546	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0214	0.2227	0.1164	2.1000e-004		0.0112	0.0112		0.0103	0.0103	0.0000	18.3896	18.3896	5.9500e-003	0.0000	18.5383
Total	**0.0214**	**0.2227**	**0.1164**	**2.1000e-004**	**0.0994**	**0.0112**	**0.1106**	**0.0546**	**0.0103**	**0.0650**	**0.0000**	**18.3896**	**18.3896**	**5.9500e-003**	**0.0000**	**18.5383**

3.2 Site Preparation - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0000e-004	3.4000e-003	7.0000e-004	1.0000e-005	2.0000e-004	1.0000e-005	2.1000e-004	6.0000e-005	1.0000e-005	7.0000e-005	0.0000	0.8135	0.8135	5.0000e-005	0.0000	0.8148
Worker	5.1000e-004	3.7000e-004	3.6900e-003	1.0000e-005	1.2300e-003	1.0000e-005	1.2300e-003	3.3000e-004	1.0000e-005	3.3000e-004	0.0000	1.0359	1.0359	3.0000e-005	0.0000	1.0365
Total	**6.1000e-004**	**3.7700e-003**	**4.3900e-003**	**2.0000e-005**	**1.4300e-003**	**2.0000e-005**	**1.4400e-003**	**3.9000e-004**	**2.0000e-005**	**4.0000e-004**	**0.0000**	**1.8493**	**1.8493**	**8.0000e-005**	**0.0000**	**1.8513**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0388	0.0000	0.0388	0.0213	0.0000	0.0213	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0214	0.2227	0.1164	2.1000e-004		0.0112	0.0112		0.0103	0.0103	0.0000	18.3896	18.3896	5.9500e-003	0.0000	18.5383
Total	**0.0214**	**0.2227**	**0.1164**	**2.1000e-004**	**0.0388**	**0.0112**	**0.0500**	**0.0213**	**0.0103**	**0.0316**	**0.0000**	**18.3896**	**18.3896**	**5.9500e-003**	**0.0000**	**18.5383**

3.2 Site Preparation - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0000e-004	3.4000e-003	7.0000e-004	1.0000e-005	2.0000e-004	1.0000e-005	2.1000e-004	6.0000e-005	1.0000e-005	7.0000e-005	0.0000	0.8135	0.8135	5.0000e-005	0.0000	0.8148
Worker	5.1000e-004	3.7000e-004	3.6900e-003	1.0000e-005	1.2300e-003	1.0000e-005	1.2300e-003	3.3000e-004	1.0000e-005	3.3000e-004	0.0000	1.0359	1.0359	3.0000e-005	0.0000	1.0365
Total	**6.1000e-004**	**3.7700e-003**	**4.3900e-003**	**2.0000e-005**	**1.4300e-003**	**2.0000e-005**	**1.4400e-003**	**3.9000e-004**	**2.0000e-005**	**4.0000e-004**	**0.0000**	**1.8493**	**1.8493**	**8.0000e-005**	**0.0000**	**1.8513**

3.3 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1431	0.0000	0.1431	0.0593	0.0000	0.0593	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0692	0.7656	0.5095	1.0200e-003		0.0328	0.0328		0.0301	0.0301	0.0000	89.9167	89.9167	0.0291	0.0000	90.6437
Total	**0.0692**	**0.7656**	**0.5095**	**1.0200e-003**	**0.1431**	**0.0328**	**0.1759**	**0.0593**	**0.0301**	**0.0895**	**0.0000**	**89.9167**	**89.9167**	**0.0291**	**0.0000**	**90.6437**

3.3 Grading - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.1000e-004	0.0102	2.1000e-003	3.0000e-005	5.9000e-004	3.0000e-005	6.2000e-004	1.7000e-004	3.0000e-005	2.0000e-004	0.0000	2.4405	2.4405	1.5000e-004	0.0000	2.4443
Worker	1.6900e-003	1.2500e-003	0.0123	4.0000e-005	4.0900e-003	3.0000e-005	4.1100e-003	1.0900e-003	2.0000e-005	1.1100e-003	0.0000	3.4528	3.4528	8.0000e-005	0.0000	3.4550
Total	**2.0000e-003**	**0.0115**	**0.0144**	**7.0000e-005**	**4.6800e-003**	**6.0000e-005**	**4.7300e-003**	**1.2600e-003**	**5.0000e-005**	**1.3100e-003**	**0.0000**	**5.8933**	**5.8933**	**2.3000e-004**	**0.0000**	**5.8993**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0558	0.0000	0.0558	0.0231	0.0000	0.0231	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0692	0.7656	0.5095	1.0200e-003		0.0328	0.0328		0.0301	0.0301	0.0000	89.9166	89.9166	0.0291	0.0000	90.6436
Total	**0.0692**	**0.7656**	**0.5095**	**1.0200e-003**	**0.0558**	**0.0328**	**0.0886**	**0.0231**	**0.0301**	**0.0533**	**0.0000**	**89.9166**	**89.9166**	**0.0291**	**0.0000**	**90.6436**

3.3 Grading - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.1000e-004	0.0102	2.1000e-003	3.0000e-005	5.9000e-004	3.0000e-005	6.2000e-004	1.7000e-004	3.0000e-005	2.0000e-004	0.0000	2.4405	2.4405	1.5000e-004	0.0000	2.4443
Worker	1.6900e-003	1.2500e-003	0.0123	4.0000e-005	4.0900e-003	3.0000e-005	4.1100e-003	1.0900e-003	2.0000e-005	1.1100e-003	0.0000	3.4528	3.4528	8.0000e-005	0.0000	3.4550
Total	**2.0000e-003**	**0.0115**	**0.0144**	**7.0000e-005**	**4.6800e-003**	**6.0000e-005**	**4.7300e-003**	**1.2600e-003**	**5.0000e-005**	**1.3100e-003**	**0.0000**	**5.8933**	**5.8933**	**2.3000e-004**	**0.0000**	**5.8993**

3.4 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	2.2055					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.5500e-003	0.0451	0.0580	1.0000e-004		2.6100e-003	2.6100e-003		2.6100e-003	2.6100e-003	0.0000	8.1704	8.1704	5.3000e-004	0.0000	8.1837
Total	**2.2120**	**0.0451**	**0.0580**	**1.0000e-004**		**2.6100e-003**	**2.6100e-003**		**2.6100e-003**	**2.6100e-003**	**0.0000**	**8.1704**	**8.1704**	**5.3000e-004**	**0.0000**	**8.1837**

3.4 Architectural Coating - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.5000e-004	0.0250	4.9900e-003	7.0000e-005	1.5300e-003	6.0000e-005	1.5900e-003	4.4000e-004	6.0000e-005	5.0000e-004	0.0000	6.2517	6.2517	3.8000e-004	0.0000	6.2612
Worker	4.5800e-003	3.2500e-003	0.0327	1.1000e-004	0.0119	7.0000e-005	0.0120	3.1600e-003	7.0000e-005	3.2300e-003	0.0000	9.6872	9.6872	2.2000e-004	0.0000	9.6927
Total	**5.3300e-003**	**0.0283**	**0.0377**	**1.8000e-004**	**0.0134**	**1.3000e-004**	**0.0136**	**3.6000e-003**	**1.3000e-004**	**3.7300e-003**	**0.0000**	**15.9389**	**15.9389**	**6.0000e-004**	**0.0000**	**15.9539**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	2.2055					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.5500e-003	0.0451	0.0580	1.0000e-004		2.6100e-003	2.6100e-003		2.6100e-003	2.6100e-003	0.0000	8.1704	8.1704	5.3000e-004	0.0000	8.1837
Total	**2.2120**	**0.0451**	**0.0580**	**1.0000e-004**		**2.6100e-003**	**2.6100e-003**		**2.6100e-003**	**2.6100e-003**	**0.0000**	**8.1704**	**8.1704**	**5.3000e-004**	**0.0000**	**8.1837**

3.4 Architectural Coating - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.5000e-004	0.0250	4.9900e-003	7.0000e-005	1.5300e-003	6.0000e-005	1.5900e-003	4.4000e-004	6.0000e-005	5.0000e-004	0.0000	6.2517	6.2517	3.8000e-004	0.0000	6.2612
Worker	4.5800e-003	3.2500e-003	0.0327	1.1000e-004	0.0119	7.0000e-005	0.0120	3.1600e-003	7.0000e-005	3.2300e-003	0.0000	9.6872	9.6872	2.2000e-004	0.0000	9.6927
Total	**5.3300e-003**	**0.0283**	**0.0377**	**1.8000e-004**	**0.0134**	**1.3000e-004**	**0.0136**	**3.6000e-003**	**1.3000e-004**	**3.7300e-003**	**0.0000**	**15.9389**	**15.9389**	**6.0000e-004**	**0.0000**	**15.9539**

3.5 Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0116	0.1168	0.1531	2.4000e-004		5.9600e-003	5.9600e-003		5.4900e-003	5.4900e-003	0.0000	21.0289	21.0289	6.8000e-003	0.0000	21.1990
Paving	0.0193					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0309**	**0.1168**	**0.1531**	**2.4000e-004**		**5.9600e-003**	**5.9600e-003**		**5.4900e-003**	**5.4900e-003**	**0.0000**	**21.0289**	**21.0289**	**6.8000e-003**	**0.0000**	**21.1990**

3.5 Paving - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.2000e-004	4.1100e-003	8.2000e-004	1.0000e-005	2.5000e-004	1.0000e-005	2.6000e-004	7.0000e-005	1.0000e-005	8.0000e-005	0.0000	1.0257	1.0257	6.0000e-005	0.0000	1.0272
Worker	8.0000e-004	5.7000e-004	5.7100e-003	2.0000e-005	2.0800e-003	1.0000e-005	2.0900e-003	5.5000e-004	1.0000e-005	5.6000e-004	0.0000	1.6953	1.6953	4.0000e-005	0.0000	1.6962
Total	**9.2000e-004**	**4.6800e-003**	**6.5300e-003**	**3.0000e-005**	**2.3300e-003**	**2.0000e-005**	**2.3500e-003**	**6.2000e-004**	**2.0000e-005**	**6.4000e-004**	**0.0000**	**2.7209**	**2.7209**	**1.0000e-004**	**0.0000**	**2.7235**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0116	0.1168	0.1531	2.4000e-004		5.9600e-003	5.9600e-003		5.4900e-003	5.4900e-003	0.0000	21.0289	21.0289	6.8000e-003	0.0000	21.1989
Paving	0.0193					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0309**	**0.1168**	**0.1531**	**2.4000e-004**		**5.9600e-003**	**5.9600e-003**		**5.4900e-003**	**5.4900e-003**	**0.0000**	**21.0289**	**21.0289**	**6.8000e-003**	**0.0000**	**21.1989**

3.5 Paving - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.2000e-004	4.1100e-003	8.2000e-004	1.0000e-005	2.5000e-004	1.0000e-005	2.6000e-004	7.0000e-005	1.0000e-005	8.0000e-005	0.0000	1.0257	1.0257	6.0000e-005	0.0000	1.0272
Worker	8.0000e-004	5.7000e-004	5.7100e-003	2.0000e-005	2.0800e-003	1.0000e-005	2.0900e-003	5.5000e-004	1.0000e-005	5.6000e-004	0.0000	1.6953	1.6953	4.0000e-005	0.0000	1.6962
Total	**9.2000e-004**	**4.6800e-003**	**6.5300e-003**	**3.0000e-005**	**2.3300e-003**	**2.0000e-005**	**2.3500e-003**	**6.2000e-004**	**2.0000e-005**	**6.4000e-004**	**0.0000**	**2.7209**	**2.7209**	**1.0000e-004**	**0.0000**	**2.7235**

3.6 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0836	0.7670	0.7293	1.1800e-003		0.0422	0.0422		0.0397	0.0397	0.0000	101.9204	101.9204	0.0246	0.0000	102.5351
Total	**0.0836**	**0.7670**	**0.7293**	**1.1800e-003**		**0.0422**	**0.0422**		**0.0397**	**0.0397**	**0.0000**	**101.9204**	**101.9204**	**0.0246**	**0.0000**	**102.5351**

3.6 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.7600e-003	0.0906	0.0186	2.3000e-004	5.2600e-003	2.5000e-004	5.5000e-003	1.5200e-003	2.3000e-004	1.7500e-003	0.0000	21.6931	21.6931	1.3700e-003	0.0000	21.7273
Worker	0.0226	0.0166	0.1639	5.1000e-004	0.0545	3.4000e-004	0.0548	0.0145	3.1000e-004	0.0148	0.0000	46.0379	46.0379	1.1300e-003	0.0000	46.0662
Total	**0.0253**	**0.1073**	**0.1825**	**7.4000e-004**	**0.0598**	**5.9000e-004**	**0.0603**	**0.0160**	**5.4000e-004**	**0.0166**	**0.0000**	**67.7310**	**67.7310**	**2.5000e-003**	**0.0000**	**67.7935**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0836	0.7670	0.7293	1.1800e-003		0.0422	0.0422		0.0397	0.0397	0.0000	101.9203	101.9203	0.0246	0.0000	102.5350
Total	**0.0836**	**0.7670**	**0.7293**	**1.1800e-003**		**0.0422**	**0.0422**		**0.0397**	**0.0397**	**0.0000**	**101.9203**	**101.9203**	**0.0246**	**0.0000**	**102.5350**

3.6 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.7600e-003	0.0906	0.0186	2.3000e-004	5.2600e-003	2.5000e-004	5.5000e-003	1.5200e-003	2.3000e-004	1.7500e-003	0.0000	21.6931	21.6931	1.3700e-003	0.0000	21.7273
Worker	0.0226	0.0166	0.1639	5.1000e-004	0.0545	3.4000e-004	0.0548	0.0145	3.1000e-004	0.0148	0.0000	46.0379	46.0379	1.1300e-003	0.0000	46.0662
Total	**0.0253**	**0.1073**	**0.1825**	**7.4000e-004**	**0.0598**	**5.9000e-004**	**0.0603**	**0.0160**	**5.4000e-004**	**0.0166**	**0.0000**	**67.7310**	**67.7310**	**2.5000e-003**	**0.0000**	**67.7935**

3.6 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0538	0.4919	0.5155	8.5000e-004		0.0255	0.0255		0.0240	0.0240	0.0000	72.9935	72.9935	0.0175	0.0000	73.4306
Total	**0.0538**	**0.4919**	**0.5155**	**8.5000e-004**		**0.0255**	**0.0255**		**0.0240**	**0.0240**	**0.0000**	**72.9935**	**72.9935**	**0.0175**	**0.0000**	**73.4306**

3.6 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.8400e-003	0.0616	0.0123	1.6000e-004	3.7600e-003	1.5000e-004	3.9200e-003	1.0900e-003	1.5000e-004	1.2300e-003	0.0000	15.3851	15.3851	9.3000e-004	0.0000	15.4084
Worker	0.0150	0.0107	0.1072	3.5000e-004	0.0390	2.4000e-004	0.0393	0.0104	2.2000e-004	0.0106	0.0000	31.7861	31.7861	7.2000e-004	0.0000	31.8043
Total	**0.0169**	**0.0723**	**0.1194**	**5.1000e-004**	**0.0428**	**3.9000e-004**	**0.0432**	**0.0115**	**3.7000e-004**	**0.0118**	**0.0000**	**47.1712**	**47.1712**	**1.6500e-003**	**0.0000**	**47.2126**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0538	0.4919	0.5155	8.5000e-004		0.0255	0.0255		0.0240	0.0240	0.0000	72.9934	72.9934	0.0175	0.0000	73.4305
Total	**0.0538**	**0.4919**	**0.5155**	**8.5000e-004**		**0.0255**	**0.0255**		**0.0240**	**0.0240**	**0.0000**	**72.9934**	**72.9934**	**0.0175**	**0.0000**	**73.4305**

3.6 Building Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.8400e-003	0.0616	0.0123	1.6000e-004	3.7600e-003	1.5000e-004	3.9200e-003	1.0900e-003	1.5000e-004	1.2300e-003	0.0000	15.3851	15.3851	9.3000e-004	0.0000	15.4084
Worker	0.0150	0.0107	0.1072	3.5000e-004	0.0390	2.4000e-004	0.0393	0.0104	2.2000e-004	0.0106	0.0000	31.7861	31.7861	7.2000e-004	0.0000	31.8043
Total	**0.0169**	**0.0723**	**0.1194**	**5.1000e-004**	**0.0428**	**3.9000e-004**	**0.0432**	**0.0115**	**3.7000e-004**	**0.0118**	**0.0000**	**47.1712**	**47.1712**	**1.6500e-003**	**0.0000**	**47.2126**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
General Office Building	0.00	0.00	0.00		
General Office Building	0.00	0.00	0.00		
General Office Building	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	14.70	6.60	6.60	33.00	48.00	19.00	66	28	6
General Office Building	14.70	6.60	6.60	33.00	48.00	19.00	77	19	4
General Office Building	14.70	6.60	6.60	33.00	48.00	19.00	77	19	4
General Office Building	14.70	6.60	6.60	33.00	48.00	19.00	77	19	4
Other Asphalt Surfaces	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0
Parking Lot	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	14.70	6.60	6.60	59.00	0.00	41.00	92	5	3
Unrefrigerated Warehouse-No	14.70	6.60	6.60	59.00	0.00	41.00	92	5	3
Unrefrigerated Warehouse-No	14.70	6.60	6.60	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.556917	0.035296	0.183646	0.120139	0.017882	0.004687	0.016156	0.056151	0.001190	0.001453	0.005055	0.000610	0.000818
General Office Building	0.556917	0.035296	0.183646	0.120139	0.017882	0.004687	0.016156	0.056151	0.001190	0.001453	0.005055	0.000610	0.000818
Other Asphalt Surfaces	0.556917	0.035296	0.183646	0.120139	0.017882	0.004687	0.016156	0.056151	0.001190	0.001453	0.005055	0.000610	0.000818
Parking Lot	0.556917	0.035296	0.183646	0.120139	0.017882	0.004687	0.016156	0.056151	0.001190	0.001453	0.005055	0.000610	0.000818
Unrefrigerated Warehouse-No Rail	0.556917	0.035296	0.183646	0.120139	0.017882	0.004687	0.016156	0.056151	0.001190	0.001453	0.005055	0.000610	0.000818

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Schulte Unmit - San Joaquin County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	327.0447	327.0447	0.0460	9.5300e-003	331.0343
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	327.0447	327.0447	0.0460	9.5300e-003	331.0343
NaturalGas Mitigated	0.0243	0.2211	0.1857	1.3300e-003		0.0168	0.0168		0.0168	0.0168	0.0000	240.6596	240.6596	4.6100e-003	4.4100e-003	242.0897
NaturalGas Unmitigated	0.0243	0.2211	0.1857	1.3300e-003		0.0168	0.0168		0.0168	0.0168	0.0000	240.6596	240.6596	4.6100e-003	4.4100e-003	242.0897

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	48313.2	2.6000e-004	2.3700e-003	1.9900e-003	1.0000e-005		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004	0.0000	2.5782	2.5782	5.0000e-005	5.0000e-005	2.5935
General Office Building	48378.4	2.6000e-004	2.3700e-003	1.9900e-003	1.0000e-005		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004	0.0000	2.5817	2.5817	5.0000e-005	5.0000e-005	2.5970
General Office Building	48997.8	2.6000e-004	2.4000e-003	2.0200e-003	1.0000e-005		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004	0.0000	2.6147	2.6147	5.0000e-005	5.0000e-005	2.6303
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	1.68728e+006	9.1000e-003	0.0827	0.0695	5.0000e-004		6.2900e-003	6.2900e-003		6.2900e-003	6.2900e-003	0.0000	90.0396	90.0396	1.7300e-003	1.6500e-003	90.5747
Unrefrigerated Warehouse-No Rail	1.68751e+006	9.1000e-003	0.0827	0.0695	5.0000e-004		6.2900e-003	6.2900e-003		6.2900e-003	6.2900e-003	0.0000	90.0519	90.0519	1.7300e-003	1.6500e-003	90.5870
Unrefrigerated Warehouse-No Rail	989314	5.3300e-003	0.0485	0.0407	2.9000e-004		3.6900e-003	3.6900e-003		3.6900e-003	3.6900e-003	0.0000	52.7936	52.7936	1.0100e-003	9.7000e-004	53.1073
Total		**0.0243**	**0.2211**	**0.1857**	**1.3200e-003**		**0.0168**	**0.0168**		**0.0168**	**0.0168**	**0.0000**	**240.6596**	**240.6596**	**4.6200e-003**	**4.4200e-003**	**242.0897**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	48313.2	2.6000e-004	2.3700e-003	1.9900e-003	1.0000e-005		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004	0.0000	2.5782	2.5782	5.0000e-005	5.0000e-005	2.5935
General Office Building	48378.4	2.6000e-004	2.3700e-003	1.9900e-003	1.0000e-005		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004	0.0000	2.5817	2.5817	5.0000e-005	5.0000e-005	2.5970
General Office Building	48997.8	2.6000e-004	2.4000e-003	2.0200e-003	1.0000e-005		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004	0.0000	2.6147	2.6147	5.0000e-005	5.0000e-005	2.6303
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	1.68728e+006	9.1000e-003	0.0827	0.0695	5.0000e-004		6.2900e-003	6.2900e-003		6.2900e-003	6.2900e-003	0.0000	90.0396	90.0396	1.7300e-003	1.6500e-003	90.5747
Unrefrigerated Warehouse-No Rail	1.68751e+006	9.1000e-003	0.0827	0.0695	5.0000e-004		6.2900e-003	6.2900e-003		6.2900e-003	6.2900e-003	0.0000	90.0519	90.0519	1.7300e-003	1.6500e-003	90.5870
Unrefrigerated Warehouse-No Rail	989314	5.3300e-003	0.0485	0.0407	2.9000e-004		3.6900e-003	3.6900e-003		3.6900e-003	3.6900e-003	0.0000	52.7936	52.7936	1.0100e-003	9.7000e-004	53.1073
Total		**0.0243**	**0.2211**	**0.1857**	**1.3200e-003**		**0.0168**	**0.0168**		**0.0168**	**0.0168**	**0.0000**	**240.6596**	**240.6596**	**4.6200e-003**	**4.4200e-003**	**242.0897**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
General Office Building	28721.2	2.6837	3.8000e-004	8.0000e-005	2.7164
General Office Building	28759.9	2.6873	3.8000e-004	8.0000e-005	2.7201
General Office Building	29128.1	2.7217	3.8000e-004	8.0000e-005	2.7549
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	73640	6.8809	9.7000e-004	2.0000e-004	6.9649
Unrefrigerated Warehouse-No Rail	1.29126e+006	120.6550	0.0170	3.5100e-003	122.1269
Unrefrigerated Warehouse-No Rail	1.29143e+006	120.6714	0.0170	3.5100e-003	122.1435
Unrefrigerated Warehouse-No Rail	757111	70.7445	9.9600e-003	2.0600e-003	71.6075
Total		**327.0447**	**0.0461**	**9.5200e-003**	**331.0343**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
General Office Building	28721.2	2.6837	3.8000e-004	8.0000e-005	2.7164
General Office Building	28759.9	2.6873	3.8000e-004	8.0000e-005	2.7201
General Office Building	29128.1	2.7217	3.8000e-004	8.0000e-005	2.7549
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	73640	6.8809	9.7000e-004	2.0000e-004	6.9649
Unrefrigerated Warehouse-No Rail	1.29126e+006	120.6550	0.0170	3.5100e-003	122.1269
Unrefrigerated Warehouse-No Rail	1.29143e+006	120.6714	0.0170	3.5100e-003	122.1435
Unrefrigerated Warehouse-No Rail	757111	70.7445	9.9600e-003	2.0600e-003	71.6075
Total		**327.0447**	**0.0461**	**9.5200e-003**	**331.0343**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	3.1180	1.1000e-004	0.0117	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0227	0.0227	6.0000e-005	0.0000	0.0242
Unmitigated	3.1180	1.1000e-004	0.0117	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0227	0.0227	6.0000e-005	0.0000	0.0242

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.2206					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.8964					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0900e-003	1.1000e-004	0.0117	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0227	0.0227	6.0000e-005	0.0000	0.0242
Total	**3.1180**	**1.1000e-004**	**0.0117**	**0.0000**		**4.0000e-005**	**4.0000e-005**		**4.0000e-005**	**4.0000e-005**	**0.0000**	**0.0227**	**0.0227**	**6.0000e-005**	**0.0000**	**0.0242**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.2206					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.8964					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0900e-003	1.1000e-004	0.0117	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0227	0.0227	6.0000e-005	0.0000	0.0242
Total	**3.1180**	**1.1000e-004**	**0.0117**	**0.0000**		**4.0000e-005**	**4.0000e-005**		**4.0000e-005**	**4.0000e-005**	**0.0000**	**0.0227**	**0.0227**	**6.0000e-005**	**0.0000**	**0.0242**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0000	38.2475	0.1296	994.7975
Unmitigated	0.0000	38.2475	0.1296	994.7975

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 7.10123	0.0000	0.0000	0.0000	0.0000
General Office Building	1.58894 / 0	0.0000	0.3609	1.2200e-003	9.3865
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	166.81 / 0	0.0000	37.8866	0.1283	985.4110
Total		**0.0000**	**38.2475**	**0.1296**	**994.7975**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 7.10123	0.0000	0.0000	0.0000	0.0000
General Office Building	1.58894 / 0	0.0000	0.3609	1.2200e-003	9.3865
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	166.81 / 0	0.0000	37.8866	0.1283	985.4110
Total		**0.0000**	**38.2475**	**0.1296**	**994.7975**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	139.4304	8.2401	0.0000	345.4330
Unmitigated	139.4304	8.2401	0.0000	345.4330

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.51	0.1035	6.1200e-003	0.0000	0.2565
General Office Building	8.31	1.6869	0.0997	0.0000	4.1791
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	678.06	137.6401	8.1343	0.0000	340.9974
Total		**139.4304**	**8.2401**	**0.0000**	**345.4330**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.51	0.1035	6.1200e-003	0.0000	0.2565
General Office Building	8.31	1.6869	0.0997	0.0000	4.1791
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	678.06	137.6401	8.1343	0.0000	340.9974
Total		**139.4304**	**8.2401**	**0.0000**	**345.4330**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Fire Pump	1	1	50	300	0.73	Diesel

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

10.1 Stationary Sources

Unmitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	tons/yr										MT/yr					
Fire Pump - Diesel (300 - 600 HP)	0.0123	0.0344	0.0314	6.0000e-005		1.8100e-003	1.8100e-003		1.8100e-003	1.8100e-003	0.0000	5.7120	5.7120	8.0000e-004	0.0000	5.7320
Total	**0.0123**	**0.0344**	**0.0314**	**6.0000e-005**		**1.8100e-003**	**1.8100e-003**		**1.8100e-003**	**1.8100e-003**	**0.0000**	**5.7120**	**5.7120**	**8.0000e-004**	**0.0000**	**5.7320**

11.0 Vegetation

Schulte Unmit

San Joaquin County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	2.97	1000sqft	0.07	2,968.00	0
General Office Building	3.01	1000sqft	0.07	3,006.00	0
General Office Building	2.96	1000sqft	0.07	2,964.00	0
Unrefrigerated Warehouse-No Rail	278.93	1000sqft	6.40	278,927.00	0
Unrefrigerated Warehouse-No Rail	278.89	1000sqft	6.40	278,889.00	0
Unrefrigerated Warehouse-No Rail	163.52	1000sqft	3.75	163,523.00	0
Other Asphalt Surfaces	10.02	Acre	10.02	436,471.20	0
Parking Lot	526.00	Space	4.73	210,400.00	0
City Park	5.96	Acre	5.96	259,617.60	0

1.2 Other Project Characteristics

Urbanization	Rural	**Wind Speed (m/s)**	2.7	**Precipitation Freq (Days)**	51
Climate Zone	2			**Operational Year**	2022
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	206	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - RPS based on PG&E 2018 reported factor https://www.pgecorp.com/corp_responsibility/reports/2020/assets/PGE_CRSR_2020.pdf

Land Use - City park represents landscape and outdoor water use.

Construction Phase - Data provided by applicant.

Trips and VMT - Data provided by applicant.

Grading -

Architectural Coating - SJVAPCD Rule 4601 VOC limits

Vehicle Trips - Quantified in spreadsheet using EMFAC2017

Area Coating - SJVAPCD Rule 4601 VOC limits

Energy Use - Compliance with 2019 T24 10% electricity reduction, 1% NG reduction
Electricity use from water pump included

Water And Wastewater - Outdoor wateruse City Park land use represents landscaping. Project will be on 100% septic.
Water and wastewater would use onsite electric pump. Added to electricity use.

Construction Off-road Equipment Mitigation - Fugitive dust control measures

Operational Off-Road Equipment - .

Stationary Sources - Emergency Generators and Fire Pumps -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	100.00
tblArchitecturalCoating	EF_Nonresidential_Interior	150.00	50.00
tblArchitecturalCoating	EF_Parking	150.00	100.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	150	100
tblAreaCoating	Area_EF_Nonresidential_Interior	150	50
tblAreaCoating	Area_EF_Parking	150	100
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	30.00	11.00
tblConstructionPhase	NumDays	75.00	33.00
tblConstructionPhase	NumDays	55.00	64.00
tblConstructionPhase	NumDays	55.00	21.00

tblConstructionPhase	NumDays	740.00	151.00
tblEnergyUse	NT24E	1.77	1.85
tblEnergyUse	T24E	3.22	2.90
tblEnergyUse	T24E	0.50	0.45
tblEnergyUse	T24NG	15.99	15.83
tblEnergyUse	T24NG	6.11	6.05
tblLandUse	LandUseSquareFeet	2,960.00	2,964.00
tblLandUse	LandUseSquareFeet	2,970.00	2,968.00
tblLandUse	LandUseSquareFeet	3,010.00	3,006.00
tblLandUse	LandUseSquareFeet	163,520.00	163,523.00
tblLandUse	LandUseSquareFeet	278,890.00	278,889.00
tblLandUse	LandUseSquareFeet	278,930.00	278,927.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	206
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblTripsAndVMT	VendorTripNumber	0.00	8.00
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tblTripsAndVMT	VendorTripNumber	268.00	20.00
tblTripsAndVMT	WorkerTripNumber	137.00	30.00
tblTripsAndVMT	WorkerTripNumber	15.00	16.00
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tblVehicleTrips	ST_TR	2.46	0.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	SU_TR	1.05	0.00

tblVehicleTrips	SU_TR	1.68	0.00
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tblWater	AerobicPercent	87.46	0.00
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tblWater	AerobicPercent	87.46	0.00
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tblWater	AnaDigestCombDigestGasPercent	100.00	0.00
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tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
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tblWater	ElectricityIntensityFactorToTreat	111.00	0.00
tblWater	OutdoorWaterUseRate	973,866.27	0.00
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tblWater	SepticTankPercent	10.33	100.00
tblWater	SepticTankPercent	10.33	100.00
tblWater	SepticTankPercent	10.33	100.00
tblWater	SepticTankPercent	10.33	100.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	4.3197	47.0794	31.8549	0.0661	18.3329	2.0475	20.3804	10.0022	1.8838	11.8860	0.0000	6,423.4271	6,423.4271	1.9588	0.0000	6,472.3981
2022	72.3379	20.1318	23.7912	0.0530	1.8321	0.9072	2.7392	0.4898	0.8582	1.3480	0.0000	5,173.9082	5,173.9082	0.7638	0.0000	5,191.6586
Maximum	**72.3379**	**47.0794**	**31.8549**	**0.0661**	**18.3329**	**2.0475**	**20.3804**	**10.0022**	**1.8838**	**11.8860**	**0.0000**	**6,423.4271**	**6,423.4271**	**1.9588**	**0.0000**	**6,472.3981**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	4.3197	47.0794	31.8549	0.0661	7.3125	2.0475	9.3600	3.9445	1.8838	5.8283	0.0000	6,423.4270	6,423.4270	1.9588	0.0000	6,472.3981
2022	72.3379	20.1318	23.7912	0.0530	1.8321	0.9072	2.7392	0.4898	0.8582	1.3480	0.0000	5,173.9082	5,173.9082	0.7638	0.0000	5,191.6586
Maximum	**72.3379**	**47.0794**	**31.8549**	**0.0661**	**7.3125**	**2.0475**	**9.3600**	**3.9445**	**1.8838**	**5.8283**	**0.0000**	**6,423.4270**	**6,423.4270**	**1.9588**	**0.0000**	**6,472.3981**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**54.65**	**0.00**	**47.67**	**57.74**	**0.00**	**45.77**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	17.0910	1.1900e-003	0.1301	1.0000e-005		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004		0.2784	0.2784	7.3000e-004		0.2968
Energy	0.1333	1.2113	1.0175	7.2700e-003		0.0921	0.0921		0.0921	0.0921		1,453.5988	1,453.5988	0.0279	0.0267	1,462.2368
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Stationary	0.4923	1.3760	1.2553	2.3700e-003		0.0724	0.0724		0.0724	0.0724		251.8542	251.8542	0.0353		252.7370
Total	**17.7166**	**2.5885**	**2.4029**	**9.6500e-003**	**0.0000**	**0.1649**	**0.1649**	**0.0000**	**0.1649**	**0.1649**		**1,705.7315**	**1,705.7315**	**0.0639**	**0.0267**	**1,715.2706**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	17.0910	1.1900e-003	0.1301	1.0000e-005		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004		0.2784	0.2784	7.3000e-004		0.2968
Energy	0.1333	1.2113	1.0175	7.2700e-003		0.0921	0.0921		0.0921	0.0921		1,453.5988	1,453.5988	0.0279	0.0267	1,462.2368
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Stationary	0.4923	1.3760	1.2553	2.3700e-003		0.0724	0.0724		0.0724	0.0724		251.8542	251.8542	0.0353		252.7370
Total	**17.7166**	**2.5885**	**2.4029**	**9.6500e-003**	**0.0000**	**0.1649**	**0.1649**	**0.0000**	**0.1649**	**0.1649**		**1,705.7315**	**1,705.7315**	**0.0639**	**0.0267**	**1,715.2706**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	7/1/2021	7/15/2021	5	11	
2	Grading	Grading	7/16/2021	8/31/2021	5	33	
3	Architectural Coating	Architectural Coating	2/1/2022	4/30/2022	5	64	
4	Paving	Paving	4/1/2022	4/30/2022	5	21	
5	Building Construction	Building Construction	9/1/2021	3/30/2022	5	151	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 82.5

Acres of Paving: 14.75

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,095,416; Non-Residential Outdoor: 365,139; Striped Parking Area: 38,812 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	6.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	6.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	30.00	8.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	16.00	4.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	100.00	20.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809		3,685.6569	3,685.6569	1.1920		3,715.4573
Total	**3.8882**	**40.4971**	**21.1543**	**0.0380**	**18.0663**	**2.0445**	**20.1107**	**9.9307**	**1.8809**	**11.8116**		**3,685.6569**	**3,685.6569**	**1.1920**		**3,715.4573**

3.2 Site Preparation - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0185	0.6112	0.1172	1.5800e-003	0.0368	1.6500e-003	0.0384	0.0106	1.5700e-003	0.0122		165.3219	165.3219	9.7800e-003		165.5663
Worker	0.0991	0.0616	0.7734	2.2700e-003	0.2299	1.4000e-003	0.2313	0.0610	1.2900e-003	0.0623		225.9556	225.9556	5.6400e-003		226.0965
Total	**0.1176**	**0.6727**	**0.8905**	**3.8500e-003**	**0.2667**	**3.0500e-003**	**0.2697**	**0.0716**	**2.8600e-003**	**0.0744**		**391.2774**	**391.2774**	**0.0154**		**391.6628**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.0458	0.0000	7.0458	3.8730	0.0000	3.8730			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809	0.0000	3,685.6569	3,685.6569	1.1920		3,715.4573
Total	**3.8882**	**40.4971**	**21.1543**	**0.0380**	**7.0458**	**2.0445**	**9.0903**	**3.8730**	**1.8809**	**5.7539**	**0.0000**	**3,685.6569**	**3,685.6569**	**1.1920**		**3,715.4573**

3.2 Site Preparation - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0185	0.6112	0.1172	1.5800e-003	0.0368	1.6500e-003	0.0384	0.0106	1.5700e-003	0.0122		165.3219	165.3219	9.7800e-003		165.5663
Worker	0.0991	0.0616	0.7734	2.2700e-003	0.2299	1.4000e-003	0.2313	0.0610	1.2900e-003	0.0623		225.9556	225.9556	5.6400e-003		226.0965
Total	**0.1176**	**0.6727**	**0.8905**	**3.8500e-003**	**0.2667**	**3.0500e-003**	**0.2697**	**0.0716**	**2.8600e-003**	**0.0744**		**391.2774**	**391.2774**	**0.0154**		**391.6628**

3.3 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620		1.9853	1.9853		1.8265	1.8265		6,007.0434	6,007.0434	1.9428		6,055.6134
Total	**4.1912**	**46.3998**	**30.8785**	**0.0620**	**8.6733**	**1.9853**	**10.6587**	**3.5965**	**1.8265**	**5.4230**		**6,007.0434**	**6,007.0434**	**1.9428**		**6,055.6134**

3.3 Grading - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0185	0.6112	0.1172	1.5800e-003	0.0368	1.6500e-003	0.0384	0.0106	1.5700e-003	0.0122		165.3219	165.3219	9.7800e-003		165.5663
Worker	0.1101	0.0684	0.8593	2.5200e-003	0.2555	1.5500e-003	0.2570	0.0678	1.4300e-003	0.0692		251.0618	251.0618	6.2600e-003		251.2184
Total	**0.1286**	**0.6796**	**0.9765**	**4.1000e-003**	**0.2922**	**3.2000e-003**	**0.2954**	**0.0783**	**3.0000e-003**	**0.0813**		**416.3836**	**416.3836**	**0.0160**		**416.7846**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.3826	0.0000	3.3826	1.4026	0.0000	1.4026			0.0000			0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620		1.9853	1.9853		1.8265	1.8265	0.0000	6,007.0434	6,007.0434	1.9428		6,055.6134
Total	**4.1912**	**46.3998**	**30.8785**	**0.0620**	**3.3826**	**1.9853**	**5.3679**	**1.4026**	**1.8265**	**3.2292**	**0.0000**	**6,007.0434**	**6,007.0434**	**1.9428**		**6,055.6134**

3.3 Grading - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0185	0.6112	0.1172	1.5800e-003	0.0368	1.6500e-003	0.0384	0.0106	1.5700e-003	0.0122		165.3219	165.3219	9.7800e-003		165.5663
Worker	0.1101	0.0684	0.8593	2.5200e-003	0.2555	1.5500e-003	0.2570	0.0678	1.4300e-003	0.0692		251.0618	251.0618	6.2600e-003		251.2184
Total	**0.1286**	**0.6796**	**0.9765**	**4.1000e-003**	**0.2922**	**3.2000e-003**	**0.2954**	**0.0783**	**3.0000e-003**	**0.0813**		**416.3836**	**416.3836**	**0.0160**		**416.7846**

3.4 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	68.9209					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
Total	**69.1255**	**1.4085**	**1.8136**	**2.9700e-003**		**0.0817**	**0.0817**		**0.0817**	**0.0817**		**281.4481**	**281.4481**	**0.0183**		**281.9062**

3.4 Architectural Coating - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0228	0.7741	0.1439	2.0900e-003	0.0490	1.9000e-003	0.0509	0.0141	1.8100e-003	0.0159		218.3870	218.3870	0.0124		218.6961
Worker	0.1533	0.0919	1.1794	3.6400e-003	0.3832	2.2600e-003	0.3855	0.1016	2.0800e-003	0.1037		363.1782	363.1782	8.4200e-003		363.3886
Total	**0.1761**	**0.8660**	**1.3233**	**5.7300e-003**	**0.4322**	**4.1600e-003**	**0.4364**	**0.1157**	**3.8900e-003**	**0.1196**		**581.5652**	**581.5652**	**0.0208**		**582.0847**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	68.9209					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
Total	**69.1255**	**1.4085**	**1.8136**	**2.9700e-003**		**0.0817**	**0.0817**		**0.0817**	**0.0817**	**0.0000**	**281.4481**	**281.4481**	**0.0183**		**281.9062**

3.4 Architectural Coating - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0228	0.7741	0.1439	2.0900e-003	0.0490	1.9000e-003	0.0509	0.0141	1.8100e-003	0.0159		218.3870	218.3870	0.0124		218.6961
Worker	0.1533	0.0919	1.1794	3.6400e-003	0.3832	2.2600e-003	0.3855	0.1016	2.0800e-003	0.1037		363.1782	363.1782	8.4200e-003		363.3886
Total	**0.1761**	**0.8660**	**1.3233**	**5.7300e-003**	**0.4322**	**4.1600e-003**	**0.4364**	**0.1157**	**3.8900e-003**	**0.1196**		**581.5652**	**581.5652**	**0.0208**		**582.0847**

3.5 Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225		2,207.6603	2,207.6603	0.7140		2,225.5104
Paving	1.8402					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**2.9431**	**11.1249**	**14.5805**	**0.0228**		**0.5679**	**0.5679**		**0.5225**	**0.5225**		**2,207.6603**	**2,207.6603**	**0.7140**		**2,225.5104**

3.5 Paving - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0114	0.3871	0.0719	1.0400e-003	0.0245	9.5000e-004	0.0255	7.0600e-003	9.1000e-004	7.9700e-003		109.1935	109.1935	6.1800e-003		109.3481
Worker	0.0818	0.0490	0.6290	1.9400e-003	0.2044	1.2000e-003	0.2056	0.0542	1.1100e-003	0.0553		193.6950	193.6950	4.4900e-003		193.8072
Total	**0.0932**	**0.4361**	**0.7009**	**2.9800e-003**	**0.2289**	**2.1500e-003**	**0.2310**	**0.0613**	**2.0200e-003**	**0.0633**		**302.8885**	**302.8885**	**0.0107**		**303.1553**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225	0.0000	2,207.6603	2,207.6603	0.7140		2,225.5104
Paving	1.8402					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**2.9431**	**11.1249**	**14.5805**	**0.0228**		**0.5679**	**0.5679**		**0.5225**	**0.5225**	**0.0000**	**2,207.6603**	**2,207.6603**	**0.7140**		**2,225.5104**

3.5 Paving - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0114	0.3871	0.0719	1.0400e-003	0.0245	9.5000e-004	0.0255	7.0600e-003	9.1000e-004	7.9700e-003		109.1935	109.1935	6.1800e-003		109.3481
Worker	0.0818	0.0490	0.6290	1.9400e-003	0.2044	1.2000e-003	0.2056	0.0542	1.1100e-003	0.0553		193.6950	193.6950	4.4900e-003		193.8072
Total	**0.0932**	**0.4361**	**0.7009**	**2.9800e-003**	**0.2289**	**2.1500e-003**	**0.2310**	**0.0613**	**2.0200e-003**	**0.0633**		**302.8885**	**302.8885**	**0.0107**		**303.1553**

3.6 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643
Total	**1.9009**	**17.4321**	**16.5752**	**0.0269**		**0.9586**	**0.9586**		**0.9013**	**0.9013**		**2,553.3639**	**2,553.3639**	**0.6160**		**2,568.7643**

3.6 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0615	2.0372	0.3906	5.2600e-003	0.1226	5.4800e-003	0.1281	0.0353	5.2500e-003	0.0405		551.0728	551.0728	0.0326		551.8875
Worker	0.5506	0.3420	4.2964	0.0126	1.2773	7.7700e-003	1.2851	0.3387	7.1600e-003	0.3459		1,255.3088	1,255.3088	0.0313		1,256.0919
Total	**0.6121**	**2.3792**	**4.6870**	**0.0179**	**1.3999**	**0.0133**	**1.4131**	**0.3740**	**0.0124**	**0.3864**		**1,806.3816**	**1,806.3816**	**0.0639**		**1,807.9794**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643
Total	**1.9009**	**17.4321**	**16.5752**	**0.0269**		**0.9586**	**0.9586**		**0.9013**	**0.9013**	**0.0000**	**2,553.3639**	**2,553.3639**	**0.6160**		**2,568.7643**

3.6 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0615	2.0372	0.3906	5.2600e-003	0.1226	5.4800e-003	0.1281	0.0353	5.2500e-003	0.0405		551.0728	551.0728	0.0326		551.8875
Worker	0.5506	0.3420	4.2964	0.0126	1.2773	7.7700e-003	1.2851	0.3387	7.1600e-003	0.3459		1,255.3088	1,255.3088	0.0313		1,256.0919
Total	**0.6121**	**2.3792**	**4.6870**	**0.0179**	**1.3999**	**0.0133**	**1.4131**	**0.3740**	**0.0124**	**0.3864**		**1,806.3816**	**1,806.3816**	**0.0639**		**1,807.9794**

3.6 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322
Total	**1.7062**	**15.6156**	**16.3634**	**0.0269**		**0.8090**	**0.8090**		**0.7612**	**0.7612**		**2,554.3336**	**2,554.3336**	**0.6120**		**2,569.6322**

3.6 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0570	1.9353	0.3597	5.2100e-003	0.1226	4.7400e-003	0.1273	0.0353	4.5400e-003	0.0398		545.9676	545.9676	0.0309		546.7403
Worker	0.5111	0.3064	3.9313	0.0122	1.2773	7.5300e-003	1.2848	0.3387	6.9300e-003	0.3457		1,210.5938	1,210.5938	0.0281		1,211.2953
Total	**0.5681**	**2.2417**	**4.2910**	**0.0174**	**1.3999**	**0.0123**	**1.4121**	**0.3740**	**0.0115**	**0.3855**		**1,756.5614**	**1,756.5614**	**0.0590**		**1,758.0356**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
Total	**1.7062**	**15.6156**	**16.3634**	**0.0269**		**0.8090**	**0.8090**		**0.7612**	**0.7612**	**0.0000**	**2,554.3336**	**2,554.3336**	**0.6120**		**2,569.6322**

3.6 Building Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0570	1.9353	0.3597	5.2100e-003	0.1226	4.7400e-003	0.1273	0.0353	4.5400e-003	0.0398		545.9676	545.9676	0.0309		546.7403
Worker	0.5111	0.3064	3.9313	0.0122	1.2773	7.5300e-003	1.2848	0.3387	6.9300e-003	0.3457		1,210.5938	1,210.5938	0.0281		1,211.2953
Total	**0.5681**	**2.2417**	**4.2910**	**0.0174**	**1.3999**	**0.0123**	**1.4121**	**0.3740**	**0.0115**	**0.3855**		**1,756.5614**	**1,756.5614**	**0.0590**		**1,758.0356**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
General Office Building	0.00	0.00	0.00		
General Office Building	0.00	0.00	0.00		
General Office Building	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	14.70	6.60	6.60	33.00	48.00	19.00	66	28	6
General Office Building	14.70	6.60	6.60	33.00	48.00	19.00	77	19	4
General Office Building	14.70	6.60	6.60	33.00	48.00	19.00	77	19	4
General Office Building	14.70	6.60	6.60	33.00	48.00	19.00	77	19	4
Other Asphalt Surfaces	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0
Parking Lot	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	14.70	6.60	6.60	59.00	0.00	41.00	92	5	3
Unrefrigerated Warehouse-No	14.70	6.60	6.60	59.00	0.00	41.00	92	5	3
Unrefrigerated Warehouse-No	14.70	6.60	6.60	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.556917	0.035296	0.183646	0.120139	0.017882	0.004687	0.016156	0.056151	0.001190	0.001453	0.005055	0.000610	0.000818
General Office Building	0.556917	0.035296	0.183646	0.120139	0.017882	0.004687	0.016156	0.056151	0.001190	0.001453	0.005055	0.000610	0.000818
Other Asphalt Surfaces	0.556917	0.035296	0.183646	0.120139	0.017882	0.004687	0.016156	0.056151	0.001190	0.001453	0.005055	0.000610	0.000818
Parking Lot	0.556917	0.035296	0.183646	0.120139	0.017882	0.004687	0.016156	0.056151	0.001190	0.001453	0.005055	0.000610	0.000818
Unrefrigerated Warehouse-No Rail	0.556917	0.035296	0.183646	0.120139	0.017882	0.004687	0.016156	0.056151	0.001190	0.001453	0.005055	0.000610	0.000818

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Schulte Unmit - San Joaquin County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.1333	1.2113	1.0175	7.2700e-003		0.0921	0.0921		0.0921	0.0921		1,453.5988	1,453.5988	0.0279	0.0267	1,462.2368
NaturalGas Unmitigated	0.1333	1.2113	1.0175	7.2700e-003		0.0921	0.0921		0.0921	0.0921		1,453.5988	1,453.5988	0.0279	0.0267	1,462.2368

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	132.365	1.4300e-003	0.0130	0.0109	8.0000e-005		9.9000e-004	9.9000e-004		9.9000e-004	9.9000e-004		15.5723	15.5723	3.0000e-004	2.9000e-004	15.6649
General Office Building	132.544	1.4300e-003	0.0130	0.0109	8.0000e-005		9.9000e-004	9.9000e-004		9.9000e-004	9.9000e-004		15.5934	15.5934	3.0000e-004	2.9000e-004	15.6860
General Office Building	134.241	1.4500e-003	0.0132	0.0111	8.0000e-005		1.0000e-003	1.0000e-003		1.0000e-003	1.0000e-003		15.7930	15.7930	3.0000e-004	2.9000e-004	15.8869
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	2710.45	0.0292	0.2657	0.2232	1.5900e-003		0.0202	0.0202		0.0202	0.0202		318.8764	318.8764	6.1100e-003	5.8500e-003	320.7714
Unrefrigerated Warehouse-No Rail	4622.68	0.0499	0.4532	0.3807	2.7200e-003		0.0344	0.0344		0.0344	0.0344		543.8448	543.8448	0.0104	9.9700e-003	547.0766
Unrefrigerated Warehouse-No Rail	4623.31	0.0499	0.4533	0.3807	2.7200e-003		0.0345	0.0345		0.0345	0.0345		543.9189	543.9189	0.0104	9.9700e-003	547.1511
Total		**0.1333**	**1.2113**	**1.0175**	**7.2700e-003**		**0.0921**	**0.0921**		**0.0921**	**0.0921**		**1,453.5988**	**1,453.5988**	**0.0279**	**0.0267**	**1,462.2368**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	0.132365	1.4300e-003	0.0130	0.0109	8.0000e-005		9.9000e-004	9.9000e-004		9.9000e-004	9.9000e-004		15.5723	15.5723	3.0000e-004	2.9000e-004	15.6649
General Office Building	0.132544	1.4300e-003	0.0130	0.0109	8.0000e-005		9.9000e-004	9.9000e-004		9.9000e-004	9.9000e-004		15.5934	15.5934	3.0000e-004	2.9000e-004	15.6860
General Office Building	0.134241	1.4500e-003	0.0132	0.0111	8.0000e-005		1.0000e-003	1.0000e-003		1.0000e-003	1.0000e-003		15.7930	15.7930	3.0000e-004	2.9000e-004	15.8869
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	2.71045	0.0292	0.2657	0.2232	1.5900e-003		0.0202	0.0202		0.0202	0.0202		318.8764	318.8764	6.1100e-003	5.8500e-003	320.7714
Unrefrigerated Warehouse-No Rail	4.62268	0.0499	0.4532	0.3807	2.7200e-003		0.0344	0.0344		0.0344	0.0344		543.8448	543.8448	0.0104	9.9700e-003	547.0766
Unrefrigerated Warehouse-No Rail	4.62331	0.0499	0.4533	0.3807	2.7200e-003		0.0345	0.0345		0.0345	0.0345		543.9189	543.9189	0.0104	9.9700e-003	547.1511
Total		**0.1333**	**1.2113**	**1.0175**	**7.2700e-003**		**0.0921**	**0.0921**		**0.0921**	**0.0921**		**1,453.5988**	**1,453.5988**	**0.0279**	**0.0267**	**1,462.2368**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	17.0910	1.1900e-003	0.1301	1.0000e-005		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004		0.2784	0.2784	7.3000e-004		0.2968
Unmitigated	17.0910	1.1900e-003	0.1301	1.0000e-005		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004		0.2784	0.2784	7.3000e-004		0.2968

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.2085					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	15.8704					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0121	1.1900e-003	0.1301	1.0000e-005		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004		0.2784	0.2784	7.3000e-004		0.2968
Total	**17.0910**	**1.1900e-003**	**0.1301**	**1.0000e-005**		**4.6000e-004**	**4.6000e-004**		**4.6000e-004**	**4.6000e-004**		**0.2784**	**0.2784**	**7.3000e-004**		**0.2968**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.2085					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	15.8704					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0121	1.1900e-003	0.1301	1.0000e-005		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004		0.2784	0.2784	7.3000e-004		0.2968
Total	**17.0910**	**1.1900e-003**	**0.1301**	**1.0000e-005**		**4.6000e-004**	**4.6000e-004**		**4.6000e-004**	**4.6000e-004**		**0.2784**	**0.2784**	**7.3000e-004**		**0.2968**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Fire Pump	1	1	50	300	0.73	Diesel

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

10.1 Stationary Sources

Unmitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	lb/day										lb/day					
Fire Pump - Diesel (300 - 600 HP)	0.4923	1.3760	1.2553	2.3700e-003		0.0724	0.0724		0.0724	0.0724		251.8542	251.8542	0.0353		252.7370
Total	**0.4923**	**1.3760**	**1.2553**	**2.3700e-003**		**0.0724**	**0.0724**		**0.0724**	**0.0724**		**251.8542**	**251.8542**	**0.0353**		**252.7370**

11.0 Vegetation

Schulte Unmit

San Joaquin County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	2.97	1000sqft	0.07	2,968.00	0
General Office Building	3.01	1000sqft	0.07	3,006.00	0
General Office Building	2.96	1000sqft	0.07	2,964.00	0
Unrefrigerated Warehouse-No Rail	278.93	1000sqft	6.40	278,927.00	0
Unrefrigerated Warehouse-No Rail	278.89	1000sqft	6.40	278,889.00	0
Unrefrigerated Warehouse-No Rail	163.52	1000sqft	3.75	163,523.00	0
Other Asphalt Surfaces	10.02	Acre	10.02	436,471.20	0
Parking Lot	526.00	Space	4.73	210,400.00	0
City Park	5.96	Acre	5.96	259,617.60	0

1.2 Other Project Characteristics

Urbanization	Rural	**Wind Speed (m/s)**	2.7	**Precipitation Freq (Days)**	51
Climate Zone	2			**Operational Year**	2022
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	206	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - RPS based on PG&E 2018 reported factor https://www.pgecorp.com/corp_responsibility/reports/2020/assets/PGE_CRSR_2020.pdf

Land Use - City park represents landscape and outdoor water use.

Construction Phase - Data provided by applicant.

Trips and VMT - Data provided by applicant.

Grading -

Architectural Coating - SJVAPCD Rule 4601 VOC limits

Vehicle Trips - Quantified in spreadsheet using EMFAC2017

Area Coating - SJVAPCD Rule 4601 VOC limits

Energy Use - Compliance with 2019 T24 10% electricity reduction, 1% NG reduction
Electricity use from water pump included

Water And Wastewater - Outdoor wateruse City Park land use represents landscaping. Project will be on 100% septic.
Water and wastewater would use onsite electric pump. Added to electricity use.

Construction Off-road Equipment Mitigation - Fugitive dust control measures

Operational Off-Road Equipment - .

Stationary Sources - Emergency Generators and Fire Pumps -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	100.00
tblArchitecturalCoating	EF_Nonresidential_Interior	150.00	50.00
tblArchitecturalCoating	EF_Parking	150.00	100.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	150	100
tblAreaCoating	Area_EF_Nonresidential_Interior	150	50
tblAreaCoating	Area_EF_Parking	150	100
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	30.00	11.00
tblConstructionPhase	NumDays	75.00	33.00
tblConstructionPhase	NumDays	55.00	64.00
tblConstructionPhase	NumDays	55.00	21.00

tblConstructionPhase	NumDays	740.00	151.00
tblEnergyUse	NT24E	1.77	1.85
tblEnergyUse	T24E	3.22	2.90
tblEnergyUse	T24E	0.50	0.45
tblEnergyUse	T24NG	15.99	15.83
tblEnergyUse	T24NG	6.11	6.05
tblLandUse	LandUseSquareFeet	2,960.00	2,964.00
tblLandUse	LandUseSquareFeet	2,970.00	2,968.00
tblLandUse	LandUseSquareFeet	3,010.00	3,006.00
tblLandUse	LandUseSquareFeet	163,520.00	163,523.00
tblLandUse	LandUseSquareFeet	278,890.00	278,889.00
tblLandUse	LandUseSquareFeet	278,930.00	278,927.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	206
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblTripsAndVMT	VendorTripNumber	0.00	8.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	268.00	20.00
tblTripsAndVMT	WorkerTripNumber	137.00	30.00
tblTripsAndVMT	WorkerTripNumber	15.00	16.00
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tblVehicleTrips	SU_TR	1.68	0.00
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tblWater	AerobicPercent	87.46	0.00
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tblWater	SepticTankPercent	10.33	100.00
tblWater	SepticTankPercent	10.33	100.00
tblWater	SepticTankPercent	10.33	100.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	4.3239	47.0986	31.7516	0.0658	18.3329	2.0476	20.3805	10.0022	1.8838	11.8861	0.0000	6,391.1824	6,391.1824	1.9593	0.0000	6,440.1659
2022	72.3468	20.2339	23.1261	0.0511	1.8321	0.9075	2.7395	0.4898	0.8585	1.3483	0.0000	4,980.6369	4,980.6369	0.7646	0.0000	4,998.4177
Maximum	**72.3468**	**47.0986**	**31.7516**	**0.0658**	**18.3329**	**2.0476**	**20.3805**	**10.0022**	**1.8838**	**11.8861**	**0.0000**	**6,391.1824**	**6,391.1824**	**1.9593**	**0.0000**	**6,440.1659**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	4.3239	47.0986	31.7516	0.0658	7.3125	2.0476	9.3601	3.9445	1.8838	5.8284	0.0000	6,391.1824	6,391.1824	1.9593	0.0000	6,440.1659
2022	72.3468	20.2339	23.1261	0.0511	1.8321	0.9075	2.7395	0.4898	0.8585	1.3483	0.0000	4,980.6369	4,980.6369	0.7646	0.0000	4,998.4177
Maximum	**72.3468**	**47.0986**	**31.7516**	**0.0658**	**7.3125**	**2.0476**	**9.3601**	**3.9445**	**1.8838**	**5.8284**	**0.0000**	**6,391.1824**	**6,391.1824**	**1.9593**	**0.0000**	**6,440.1659**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**54.65**	**0.00**	**47.67**	**57.74**	**0.00**	**45.77**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	17.0910	1.1900e-003	0.1301	1.0000e-005		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004		0.2784	0.2784	7.3000e-004		0.2968
Energy	0.1333	1.2113	1.0175	7.2700e-003		0.0921	0.0921		0.0921	0.0921		1,453.5988	1,453.5988	0.0279	0.0267	1,462.2368
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Stationary	0.4923	1.3760	1.2553	2.3700e-003		0.0724	0.0724		0.0724	0.0724		251.8542	251.8542	0.0353		252.7370
Total	**17.7166**	**2.5885**	**2.4029**	**9.6500e-003**	**0.0000**	**0.1649**	**0.1649**	**0.0000**	**0.1649**	**0.1649**		**1,705.7315**	**1,705.7315**	**0.0639**	**0.0267**	**1,715.2706**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	17.0910	1.1900e-003	0.1301	1.0000e-005		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004		0.2784	0.2784	7.3000e-004		0.2968
Energy	0.1333	1.2113	1.0175	7.2700e-003		0.0921	0.0921		0.0921	0.0921		1,453.5988	1,453.5988	0.0279	0.0267	1,462.2368
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Stationary	0.4923	1.3760	1.2553	2.3700e-003		0.0724	0.0724		0.0724	0.0724		251.8542	251.8542	0.0353		252.7370
Total	**17.7166**	**2.5885**	**2.4029**	**9.6500e-003**	**0.0000**	**0.1649**	**0.1649**	**0.0000**	**0.1649**	**0.1649**		**1,705.7315**	**1,705.7315**	**0.0639**	**0.0267**	**1,715.2706**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	7/1/2021	7/15/2021	5	11	
2	Grading	Grading	7/16/2021	8/31/2021	5	33	
3	Architectural Coating	Architectural Coating	2/1/2022	4/30/2022	5	64	
4	Paving	Paving	4/1/2022	4/30/2022	5	21	
5	Building Construction	Building Construction	9/1/2021	3/30/2022	5	151	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 82.5

Acres of Paving: 14.75

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,095,416; Non-Residential Outdoor: 365,139; Striped Parking Area: 38,812 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	6.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	6.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	30.00	8.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	16.00	4.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	100.00	20.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809		3,685.6569	3,685.6569	1.1920		3,715.4573
Total	**3.8882**	**40.4971**	**21.1543**	**0.0380**	**18.0663**	**2.0445**	**20.1107**	**9.9307**	**1.8809**	**11.8116**		**3,685.6569**	**3,685.6569**	**1.1920**		**3,715.4573**

3.2 Site Preparation - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0195	0.6157	0.1394	1.5300e-003	0.0368	1.7100e-003	0.0385	0.0106	1.6400e-003	0.0122		159.8905	159.8905	0.0110		160.1657
Worker	0.1018	0.0748	0.6604	2.0300e-003	0.2299	1.4000e-003	0.2313	0.0610	1.2900e-003	0.0623		201.8236	201.8236	4.9800e-003		201.9481
Total	**0.1214**	**0.6905**	**0.7998**	**3.5600e-003**	**0.2667**	**3.1100e-003**	**0.2698**	**0.0716**	**2.9300e-003**	**0.0745**		**361.7141**	**361.7141**	**0.0160**		**362.1138**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.0458	0.0000	7.0458	3.8730	0.0000	3.8730			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809	0.0000	3,685.6569	3,685.6569	1.1920		3,715.4573
Total	**3.8882**	**40.4971**	**21.1543**	**0.0380**	**7.0458**	**2.0445**	**9.0903**	**3.8730**	**1.8809**	**5.7539**	**0.0000**	**3,685.6569**	**3,685.6569**	**1.1920**		**3,715.4573**

3.2 Site Preparation - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0195	0.6157	0.1394	1.5300e-003	0.0368	1.7100e-003	0.0385	0.0106	1.6400e-003	0.0122		159.8905	159.8905	0.0110		160.1657
Worker	0.1018	0.0748	0.6604	2.0300e-003	0.2299	1.4000e-003	0.2313	0.0610	1.2900e-003	0.0623		201.8236	201.8236	4.9800e-003		201.9481
Total	**0.1214**	**0.6905**	**0.7998**	**3.5600e-003**	**0.2667**	**3.1100e-003**	**0.2698**	**0.0716**	**2.9300e-003**	**0.0745**		**361.7141**	**361.7141**	**0.0160**		**362.1138**

3.3 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620		1.9853	1.9853		1.8265	1.8265		6,007.0434	6,007.0434	1.9428		6,055.6134
Total	**4.1912**	**46.3998**	**30.8785**	**0.0620**	**8.6733**	**1.9853**	**10.6587**	**3.5965**	**1.8265**	**5.4230**		**6,007.0434**	**6,007.0434**	**1.9428**		**6,055.6134**

3.3 Grading - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0195	0.6157	0.1394	1.5300e-003	0.0368	1.7100e-003	0.0385	0.0106	1.6400e-003	0.0122		159.8905	159.8905	0.0110		160.1657
Worker	0.1132	0.0831	0.7338	2.2500e-003	0.2555	1.5500e-003	0.2570	0.0678	1.4300e-003	0.0692		224.2485	224.2485	5.5300e-003		224.3868
Total	**0.1327**	**0.6988**	**0.8732**	**3.7800e-003**	**0.2922**	**3.2600e-003**	**0.2955**	**0.0783**	**3.0700e-003**	**0.0814**		**384.1389**	**384.1389**	**0.0165**		**384.5524**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.3826	0.0000	3.3826	1.4026	0.0000	1.4026			0.0000			0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620		1.9853	1.9853		1.8265	1.8265	0.0000	6,007.0434	6,007.0434	1.9428		6,055.6134
Total	**4.1912**	**46.3998**	**30.8785**	**0.0620**	**3.3826**	**1.9853**	**5.3679**	**1.4026**	**1.8265**	**3.2292**	**0.0000**	**6,007.0434**	**6,007.0434**	**1.9428**		**6,055.6134**

3.3 Grading - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0195	0.6157	0.1394	1.5300e-003	0.0368	1.7100e-003	0.0385	0.0106	1.6400e-003	0.0122		159.8905	159.8905	0.0110		160.1657
Worker	0.1132	0.0831	0.7338	2.2500e-003	0.2555	1.5500e-003	0.2570	0.0678	1.4300e-003	0.0692		224.2485	224.2485	5.5300e-003		224.3868
Total	**0.1327**	**0.6988**	**0.8732**	**3.7800e-003**	**0.2922**	**3.2600e-003**	**0.2955**	**0.0783**	**3.0700e-003**	**0.0814**		**384.1389**	**384.1389**	**0.0165**		**384.5524**

3.4 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	68.9209					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
Total	**69.1255**	**1.4085**	**1.8136**	**2.9700e-003**		**0.0817**	**0.0817**		**0.0817**	**0.0817**		**281.4481**	**281.4481**	**0.0183**		**281.9062**

3.4 Architectural Coating - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0242	0.7788	0.1715	2.0200e-003	0.0490	1.9800e-003	0.0510	0.0141	1.9000e-003	0.0160		211.1686	211.1686	0.0140		211.5173
Worker	0.1578	0.1117	1.0036	3.2500e-003	0.3832	2.2600e-003	0.3855	0.1016	2.0800e-003	0.1037		324.4073	324.4073	7.4200e-003		324.5928
Total	**0.1820**	**0.8905**	**1.1751**	**5.2700e-003**	**0.4322**	**4.2400e-003**	**0.4365**	**0.1157**	**3.9800e-003**	**0.1197**		**535.5760**	**535.5760**	**0.0214**		**536.1101**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	68.9209					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
Total	**69.1255**	**1.4085**	**1.8136**	**2.9700e-003**		**0.0817**	**0.0817**		**0.0817**	**0.0817**	**0.0000**	**281.4481**	**281.4481**	**0.0183**		**281.9062**

3.4 Architectural Coating - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0242	0.7788	0.1715	2.0200e-003	0.0490	1.9800e-003	0.0510	0.0141	1.9000e-003	0.0160		211.1686	211.1686	0.0140		211.5173
Worker	0.1578	0.1117	1.0036	3.2500e-003	0.3832	2.2600e-003	0.3855	0.1016	2.0800e-003	0.1037		324.4073	324.4073	7.4200e-003		324.5928
Total	**0.1820**	**0.8905**	**1.1751**	**5.2700e-003**	**0.4322**	**4.2400e-003**	**0.4365**	**0.1157**	**3.9800e-003**	**0.1197**		**535.5760**	**535.5760**	**0.0214**		**536.1101**

3.5 Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225		2,207.6603	2,207.6603	0.7140		2,225.5104
Paving	1.8402					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**2.9431**	**11.1249**	**14.5805**	**0.0228**		**0.5679**	**0.5679**		**0.5225**	**0.5225**		**2,207.6603**	**2,207.6603**	**0.7140**		**2,225.5104**

3.5 Paving - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0121	0.3894	0.0857	1.0100e-003	0.0245	9.9000e-004	0.0255	7.0600e-003	9.5000e-004	8.0100e-003		105.5843	105.5843	6.9700e-003		105.7587
Worker	0.0842	0.0596	0.5353	1.7400e-003	0.2044	1.2000e-003	0.2056	0.0542	1.1100e-003	0.0553		173.0172	173.0172	3.9600e-003		173.1162
Total	**0.0963**	**0.4490**	**0.6210**	**2.7500e-003**	**0.2289**	**2.1900e-003**	**0.2311**	**0.0613**	**2.0600e-003**	**0.0633**		**278.6016**	**278.6016**	**0.0109**		**278.8748**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225	0.0000	2,207.6603	2,207.6603	0.7140		2,225.5104
Paving	1.8402					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**2.9431**	**11.1249**	**14.5805**	**0.0228**		**0.5679**	**0.5679**		**0.5225**	**0.5225**	**0.0000**	**2,207.6603**	**2,207.6603**	**0.7140**		**2,225.5104**

3.5 Paving - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0121	0.3894	0.0857	1.0100e-003	0.0245	9.9000e-004	0.0255	7.0600e-003	9.5000e-004	8.0100e-003		105.5843	105.5843	6.9700e-003		105.7587
Worker	0.0842	0.0596	0.5353	1.7400e-003	0.2044	1.2000e-003	0.2056	0.0542	1.1100e-003	0.0553		173.0172	173.0172	3.9600e-003		173.1162
Total	**0.0963**	**0.4490**	**0.6210**	**2.7500e-003**	**0.2289**	**2.1900e-003**	**0.2311**	**0.0613**	**2.0600e-003**	**0.0633**		**278.6016**	**278.6016**	**0.0109**		**278.8748**

3.6 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643
Total	**1.9009**	**17.4321**	**16.5752**	**0.0269**		**0.9586**	**0.9586**		**0.9013**	**0.9013**		**2,553.3639**	**2,553.3639**	**0.6160**		**2,568.7643**

3.6 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0652	2.0522	0.4646	5.0900e-003	0.1226	5.7100e-003	0.1283	0.0353	5.4600e-003	0.0408		532.9683	532.9683	0.0367		533.8855
Worker	0.5658	0.4157	3.6691	0.0113	1.2773	7.7700e-003	1.2851	0.3387	7.1600e-003	0.3459		1,121.2423	1,121.2423	0.0277		1,121.9339
Total	**0.6309**	**2.4679**	**4.1337**	**0.0163**	**1.3999**	**0.0135**	**1.4133**	**0.3740**	**0.0126**	**0.3866**		**1,654.2106**	**1,654.2106**	**0.0644**		**1,655.8194**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643
Total	**1.9009**	**17.4321**	**16.5752**	**0.0269**		**0.9586**	**0.9586**		**0.9013**	**0.9013**	**0.0000**	**2,553.3639**	**2,553.3639**	**0.6160**		**2,568.7643**

3.6 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0652	2.0522	0.4646	5.0900e-003	0.1226	5.7100e-003	0.1283	0.0353	5.4600e-003	0.0408		532.9683	532.9683	0.0367		533.8855
Worker	0.5658	0.4157	3.6691	0.0113	1.2773	7.7700e-003	1.2851	0.3387	7.1600e-003	0.3459		1,121.2423	1,121.2423	0.0277		1,121.9339
Total	**0.6309**	**2.4679**	**4.1337**	**0.0163**	**1.3999**	**0.0135**	**1.4133**	**0.3740**	**0.0126**	**0.3866**		**1,654.2106**	**1,654.2106**	**0.0644**		**1,655.8194**

3.6 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322
Total	**1.7062**	**15.6156**	**16.3634**	**0.0269**		**0.8090**	**0.8090**		**0.7612**	**0.7612**		**2,554.3336**	**2,554.3336**	**0.6120**		**2,569.6322**

3.6 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0605	1.9471	0.4287	5.0400e-003	0.1226	4.9600e-003	0.1275	0.0353	4.7400e-003	0.0400		527.9216	527.9216	0.0349		528.7933
Worker	0.5262	0.3722	3.3453	0.0109	1.2773	7.5300e-003	1.2848	0.3387	6.9300e-003	0.3457		1,081.3577	1,081.3577	0.0247		1,081.9759
Total	**0.5866**	**2.3193**	**3.7741**	**0.0159**	**1.3999**	**0.0125**	**1.4124**	**0.3740**	**0.0117**	**0.3857**		**1,609.2793**	**1,609.2793**	**0.0596**		**1,610.7692**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
Total	**1.7062**	**15.6156**	**16.3634**	**0.0269**		**0.8090**	**0.8090**		**0.7612**	**0.7612**	**0.0000**	**2,554.3336**	**2,554.3336**	**0.6120**		**2,569.6322**

3.6 Building Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0605	1.9471	0.4287	5.0400e-003	0.1226	4.9600e-003	0.1275	0.0353	4.7400e-003	0.0400		527.9216	527.9216	0.0349		528.7933
Worker	0.5262	0.3722	3.3453	0.0109	1.2773	7.5300e-003	1.2848	0.3387	6.9300e-003	0.3457		1,081.3577	1,081.3577	0.0247		1,081.9759
Total	**0.5866**	**2.3193**	**3.7741**	**0.0159**	**1.3999**	**0.0125**	**1.4124**	**0.3740**	**0.0117**	**0.3857**		**1,609.2793**	**1,609.2793**	**0.0596**		**1,610.7692**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
General Office Building	0.00	0.00	0.00		
General Office Building	0.00	0.00	0.00		
General Office Building	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	14.70	6.60	6.60	33.00	48.00	19.00	66	28	6
General Office Building	14.70	6.60	6.60	33.00	48.00	19.00	77	19	4
General Office Building	14.70	6.60	6.60	33.00	48.00	19.00	77	19	4
General Office Building	14.70	6.60	6.60	33.00	48.00	19.00	77	19	4
Other Asphalt Surfaces	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0
Parking Lot	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	14.70	6.60	6.60	59.00	0.00	41.00	92	5	3
Unrefrigerated Warehouse-No	14.70	6.60	6.60	59.00	0.00	41.00	92	5	3
Unrefrigerated Warehouse-No	14.70	6.60	6.60	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.556917	0.035296	0.183646	0.120139	0.017882	0.004687	0.016156	0.056151	0.001190	0.001453	0.005055	0.000610	0.000818
General Office Building	0.556917	0.035296	0.183646	0.120139	0.017882	0.004687	0.016156	0.056151	0.001190	0.001453	0.005055	0.000610	0.000818
Other Asphalt Surfaces	0.556917	0.035296	0.183646	0.120139	0.017882	0.004687	0.016156	0.056151	0.001190	0.001453	0.005055	0.000610	0.000818
Parking Lot	0.556917	0.035296	0.183646	0.120139	0.017882	0.004687	0.016156	0.056151	0.001190	0.001453	0.005055	0.000610	0.000818
Unrefrigerated Warehouse-No Rail	0.556917	0.035296	0.183646	0.120139	0.017882	0.004687	0.016156	0.056151	0.001190	0.001453	0.005055	0.000610	0.000818

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Schulte Unmit - San Joaquin County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.1333	1.2113	1.0175	7.2700e-003		0.0921	0.0921		0.0921	0.0921		1,453.5988	1,453.5988	0.0279	0.0267	1,462.2368
NaturalGas Unmitigated	0.1333	1.2113	1.0175	7.2700e-003		0.0921	0.0921		0.0921	0.0921		1,453.5988	1,453.5988	0.0279	0.0267	1,462.2368

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	132.365	1.4300e-003	0.0130	0.0109	8.0000e-005		9.9000e-004	9.9000e-004		9.9000e-004	9.9000e-004		15.5723	15.5723	3.0000e-004	2.9000e-004	15.6649
General Office Building	132.544	1.4300e-003	0.0130	0.0109	8.0000e-005		9.9000e-004	9.9000e-004		9.9000e-004	9.9000e-004		15.5934	15.5934	3.0000e-004	2.9000e-004	15.6860
General Office Building	134.241	1.4500e-003	0.0132	0.0111	8.0000e-005		1.0000e-003	1.0000e-003		1.0000e-003	1.0000e-003		15.7930	15.7930	3.0000e-004	2.9000e-004	15.8869
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	2710.45	0.0292	0.2657	0.2232	1.5900e-003		0.0202	0.0202		0.0202	0.0202		318.8764	318.8764	6.1100e-003	5.8500e-003	320.7714
Unrefrigerated Warehouse-No Rail	4622.68	0.0499	0.4532	0.3807	2.7200e-003		0.0344	0.0344		0.0344	0.0344		543.8448	543.8448	0.0104	9.9700e-003	547.0766
Unrefrigerated Warehouse-No Rail	4623.31	0.0499	0.4533	0.3807	2.7200e-003		0.0345	0.0345		0.0345	0.0345		543.9189	543.9189	0.0104	9.9700e-003	547.1511
Total		**0.1333**	**1.2113**	**1.0175**	**7.2700e-003**		**0.0921**	**0.0921**		**0.0921**	**0.0921**		**1,453.5988**	**1,453.5988**	**0.0279**	**0.0267**	**1,462.2368**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	0.132365	1.4300e-003	0.0130	0.0109	8.0000e-005		9.9000e-004	9.9000e-004		9.9000e-004	9.9000e-004		15.5723	15.5723	3.0000e-004	2.9000e-004	15.6649
General Office Building	0.132544	1.4300e-003	0.0130	0.0109	8.0000e-005		9.9000e-004	9.9000e-004		9.9000e-004	9.9000e-004		15.5934	15.5934	3.0000e-004	2.9000e-004	15.6860
General Office Building	0.134241	1.4500e-003	0.0132	0.0111	8.0000e-005		1.0000e-003	1.0000e-003		1.0000e-003	1.0000e-003		15.7930	15.7930	3.0000e-004	2.9000e-004	15.8869
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	2.71045	0.0292	0.2657	0.2232	1.5900e-003		0.0202	0.0202		0.0202	0.0202		318.8764	318.8764	6.1100e-003	5.8500e-003	320.7714
Unrefrigerated Warehouse-No Rail	4.62268	0.0499	0.4532	0.3807	2.7200e-003		0.0344	0.0344		0.0344	0.0344		543.8448	543.8448	0.0104	9.9700e-003	547.0766
Unrefrigerated Warehouse-No Rail	4.62331	0.0499	0.4533	0.3807	2.7200e-003		0.0345	0.0345		0.0345	0.0345		543.9189	543.9189	0.0104	9.9700e-003	547.1511
Total		**0.1333**	**1.2113**	**1.0175**	**7.2700e-003**		**0.0921**	**0.0921**		**0.0921**	**0.0921**		**1,453.5988**	**1,453.5988**	**0.0279**	**0.0267**	**1,462.2368**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	17.0910	1.1900e-003	0.1301	1.0000e-005		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004		0.2784	0.2784	7.3000e-004		0.2968
Unmitigated	17.0910	1.1900e-003	0.1301	1.0000e-005		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004		0.2784	0.2784	7.3000e-004		0.2968

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.2085					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	15.8704					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0121	1.1900e-003	0.1301	1.0000e-005		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004		0.2784	0.2784	7.3000e-004		0.2968
Total	**17.0910**	**1.1900e-003**	**0.1301**	**1.0000e-005**		**4.6000e-004**	**4.6000e-004**		**4.6000e-004**	**4.6000e-004**		**0.2784**	**0.2784**	**7.3000e-004**		**0.2968**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.2085					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	15.8704					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0121	1.1900e-003	0.1301	1.0000e-005		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004		0.2784	0.2784	7.3000e-004		0.2968
Total	**17.0910**	**1.1900e-003**	**0.1301**	**1.0000e-005**		**4.6000e-004**	**4.6000e-004**		**4.6000e-004**	**4.6000e-004**		**0.2784**	**0.2784**	**7.3000e-004**		**0.2968**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Fire Pump	1	1	50	300	0.73	Diesel

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

10.1 Stationary Sources

Unmitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	lb/day										lb/day					
Fire Pump - Diesel (300 - 600 HP)	0.4923	1.3760	1.2553	2.3700e-003		0.0724	0.0724		0.0724	0.0724		251.8542	251.8542	0.0353		252.7370
Total	**0.4923**	**1.3760**	**1.2553**	**2.3700e-003**		**0.0724**	**0.0724**		**0.0724**	**0.0724**		**251.8542**	**251.8542**	**0.0353**		**252.7370**

11.0 Vegetation

Schulte Warehouse Op Offroad Unmit

San Joaquin County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	1.00	1000sqft	0.02	1,000.00	0

1.2 Other Project Characteristics

Urbanization	Rural	**Wind Speed (m/s)**	2.7	**Precipitation Freq (Days)**	51
Climate Zone	2			**Operational Year**	2022
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	206	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - RPS based on PG&E 2018 reported factor https://www.pgecorp.com/corp_responsibility/reports/2020/assets/PGE_CRSR_2020.pdf

Land Use - Construction module used for operational off-road emissions

Construction Phase - Operational offroad equipment emissions only.

Off-road Equipment - SCAQMD High-Cube Warehouse Business Survey

Vehicle Trips - Operational off-road equipment only.

Consumer Products - Operational off-road equipment only.

Area Coating - Operational off-road equipment only.

Landscape Equipment - Operational off-road equipment only.

Energy Use - Operational off-road equipment only.

Water And Wastewater - Operational off-road equipment only.

Solid Waste - Operational off-road equipment only.

Schulte Warehouse Op Offroad Unmit - San Joaquin County, Annual

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Exterior	500	0
tblAreaCoating	Area_Nonresidential_Interior	1500	0
tblConstructionPhase	NumDays	100.00	365.00
tblConstructionPhase	NumDaysWeek	5.00	7.00
tblConstructionPhase	PhaseEndDate	5/20/2022	12/31/2022
tblEnergyUse	LightingElect	2.33	0.00
tblEnergyUse	NT24E	1.77	0.00
tblEnergyUse	T24E	0.50	0.00
tblEnergyUse	T24NG	6.11	0.00
tblOffRoadEquipment	HorsePower	402.00	200.00
tblOffRoadEquipment	LoadFactor	0.40	0.40
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	OffRoadEquipmentType		Rough Terrain Forklifts
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	206
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblSolidWaste	SolidWasteGenerationRate	0.94	0.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	WD_TR	1.68	0.00
tblWater	IndoorWaterUseRate	231,250.00	0.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.4778	6.1720	9.3910	0.0145	0.0000	0.2161	0.2161	0.0000	0.1989	0.1989	0.0000	1,274.0968	1,274.0968	0.4121	0.0000	1,284.3985
Maximum	**0.4778**	**6.1720**	**9.3910**	**0.0145**	**0.0000**	**0.2161**	**0.2161**	**0.0000**	**0.1989**	**0.1989**	**0.0000**	**1,274.0968**	**1,274.0968**	**0.4121**	**0.0000**	**1,284.3985**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.4778	6.1720	9.3910	0.0145	0.0000	0.2161	0.2161	0.0000	0.1989	0.1989	0.0000	1,274.0953	1,274.0953	0.4121	0.0000	1,284.3970
Maximum	**0.4778**	**6.1720**	**9.3910**	**0.0145**	**0.0000**	**0.2161**	**0.2161**	**0.0000**	**0.1989**	**0.1989**	**0.0000**	**1,274.0953**	**1,274.0953**	**0.4121**	**0.0000**	**1,284.3970**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-1-2022	3-31-2022	1.6397	1.6397
2	4-1-2022	6-30-2022	1.6579	1.6579
3	7-1-2022	9-30-2022	1.6761	1.6761
		Highest	1.6761	1.6761

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	3.9100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**3.9100e-003**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	3.9100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**3.9100e-003**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Operational offroad equipment only	Building Construction	1/1/2022	12/31/2022	7	365	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Operational offroad equipment only	Rough Terrain Forklifts	22	8.00	100	0.40
Operational offroad equipment only	Off-Highway Trucks	1	4.00	200	0.38
Operational offroad equipment only	Cranes	0	4.00	231	0.29
Operational offroad equipment only	Forklifts	0	6.00	89	0.20
Operational offroad equipment only	Tractors/Loaders/Backhoes	0	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Operational offroad equipment only	23	0.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Operational offroad equipment only - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.4778	6.1720	9.3910	0.0145		0.2161	0.2161		0.1989	0.1989	0.0000	1,274.0968	1,274.0968	0.4121	0.0000	1,284.3985
Total	**0.4778**	**6.1720**	**9.3910**	**0.0145**		**0.2161**	**0.2161**		**0.1989**	**0.1989**	**0.0000**	**1,274.0968**	**1,274.0968**	**0.4121**	**0.0000**	**1,284.3985**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.2 Operational offroad equipment only - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.4778	6.1720	9.3910	0.0145		0.2161	0.2161		0.1989	0.1989	0.0000	1,274.0953	1,274.0953	0.4121	0.0000	1,284.3970
Total	**0.4778**	**6.1720**	**9.3910**	**0.0145**		**0.2161**	**0.2161**		**0.1989**	**0.1989**	**0.0000**	**1,274.0953**	**1,274.0953**	**0.4121**	**0.0000**	**1,284.3970**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Unrefrigerated Warehouse-No	14.70	6.60	6.60	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Unrefrigerated Warehouse-No Rail	0.556917	0.035296	0.183646	0.120139	0.017882	0.004687	0.016156	0.056151	0.001190	0.001453	0.005055	0.000610	0.000818

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	3.9100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	3.9100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	3.9100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**3.9100e-003**					**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	3.9100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**3.9100e-003**					**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Unrefrigerated Warehouse-No Rail	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Unrefrigerated Warehouse-No Rail	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Schulte Warehouse Op Offroad Unmit

San Joaquin County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	1.00	1000sqft	0.02	1,000.00	0

1.2 Other Project Characteristics

Urbanization	Rural	**Wind Speed (m/s)**	2.7	**Precipitation Freq (Days)**	51
Climate Zone	2			**Operational Year**	2022
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	206	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - RPS based on PG&E 2018 reported factor https://www.pgecorp.com/corp_responsibility/reports/2020/assets/PGE_CRSR_2020.pdf

Land Use - Construction module used for operational off-road emissions

Construction Phase - Operational offroad equipment emissions only.

Off-road Equipment - SCAQMD High-Cube Warehouse Business Survey

Vehicle Trips - Operational off-road equipment only.

Consumer Products - Operational off-road equipment only.

Area Coating - Operational off-road equipment only.

Landscape Equipment - Operational off-road equipment only.

Energy Use - Operational off-road equipment only.

Water And Wastewater - Operational off-road equipment only.

Solid Waste - Operational off-road equipment only.

Schulte Warehouse Op Offroad Unmit - San Joaquin County, Summer

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Exterior	500	0
tblAreaCoating	Area_Nonresidential_Interior	1500	0
tblConstructionPhase	NumDays	100.00	365.00
tblConstructionPhase	NumDaysWeek	5.00	7.00
tblConstructionPhase	PhaseEndDate	5/20/2022	12/31/2022
tblEnergyUse	LightingElect	2.33	0.00
tblEnergyUse	NT24E	1.77	0.00
tblEnergyUse	T24E	0.50	0.00
tblEnergyUse	T24NG	6.11	0.00
tblOffRoadEquipment	HorsePower	402.00	200.00
tblOffRoadEquipment	LoadFactor	0.40	0.40
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	OffRoadEquipmentType		Rough Terrain Forklifts
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	206
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblSolidWaste	SolidWasteGenerationRate	0.94	0.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	WD_TR	1.68	0.00
tblWater	IndoorWaterUseRate	231,250.00	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	2.6179	33.8194	51.4574	0.0795	0.0000	1.1843	1.1843	0.0000	1.0896	1.0896	0.0000	7,695.6236	7,695.6236	2.4889	0.0000	7,757.8467
Maximum	**2.6179**	**33.8194**	**51.4574**	**0.0795**	**0.0000**	**1.1843**	**1.1843**	**0.0000**	**1.0896**	**1.0896**	**0.0000**	**7,695.6236**	**7,695.6236**	**2.4889**	**0.0000**	**7,757.8467**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	2.6179	33.8194	51.4574	0.0795	0.0000	1.1843	1.1843	0.0000	1.0896	1.0896	0.0000	7,695.6236	7,695.6236	2.4889	0.0000	7,757.8467
Maximum	**2.6179**	**33.8194**	**51.4574**	**0.0795**	**0.0000**	**1.1843**	**1.1843**	**0.0000**	**1.0896**	**1.0896**	**0.0000**	**7,695.6236**	**7,695.6236**	**2.4889**	**0.0000**	**7,757.8467**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.0214	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0214**	**0.0000**	**1.0000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**2.2000e-004**	**2.2000e-004**	**0.0000**	**0.0000**	**2.3000e-004**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.0214	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0214**	**0.0000**	**1.0000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**2.2000e-004**	**2.2000e-004**	**0.0000**	**0.0000**	**2.3000e-004**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Operational offroad equipment only	Building Construction	1/1/2022	12/31/2022	7	365	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Operational offroad equipment only	Rough Terrain Forklifts	22	8.00	100	0.40
Operational offroad equipment only	Off-Highway Trucks	1	4.00	200	0.38
Operational offroad equipment only	Cranes	0	4.00	231	0.29
Operational offroad equipment only	Forklifts	0	6.00	89	0.20
Operational offroad equipment only	Tractors/Loaders/Backhoes	0	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Operational offroad equipment only	23	0.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Operational offroad equipment only - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6179	33.8194	51.4574	0.0795		1.1843	1.1843		1.0896	1.0896		7,695.6236	7,695.6236	2.4889		7,757.8467
Total	**2.6179**	**33.8194**	**51.4574**	**0.0795**		**1.1843**	**1.1843**		**1.0896**	**1.0896**		**7,695.6236**	**7,695.6236**	**2.4889**		**7,757.8467**

3.2 Operational offroad equipment only - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6179	33.8194	51.4574	0.0795		1.1843	1.1843		1.0896	1.0896	0.0000	7,695.6236	7,695.6236	2.4889		7,757.8467
Total	**2.6179**	**33.8194**	**51.4574**	**0.0795**		**1.1843**	**1.1843**		**1.0896**	**1.0896**	**0.0000**	**7,695.6236**	**7,695.6236**	**2.4889**		**7,757.8467**

3.2 Operational offroad equipment only - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Unrefrigerated Warehouse-No	14.70	6.60	6.60	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Unrefrigerated Warehouse-No Rail	0.556917	0.035296	0.183646	0.120139	0.017882	0.004687	0.016156	0.056151	0.001190	0.001453	0.005055	0.000610	0.000818

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0214	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
Unmitigated	0.0214	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0214					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.0000e-005	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
Total	**0.0214**	**0.0000**	**1.0000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**2.2000e-004**	**2.2000e-004**	**0.0000**		**2.3000e-004**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0214					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.0000e-005	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
Total	**0.0214**	**0.0000**	**1.0000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**2.2000e-004**	**2.2000e-004**	**0.0000**		**2.3000e-004**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Schulte Warehouse Op Offroad Unmit

San Joaquin County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	1.00	1000sqft	0.02	1,000.00	0

1.2 Other Project Characteristics

Urbanization	Rural	**Wind Speed (m/s)**	2.7	**Precipitation Freq (Days)**	51
Climate Zone	2			**Operational Year**	2022
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	206	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - RPS based on PG&E 2018 reported factor https://www.pgecorp.com/corp_responsibility/reports/2020/assets/PGE_CRSR_2020.pdf

Land Use - Construction module used for operational off-road emissions

Construction Phase - Operational offroad equipment emissions only.

Off-road Equipment - SCAQMD High-Cube Warehouse Business Survey

Vehicle Trips - Operational off-road equipment only.

Consumer Products - Operational off-road equipment only.

Area Coating - Operational off-road equipment only.

Landscape Equipment - Operational off-road equipment only.

Energy Use - Operational off-road equipment only.

Water And Wastewater - Operational off-road equipment only.

Solid Waste - Operational off-road equipment only.

Schulte Warehouse Op Offroad Unmit - San Joaquin County, Winter

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Exterior	500	0
tblAreaCoating	Area_Nonresidential_Interior	1500	0
tblConstructionPhase	NumDays	100.00	365.00
tblConstructionPhase	NumDaysWeek	5.00	7.00
tblConstructionPhase	PhaseEndDate	5/20/2022	12/31/2022
tblEnergyUse	LightingElect	2.33	0.00
tblEnergyUse	NT24E	1.77	0.00
tblEnergyUse	T24E	0.50	0.00
tblEnergyUse	T24NG	6.11	0.00
tblOffRoadEquipment	HorsePower	402.00	200.00
tblOffRoadEquipment	LoadFactor	0.40	0.40
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	OffRoadEquipmentType		Rough Terrain Forklifts
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	206
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblSolidWaste	SolidWasteGenerationRate	0.94	0.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	WD_TR	1.68	0.00
tblWater	IndoorWaterUseRate	231,250.00	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	2.6179	33.8194	51.4574	0.0795	0.0000	1.1843	1.1843	0.0000	1.0896	1.0896	0.0000	7,695.6236	7,695.6236	2.4889	0.0000	7,757.8467
Maximum	**2.6179**	**33.8194**	**51.4574**	**0.0795**	**0.0000**	**1.1843**	**1.1843**	**0.0000**	**1.0896**	**1.0896**	**0.0000**	**7,695.6236**	**7,695.6236**	**2.4889**	**0.0000**	**7,757.8467**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	2.6179	33.8194	51.4574	0.0795	0.0000	1.1843	1.1843	0.0000	1.0896	1.0896	0.0000	7,695.6236	7,695.6236	2.4889	0.0000	7,757.8467
Maximum	**2.6179**	**33.8194**	**51.4574**	**0.0795**	**0.0000**	**1.1843**	**1.1843**	**0.0000**	**1.0896**	**1.0896**	**0.0000**	**7,695.6236**	**7,695.6236**	**2.4889**	**0.0000**	**7,757.8467**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.0214	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0214**	**0.0000**	**1.0000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**2.2000e-004**	**2.2000e-004**	**0.0000**	**0.0000**	**2.3000e-004**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.0214	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0214**	**0.0000**	**1.0000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**2.2000e-004**	**2.2000e-004**	**0.0000**	**0.0000**	**2.3000e-004**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Operational offroad equipment only	Building Construction	1/1/2022	12/31/2022	7	365	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Operational offroad equipment only	Rough Terrain Forklifts	22	8.00	100	0.40
Operational offroad equipment only	Off-Highway Trucks	1	4.00	200	0.38
Operational offroad equipment only	Cranes	0	4.00	231	0.29
Operational offroad equipment only	Forklifts	0	6.00	89	0.20
Operational offroad equipment only	Tractors/Loaders/Backhoes	0	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Operational offroad equipment only	23	0.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Operational offroad equipment only - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6179	33.8194	51.4574	0.0795		1.1843	1.1843		1.0896	1.0896		7,695.6236	7,695.6236	2.4889		7,757.8467
Total	**2.6179**	**33.8194**	**51.4574**	**0.0795**		**1.1843**	**1.1843**		**1.0896**	**1.0896**		**7,695.6236**	**7,695.6236**	**2.4889**		**7,757.8467**

3.2 Operational offroad equipment only - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6179	33.8194	51.4574	0.0795		1.1843	1.1843		1.0896	1.0896	0.0000	7,695.6236	7,695.6236	2.4889		7,757.8467
Total	**2.6179**	**33.8194**	**51.4574**	**0.0795**		**1.1843**	**1.1843**		**1.0896**	**1.0896**	**0.0000**	**7,695.6236**	**7,695.6236**	**2.4889**		**7,757.8467**

3.2 Operational offroad equipment only - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Unrefrigerated Warehouse-No	14.70	6.60	6.60	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Unrefrigerated Warehouse-No Rail	0.556917	0.035296	0.183646	0.120139	0.017882	0.004687	0.016156	0.056151	0.001190	0.001453	0.005055	0.000610	0.000818

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0214	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
Unmitigated	0.0214	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0214					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.0000e-005	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
Total	**0.0214**	**0.0000**	**1.0000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**2.2000e-004**	**2.2000e-004**	**0.0000**		**2.3000e-004**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0214					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.0000e-005	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
Total	**0.0214**	**0.0000**	**1.0000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**2.2000e-004**	**2.2000e-004**	**0.0000**		**2.3000e-004**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

2022 Operation Mobile Source Assumptions Summary

Project Vehicle	EMFAC Class	Average Daily Trip Length (miles)	Max Daily Trips (trips/day)	Max Daily VMT (VMT/day)	Annual Trips (trips/year)	Annual VMT (VMT/year)
Trucks	HHDT and MHDT	40	381	15,224	138,918	5,556,734
Employees	LDA, LDT1, LDT2,and MCY Composite	14.7	801	11,780	292,505	4,299,825

Notes:

Project Vehicle	EMFAC Class	Average Daily Trip Length (miles)	Max Daily Trips (trips/day)	Max Daily VMT (VMT/day)	Annual Trips (trips/year)	Annual VMT (VMT/year)
Trucks	HHDT and MHDT	40	381	15,224	138,918	5,556,734
Employees	LDA, LDT1, LDT2,and MCY Composite	14.7	801	11,780	292,505	4,299,825

Project Vehicle	EMFAC Class	Max Daily Trips (trips/day)	Annual Trips (trips/year)
Trucks	HHDT and MHDT	381	138,918
Employees	LDA, LDT1, LDT2,and MCY Composite	801	292,505

Project Vehicle	EMFAC Class	Idling Minutes per Day (min/day)	Idling Minutes per Year (min/year)
Trucks	HHDT and MHDT	2,854	1,041,888

2022 Operation Mobile Source Assumptions Summary

Project Vehicle	EMFAC Class	Average Daily Trip Length (miles)	Max Daily Trips (trips/day)	Max Daily VMT (VMT/day)	Annual Trips (trips/year)	Annual VMT (VMT/year)
Trucks	HHDT and MHDT	40	381	15,224	138,918	5,556,734
Employees	LDA, LDT1, LDT2,and MCY Composite	14.7	801	11,780	292,505	4,299,825

Notes:

2022 Operation Mobile Source Emissions Summary - Annual Emissions

Emissions - Annual

	(Tons/Year)						(Metric Tons/Year)			
	ROG	NOx	CO	SOx	PM10	PM2.5	CO2	CH4	N2O	CO2e
	Running Exhaust, Tire Wear, and Break Wear									
	0.44	17.60	1.87	0.08	0.22	0.21	7,350.25	0.02	1.16	7,695.01
	0.12	0.28	3.86	0.01	0.01	0.01	1,201.96	0.02	0.03	1,209.97
	0.56	*17.88*	*5.73*	*0.09*	*0.23*	*0.22*	*8,552.21*	*0.04*	*1.18*	*8,904.97*

Project Vehicle	EMFAC Class	Average Daily Trip Length (miles)	Max Daily Trips (trips/day)	Max Daily VMT (VMT/day)	Annual Trips (trips/year)	Annual VMT (VMT/year)		PM10	PM2.5
								Paved Road - PM only	
Trucks	HHDT and MHDT	40	381	15,224	138,918	5,556,734		10.29	2.53
Employees	LDA, LDT1, LDT2,and MCY Composite	14.7	801	11,780	292,505	4,299,825		1.42	0.35
							Subtotal	*11.71*	*2.87*

Project Vehicle	EMFAC Class	Max Daily Trips (trips/day)	Annual Trips (trips/year)		ROG	NOx	CO	SOx	PM10	PM2.5	CO2	CH4	N2O	CO2e
					Starting Exhaust, Hot Soak, Running Loss Evaporative, Resting Loss Evap, Diurnal Loss Evap									
Trucks	HHDT and MHDT	381	138,918		0.00	0.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Employees	LDA, LDT1, LDT2,and MCY Composite	801	292,505		0.10	0.08	0.81	0.00	0.00	0.00	17.29	0.02	0.01	20.25
				Subtotal	*0.10*	*0.38*	*0.81*	*0.00*	*0.00*	*0.00*	*17.29*	*0.02*	*0.01*	*20.25*

Project Vehicle	EMFAC Class	Idling Minutes per Day (min/day)	Idling Minutes per Year (min/year)		ROG	NOx	CO	SOx	PM10	PM2.5	CO2	CH4	N2O	CO2e
					Idling									
Trucks	HHDT and MHDT	2,854	1,041,888		0.08	2.06	1.33	0.00	0.00	0.00	287.75	0.00	0.05	301.31
				Subtotal	*0.08*	*2.06*	*1.33*	*0.00*	*0.00*	*0.00*	*287.75*	*0.00*	*0.05*	*301.31*
				TOTAL	**0.73**	**20.32**	**7.88**	**0.09**	**11.95**	**3.10**	**8,857.25**	**0.06**	**1.23**	**9,226.53**

Land Use	ITE Code	Size/Unit		Daily
Trip Rate				
Warehousing	150	TSF		1.74
Trip Generation				
Building A	150	231.3	TSF	402
Building B	150	281.7	TSF	490
Building C	150	166.3	TSF	289
	Total	**679.3**	**TSF**	**1,182**
			Total Auto Trips	801
			Total Truck Trips	**381**

ITE 2016, Table 4
Daily Cars (68%

2022 Operation Mobile Source Emissions Factors - EMFAC2017 Annual

Emission Factors: Summary

Project Vehicle	Vehicle Classes	Fuel	Speed	ROG	NOx	CO	SOx	PM10	PM2.5	CO2	CH4	N2O
				Running Exhaust, Tire Wear, and Break Wear (grams/mile)								
Trucks	HHDT and MHDT	Diesel	Aggregate	0.072	2.873	0.306	0.012	0.036	0.035	1,322.764	0.003	0.208
Employees	LDA, LDT1, LDT2,and MCY Composite	Gas, Electric, & Diesel (Aggregate)	Aggregate	0.025	0.060	0.814	0.003	0.001	0.001	279.537	0.005	0.006

Project Vehicle	Vehicle Classes	PM10	PM2.5
		Paved Road - PM Only (grams/mile)	
Trucks	HHDT and MHDT	1.680	0.412
Employees/Customers	LDA, LDT1, LDT2,and MCY Composite	0.300	0.074

Project Vehicle	Vehicle Classes	Fuel	ROG	NOx	CO	SOx	PM10	PM2.5	CO2	CH4	N2O
			Starting Exhaust, Hot Soak, Running Loss Evaporative, Resting Loss Evap, Diurnal Loss Evap (grams/trip)								
Trucks	HHDT and MHDT	Diesel	0.000	2.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Employees	LDA, LDT1, LDT2,and MCY Composite	Gas, Electric, & Diesel (Aggregate)	0.296	0.234	2.520	0.001	0.002	0.002	59.126	0.064	0.029

Project Vehicle	Vehicle Classes	Fuel	ROG	NOx	CO	SOx	PM10	PM2.5	CO2	CH4	N2O
			Idling (grams/Idle-min/vehicle)								
Trucks	HHDT and MHDT	Diesel	0.069	1.791	1.161	0.003	0.003	0.003	276.177	0.003	0.043
Employees	LDA, LDT1, LDT2,and MCY Composite	Gas, Electric, & Diesel (Aggregate)	0	0	0	0	0	0	0	0	0

Table 5. Operation Mobile Source Emissions Factors - EMFAC2017 Annual ROG

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	ROG_RUNEX (g/mile)	ROG_IDLEX (g/vehicle/day)	ROG_STREX (g/trip)	ROG_HOTSOAK (g/trip)	ROG_RUNLOSS (g/trip)	ROG_RESTLOSS (g/vehicle/day)	ROG_DIURN (g/vehicle/day)	ROG_RESTLOSS - Calculated (g/trip)	ROG_DIURN - Calculated (g/trip)	STEX HOTSOAK RUNLOSS ROG RESTLOSS DIURN_Combined - Calculated (g/trip)
SAN JOAQUIN	2022	HHDT	DSL	Aggregated	9,637.39	1,305,623.61	110,977.95	0.06047002	5.768341739	0	0	0	0	0			
SAN JOAQUIN	2022	MHDT	DSL	Aggregated	6,836.84	440,086.59	61,946.19	0.105084145	0.09810879	0	0	0	0	0			
							HHDT and MHDT Composite	**0.0717**	**4.3389**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	-	-	**0.0000**
SAN JOAQUIN	2022	LDA	GAS	Aggregated	295,571.82	11,565,576.62	1,385,544.92	0.00883592	0	0.253690283	0.112987062	0.233739299	0.214639785	0.280833662			
SAN JOAQUIN	2022	LDA	DSL	Aggregated	2,451.05	102,467.91	11,659.84	0.011467623	0	0	0	0	0	0			
SAN JOAQUIN	2022	LDA	ELEC	Aggregated	4,655.34	185,122.07	23,308.45	0	0	0	0.004888026	0	0.007252408	0.024367178			
SAN JOAQUIN	2022	LDT1	GAS	Aggregated	29,833.74	1,046,839.73	134,977.44	0.025452623	0	0.447698624	0.256107083	0.879104885	0.507905203	0.747795938			
SAN JOAQUIN	2022	LDT1	DSL	Aggregated	22.77	402.06	78.48	0.150118448	0	0	0	0	0	0			
SAN JOAQUIN	2022	LDT1	ELEC	Aggregated	151.96	6,347.31	772.01	0	0	0	0.004888026	0	0.007252408	0.024367178			
SAN JOAQUIN	2022	LDT2	GAS	Aggregated	95,496.44	3,493,823.66	441,577.96	0.015595362	0	0.371885362	0.154125391	0.511634628	0.350903892	0.438610497			
SAN JOAQUIN	2022	LDT2	DSL	Aggregated	501.61	22,189.46	2,461.12	0.012486965	0	0	0	0	0	0			
SAN JOAQUIN	2022	LDT2	ELEC	Aggregated	774.55	24,427.93	3,914.96	0	0	0	0.004888026	0	0.007252408	0.024367178			
SAN JOAQUIN	2022	MCY	GAS	Aggregated	13,794.06	100,041.02	27,588.12	2.27153628	0	1.975923845	0.871582351	2.142934954	1.349058566	2.610697173			
							LDA, LDT1, LDT2, and MCY Composite	**0.0249**	**0.0000**	**0.2961**	**0.1330**	**0.3400**	**0.2645**	**0.3523**	**0.064351**	**0.090236**	**0.9237**

EMFAC2017 (v1.0.2) Emission Rates
Region Type: County
Region: SAN JOAQUIN
Calendar Year: 2022
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for VMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HTSK and RUNLS, g/vehicle/day for IDLEX, RESTL and DIURN. Note 'day' in the unit is operation day.
Model Year: Aggregated

Notes:

Idle Duration:

HHDT	109.4	min/day
MHDT	5.86	min/day
LHDT1	1.74	min/day
LHDT2	1.87	min/day
OBUS	5.9	min/day

Table 7. Operation Mobile Source Emissions Factors - EMFAC2017 Annual NOx

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	NOx_RUNEX (g/mile)	NOx_IDLEX (g/vehicle/day)	NOx_STREX (g/trip)
SAN JOAQUIN	2022	HHDT	DSL	Aggregated	9,637.39	1,305,623.61	110,977.95	3.032959208	74.24907831	2.099725175
SAN JOAQUIN	2022	MHDT	DSL	Aggregated	6,836.84	440,086.59	61,946.19	2.397623428	6.517379744	1.702276636
							HHDT and MHDT Composite	**2.8728**	**57.1742**	**1.9995**
SAN JOAQUIN	2022	LDA	GAS	Aggregated	295,571.82	11,565,576.62	1,385,544.92	0.039110816	0	0.203119916
SAN JOAQUIN	2022	LDA	DSL	Aggregated	2,451.05	102,467.91	11,659.84	0.079197234	0	0
SAN JOAQUIN	2022	LDA	ELEC	Aggregated	4,655.34	185,122.07	23,308.45	0	0	0
SAN JOAQUIN	2022	LDT1	GAS	Aggregated	29,833.74	1,046,839.73	134,977.44	0.11118987	0	0.305903978
SAN JOAQUIN	2022	LDT1	DSL	Aggregated	22.77	402.06	78.48	1.020675737	0	0
SAN JOAQUIN	2022	LDT1	ELEC	Aggregated	151.96	6,347.31	772.01	0	0	0
SAN JOAQUIN	2022	LDT2	GAS	Aggregated	95,496.44	3,493,823.66	441,577.96	0.084933348	0	0.330661868
SAN JOAQUIN	2022	LDT2	DSL	Aggregated	501.61	22,189.46	2,461.12	0.039841886	0	0
SAN JOAQUIN	2022	LDT2	ELEC	Aggregated	774.55	24,427.93	3,914.96	0	0	0
SAN JOAQUIN	2022	MCY	GAS	Aggregated	13,794.06	100,041.02	27,588.12	1.18248847	0	0.268842925
							LDA, LDT1, LDT2, and MCY Composite	**0.0600**	**0.0000**	**0.2343**

Table 8. Operation Mobile Source Emissions Factors - EMFAC2017 Annual CO

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	CO_RUNEX (g/mile)	CO_IDLEX (g/vehicle/day)	CO_STREX (g/trip)
SAN JOAQUIN	2022	HHDT	DSL	Aggregated	9,637.39	1,305,623.61	110,977.95	0.294338857	80.21545802	0
SAN JOAQUIN	2022	MHDT	DSL	Aggregated	6,836.84	440,086.59	61,946.19	0.340175807	2.508683417	0
							HHDT and MHDT Composite	**0.3059**	**60.6259**	**0.0000**
SAN JOAQUIN	2022	LDA	GAS	Aggregated	295,571.82	11,565,576.62	1,385,544.92	0.60598569	0	2.31886202
SAN JOAQUIN	2022	LDA	DSL	Aggregated	2,451.05	102,467.91	11,659.84	0.170620151	0	0
SAN JOAQUIN	2022	LDA	ELEC	Aggregated	4,655.34	185,122.07	23,308.45	0	0	0
SAN JOAQUIN	2022	LDT1	GAS	Aggregated	29,833.74	1,046,839.73	134,977.44	1.189421214	0	2.577740095
SAN JOAQUIN	2022	LDT1	DSL	Aggregated	22.77	402.06	78.48	1.043667679	0	0
SAN JOAQUIN	2022	LDT1	ELEC	Aggregated	151.96	6,347.31	772.01	0	0	0
SAN JOAQUIN	2022	LDT2	GAS	Aggregated	95,496.44	3,493,823.66	441,577.96	0.865105454	0	2.971322832
SAN JOAQUIN	2022	LDT2	DSL	Aggregated	501.61	22,189.46	2,461.12	0.101760831	0	0
SAN JOAQUIN	2022	LDT2	ELEC	Aggregated	774.55	24,427.93	3,914.96	0	0	0
SAN JOAQUIN	2022	MCY	GAS	Aggregated	13,794.06	100,041.02	27,588.12	21.73896281	0	8.941407975
							LDA, LDT1, LDT2, and MCY Composite	**0.8141**	**0.0000**	**2.5196**

Table 9. Operation Mobile Source Emissions Factors - EMFAC2017 Annual SO2

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	SO2_RUNEX (g/mile)	SO2_IDLEX (g/vehicle/day)	SO2_STREX (g/trip)
SAN JOAQUIN	2022	HHDT	DSL	Aggregated	9,637.39	1,305,623.61	110,977.95	0.01329397	0.135915285	0
SAN JOAQUIN	2022	MHDT	DSL	Aggregated	6,836.84	440,086.59	61,946.19	0.010131886	0.008009531	0
							HHDT and MHDT Composite	**0.0125**	**0.1037**	**0.0000**
SAN JOAQUIN	2022	LDA	GAS	Aggregated	295,571.82	11,565,576.62	1,385,544.92	0.00263761	0	0.000552868
SAN JOAQUIN	2022	LDA	DSL	Aggregated	2,451.05	102,467.91	11,659.84	0.001908836	0	0
SAN JOAQUIN	2022	LDA	ELEC	Aggregated	4,655.34	185,122.07	23,308.45	0	0	0
SAN JOAQUIN	2022	LDT1	GAS	Aggregated	29,833.74	1,046,839.73	134,977.44	0.003069363	0	0.000658016
SAN JOAQUIN	2022	LDT1	DSL	Aggregated	22.77	402.06	78.48	0.004062033	0	0
SAN JOAQUIN	2022	LDT1	ELEC	Aggregated	151.96	6,347.31	772.01	0	0	0
SAN JOAQUIN	2022	LDT2	GAS	Aggregated	95,496.44	3,493,823.66	441,577.96	0.003313563	0	0.000717705
SAN JOAQUIN	2022	LDT2	DSL	Aggregated	501.61	22,189.46	2,461.12	0.00257452	0	0
SAN JOAQUIN	2022	LDT2	ELEC	Aggregated	774.55	24,427.93	3,914.96	0	0	0
SAN JOAQUIN	2022	MCY	GAS	Aggregated	13,794.06	100,041.02	27,588.12	0.002117952	0	0.000619643
							LDA, LDT1, LDT2, and MCY Composite	**0.0028**	**0.0000**	**0.0006**

Table 10. Operation Mobile Source Emissions Factors - EMFAC2017 Annual PM10

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	PM10_RUNEX (g/mile)	PM10_IDLEX (g/vehicle/day)	PM10_STREX (g/trip)	PM10_PMTW (g/mile)	PM10_PMBW (g/mile)	PM10_Combined - Calculated (g/mile)
SAN JOAQUIN	2022	HHDT	DSL	Aggregated	9,637.39	1,305,623.61	110,977.95	0.034652141	0.038944264	0	0.035673994	0.061180899	
SAN JOAQUIN	2022	MHDT	DSL	Aggregated	6,836.84	440,086.59	61,946.19	0.041401418	0.016002073	0	0.012000003	0.130340037	
							HHDT and MHDT Composite	**0.0364**	**0.0332**	**0.0000**	**0.0297**	**0.0786**	**0.144676**
SAN JOAQUIN	2022	LDA	GAS	Aggregated	295,571.82	11,565,576.62	1,385,544.92	0.001364416	0	0.001948791	0.008000002	0.036750011	
SAN JOAQUIN	2022	LDA	DSL	Aggregated	2,451.05	102,467.91	11,659.84	0.006256576	0	0	0.008000002	0.036750011	
SAN JOAQUIN	2022	LDA	ELEC	Aggregated	4,655.34	185,122.07	23,308.45	0	0	0	0.008000002	0.036750011	
SAN JOAQUIN	2022	LDT1	GAS	Aggregated	29,833.74	1,046,839.73	134,977.44	0.001925566	0	0.002818125	0.008000002	0.036750011	
SAN JOAQUIN	2022	LDT1	DSL	Aggregated	22.77	402.06	78.48	0.118399306	0	0	0.008000002	0.036750011	
SAN JOAQUIN	2022	LDT1	ELEC	Aggregated	151.96	6,347.31	772.01	0	0	0	0.008000002	0.036750011	
SAN JOAQUIN	2022	LDT2	GAS	Aggregated	95,496.44	3,493,823.66	441,577.96	0.001415821	0	0.001966692	0.008000002	0.036750011	
SAN JOAQUIN	2022	LDT2	DSL	Aggregated	501.61	22,189.46	2,461.12	0.005297037	0	0	0.008000002	0.036750011	
SAN JOAQUIN	2022	LDT2	ELEC	Aggregated	774.55	24,427.93	3,914.96	0	0	0	0.008000002	0.036750011	
SAN JOAQUIN	2022	MCY	GAS	Aggregated	13,794.06	100,041.02	27,588.12	0.001845735	0	0.003082417	0.004000001	0.011760003	
							LDA, LDT1, LDT2, and MCY Composite	**0.0014**	**0.0000**	**0.0020**	**0.0080**	**0.0366**	**0.046009**

Table 11. Operation Mobile Source Emissions Factors - EMFAC2017 Annual PM2.5

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	PM2.5_RUNEX (g/mile)	PM2.5_IDLEX (g/vehicle/day)	PM2.5_STREX (g/trip)	PM2.5_PMTW (g/mile)	PM2.5_PMBW (g/mile)	PM2.5_Combined - Calculated (g/mile)
SAN JOAQUIN	2022	HHDT	DSL	Aggregated	9,637.39	1,305,623.61	110,977.95	0.033153105	0.037259552	0	0.008918498	0.026220385	
SAN JOAQUIN	2022	MHDT	DSL	Aggregated	6,836.84	440,086.59	61,946.19	0.039610411	0.015309831	0	0.003000001	0.055860016	
							HHDT and MHDT Composite	**0.0348**	**0.0317**	**0.0000**	**0.0074**	**0.0337**	**0.075899**
SAN JOAQUIN	2022	LDA	GAS	Aggregated	295,571.82	11,565,576.62	1,385,544.92	0.00125454	0	0.0017919	0.002000001	0.015750005	
SAN JOAQUIN	2022	LDA	DSL	Aggregated	2,451.05	102,467.91	11,659.84	0.005985919	0	0	0.002000001	0.015750005	
SAN JOAQUIN	2022	LDA	ELEC	Aggregated	4,655.34	185,122.07	23,308.45	0	0	0	0.002000001	0.015750005	
SAN JOAQUIN	2022	LDT1	GAS	Aggregated	29,833.74	1,046,839.73	134,977.44	0.001770563	0	0.002591352	0.002000001	0.015750005	
SAN JOAQUIN	2022	LDT1	DSL	Aggregated	22.77	402.06	78.48	0.113277404	0	0	0.002000001	0.015750005	
SAN JOAQUIN	2022	LDT1	ELEC	Aggregated	151.96	6,347.31	772.01	0	0	0	0.002000001	0.015750005	
SAN JOAQUIN	2022	LDT2	GAS	Aggregated	95,496.44	3,493,823.66	441,577.96	0.001301833	0	0.001808396	0.002000001	0.015750005	
SAN JOAQUIN	2022	LDT2	DSL	Aggregated	501.61	22,189.46	2,461.12	0.00506789	0	0	0.002000001	0.015750005	
SAN JOAQUIN	2022	LDT2	ELEC	Aggregated	774.55	24,427.93	3,914.96	0	0	0	0.002000001	0.015750005	
SAN JOAQUIN	2022	MCY	GAS	Aggregated	13,794.06	100,041.02	27,588.12	0.001728929	0	0.002907987	0.001	0.005040001	
							LDA, LDT1, LDT2, and MCY Composite	**0.0013**	**0.0000**	**0.0018**	**0.0020**	**0.0157**	**0.019000**

Table 12. Operation Mobile Source Emissions Factors - EMFAC2017 Annual CO2

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	CO2_RUNEX (g/mile)	CO2_IDLEX (g/vehicle/day)	CO2_STREX (g/trip)
SAN JOAQUIN	2022	HHDT	DSL	Aggregated	9,637.39	1,305,623.61	110,977.95	1407.141001	14386.36946	0
SAN JOAQUIN	2022	MHDT	DSL	Aggregated	6,836.84	440,086.59	61,946.19	1072.440463	847.7933539	0
							HHDT and MHDT Composite	**1322.7643**	**10973.3483**	**0.0000**
SAN JOAQUIN	2022	LDA	GAS	Aggregated	295,571.82	11,565,576.62	1,385,544.92	266.5380225	0	55.86889049
SAN JOAQUIN	2022	LDA	DSL	Aggregated	2,451.05	102,467.91	11,659.84	201.9163929	0	0
SAN JOAQUIN	2022	LDA	ELEC	Aggregated	4,655.34	185,122.07	23,308.45	0	0	0
SAN JOAQUIN	2022	LDT1	GAS	Aggregated	29,833.74	1,046,839.73	134,977.44	310.1679508	0	66.49442371
SAN JOAQUIN	2022	LDT1	DSL	Aggregated	22.77	402.06	78.48	429.6812221	0	0
SAN JOAQUIN	2022	LDT1	ELEC	Aggregated	151.96	6,347.31	772.01	0	0	0
SAN JOAQUIN	2022	LDT2	GAS	Aggregated	95,496.44	3,493,823.66	441,577.96	334.8450782	0	72.52618591
SAN JOAQUIN	2022	LDT2	DSL	Aggregated	501.61	22,189.46	2,461.12	272.3323645	0	0
SAN JOAQUIN	2022	LDT2	ELEC	Aggregated	774.55	24,427.93	3,914.96	0	0	0
SAN JOAQUIN	2022	MCY	GAS	Aggregated	13,794.06	100,041.02	27,588.12	214.0250857	0	62.61671874
							LDA, LDT1, LDT2, and MCY Composite	**279.5372**	**0.0000**	**59.1262**

EMFAC2017 (v1.0.2) Emission Rates
Region Type: County
Region: SAN JOAQUIN
Calendar Year: 2022
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for VMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HTSK and RUNLS, g/vehicle/day for IDLEX, RESTL and DIURN. Note 'day' in the
Model Year: Aggregated

Notes:

Idle Duration:

HHDT	109.4	min/day
MHDT	5.86	min/day
LHDT1	1.74	min/day
LHDT2	1.87	min/day

Table 14. Operation Mobile Source Emissions Factors - EMFAC2017 Annual N2O

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	N2O_RUNEX (g/mile)	N2O_IDLEX (g/vehicle/day)	N2O_STREX (g/trip)
SAN JOAQUIN	2022	HHDT	DSL	Aggregated	9,637.39	1,305,623.61	110,977.95	0.22118297	2.261336937	0
SAN JOAQUIN	2022	MHDT	DSL	Aggregated	6,836.84	440,086.59	61,946.19	0.168572706	0.133261309	0
							HHDT and MHDT Composite	**0.2079**	**1.7249**	**0.0000**
SAN JOAQUIN	2022	LDA	GAS	Aggregated	295,571.82	11,565,576.62	1,385,544.92	0.004545624	0	0.027237206
SAN JOAQUIN	2022	LDA	DSL	Aggregated	2,451.05	102,467.91	11,659.84	0.031738445	0	0
SAN JOAQUIN	2022	LDA	ELEC	Aggregated	4,655.34	185,122.07	23,308.45	0	0	0
SAN JOAQUIN	2022	LDT1	GAS	Aggregated	29,833.74	1,046,839.73	134,977.44	0.008495493	0	0.031527709
SAN JOAQUIN	2022	LDT1	DSL	Aggregated	22.77	402.06	78.48	0.067539904	0	0
SAN JOAQUIN	2022	LDT1	ELEC	Aggregated	151.96	6,347.31	772.01	0	0	0
SAN JOAQUIN	2022	LDT2	GAS	Aggregated	95,496.44	3,493,823.66	441,577.96	0.006943372	0	0.035105818
SAN JOAQUIN	2022	LDT2	DSL	Aggregated	501.61	22,189.46	2,461.12	0.042806855	0	0
SAN JOAQUIN	2022	LDT2	ELEC	Aggregated	774.55	24,427.93	3,914.96	0	0	0
SAN JOAQUIN	2022	MCY	GAS	Aggregated	13,794.06	100,041.02	27,588.12	0.067527944	0	0.015109267
							LDA, LDT1, LDT2, and MCY Composite	**0.0058**	**0.0000**	**0.0285**

EMFAC2017 (v1.0.2) Emission Rates
Region Type: County
Region: SAN JOAQUIN
Calendar Year: 2022
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for VMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HTSK and RUNLS, g/vehicle/day for IDLEX, RESTL and DIURN. Note 'day' in the
Model Year: Aggregated

Notes:

Idle Duration:

HHDT	109.4	min/day
MHDT	5.86	min/day
LHDT1	1.74	min/day
LHDT2	1.87	min/day
OBUS	5.9	min/day

Table 13. Operation Mobile Source Emissions Factors - EMFAC2017 Annual CH4

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	CH4_RUNEX (g/mile)	CH4_IDLEX (g/vehicle/day)	CH4_STREX (g/trip)
SAN JOAQUIN	2022	HHDT	DSL	Aggregated	9,637.39	1,305,623.61	110,977.95	0.002808676	0.267924534	0
SAN JOAQUIN	2022	MHDT	DSL	Aggregated	6,836.84	440,086.59	61,946.19	0.004880886	0.004556899	0
							HHDT and MHDT Composite	**0.0033**	**0.2015**	**0.0000**
SAN JOAQUIN	2022	LDA	GAS	Aggregated	295,571.82	11,565,576.62	1,385,544.92	0.002324067	0	0.056109618
SAN JOAQUIN	2022	LDA	DSL	Aggregated	2,451.05	102,467.91	11,659.84	0.000532649	0	0
SAN JOAQUIN	2022	LDA	ELEC	Aggregated	4,655.34	185,122.07	23,308.45	0	0	0
SAN JOAQUIN	2022	LDT1	GAS	Aggregated	29,833.74	1,046,839.73	134,977.44	0.005788869	0	0.086664866
SAN JOAQUIN	2022	LDT1	DSL	Aggregated	22.77	402.06	78.48	0.006972715	0	0
SAN JOAQUIN	2022	LDT1	ELEC	Aggregated	151.96	6,347.31	772.01	0	0	0
SAN JOAQUIN	2022	LDT2	GAS	Aggregated	95,496.44	3,493,823.66	441,577.96	0.003820813	0	0.077987729
SAN JOAQUIN	2022	LDT2	DSL	Aggregated	501.61	22,189.46	2,461.12	0.000579996	0	0
SAN JOAQUIN	2022	LDT2	ELEC	Aggregated	774.55	24,427.93	3,914.96	0	0	0
SAN JOAQUIN	2022	MCY	GAS	Aggregated	13,794.06	100,041.02	27,588.12	0.33124212	0	0.258745195
							LDA, LDT1, LDT2, and MCY Composite	**0.0048**	**0.0000**	**0.0645**

EMFAC2017 (v1.0.2) Emission Rates
Region Type: County
Region: SAN JOAQUIN
Calendar Year: 2022
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for VMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HTSK and RUNLS, g/vehicle/day for IDLEX, RESTL and DIURN. Note 'day' in the
Model Year: Aggregated

Notes:

Idle Duration:

HHDT	109.4	min/day
MHDT	5.86	min/day
LHDT1	1.74	min/day
LHDT2	1.87	min/day

Table 14. Paved Road Fugitive Emissions - Operation Mobile Sources

Equation:

$E = k \times (sL/2)^{0.91} \times (W)1.02$ [maximum day]

Where:			**Units**
k	particle size multiplier (PM_{10})	0.00220	lb/VMT
k	particle size multiplier ($PM_{2.5}$)	0.00054	lb/VMT
sL	silt loading (2)	0.1	g/m^2
W	average weight (tons) of the vehicle traveling the road	2.4	tons

Notes/References:
k = Emission factors from CalEEMod2016.3.1 per AP-42, Section 13.2.1 (Paved Roads).
sL = Silt loading from CalEEMod2016.3.2
For daily emissions it is assumed to have no precipitation.

Truck Weight Assumptions

EMFAC Definition	EMFAC Category	GVWR (pounds)	GVWR (tons)	
Heavy Heavy-Duty Truck	HHDT	>33,000	17	*Assumed 33,000 pounds*
Medium Heavy-Duty Truck	MHDT	14,001-33,000	8	*Assumed average of 14,001 & 33,000 pounds*
Composite Heavy & Medium Heavy-Duty Truck	HHDT & MHDT	14,001-33,000+	13	*Assumed average of HHDT & MHDT pounds*

Source: EMFAC 2014
GVWR = Gross Vehicle Weight Rating
1 pound = 0.0005 US tons

Employee Vehicles Evaluated:

Employee Type	Average Weight (tons)
Passenger Vehicles	2.4

Reference:
Source: CalEEMod2016.3.2 (average vehicle weight = 2.4 tons)
Per AP-42, Section 13.2.1 (Paved Roads): The above equation calls for the average weight of all vehicles traveling the road. For example, if 99 percent of traffic on the road are 2 ton cars/trucks while the remaining 1 percent consists of 20 ton trucks, then the mean weight "W" is 2.2 tons. More specifically, the above equation is not intended to be used to calculate a separate emission factor for each vehicle weight class. Instead, only one emission factor should be calculated to represent the "fleet" average weight of all vehicles traveling the road.

Emission Factors	**PM10 Paved Road (lb/VMT)**	**PM2.5 Paved Road (lb/VMT)**	**PM10 Paved Road (g/VMT)**	**PM2.5 Paved Road (g/VMT)**
HHDT	0.0049	0.0012	2.2087	0.5421
MHDT	0.0023	0.0006	1.0239	0.2513
HHDT & MHDT	0.0037	0.0009	1.6800	0.4124
Passenger Vehicles	0.0007	0.0002	0.2998	0.0736
Average	0.0022	0.0005	0.9899	0.2430

2022 Operation Mobile Source Assumptions Summary

Project Vehicle	EMFAC Class	Average Daily Trip Length (miles)	Max Daily Trips (trips/day)	Max Daily VMT (VMT/day)	Annual Trips (trips/year)	Annual VMT (VMT/year)
Trucks	HHDT and MHDT	40	381	15,224	138,918	5,556,734
Employees	LDA, LDT1, LDT2, and MCY Compo	14.7	801	11,780	292,505	4,299,825

Notes:

Project Vehicle	EMFAC Class	Average Daily Trip Length (miles)	Max Daily Trips (trips/day)	Max Daily VMT (VMT/day)	Annual Trips (trips/year)	Annual VMT (VMT/year)
Trucks	HHDT and MHDT	40	381	15,224	138,918	5,556,734
Employees	LDA, LDT1, LDT2, and MCY Compo	14.7	801	11,780	292,505	4,299,825

Project Vehicle	EMFAC Class	Max Daily Trips (trips/day)	Annual Trips (trips/year)
Trucks	HHDT and MHDT	380.598204	138,918
Employees	LDA, LDT1, LDT2, and MCY Compo	801.383796	292,505

Project Vehicle	EMFAC Class	Idling Minutes per Day (min/day)	Idling Minutes per Year (min/year)
Trucks	HHDT and MHDT	2,854	1,041,888

2022 Operation Mobile Source Emissions Summary - Summer Daily Emissions

Emissions - Daily (Pounds/Day)

	ROG	NOx	CO	SOx	PM10	PM2.5	CO2	CH4	N2O	CO2e
	Running Exhaust, Tire Wear, and Break Wear									
Trucks	2.41	91.91	10.27	0.42	1.22	1.17	35,994.37	0.11	6.98	38,076.73
Employees	0.67	1.41	24.97	0.08	0.04	0.03	7,868.33	0.13	0.14	7,914.04
Subtotal	*3.08*	*93.32*	*35.23*	*0.50*	*1.26*	*1.20*	*43,862.70*	*0.25*	*7.12*	*45,990.77*

	PM10	PM2.5
	Paved Road - PM only	
Trucks	56.39	13.84
Employees	7.79	1.91
Subtotal	*64.17*	*15.75*

	ROG	NOx	CO	SOx	PM10	PM2.5	CO2	CH4	N2O	CO2e
	Starting Exhaust, Hot Soak, Running Loss Evaporative, Resting Loss Evap, Diurnal Loss Evap									
Trucks	0.00	1.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Employees	0.43	0.38	3.61	0.00	0.00	0.00	102.80	0.10	0.05	119.27
Subtotal	*0.43*	*2.06*	*3.61*	*0.00*	*0.00*	*0.00*	*102.80*	*0.10*	*0.05*	*119.27*

	ROG	NOx	CO	SOx	PM10	PM2.5	CO2	CH4	N2O	CO2e
	Idling									
Trucks	0.45	11.10	7.06	0.02	0.02	0.02	#VALUE!	0.02	0.27	#VALUE!
Subtotal	*0.45*	*11.10*	*7.06*	*0.02*	*0.02*	*0.02*	*#VALUE!*	*0.02*	*0.27*	*#VALUE!*
TOTAL	**3.97**	**106.48**	**45.90**	**0.51**	**65.45**	**16.97**	**#VALUE!**	**0.36**	**7.44**	**#VALUE!**

2022 Operation Mobile Source Assumptions Summary

Project Vehicle	EMFAC Class	Average Daily Trip Length (miles)	Max Daily Trips (trips/day)	Max Daily VMT (VMT/day)	Annual Trips (trips/year)	Annual VMT (VMT/year)
Trucks	HHDT and MHDT	40	381	15,224	138,918	5,556,734
Employees	LDA, LDT1, LDT2, and MCY Compo	14.7	801	11,780	292,505	4,299,825

Notes:

Project Vehicle	EMFAC Class	Average Daily Trip Length (miles)	Max Daily Trips (trips/day)	Max Daily VMT (VMT/day)	Annual Trips (trips/year)	Annual VMT (VMT/year)
Trucks	HHDT and MHDT	40	381	15,224	138,918	5,556,734
Employees	LDA, LDT1, LDT2, and MCY Compo	14.7	801	11,780	292,505	4,299,825

Project Vehicle	EMFAC Class	Max Daily Trips (trips/day)	Annual Trips (trips/year)
Trucks	HHDT and MHDT	380.598204	138,918
Employees	LDA, LDT1, LDT2, and MCY Compo	801.383796	292,505

Project Vehicle	EMFAC Class	Idling Minutes per Day (min/day)	Idling Minutes per Year (min/year)
Trucks	HHDT and MHDT	2,854	1,041,888

Land Use	ITE Code	Size/Unit		Daily
Trip Rate				
Warehousing	150	TSF		1.74
Trip Generation				
Building A	150	231.3	TSF	402
Building B	150	281.7	TSF	490
Building C	150	166.3	TSF	289
	Total	**679.3**	**TSF**	**1,182**
			Total Auto Trips	801
			Total Truck Trips	**381**

ITE 2016, Table 4
Daily Cars (68%

2022 Operation Mobile Source Emissions Factors - EMFAC2017 Summer

Emission Factors: Summary

Project Vehicle	Vehicle Classes	Fuel	Speed	ROG	NOx	CO	SOx	PM10	PM2.5	CO2	CH4	N2O
				Running Exhaust, Tire Wear, and Break Wear (grams/mile)								
Trucks	HHDT and MHDT	Diesel	Aggregate	0.072	2.739	0.306	0.012	0.036	0.035	1,072.440	0.003	0.208
Employees	LDA, LDT1, LDT2, and MCY Composite	Gas, Electric, & Diesel (Aggregate)	Aggregate	0.026	0.054	0.961	0.003	0.001	0.001	302.963	0.005	0.005

Project Vehicle	Vehicle Classes	PM10	PM2.5
		Paved Road - PM Only (grams/mile)	
Trucks	HHDT and MHDT	1.680	0.412
Employees	LDA, LDT1, LDT2, and MCY Composite	0.300	0.074

Project Vehicle	Vehicle Classes	Fuel	ROG	NOx	CO	SOx	PM10	PM2.5	CO2	CH4	N2O
			Starting Exhaust, Hot Soak, Running Loss Evaporative, Resting Loss Evap, Diurnal Loss Evap (grams/trip)								
Trucks	HHDT and MHDT	Diesel	0.000	2.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Employees	LDA, LDT1, LDT2, and MCY Composite	Gas, Electric, & Diesel (Aggregate)	0.245	0.214	2.041	0.001	0.002	0.002	58.187	0.054	0.027

Project Vehicle	Vehicle Classes	Fuel	ROG	NOx	CO	SOx	PM10	PM2.5	CO2	CH4	N2O
			Idling (grams/Idle-min/vehicle)								
Trucks	HHDT and MHDT	Diesel	0.072	1.764	1.122	0.003	0.003	0.003	#VALUE!	0.003	0.043
Employees	LDA, LDT1, LDT2, and MCY Composite	Gas, Electric, & Diesel (Aggregate)	0	0	0	0	0	0	0	0	0

Table 5. Operation Mobile Source Emissions Factors - EMFAC2017 Summer ROG

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	ROG_RUNEX (g/mile)	ROG_IDLEX (g/vehicle/day)	ROG_STREX (g/trip)	ROG_HOTSOAK (g/trip)	ROG_RUNLOSS (g/trip)	ROG_RESTLOSS (g/vehicle/day)	ROG_DIURN (g/vehicle/day)	ROG_RESTLOSS - Calculated (g/trip)	ROG_DIURN - Calculated (g/trip)	STEX HOTSOAK RUNLOSS ROG RESTLOSS DIURN_Combined - Calculated (g/trip)
SAN JOAQUIN	2022	HHDT	DSL	Aggregated	9,637.39	1,305,623.61	110,977.95	0.06047002	6.058249402	0	0	0	0	0			
SAN JOAQUIN	2022	MHDT	DSL	Aggregated	6,836.84	440,086.59	61,946.19	0.105084145	0.098232984	0	0	0	0	0			
							HHDT and MHDT Composite	**0.0717**	**4.5558**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	-	-	**0.0000**
SAN JOAQUIN	2022	LDA	GAS	Aggregated	295,571.82	11,565,576.62	1,385,544.92	0.010046085	0	0.20966729	0.130639188	0.224968521	0.452154897	0.681613918			
SAN JOAQUIN	2022	LDA	DSL	Aggregated	2,451.05	102,467.91	11,659.84	0.011467623	0	0	0	0	0	0			
SAN JOAQUIN	2022	LDA	ELEC	Aggregated	4,655.34	185,122.07	23,308.45	0	0	0	0.004888026	0	0.026732833	0.066974447			
SAN JOAQUIN	2022	LDT1	GAS	Aggregated	29,833.74	1,046,839.73	134,977.44	0.028738267	0	0.367792629	0.311736602	0.839052299	1.090202944	1.841292955			
SAN JOAQUIN	2022	LDT1	DSL	Aggregated	22.77	402.06	78.48	0.150118448	0	0	0	0	0	0			
SAN JOAQUIN	2022	LDT1	ELEC	Aggregated	151.96	6,347.31	772.01	0	0	0	0.004888026	0	0.026732833	0.066974447			
SAN JOAQUIN	2022	LDT2	GAS	Aggregated	95,496.44	3,493,823.66	441,577.96	0.017661054	0	0.306790206	0.179011374	0.48886797	0.729606278	1.056893391			
SAN JOAQUIN	2022	LDT2	DSL	Aggregated	501.61	22,189.46	2,461.12	0.012486965	0	0	0	0	0	0			
SAN JOAQUIN	2022	LDT2	ELEC	Aggregated	774.55	24,427.93	3,914.96	0	0	0	0.004888026	0	0.026732833	0.066974447			
SAN JOAQUIN	2022	MCY	GAS	Aggregated	13,794.06	100,041.02	27,588.12	2.192289817	0	1.644790296	1.282553469	2.058275105	3.503459443	6.860979519			
							LDA, LDT1, LDT2, and MCY Composite	**0.0259**	**0.0000**	**0.2445**	**0.1566**	**0.3260**	**0.5606**	**0.8584**	**0.139929**	**0.222622**	**1.0897**

EMFAC2017 (v1.0.2) Emission Rates
Region Type: County
Region: SAN JOAQUIN
Calendar Year: 2022
Season: Summer
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for VMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HTSK and RUNLS, g/vehicle/day for IDLEX, RESTL and DIURN. Note 'day' in the unit is operation day.
Model Year: Aggregated

Notes:

Idle Duration:

HHDT	109.4	min/day
MHDT	5.86	min/day
LHDT1	1.74	min/day
LHDT2	1.87	min/day
OBUS	5.9	min/day

Table 7. Operation Mobile Source Emissions Factors - EMFAC2017 Summer NOx

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	NOx_RUNEX (g/mile)	NOx_IDLEX (g/vehicle/day)	NOx_STREX (g/trip)
SAN JOAQUIN	2022	HHDT	DSL	Aggregated	9,637.39	1,305,623.61	110,977.95	2.892410499	71.54012968	2.099725175
SAN JOAQUIN	2022	MHDT	DSL	Aggregated	6,836.84	440,086.59	61,946.19	2.281929107	6.504830494	1.702276636
							HHDT and MHDT Composite	**2.7385**	**55.1450**	**1.9995**
SAN JOAQUIN	2022	LDA	GAS	Aggregated	295,571.82	11,565,576.62	1,385,544.92	0.035580866	0	0.185249573
SAN JOAQUIN	2022	LDA	DSL	Aggregated	2,451.05	102,467.91	11,659.84	0.075316556	0	0
SAN JOAQUIN	2022	LDA	ELEC	Aggregated	4,655.34	185,122.07	23,308.45	0	0	0
SAN JOAQUIN	2022	LDT1	GAS	Aggregated	29,833.74	1,046,839.73	134,977.44	0.100234665	0	0.278883819
SAN JOAQUIN	2022	LDT1	DSL	Aggregated	22.77	402.06	78.48	0.970661702	0	0
SAN JOAQUIN	2022	LDT1	ELEC	Aggregated	151.96	6,347.31	772.01	0	0	0
SAN JOAQUIN	2022	LDT2	GAS	Aggregated	95,496.44	3,493,823.66	441,577.96	0.076921881	0	0.301541326
SAN JOAQUIN	2022	LDT2	DSL	Aggregated	501.61	22,189.46	2,461.12	0.037889672	0	0
SAN JOAQUIN	2022	LDT2	ELEC	Aggregated	774.55	24,427.93	3,914.96	0	0	0
SAN JOAQUIN	2022	MCY	GAS	Aggregated	13,794.06	100,041.02	27,588.12	1.022084979	0	0.247497174
							LDA, LDT1, LDT2, and MCY Composite	**0.0542**	**0.0000**	**0.2137**

Table 8. Operation Mobile Source Emissions Factors - EMFAC2017 Summer CO

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	CO_RUNEX (g/mile)	CO_IDLEX (g/vehicle/day)	CO_STREX (g/trip)
SAN JOAQUIN	2022	HHDT	DSL	Aggregated	9,637.39	1,305,623.61	110,977.95	0.294338857	78.7012278	0
SAN JOAQUIN	2022	MHDT	DSL	Aggregated	6,836.84	440,086.59	61,946.19	0.340175807	2.356743575	0
							HHDT and MHDT Composite	**0.3059**	**59.4551**	**0.0000**
SAN JOAQUIN	2022	LDA	GAS	Aggregated	295,571.82	11,565,576.62	1,385,544.92	0.741336809	0	1.871808471
SAN JOAQUIN	2022	LDA	DSL	Aggregated	2,451.05	102,467.91	11,659.84	0.170620151	0	0
SAN JOAQUIN	2022	LDA	ELEC	Aggregated	4,655.34	185,122.07	23,308.45	0	0	0
SAN JOAQUIN	2022	LDT1	GAS	Aggregated	29,833.74	1,046,839.73	134,977.44	1.431900866	0	2.071286386
SAN JOAQUIN	2022	LDT1	DSL	Aggregated	22.77	402.06	78.48	1.043667679	0	0
SAN JOAQUIN	2022	LDT1	ELEC	Aggregated	151.96	6,347.31	772.01	0	0	0
SAN JOAQUIN	2022	LDT2	GAS	Aggregated	95,496.44	3,493,823.66	441,577.96	1.049773087	0	2.390020773
SAN JOAQUIN	2022	LDT2	DSL	Aggregated	501.61	22,189.46	2,461.12	0.101760831	0	0
SAN JOAQUIN	2022	LDT2	ELEC	Aggregated	774.55	24,427.93	3,914.96	0	0	0
SAN JOAQUIN	2022	MCY	GAS	Aggregated	13,794.06	100,041.02	27,588.12	21.45662802	0	7.939431879
							LDA, LDT1, LDT2, and MCY Composite	**0.9613**	**0.0000**	**2.0412**

Table 9. Operation Mobile Source Emissions Factors - EMFAC2017 Summer SO2

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	SO2_RUNEX (g/mile)	SO2_IDLEX (g/vehicle/day)	SO2_STREX (g/trip)
SAN JOAQUIN	2022	HHDT	DSL	Aggregated	9,637.39	1,305,623.61	110,977.95	0.01329397	0.13504678	0
SAN JOAQUIN	2022	MHDT	DSL	Aggregated	6,836.84	440,086.59	61,946.19	0.010131886	0.008058876	0
							HHDT and MHDT Composite	**0.0125**	**0.1030**	**0.0000**
SAN JOAQUIN	2022	LDA	GAS	Aggregated	295,571.82	11,565,576.62	1,385,544.92	0.002875838	0	0.000544393
SAN JOAQUIN	2022	LDA	DSL	Aggregated	2,451.05	102,467.91	11,659.84	0.001908836	0	0
SAN JOAQUIN	2022	LDA	ELEC	Aggregated	4,655.34	185,122.07	23,308.45	0	0	0
SAN JOAQUIN	2022	LDT1	GAS	Aggregated	29,833.74	1,046,839.73	134,977.44	0.003310408	0	0.000647418
SAN JOAQUIN	2022	LDT1	DSL	Aggregated	22.77	402.06	78.48	0.004062033	0	0
SAN JOAQUIN	2022	LDT1	ELEC	Aggregated	151.96	6,347.31	772.01	0	0	0
SAN JOAQUIN	2022	LDT2	GAS	Aggregated	95,496.44	3,493,823.66	441,577.96	0.003550875	0	0.000706425
SAN JOAQUIN	2022	LDT2	DSL	Aggregated	501.61	22,189.46	2,461.12	0.00257452	0	0
SAN JOAQUIN	2022	LDT2	ELEC	Aggregated	774.55	24,427.93	3,914.96	0	0	0
SAN JOAQUIN	2022	MCY	GAS	Aggregated	13,794.06	100,041.02	27,588.12	0.002110767	0	0.000593043
							LDA, LDT1, LDT2, and MCY Composite	**0.0030**	**0.0000**	**0.0006**

Table 10. Operation Mobile Source Emissions Factors - EMFAC2017 Summer PM10

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	PM10_RUNEX (g/mile)	PM10_IDLEX (g/vehicle/day)	PM10_STREX (g/trip)	PM10_PMTW (g/mile)	PM10_PMBW (g/mile)	PM10_Combined - Calculated (g/mile)
SAN JOAQUIN	2022	HHDT	DSL	Aggregated	9,637.39	1,305,623.61	110,977.95	0.034652141	0.034470737	0	0.035673994	0.061180899	
SAN JOAQUIN	2022	MHDT	DSL	Aggregated	6,836.84	440,086.59	61,946.19	0.041401418	0.013527542	0	0.012000003	0.130340037	
							HHDT and MHDT Composite	**0.0364**	**0.0292**	**0.0000**	**0.0297**	**0.0786**	**0.144676**
SAN JOAQUIN	2022	LDA	GAS	Aggregated	295,571.82	11,565,576.62	1,385,544.92	0.001364416	0	0.001948791	0.008000002	0.036750011	
SAN JOAQUIN	2022	LDA	DSL	Aggregated	2,451.05	102,467.91	11,659.84	0.006256576	0	0	0.008000002	0.036750011	
SAN JOAQUIN	2022	LDA	ELEC	Aggregated	4,655.34	185,122.07	23,308.45	0	0	0	0.008000002	0.036750011	
SAN JOAQUIN	2022	LDT1	GAS	Aggregated	29,833.74	1,046,839.73	134,977.44	0.001925566	0	0.002818125	0.008000002	0.036750011	
SAN JOAQUIN	2022	LDT1	DSL	Aggregated	22.77	402.06	78.48	0.118399306	0	0	0.008000002	0.036750011	
SAN JOAQUIN	2022	LDT1	ELEC	Aggregated	151.96	6,347.31	772.01	0	0	0	0.008000002	0.036750011	
SAN JOAQUIN	2022	LDT2	GAS	Aggregated	95,496.44	3,493,823.66	441,577.96	0.001415821	0	0.001966692	0.008000002	0.036750011	
SAN JOAQUIN	2022	LDT2	DSL	Aggregated	501.61	22,189.46	2,461.12	0.005297037	0	0	0.008000002	0.036750011	
SAN JOAQUIN	2022	LDT2	ELEC	Aggregated	774.55	24,427.93	3,914.96	0	0	0	0.008000002	0.036750011	
SAN JOAQUIN	2022	MCY	GAS	Aggregated	13,794.06	100,041.02	27,588.12	0.001845735	0	0.003082417	0.004000001	0.011760003	
							LDA, LDT1, LDT2, and MCY Composite	**0.0014**	**0.0000**	**0.0020**	**0.0080**	**0.0366**	**0.046009**

Table 11. Operation Mobile Source Emissions Factors - EMFAC2017 Summer PM2.5

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	PM2.5_RUNEX (g/mile)	PM2.5_IDLEX (g/vehicle/day)	PM2.5_STREX (g/trip)	PM2.5_PMTW (g/mile)	PM2.5_PMBW (g/mile)	PM2.5_Combined - Calculated (g/mile)
SAN JOAQUIN	2022	HHDT	DSL	Aggregated	9,637.39	1,305,623.61	110,977.95	0.033153105	0.032979548	0	0.008918498	0.026220385	
SAN JOAQUIN	2022	MHDT	DSL	Aggregated	6,836.84	440,086.59	61,946.19	0.039610411	0.012942347	0	0.003000001	0.055860016	
							HHDT and MHDT Composite	**0.0348**	**0.0279**	**0.0000**	**0.0074**	**0.0337**	**0.075899**
SAN JOAQUIN	2022	LDA	GAS	Aggregated	295,571.82	11,565,576.62	1,385,544.92	0.00125454	0	0.0017919	0.002000001	0.015750005	
SAN JOAQUIN	2022	LDA	DSL	Aggregated	2,451.05	102,467.91	11,659.84	0.005985919	0	0	0.002000001	0.015750005	
SAN JOAQUIN	2022	LDA	ELEC	Aggregated	4,655.34	185,122.07	23,308.45	0	0	0	0.002000001	0.015750005	
SAN JOAQUIN	2022	LDT1	GAS	Aggregated	29,833.74	1,046,839.73	134,977.44	0.001770563	0	0.002591352	0.002000001	0.015750005	
SAN JOAQUIN	2022	LDT1	DSL	Aggregated	22.77	402.06	78.48	0.113277404	0	0	0.002000001	0.015750005	
SAN JOAQUIN	2022	LDT1	ELEC	Aggregated	151.96	6,347.31	772.01	0	0	0	0.002000001	0.015750005	
SAN JOAQUIN	2022	LDT2	GAS	Aggregated	95,496.44	3,493,823.66	441,577.96	0.001301833	0	0.001808396	0.002000001	0.015750005	
SAN JOAQUIN	2022	LDT2	DSL	Aggregated	501.61	22,189.46	2,461.12	0.00506789	0	0	0.002000001	0.015750005	
SAN JOAQUIN	2022	LDT2	ELEC	Aggregated	774.55	24,427.93	3,914.96	0	0	0	0.002000001	0.015750005	
SAN JOAQUIN	2022	MCY	GAS	Aggregated	13,794.06	100,041.02	27,588.12	0.001728929	0	0.002907987	0.001	0.005040001	
							LDA, LDT1, LDT2, and MCY Composite	**0.0013**	**0.0000**	**0.0018**	**0.0020**	**0.0157**	**0.019000**

Table 12. Operation Mobile Source Emissions Factors - EMFAC2017 Summer CO2

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	CO2_RUNEX (g/mile)	CO2_IDLEX (g/vehicle/day)	CO2_STREX (g/trip)
SAN JOAQUIN	2022	HHDT	DSL	Aggregated	9,637.39	1,305,623.61	110,977.95	CO2_RUNEX	CO2_IDLEX	CO2_STREX
SAN JOAQUIN	2022	MHDT	DSL	Aggregated	6,836.84	440,086.59	61,946.19	1407.141001	14294.43991	0
							HHDT and MHDT Composite	**1072.4405**	**853.0164**	**0.0000**
SAN JOAQUIN	2022	LDA	GAS	Aggregated	295,571.82	11,565,576.62	1,385,544.92	290.6117053	0	55.01251262
SAN JOAQUIN	2022	LDA	DSL	Aggregated	2,451.05	102,467.91	11,659.84	201.9163929	0	0
SAN JOAQUIN	2022	LDA	ELEC	Aggregated	4,655.34	185,122.07	23,308.45	0	0	0
SAN JOAQUIN	2022	LDT1	GAS	Aggregated	29,833.74	1,046,839.73	134,977.44	334.526221	0	65.42345094
SAN JOAQUIN	2022	LDT1	DSL	Aggregated	22.77	402.06	78.48	429.6812221	0	0
SAN JOAQUIN	2022	LDT1	ELEC	Aggregated	151.96	6,347.31	772.01	0	0	0
SAN JOAQUIN	2022	LDT2	GAS	Aggregated	95,496.44	3,493,823.66	441,577.96	358.8260807	0	71.3862847
SAN JOAQUIN	2022	LDT2	DSL	Aggregated	501.61	22,189.46	2,461.12	272.3323645	0	0
SAN JOAQUIN	2022	LDT2	ELEC	Aggregated	774.55	24,427.93	3,914.96	0	0	0
SAN JOAQUIN	2022	MCY	GAS	Aggregated	13,794.06	100,041.02	27,588.12	213.2990427	0	59.92870251
							LDA, LDT1, LDT2, and MCY Composite	**302.9634**	**0.0000**	**58.1869**

EMFAC2017 (v1.0.2) Emission Rates
Region Type: County
Region: SAN JOAQUIN
Calendar Year: 2022
Season: Summer
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for VMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HTSK and RUNLS, g/vehicle/day for IDLEX, RESTL and DIURN. Note 'day' in the
Model Year: Aggregated

Notes:

Idle Duration:

HHDT	109.4	min/day
MHDT	5.86	min/day
LHDT1	1.74	min/day
LHDT2	1.87	min/day

Table 14. Operation Mobile Source Emissions Factors - EMFAC2017 Summer N2O

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	N2O_RUNEX (g/mile)	N2O_IDLEX (g/vehicle/day)	N2O_STREX (g/trip)
SAN JOAQUIN	2022	HHDT	DSL	Aggregated	9,637.39	1,305,623.61	110,977.95	0.22118297	2.246886892	0
SAN JOAQUIN	2022	MHDT	DSL	Aggregated	6,836.84	440,086.59	61,946.19	0.168572706	0.134082298	0
							HHDT and MHDT Composite	**0.2079**	**1.7143**	**0.0000**
SAN JOAQUIN	2022	LDA	GAS	Aggregated	295,571.82	11,565,576.62	1,385,544.92	0.004259211	0	0.02554843
SAN JOAQUIN	2022	LDA	DSL	Aggregated	2,451.05	102,467.91	11,659.84	0.031738445	0	0
SAN JOAQUIN	2022	LDA	ELEC	Aggregated	4,655.34	185,122.07	23,308.45	0	0	0
SAN JOAQUIN	2022	LDT1	GAS	Aggregated	29,833.74	1,046,839.73	134,977.44	0.007918594	0	0.029591378
SAN JOAQUIN	2022	LDT1	DSL	Aggregated	22.77	402.06	78.48	0.067539904	0	0
SAN JOAQUIN	2022	LDT1	ELEC	Aggregated	151.96	6,347.31	772.01	0	0	0
SAN JOAQUIN	2022	LDT2	GAS	Aggregated	95,496.44	3,493,823.66	441,577.96	0.006487241	0	0.032943538
SAN JOAQUIN	2022	LDT2	DSL	Aggregated	501.61	22,189.46	2,461.12	0.042806855	0	0
SAN JOAQUIN	2022	LDT2	ELEC	Aggregated	774.55	24,427.93	3,914.96	0	0	0
SAN JOAQUIN	2022	MCY	GAS	Aggregated	13,794.06	100,041.02	27,588.12	0.060935962	0	0.014526686
							LDA, LDT1, LDT2, and MCY Composite	**0.0055**	**0.0000**	**0.0267**

EMFAC2017 (v1.0.2) Emission Rates
Region Type: County
Region: SAN JOAQUIN
Calendar Year: 2022
Season: Summer
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for VMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HTSK and RUNLS, g/vehicle/day for IDLEX, RESTL and DIURN. Note 'day' in the
Model Year: Aggregated

Notes:

Idle Duration:

HHDT	109.4	min/day
MHDT	5.86	min/day
LHDT1	1.74	min/day
LHDT2	1.87	min/day
OBUS	5.9	min/day

Table 13. Operation Mobile Source Emissions Factors - EMFAC2017 Summer CH4

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	CH4_RUNEX (g/mile)	CH4_IDLEX (g/vehicle/day)	CH4_STREX (g/trip)
SAN JOAQUIN	2022	HHDT	DSL	Aggregated	9,637.39	1,305,623.61	110,977.95	0.002808676	0.281389994	0
SAN JOAQUIN	2022	MHDT	DSL	Aggregated	6,836.84	440,086.59	61,946.19	0.004880886	0.004562668	0
							HHDT and MHDT Composite	**0.0033**	**0.2116**	**0.0000**
SAN JOAQUIN	2022	LDA	GAS	Aggregated	295,571.82	11,565,576.62	1,385,544.92	0.002676991	0	0.047047396
SAN JOAQUIN	2022	LDA	DSL	Aggregated	2,451.05	102,467.91	11,659.84	0.000532649	0	0
SAN JOAQUIN	2022	LDA	ELEC	Aggregated	4,655.34	185,122.07	23,308.45	0	0	0
SAN JOAQUIN	2022	LDT1	GAS	Aggregated	29,833.74	1,046,839.73	134,977.44	0.006600168	0	0.072092792
SAN JOAQUIN	2022	LDT1	DSL	Aggregated	22.77	402.06	78.48	0.006972715	0	0
SAN JOAQUIN	2022	LDT1	ELEC	Aggregated	151.96	6,347.31	772.01	0	0	0
SAN JOAQUIN	2022	LDT2	GAS	Aggregated	95,496.44	3,493,823.66	441,577.96	0.00437912	0	0.065253703
SAN JOAQUIN	2022	LDT2	DSL	Aggregated	501.61	22,189.46	2,461.12	0.000579996	0	0
SAN JOAQUIN	2022	LDT2	ELEC	Aggregated	774.55	24,427.93	3,914.96	0	0	0
SAN JOAQUIN	2022	MCY	GAS	Aggregated	13,794.06	100,041.02	27,588.12	0.322690651	0	0.217662029
							LDA, LDT1, LDT2, and MCY Composite	**0.0052**	**0.0000**	**0.0540**

EMFAC2017 (v1.0.2) Emission Rates
Region Type: County
Region: SAN JOAQUIN
Calendar Year: 2022
Season: Summer
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for VMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HTSK and RUNLS, g/vehicle/day for IDLEX, RESTL and DIURN. Note 'day' in the
Model Year: Aggregated

Notes:

Idle Duration:

HHDT	109.4	min/day
MHDT	5.86	min/day
LHDT1	1.74	min/day
LHDT2	1.87	min/day

Table 14. Paved Road Fugitive Emissions - Operation Mobile Sources

Equation:

$E = k \times (sL/2)^{0.91} \times (W)1.02$ [maximum day]

Where:			**Units**
k	particle size multiplier (PM_{10})	0.00220	lb/VMT
k	particle size multiplier ($PM_{2.5}$)	0.00054	lb/VMT
sL	silt loading (2)	0.1	g/m^2
W	average weight (tons) of the vehicle traveling the road	2.4	tons

Notes/References:
k = Emission factors from CalEEMod2016.3.1 per AP-42, Section 13.2.1 (Paved Roads).
sL = Silt loading from CalEEMod2016.3.2
For daily emissions it is assumed to have no precipitation.

Truck Weight Assumptions

EMFAC Definition	EMFAC Category	GVWR (pounds)	GVWR (tons)	
Heavy Heavy-Duty Truck	HHDT	>33,000	17	*Assumed 33,000 pounds*
Medium Heavy-Duty Truck	MHDT	14,001-33,000	8	*Assumed average of 14,001 & 33,000 pounds*
Composite Heavy & Medium Heavy-Duty Truck	HHDT & MHDT	14,001-33,000+	13	*Assumed average of HHDT & MHDT pounds*

Source: EMFAC 2014
GVWR = Gross Vehicle Weight Rating
1 pound = 0.0005 US tons

Employee Vehicles Evaluated:

Employee Type	Average Weight (tons)
Passenger Vehicles	2.4

Reference:
Source: CalEEMod2016.3.2 (average vehicle weight = 2.4 tons)
Per AP-42, Section 13.2.1 (Paved Roads): The above equation calls for the average weight of all vehicles traveling the road. For example, if 99 percent of traffic on the road are 2 ton cars/trucks while the remaining 1 percent consists of 20 ton trucks, then the mean weight "W" is 2.2 tons. More specifically, the above equation is not intended to be used to calculate a separate emission factor for each vehicle weight class. Instead, only one emission factor should be calculated to represent the "fleet" average weight of all vehicles traveling the road.

Emission Factors	**PM10 Paved Road (lb/VMT)**	**PM2.5 Paved Road (lb/VMT)**	**PM10 Paved Road (g/VMT)**	**PM2.5 Paved Road (g/VMT)**
HHDT	0.0049	0.0012	2.2087	0.5421
MHDT	0.0023	0.0006	1.0239	0.2513
HHDT & MHDT	0.0037	0.0009	1.6800	0.4124
Passenger Vehicles	0.0007	0.0002	0.2998	0.0736
Average	0.0022	0.0005	0.9899	0.2430

2022 Operation Mobile Source Assumptions Summary

Project Vehicle	EMFAC Class	Average Daily Trip Length (miles)	Max Daily Trips (trips/day)	Max Daily VMT (VMT/day)	Annual Trips (trips/year)	Annual VMT (VMT/year)
Trucks	HHDT and MHDT	40	381	15,224	138,918	5,556,734
Employees	LDA, LDT1, LDT2, and MCY Composite	14.7	801	11,780	292,505	4,299,825

Notes:

Project Vehicle	EMFAC Class	Average Daily Trip Length (miles)	Max Daily Trips (trips/day)	Max Daily VMT (VMT/day)	Annual Trips (trips/year)	Annual VMT (VMT/year)
Trucks	HHDT and MHDT	40	381	15,224	138,918	5,556,734
Employees	LDA, LDT1, LDT2, and MCY Composite	14.7	801	11,780	292,505	4,299,825

Project Vehicle	EMFAC Class	Max Daily Trips (trips/day)	Annual Trips (trips/year)
Trucks	HHDT and MHDT	381	138,918
Employees	LDA, LDT1, LDT2, and MCY Composite	801	292,505

Project Vehicle	EMFAC Class	Idling Minutes per Day (min/day)	Idling Minutes per Year (min/year)
Trucks	HHDT and MHDT	2,854	1,041,888

2022 Operation Mobile Source Emissions Summary - Winter Daily Emissions

Emissions - Daily (Pounds/Day)

	ROG	NOx	CO	SOx	PM10	PM2.5	CO2	CH4	N2O	CO2e
	Running Exhaust, Tire Wear, and Break Wear									
Trucks	2.41	98.14	10.27	0.42	1.22	1.17	44,396.00	0.11	6.98	46,478.36
Employees	0.65	1.71	20.47	0.07	0.04	0.03	7,069.11	0.12	0.16	7,120.24
Subtotal	*3.06*	*99.84*	*30.73*	*0.49*	*1.26*	*1.20*	*51,465.10*	*0.23*	*7.14*	*53,598.60*

	PM10	PM2.5
	Paved Road - PM only	
Trucks	56.39	13.84
Employees	7.79	1.91
Subtotal	*64.17*	*15.75*

	ROG	NOx	CO	SOx	PM10	PM2.5	CO2	CH4	N2O	CO2e
	Starting Exhaust, Hot Soak, Running Loss Evaporative, Resting Loss Evap, Diurnal Loss Evap									
Trucks	0.00	1.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Employees	0.61	0.46	5.36	0.00	0.00	0.00	106.21	0.13	0.05	125.53
Subtotal	*0.61*	*2.13*	*5.36*	*0.00*	*0.00*	*0.00*	*106.21*	*0.13*	*0.05*	*125.53*

	ROG	NOx	CO	SOx	PM10	PM2.5	CO2	CH4	N2O	CO2e
	Idling									
Trucks	0.41	11.50	7.65	0.02	0.02	0.02	1737.56	0.02	0.27	1,819.43
Subtotal	*0.41*	*11.50*	*7.65*	*0.02*	*0.02*	*0.02*	*1,737.56*	*0.02*	*0.27*	*1,819.43*
TOTAL	**4.08**	**113.48**	**43.75**	**0.51**	**65.46**	**16.98**	**53,308.87**	**0.38**	**7.47**	**55,543.56**

2022 Operation Mobile Source Assumptions Summary

Project Vehicle	EMFAC Class	Average Daily Trip Length (miles)	Max Daily Trips (trips/day)	Max Daily VMT (VMT/day)	Annual Trips (trips/year)	Annual VMT (VMT/year)
Trucks	HHDT and MHDT	40	381	15,224	138,918	5,556,734
Employees	LDA, LDT1, LDT2, and MCY Composite	14.7	801	11,780	292,505	4,299,825

Notes:

Project Vehicle	EMFAC Class	Average Daily Trip Length (miles)	Max Daily Trips (trips/day)	Max Daily VMT (VMT/day)	Annual Trips (trips/year)	Annual VMT (VMT/year)
Trucks	HHDT and MHDT	40	381	15,224	138,918	5,556,734
Employees	LDA, LDT1, LDT2, and MCY Composite	14.7	801	11,780	292,505	4,299,825

Project Vehicle	EMFAC Class	Max Daily Trips (trips/day)	Annual Trips (trips/year)
Trucks	HHDT and MHDT	381	138,918
Employees	LDA, LDT1, LDT2, and MCY Composite	801	292,505

Project Vehicle	EMFAC Class	Idling Minutes per Day (min/day)	Idling Minutes per Year (min/year)
Trucks	HHDT and MHDT	2,854	1,041,888

Land Use	ITE Code	Size/Unit		Daily
Trip Rate				
Warehousing	150	TSF		1.74
Trip Generation				
Building A	150	231.3	TSF	402
Building B	150	281.7	TSF	490
Building C	150	166.3	TSF	289
	Total	**679.3**	**TSF**	**1,182**
			Total Auto Trips	801
			Total Truck Trips	**381**

ITE 2016, Table 4
Daily Cars (68%

2022 Operation Mobile Source Emissions Factors - EMFAC2017 Winter

Emission Factors: Summary

Project Vehicle	Vehicle Classes	Fuel	Speed	ROG	NOx	CO	SOx	PM10	PM2.5	CO2	CH4	N2O
				Running Exhaust, Tire Wear, and Break Wear (grams/mile)								
Trucks	HHDT and MHDT	Diesel	Aggregate	0.072	2.924	0.306	0.012	0.036	0.035	1,322.764	0.003	0.208
Employees	LDA, LDT1, LDT2, and MCY Composite	Gas, Electric, & Diesel (Aggregate)	Aggregate	0.025	0.066	0.788	0.003	0.001	0.001	272.190	0.005	0.006

Project Vehicle	Vehicle Classes	PM10	PM2.5
		Paved Road - PM Only (grams/mile)	
Trucks	HHDT and MHDT	1.680	0.412
Employees	LDA, LDT1, LDT2, and MCY Composite	0.300	0.074

Project Vehicle	Vehicle Classes	Fuel	ROG	NOx	CO	SOx	PM10	PM2.5	CO2	CH4	N2O
			Starting Exhaust, Hot Soak, Running Loss Evaporative, Resting Loss Evap, Diurnal Loss Evap (grams/trip)								
Trucks	HHDT and MHDT	Diesel	0.000	2.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Employees	LDA, LDT1, LDT2, and MCY Composite	Gas, Electric, & Diesel (Aggregate)	0.344	0.258	3.036	0.001	0.002	0.002	60.114	0.074	0.031

Project Vehicle	Vehicle Classes	Fuel	ROG	NOx	CO	SOx	PM10	PM2.5	CO2	CH4	N2O
			Idling (grams/Idle-min/vehicle)								
Trucks	HHDT and MHDT	Diesel	0.066	1.828	1.216	0.003	0.004	0.004	276.107	0.003	0.043
Employees	LDA, LDT1, LDT2, and MCY Composite	Gas, Electric, & Diesel (Aggregate)	0	0	0	0	0	0	0	0	0

Table 5. Operation Mobile Source Emissions Factors - EMFAC2017 Winter ROG

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	ROG_RUNEX (g/mile)	ROG_IDLEX (g/vehicle/day)	ROG_STREX (g/trip)	ROG_HOTSOAK (g/trip)	ROG_RUNLOSS (g/trip)	ROG_RESTLOSS (g/vehicle/day)	ROG_DIURN (g/vehicle/day)	ROG_RESTLOSS - Calculated (g/trip)	ROG_DIURN - Calculated (g/trip)	STEX HOTSOAK RUNLOSS ROG RESTLOSS DIURN_Combined - Calculated (g/trip)
SAN JOAQUIN	2022	HHDT	DSL	Aggregated	9,637.39	1,305,623.61	110,977.95	0.06047002	5.36799306	0	0	0	0	0			
SAN JOAQUIN	2022	MHDT	DSL	Aggregated	6,836.84	440,086.59	61,946.19	0.105084145	0.097937286	0	0	0	0	0			
							HHDT and MHDT Composite	**0.0717**	**4.0394**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	-	-	**0.0000**
SAN JOAQUIN	2022	LDA	GAS	Aggregated	295,571.82	11,565,576.62	1,385,544.92	0.00840318	0	0.293953882	0.114702356	0.271848271	0.090121854	0.095740943			
SAN JOAQUIN	2022	LDA	DSL	Aggregated	2,451.05	102,467.91	11,659.84	0.011467623	0	0	0	0	0	0			
SAN JOAQUIN	2022	LDA	ELEC	Aggregated	4,655.34	185,122.07	23,308.45	0	0	0	0.004888026	0	0.000546339	0.00267116			
SAN JOAQUIN	2022	LDT1	GAS	Aggregated	29,833.74	1,046,839.73	134,977.44	0.02433029	0	0.521520001	0.264218056	1.068805607	0.210345115	0.245071698			
SAN JOAQUIN	2022	LDT1	DSL	Aggregated	22.77	402.06	78.48	0.150118448	0	0	0	0	0	0			
SAN JOAQUIN	2022	LDT1	ELEC	Aggregated	151.96	6,347.31	772.01	0	0	0	0.004888026	0	0.000546339	0.00267116			
SAN JOAQUIN	2022	LDT2	GAS	Aggregated	95,496.44	3,493,823.66	441,577.96	0.014866713	0	0.431539087	0.156760491	0.614968423	0.149061147	0.152316325			
SAN JOAQUIN	2022	LDT2	DSL	Aggregated	501.61	22,189.46	2,461.12	0.012486965	0	0	0	0	0	0			
SAN JOAQUIN	2022	LDT2	ELEC	Aggregated	774.55	24,427.93	3,914.96	0	0	0	0.004888026	0	0.000546339	0.00267116			
SAN JOAQUIN	2022	MCY	GAS	Aggregated	13,794.06	100,041.02	27,588.12	2.389347469	0	2.360686912	0.946170333	2.515854111	0.424603019	0.698686993			
							LDA, LDT1, LDT2, and MCY Composite	**0.0251**	**0.0000**	**0.3438**	**0.1358**	**0.4027**	**0.1103**	**0.1188**	**0.026088**	**0.029435**	**0.9378**

EMFAC2017 (v1.0.2) Emission Rates
Region Type: County
Region: SAN JOAQUIN
Calendar Year: 2022
Season: Winter
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for VMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HTSK and RUNLS, g/vehicle/day for IDLEX, RESTL and DIURN. Note 'day' in the unit is operation day.
Model Year: Aggregated

Notes:

Idle Duration:

HHDT	109.4	min/day
MHDT	5.86	min/day
LHDT1	1.74	min/day
LHDT2	1.87	min/day
OBUS	5.9	min/day

Table 7. Operation Mobile Source Emissions Factors - EMFAC2017 Winter NOx

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	NOx_RUNEX (g/mile)	NOx_IDLEX (g/vehicle/day)	NOx_STREX (g/trip)
SAN JOAQUIN	2022	HHDT	DSL	Aggregated	9,637.39	1,305,623.61	110,977.95	3.087246313	77.99000737	2.099725175
SAN JOAQUIN	2022	MHDT	DSL	Aggregated	6,836.84	440,086.59	61,946.19	2.439389038	6.53470966	1.702276636
							HHDT and MHDT Composite	**2.9239**	**59.9764**	**1.9995**
SAN JOAQUIN	2022	LDA	GAS	Aggregated	295,571.82	11,565,576.62	1,385,544.92	0.042901299	0	0.223744465
SAN JOAQUIN	2022	LDA	DSL	Aggregated	2,451.05	102,467.91	11,659.84	0.080556363	0	0
SAN JOAQUIN	2022	LDA	ELEC	Aggregated	4,655.34	185,122.07	23,308.45	0	0	0
SAN JOAQUIN	2022	LDT1	GAS	Aggregated	29,833.74	1,046,839.73	134,977.44	0.122343243	0	0.336849897
SAN JOAQUIN	2022	LDT1	DSL	Aggregated	22.77	402.06	78.48	1.038195619	0	0
SAN JOAQUIN	2022	LDT1	ELEC	Aggregated	151.96	6,347.31	772.01	0	0	0
SAN JOAQUIN	2022	LDT2	GAS	Aggregated	95,496.44	3,493,823.66	441,577.96	0.093303532	0	0.364191656
SAN JOAQUIN	2022	LDT2	DSL	Aggregated	501.61	22,189.46	2,461.12	0.0405254	0	0
SAN JOAQUIN	2022	LDT2	ELEC	Aggregated	774.55	24,427.93	3,914.96	0	0	0
SAN JOAQUIN	2022	MCY	GAS	Aggregated	13,794.06	100,041.02	27,588.12	1.283544733	0	0.289790021
							LDA, LDT1, LDT2, and MCY Composite	**0.0658**	**0.0000**	**0.2580**

Table 8. Operation Mobile Source Emissions Factors - EMFAC2017 Winter CO

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	CO_RUNEX (g/mile)	CO_IDLEX (g/vehicle/day)	CO_STREX (g/trip)
SAN JOAQUIN	2022	HHDT	DSL	Aggregated	9,637.39	1,305,623.61	110,977.95	0.294338857	82.30653783	0
SAN JOAQUIN	2022	MHDT	DSL	Aggregated	6,836.84	440,086.59	61,946.19	0.340175807	2.718505104	0
							HHDT and MHDT Composite	**0.3059**	**62.2427**	**0.0000**
SAN JOAQUIN	2022	LDA	GAS	Aggregated	295,571.82	11,565,576.62	1,385,544.92	0.571946572	0	2.79777033
SAN JOAQUIN	2022	LDA	DSL	Aggregated	2,451.05	102,467.91	11,659.84	0.170620151	0	0
SAN JOAQUIN	2022	LDA	ELEC	Aggregated	4,655.34	185,122.07	23,308.45	0	0	0
SAN JOAQUIN	2022	LDT1	GAS	Aggregated	29,833.74	1,046,839.73	134,977.44	1.130891094	0	3.120010118
SAN JOAQUIN	2022	LDT1	DSL	Aggregated	22.77	402.06	78.48	1.043667679	0	0
SAN JOAQUIN	2022	LDT1	ELEC	Aggregated	151.96	6,347.31	772.01	0	0	0
SAN JOAQUIN	2022	LDT2	GAS	Aggregated	95,496.44	3,493,823.66	441,577.96	0.819416332	0	3.591027885
SAN JOAQUIN	2022	LDT2	DSL	Aggregated	501.61	22,189.46	2,461.12	0.101760831	0	0
SAN JOAQUIN	2022	LDT2	ELEC	Aggregated	774.55	24,427.93	3,914.96	0	0	0
SAN JOAQUIN	2022	MCY	GAS	Aggregated	13,794.06	100,041.02	27,588.12	23.57088835	0	10.35788774
							LDA, LDT1, LDT2, and MCY Composite	**0.7880**	**0.0000**	**3.0361**

Table 9. Operation Mobile Source Emissions Factors - EMFAC2017 Winter SO2

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	SO2_RUNEX (g/mile)	SO2_IDLEX (g/vehicle/day)	SO2_STREX (g/trip)
SAN JOAQUIN	2022	HHDT	DSL	Aggregated	9,637.39	1,305,623.61	110,977.95	0.01329397	0.137114649	0
SAN JOAQUIN	2022	MHDT	DSL	Aggregated	6,836.84	440,086.59	61,946.19	0.010131886	0.007941389	0
							HHDT and MHDT Composite	**0.0125**	**0.1046**	**0.0000**
SAN JOAQUIN	2022	LDA	GAS	Aggregated	295,571.82	11,565,576.62	1,385,544.92	0.00256268	0	0.000561717
SAN JOAQUIN	2022	LDA	DSL	Aggregated	2,451.05	102,467.91	11,659.84	0.001908836	0	0
SAN JOAQUIN	2022	LDA	ELEC	Aggregated	4,655.34	185,122.07	23,308.45	0	0	0
SAN JOAQUIN	2022	LDT1	GAS	Aggregated	29,833.74	1,046,839.73	134,977.44	0.00299369	0	0.000668974
SAN JOAQUIN	2022	LDT1	DSL	Aggregated	22.77	402.06	78.48	0.004062033	0	0
SAN JOAQUIN	2022	LDT1	ELEC	Aggregated	151.96	6,347.31	772.01	0	0	0
SAN JOAQUIN	2022	LDT2	GAS	Aggregated	95,496.44	3,493,823.66	441,577.96	0.003238982	0	0.000729407
SAN JOAQUIN	2022	LDT2	DSL	Aggregated	501.61	22,189.46	2,461.12	0.00257452	0	0
SAN JOAQUIN	2022	LDT2	ELEC	Aggregated	774.55	24,427.93	3,914.96	0	0	0
SAN JOAQUIN	2022	MCY	GAS	Aggregated	13,794.06	100,041.02	27,588.12	0.00215081	0	0.000654506
							LDA, LDT1, LDT2, and MCY Composite	**0.0027**	**0.0000**	**0.0006**

Table 10. Operation Mobile Source Emissions Factors - EMFAC2017 Winter PM10

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	PM10_RUNEX (g/mile)	PM10_IDLEX (g/vehicle/day)	PM10_STREX (g/trip)	PM10_PMTW (g/mile)	PM10_PMBW (g/mile)	PM10_Combined - Calculated (g/mile)
SAN JOAQUIN	2022	HHDT	DSL	Aggregated	9,637.39	1,305,623.61	110,977.95	0.034652141	0.045121991	0	0.035673994	0.061180899	
SAN JOAQUIN	2022	MHDT	DSL	Aggregated	6,836.84	440,086.59	61,946.19	0.041401418	0.019419283	0	0.012000003	0.130340037	
							HHDT and MHDT Composite	**0.0364**	**0.0386**	**0.0000**	**0.0297**	**0.0786**	**0.144676**
SAN JOAQUIN	2022	LDA	GAS	Aggregated	295,571.82	11,565,576.62	1,385,544.92	0.001364416	0	0.001948791	0.008000002	0.036750011	
SAN JOAQUIN	2022	LDA	DSL	Aggregated	2,451.05	102,467.91	11,659.84	0.006256576	0	0	0.008000002	0.036750011	
SAN JOAQUIN	2022	LDA	ELEC	Aggregated	4,655.34	185,122.07	23,308.45	0	0	0	0.008000002	0.036750011	
SAN JOAQUIN	2022	LDT1	GAS	Aggregated	29,833.74	1,046,839.73	134,977.44	0.001925566	0	0.002818125	0.008000002	0.036750011	
SAN JOAQUIN	2022	LDT1	DSL	Aggregated	22.77	402.06	78.48	0.118399306	0	0	0.008000002	0.036750011	
SAN JOAQUIN	2022	LDT1	ELEC	Aggregated	151.96	6,347.31	772.01	0	0	0	0.008000002	0.036750011	
SAN JOAQUIN	2022	LDT2	GAS	Aggregated	95,496.44	3,493,823.66	441,577.96	0.001415821	0	0.001966692	0.008000002	0.036750011	
SAN JOAQUIN	2022	LDT2	DSL	Aggregated	501.61	22,189.46	2,461.12	0.005297037	0	0	0.008000002	0.036750011	
SAN JOAQUIN	2022	LDT2	ELEC	Aggregated	774.55	24,427.93	3,914.96	0	0	0	0.008000002	0.036750011	
SAN JOAQUIN	2022	MCY	GAS	Aggregated	13,794.06	100,041.02	27,588.12	0.001845735	0	0.003082417	0.004000001	0.011760003	
							LDA, LDT1, LDT2, and MCY Composite	**0.0014**	**0.0000**	**0.0020**	**0.0080**	**0.0366**	**0.046009**

Table 11. Operation Mobile Source Emissions Factors - EMFAC2017 Winter PM2.5

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	PM2.5_RUNEX (g/mile)	PM2.5_IDLEX (g/vehicle/day)	PM2.5_STREX (g/trip)	PM2.5_PMTW (g/mile)	PM2.5_PMBW (g/mile)	PM2.5_Combined - Calculated (g/mile)
SAN JOAQUIN	2022	HHDT	DSL	Aggregated	9,637.39	1,305,623.61	110,977.95	0.033153105	0.043170034	0	0.008918498	0.026220385	
SAN JOAQUIN	2022	MHDT	DSL	Aggregated	6,836.84	440,086.59	61,946.19	0.039610411	0.018579214	0	0.003000001	0.055860016	
							HHDT and MHDT Composite	**0.0348**	**0.0370**	**0.0000**	**0.0074**	**0.0337**	**0.075899**
SAN JOAQUIN	2022	LDA	GAS	Aggregated	295,571.82	11,565,576.62	1,385,544.92	0.00125454	0	0.0017919	0.002000001	0.015750005	
SAN JOAQUIN	2022	LDA	DSL	Aggregated	2,451.05	102,467.91	11,659.84	0.005985919	0	0	0.002000001	0.015750005	
SAN JOAQUIN	2022	LDA	ELEC	Aggregated	4,655.34	185,122.07	23,308.45	0	0	0	0.002000001	0.015750005	
SAN JOAQUIN	2022	LDT1	GAS	Aggregated	29,833.74	1,046,839.73	134,977.44	0.001770563	0	0.002591352	0.002000001	0.015750005	
SAN JOAQUIN	2022	LDT1	DSL	Aggregated	22.77	402.06	78.48	0.113277404	0	0	0.002000001	0.015750005	
SAN JOAQUIN	2022	LDT1	ELEC	Aggregated	151.96	6,347.31	772.01	0	0	0	0.002000001	0.015750005	
SAN JOAQUIN	2022	LDT2	GAS	Aggregated	95,496.44	3,493,823.66	441,577.96	0.001301833	0	0.001808396	0.002000001	0.015750005	
SAN JOAQUIN	2022	LDT2	DSL	Aggregated	501.61	22,189.46	2,461.12	0.00506789	0	0	0.002000001	0.015750005	
SAN JOAQUIN	2022	LDT2	ELEC	Aggregated	774.55	24,427.93	3,914.96	0	0	0	0.002000001	0.015750005	
SAN JOAQUIN	2022	MCY	GAS	Aggregated	13,794.06	100,041.02	27,588.12	0.001728929	0	0.002907987	0.001	0.005040001	
							LDA, LDT1, LDT2, and MCY Composite	**0.0013**	**0.0000**	**0.0018**	**0.0020**	**0.0157**	**0.019000**

Table 12. Operation Mobile Source Emissions Factors - EMFAC2017 Winter CO2

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	CO2_RUNEX (g/mile)	CO2_IDLEX (g/vehicle/day)	CO2_STREX (g/trip)
SAN JOAQUIN	2022	HHDT	DSL	Aggregated	9,637.39	1,305,623.61	110,977.95	1407.141001	14513.31978	0
SAN JOAQUIN	2022	MHDT	DSL	Aggregated	6,836.84	440,086.59	61,946.19	1072.440463	840.5805881	0
							HHDT and MHDT Composite	**1322.7643**	**11066.4766**	**0.0000**
SAN JOAQUIN	2022	LDA	GAS	Aggregated	295,571.82	11,565,576.62	1,385,544.92	258.966113	0	56.76314177
SAN JOAQUIN	2022	LDA	DSL	Aggregated	2,451.05	102,467.91	11,659.84	201.9163929	0	0
SAN JOAQUIN	2022	LDA	ELEC	Aggregated	4,655.34	185,122.07	23,308.45	0	0	0
SAN JOAQUIN	2022	LDT1	GAS	Aggregated	29,833.74	1,046,839.73	134,977.44	302.5208973	0	67.60174417
SAN JOAQUIN	2022	LDT1	DSL	Aggregated	22.77	402.06	78.48	429.6812221	0	0
SAN JOAQUIN	2022	LDT1	ELEC	Aggregated	151.96	6,347.31	772.01	0	0	0
SAN JOAQUIN	2022	LDT2	GAS	Aggregated	95,496.44	3,493,823.66	441,577.96	327.3084198	0	73.70869404
SAN JOAQUIN	2022	LDT2	DSL	Aggregated	501.61	22,189.46	2,461.12	272.3323645	0	0
SAN JOAQUIN	2022	LDT2	ELEC	Aggregated	774.55	24,427.93	3,914.96	0	0	0
SAN JOAQUIN	2022	MCY	GAS	Aggregated	13,794.06	100,041.02	27,588.12	217.3455363	0	66.13971441
							LDA, LDT1, LDT2, and MCY Composite	**272.1899**	**0.0000**	**60.1144**

EMFAC2017 (v1.0.2) Emission Rates
Region Type: County
Region: SAN JOAQUIN
Calendar Year: 2022
Season: Winter
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for VMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HTSK and RUNLS, g/vehicle/day for IDLEX, RESTL and DIURN. Note 'day' in the
Model Year: Aggregated

Notes:

Idle Duration:

HHDT	109.4	min/day
MHDT	5.86	min/day
LHDT1	1.74	min/day
LHDT2	1.87	min/day

Table 14. Operation Mobile Source Emissions Factors - EMFAC2017 Winter N2O

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	N2O_RUNEX (g/mile)	N2O_IDLEX (g/vehicle/day)	N2O_STREX (g/trip)
SAN JOAQUIN	2022	HHDT	DSL	Aggregated	9,637.39	1,305,623.61	110,977.95	0.22118297	2.28129176	0
SAN JOAQUIN	2022	MHDT	DSL	Aggregated	6,836.84	440,086.59	61,946.19	0.168572706	0.132127563	0
							HHDT and MHDT Composite	**0.2079**	**1.7395**	**0.0000**
SAN JOAQUIN	2022	LDA	GAS	Aggregated	295,571.82	11,565,576.62	1,385,544.92	0.004843907	0	0.029161875
SAN JOAQUIN	2022	LDA	DSL	Aggregated	2,451.05	102,467.91	11,659.84	0.031738445	0	0
SAN JOAQUIN	2022	LDA	ELEC	Aggregated	4,655.34	185,122.07	23,308.45	0	0	0
SAN JOAQUIN	2022	LDT1	GAS	Aggregated	29,833.74	1,046,839.73	134,977.44	0.009070769	0	0.033743347
SAN JOAQUIN	2022	LDT1	DSL	Aggregated	22.77	402.06	78.48	0.067539904	0	0
SAN JOAQUIN	2022	LDT1	ELEC	Aggregated	151.96	6,347.31	772.01	0	0	0
SAN JOAQUIN	2022	LDT2	GAS	Aggregated	95,496.44	3,493,823.66	441,577.96	0.007406592	0	0.037578695
SAN JOAQUIN	2022	LDT2	DSL	Aggregated	501.61	22,189.46	2,461.12	0.042806855	0	0
SAN JOAQUIN	2022	LDT2	ELEC	Aggregated	774.55	24,427.93	3,914.96	0	0	0
SAN JOAQUIN	2022	MCY	GAS	Aggregated	13,794.06	100,041.02	27,588.12	0.071507087	0	0.015880408
							LDA, LDT1, LDT2, and MCY Composite	**0.0062**	**0.0000**	**0.0305**

EMFAC2017 (v1.0.2) Emission Rates
Region Type: County
Region: SAN JOAQUIN
Calendar Year: 2022
Season: Winter
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for VMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HTSK and RUNLS, g/vehicle/day for IDLEX, RESTL and DIURN. Note 'day' in the
Model Year: Aggregated

Notes:

Idle Duration:

HHDT	109.4	min/day
MHDT	5.86	min/day
LHDT1	1.74	min/day
LHDT2	1.87	min/day
OBUS	5.9	min/day

Table 13. Operation Mobile Source Emissions Factors - EMFAC2017 Winter CH4

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	CH4_RUNEX (g/mile)	CH4_IDLEX (g/vehicle/day)	CH4_STREX (g/trip)
SAN JOAQUIN	2022	HHDT	DSL	Aggregated	9,637.39	1,305,623.61	110,977.95	0.002808676	0.249329374	0
SAN JOAQUIN	2022	MHDT	DSL	Aggregated	6,836.84	440,086.59	61,946.19	0.004880886	0.004548933	0
							HHDT and MHDT Composite	**0.0033**	**0.1876**	**0.0000**
SAN JOAQUIN	2022	LDA	GAS	Aggregated	295,571.82	11,565,576.62	1,385,544.92	0.002180083	0	0.064081907
SAN JOAQUIN	2022	LDA	DSL	Aggregated	2,451.05	102,467.91	11,659.84	0.000532649	0	0
SAN JOAQUIN	2022	LDA	ELEC	Aggregated	4,655.34	185,122.07	23,308.45	0	0	0
SAN JOAQUIN	2022	LDT1	GAS	Aggregated	29,833.74	1,046,839.73	134,977.44	0.005465275	0	0.099583906
SAN JOAQUIN	2022	LDT1	DSL	Aggregated	22.77	402.06	78.48	0.006972715	0	0
SAN JOAQUIN	2022	LDT1	ELEC	Aggregated	151.96	6,347.31	772.01	0	0	0
SAN JOAQUIN	2022	LDT2	GAS	Aggregated	95,496.44	3,493,823.66	441,577.96	0.003593826	0	0.089215433
SAN JOAQUIN	2022	LDT2	DSL	Aggregated	501.61	22,189.46	2,461.12	0.000579996	0	0
SAN JOAQUIN	2022	LDT2	ELEC	Aggregated	774.55	24,427.93	3,914.96	0	0	0
SAN JOAQUIN	2022	MCY	GAS	Aggregated	13,794.06	100,041.02	27,588.12	0.34444533	0	0.305254672
							LDA, LDT1, LDT2, and MCY Composite	**0.0047**	**0.0000**	**0.0738**

Source: EMFAC2017 (v1.0.3) Emission Rates
EMFAC2017 (v1.0.2) Emission Rates
Region Type: County
Region: SAN JOAQUIN
Calendar Year: 2022
Season: Winter
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for VMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HTSK and RUNLS, g/vehicle/day for IDLEX, RESTL and DIURN. Note 'day' in the

Notes:

Idle Duration:

HHDT	109.4	min/day
MHDT	5.86	min/day
LHDT1	1.74	min/day
LHDT2	1.87	min/day

Table 14. Paved Road Fugitive Emissions - Operation Mobile Sources

Equation:

$E = k \times (sL/2)^{0.91} \times (W)1.02$ [maximum day]

Where:			**Units**
k	particle size multiplier (PM_{10})	0.00220	lb/VMT
k	particle size multiplier ($PM_{2.5}$)	0.00054	lb/VMT
sL	silt loading (2)	0.1	g/m^2
W	average weight (tons) of the vehicle traveling the road	2.4	tons

Notes/References:
k = Emission factors from CalEEMod2016.3.1 per AP-42, Section 13.2.1 (Paved Roads).
sL = Silt loading from CalEEMod2016.3.2
For daily emissions it is assumed to have no precipitation.

Truck Weight Assumptions

EMFAC Definition	EMFAC Category	GVWR (pounds)	GVWR (tons)	
Heavy Heavy-Duty Truck	HHDT	>33,000	17	*Assumed 33,000 pounds*
Medium Heavy-Duty Truck	MHDT	14,001-33,000	8	*Assumed average of 14,001 & 33,000 pounds*
Composite Heavy & Medium Heavy-Duty Truck	HHDT & MHDT	14,001-33,000+	13	*Assumed average of HHDT & MHDT pounds*

Source: EMFAC 2014
GVWR = Gross Vehicle Weight Rating
1 pound = 0.0005 US tons

Employee Vehicles Evaluated:

Employee Type	Average Weight (tons)
Passenger Vehicles	2.4

Reference:
Source: CalEEMod2016.3.2 (average vehicle weight = 2.4 tons)
Per AP-42, Section 13.2.1 (Paved Roads): The above equation calls for the average weight of all vehicles traveling the road. For example, if 99 percent of traffic on the road are 2 ton cars/trucks while the remaining 1 percent consists of 20 ton trucks, then the mean weight "W" is 2.2 tons. More specifically, the above equation is not intended to be used to calculate a separate emission factor for each vehicle weight class. Instead, only one emission factor should be calculated to represent the "fleet" average weight of all vehicles traveling the road.

Emission Factors	**PM10 Paved Road (lb/VMT)**	**PM2.5 Paved Road (lb/VMT)**	**PM10 Paved Road (g/VMT)**	**PM2.5 Paved Road (g/VMT)**
HHDT	0.0049	0.0012	2.2087	0.5421
MHDT	0.0023	0.0006	1.0239	0.2513
HHDT & MHDT	0.0037	0.0009	1.6800	0.4124
Passenger Vehicles	0.0007	0.0002	0.2998	0.0736
Average	0.0022	0.0005	0.9899	0.2430

1. Electric Lift Vehicles - Energy Consumption

Vehicle Category	Lift Capacity (lbs)	Electric Motors	Drive Motor Capacity (hp)	Drive Motor Capacity (kW)	Facility Operation (hrs/day)	Vehicle Operation: Load Factor[4]	Vehicle Operation: (days/week)	Vehicle Operation: (weeks/yr)	Vehicle Operation: (hrs/year)	Electric Energy Consumption per Unit (kWhr/day/Unit)	Electric Energy Consumption per Unit (kWhr/yr/Unit)	Units	Total Energy Consumption (kWhr/day)	Total Energy Consumption (kWhr/yr)
Pallet Jack[1]	3,300	Drive Motor Capacity		0.7	0	0.2	0	0	0	0.00	0.00	0	0.00	0.00
		Lift Motor Capacity		0.8	0	0.05	0	0	0	0.00	0.00		0.00	0.00
Small Forklift[2]	3,086-4,409	Drive Motor Capacity		11	8	0.2	7	52	582.4	17.60	6,406.40	65	1144.00	416,416.00
		Lift Motor Capacity		10	8	0.05	7	52	145.6	4.00	1,456.00		260.00	94,640.00
Large Forklift[3]	7,000-11,000	Drive Motor Capacity	24	18	0	0.2	0	0	0	0.00	0.00	0	0.00	0.00
		Lift Motor Capacity	27	20	0	0.05	0	0	0	0.00	0.00		0.00	0.00
												Total	1,404.00	511,056.00

[1] Based on Global Industrial™ 3300 LB. CAPACITY SELF-PROPELLED ELECTRIC POWER PALLET JACK TRUCK

https://www.globalindustrial.com/p/material-handling/pallet-trucks-jacks/self-propelled/global-industrial-self-propelled-electric-power-pallet-jack-truck-3300-lb-cap?infoParam.campaignId=T9F&gclid=CjwKCAjw_sn8BRBrEiwAnUGJDsnUx19lvgquuJTz2DOx51UqkSAlg9VO22XpkzJZWyI-FmMiqFRaeRoCOqEQAvD_BwE

[2] Based on CAT Model EP12ANT - EP20ANT

https://www.catlifttruck.com/lift-trucks/counterbalance-forklift-trucks/electric-powered-lift-trucks/ep14-20acnt

[3] Based on CAT Model 2EPC7000 - 2EP11000

https://www.logisnextamericas.com/-/media/mcfa/sites/portal/files/forklifts/cat-lift-trucks/sales%20literature/clt-i-2epc7000-2ep11000-english.pdf

[4] Drive motor load factor based on CalEEMod User Manual Table 3.3 for offroad forklift load factor

Lift motor load factor set equal of 25% of drive motor capacity factor based on engineering estimate.

2. Electric Lift Vehicles - Greenhouse Gas (GHG) Emissions

Vehicle Category	Lift Capacity (lbs)	Electric Motors	Total Energy Consumption (kWhr/day)	Total Energy Consumption (kWhr/yr)	GHG Emission Factors: CO_2[1] (lb/MWhr)	GHG Emission Factors: CH_4[2] (lb/MWhr)	GHG Emission Factors: N_2O[2] (lb/MWhr)	Annual GHG Emissions: CO_2[1] (TPY)	Annual GHG Emissions: CO_2[1] (Metric TPY)	Annual GHG Emissions: CH_4[2] (TPY)	Annual GHG Emissions: CH_4[2] (Metric TPY)	Annual GHG Emissions: N_2O[2] (TPY)	Annual GHG Emissions: N_2O[2] (Metric TPY)	Annual GHG Emissions: CO_2e[3] (TPY)	Annual GHG Emissions: CO_2e[3] (Metric TPY)
Pallet Jack[1]	3,300	Drive Motor Capacity	0	0.00	206	0.029	0.006	0.00		0.0000		0.0000		0.00	0.00
		Lift Motor Capacity	0	0.00	206	0.029	0.006	0.00		0.0000		0.0000		0.00	0.00
Small Forklift[2]	3,086-4,409	Drive Motor Capacity	1144	416,416.00	206	0.029	0.006	42.89		0.0060		0.0012		43.40	39.38
		Lift Motor Capacity	260	94,640.00	206	0.029	0.006	9.75		0.0014		0.0003		9.86	8.95
Large Forklift[3]	7,000-11,000	Drive Motor Capacity	0	0.00	206	0.029	0.006	0.00		0.0000		0.0000		0.00	0.00
		Lift Motor Capacity	0	0.00	206	0.029	0.006	0.00		0.0000		0.0000		0.00	0.00
							Total	52.64	47.75	0.0074	0.0067	0.0015	0.0014	53.27	48.33

[1]. Based on PG&E 2020 Corporate Responsibility and Sustainability Report.
https://www.pgecorp.com/corp_responsibility/reports/2020/assets/PGE_CRSR_2020.pdf

[2]. Based on CalEEmod default values for Utility

3 $CO_2e = CO_2 + 21 \times (CH_4) + 310 \times (N_2O)$.

TANKS 4.0.9d
Emissions Report - Detail Format
Tank Indentification and Physical Characteristics

Identification

User Identification:	Schulte
City:	
State:	
Company:	
Type of Tank:	Horizontal Tank
Description:	Schulte Fuel Tank

Tank Dimensions

Shell Length (ft):	5.75
Diameter (ft):	4.10
Volume (gallons):	133.40
Turnovers:	3.34
Net Throughput(gal/yr):	445.00
Is Tank Heated (y/n):	N
Is Tank Underground (y/n):	N

Paint Characteristics

Shell Color/Shade:	White/White
Shell Condition	Good

Breather Vent Settings

Vacuum Settings (psig):	-0.03
Pressure Settings (psig)	0.03

Meterological Data used in Emissions Calculations: Stockton, California (Avg Atmospheric Pressure = 14.72 psia)

TANKS 4.0.9d
Emissions Report - Detail Format
Liquid Contents of Storage Tank

Schulte - Horizontal Tank

Mixture/Component	Month	Daily Liquid Surf. Temperature (deg F) Avg.	Min.	Max.	Liquid Bulk Temp (deg F)	Vapor Pressure (psia) Avg.	Min.	Max.	Vapor Mol. Weight.	Liquid Mass Fract.	Vapor Mass Fract.	Mol. Weight	Basis for Vapor Pressure Calculations
Distillate fuel oil no. 2	All	63.76	57.19	70.34	61.57	0.0074	0.0059	0.0091	130.0000			188.00	Option 1: VP60 = .0065 VP70 = .009

TANKS 4.0.9d
Emissions Report - Detail Format
Detail Calculations (AP-42)

Schulte - Horizontal Tank

Annual Emission Calcaulations	
Standing Losses (lb):	0.1408
Vapor Space Volume (cu ft):	48.3533
Vapor Density (lb/cu ft):	0.0002
Vapor Space Expansion Factor:	0.0464
Vented Vapor Saturation Factor:	0.9992
Tank Vapor Space Volume:	
Vapor Space Volume (cu ft):	48.3533
Tank Diameter (ft):	4.1000
Effective Diameter (ft):	5.4801
Vapor Space Outage (ft):	2.0500
Tank Shell Length (ft):	5.7500
Vapor Density	
Vapor Density (lb/cu ft):	0.0002
Vapor Molecular Weight (lb/lb-mole):	130.0000
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	0.0074
Daily Avg. Liquid Surface Temp. (deg. R):	523.4335
Daily Average Ambient Temp. (deg. F):	61.5458
Ideal Gas Constant R (psia cuft / (lb-mol-deg R)):	10.731
Liquid Bulk Temperature (deg. R):	521.2358
Tank Paint Solar Absorptance (Shell):	0.1700
Daily Total Solar Insulation Factor (Btu/sqft day):	1,642.9167
Vapor Space Expansion Factor	
Vapor Space Expansion Factor:	0.0464
Daily Vapor Temperature Range (deg. R):	26.2943
Daily Vapor Pressure Range (psia):	0.0032
Breather Vent Press. Setting Range(psia):	0.0600
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	0.0074
Vapor Pressure at Daily Minimum Liquid Surface Temperature (psia):	0.0059
Vapor Pressure at Daily Maximum Liquid Surface Temperature (psia):	0.0091
Daily Avg. Liquid Surface Temp. (deg R):	523.4335
Daily Min. Liquid Surface Temp. (deg R):	516.8599
Daily Max. Liquid Surface Temp. (deg R):	530.0070
Daily Ambient Temp. Range (deg. R):	25.6583
Vented Vapor Saturation Factor	
Vented Vapor Saturation Factor:	0.9992
Vapor Pressure at Daily Average Liquid: Surface Temperature (psia):	0.0074
Vapor Space Outage (ft):	2.0500
Working Losses (lb):	0.0102
Vapor Molecular Weight (lb/lb-mole):	130.0000
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	0.0074
Annual Net Throughput (gal/yr.):	445.0000
Annual Turnovers:	3.3358
Turnover Factor:	1.0000
Tank Diameter (ft):	4.1000
Working Loss Product Factor:	1.0000
Total Losses (lb):	0.1511

TANKS 4.0.9d
Emissions Report - Detail Format
Individual Tank Emission Totals

Emissions Report for: Annual

Schulte - Horizontal Tank

	Losses(lbs)		
Components	Working Loss	Breathing Loss	Total Emissions
Distillate fuel oil no. 2	0.01	0.14	0.15

Electricity Demand - Water/Wastewater

	Units	Potable Water - Indoor	Potable Water - Outdoor	Total
Warehouse Water Consumption	MG/yr	167	0	167
Office Water Consumption	MG/yr	2	0	2
Landscaping Water Consumption	MG/yr	0	7	7
Warehouse Water Consumption	gal/min	952	0	952
Office Water Consumption	gal/min	9	0	9
Landscaping Water Consumption	gal/min	0	41	41
			gal/min	**1,002**
			gal/hr	**60,103**

Pump Operating Hours

Hours per day:	8
Days per year:	365
Minutes per hour:	60

https://www.pumpsupermarket.com/product/saer-usa-mg2-80-160d-centrifugal-electric-pump-68700-gph-30-hp-22-kw-3-in-discharge-4-in-suction-ports-460-volts-60-hz-cast-iron-copy/

Electric Pump

kW	22
gal/hr	68,700
Electricity use kwh/yr:	56,201
Warehouse Size SF:	721,339
Electricity Use kwh/size/yr:	0.08
Warehouse NT24 Electricity kwh/size/yr:	1.77
Total	**1.85**

Schulte Unmit Const AAQA

San Joaquin County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	2.97	1000sqft	0.07	2,968.00	0
General Office Building	3.01	1000sqft	0.07	3,006.00	0
General Office Building	2.96	1000sqft	0.07	2,964.00	0
Unrefrigerated Warehouse-No Rail	278.93	1000sqft	6.40	278,927.00	0
Unrefrigerated Warehouse-No Rail	278.89	1000sqft	6.40	278,889.00	0
Unrefrigerated Warehouse-No Rail	163.52	1000sqft	3.75	163,523.00	0
Other Asphalt Surfaces	10.02	Acre	10.02	436,471.20	0
Parking Lot	526.00	Space	4.73	210,400.00	0
City Park	5.96	Acre	5.96	259,617.60	0

1.2 Other Project Characteristics

Urbanization	Rural	**Wind Speed (m/s)**	2.7	**Precipitation Freq (Days)**	51
Climate Zone	2			**Operational Year**	2022
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	206	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - RPS based on PG&E 2018 reported factor https://www.pgecorp.com/corp_responsibility/reports/2020/assets/PGE_CRSR_2020.pdf

Land Use - City park represents landscape and outdoor water use.

Construction Phase - Data provided by applicant.

Trips and VMT - Data provided by applicant. AAQA trip distance travel 0.45 miles on-site and 0.25 miles off-site.

Grading -

Architectural Coating - SJVAPCD Rule 4601 VOC limits

Vehicle Trips - Quantified in spreadsheet using EMFAC2017

Area Coating - SJVAPCD Rule 4601 VOC limits

Energy Use - Compliance with 2019 T24 10% electricity reduction, 1% NG reduction
Electricity use from water pump included

Water And Wastewater - Outdoor wateruse City Park land use represents landscaping. Project will be on 100% septic.
Water and wastewater would use onsite electric pump. Added to electricity use.

Construction Off-road Equipment Mitigation - Fugitive dust control measures

Operational Off-Road Equipment - .

Stationary Sources - Emergency Generators and Fire Pumps -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	100.00
tblArchitecturalCoating	EF_Nonresidential_Interior	150.00	50.00
tblArchitecturalCoating	EF_Parking	150.00	100.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	150	100
tblAreaCoating	Area_EF_Nonresidential_Interior	150	50
tblAreaCoating	Area_EF_Parking	150	100
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	30.00	11.00
tblConstructionPhase	NumDays	75.00	33.00
tblConstructionPhase	NumDays	55.00	64.00
tblConstructionPhase	NumDays	55.00	21.00

Schulte Unmit Const AAQA - San Joaquin County, Summer

tblConstructionPhase	NumDays	740.00	151.00
tblEnergyUse	NT24E	1.77	1.85
tblEnergyUse	T24E	3.22	2.90
tblEnergyUse	T24E	0.50	0.45
tblEnergyUse	T24NG	15.99	15.83
tblEnergyUse	T24NG	6.11	6.05
tblLandUse	LandUseSquareFeet	2,960.00	2,964.00
tblLandUse	LandUseSquareFeet	2,970.00	2,968.00
tblLandUse	LandUseSquareFeet	3,010.00	3,006.00
tblLandUse	LandUseSquareFeet	163,520.00	163,523.00
tblLandUse	LandUseSquareFeet	278,890.00	278,889.00
tblLandUse	LandUseSquareFeet	278,930.00	278,927.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	206
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblTripsAndVMT	HaulingTripLength	20.00	0.70
tblTripsAndVMT	HaulingTripLength	20.00	0.70
tblTripsAndVMT	HaulingTripLength	20.00	0.70
tblTripsAndVMT	HaulingTripLength	20.00	0.70
tblTripsAndVMT	HaulingTripLength	20.00	0.70
tblTripsAndVMT	VendorTripLength	6.60	0.70
tblTripsAndVMT	VendorTripLength	6.60	0.70
tblTripsAndVMT	VendorTripLength	6.60	0.70
tblTripsAndVMT	VendorTripLength	6.60	0.70
tblTripsAndVMT	VendorTripLength	6.60	0.70
tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblTripsAndVMT	VendorTripNumber	0.00	8.00

tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	268.00	20.00
tblTripsAndVMT	WorkerTripLength	16.80	0.70
tblTripsAndVMT	WorkerTripLength	16.80	0.70
tblTripsAndVMT	WorkerTripLength	16.80	0.70
tblTripsAndVMT	WorkerTripLength	16.80	0.70
tblTripsAndVMT	WorkerTripLength	16.80	0.70
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tblTripsAndVMT	WorkerTripNumber	15.00	16.00
tblTripsAndVMT	WorkerTripNumber	687.00	100.00
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	ST_TR	2.46	0.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	SU_TR	1.05	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	WD_TR	1.89	0.00
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tblVehicleTrips	WD_TR	1.68	0.00
tblWater	AerobicPercent	87.46	0.00
tblWater	AerobicPercent	87.46	0.00
tblWater	AerobicPercent	87.46	0.00
tblWater	AerobicPercent	87.46	0.00
tblWater	AerobicPercent	87.46	0.00
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tblWater	AnaDigestCombDigestGasPercent	100.00	0.00
tblWater	AnaDigestCombDigestGasPercent	100.00	0.00

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tblWater	AnaDigestCombDigestGasPercent	100.00	0.00
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tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
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tblWater	ElectricityIntensityFactorToTreat	111.00	0.00
tblWater	ElectricityIntensityFactorToTreat	111.00	0.00

tblWater	ElectricityIntensityFactorToTreat	111.00	0.00
tblWater	OutdoorWaterUseRate	973,866.27	0.00
tblWater	SepticTankPercent	10.33	100.00
tblWater	SepticTankPercent	10.33	100.00
tblWater	SepticTankPercent	10.33	100.00
tblWater	SepticTankPercent	10.33	100.00
tblWater	SepticTankPercent	10.33	100.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	4.2343	46.8209	31.0635	0.0627	18.0801	2.0450	20.1250	9.9345	1.8814	11.8159	0.0000	6,077.9510	6,077.9510	1.9524	0.0000	6,126.7610
2022	72.1574	18.9445	19.1497	0.0333	0.0893	0.8934	0.9826	0.0243	0.8454	0.8697	0.0000	3,188.0386	3,188.0386	0.7507	0.0000	3,204.8835
Maximum	**72.1574**	**46.8209**	**31.0635**	**0.0627**	**18.0801**	**2.0450**	**20.1250**	**9.9345**	**1.8814**	**11.8159**	**0.0000**	**6,077.9510**	**6,077.9510**	**1.9524**	**0.0000**	**6,126.7610**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	4.2343	46.8209	31.0635	0.0627	7.0596	2.0450	9.1046	3.8768	1.8814	5.7582	0.0000	6,077.9510	6,077.9510	1.9524	0.0000	6,126.7609
2022	72.1574	18.9445	19.1497	0.0333	0.0893	0.8934	0.9826	0.0243	0.8454	0.8697	0.0000	3,188.0386	3,188.0386	0.7507	0.0000	3,204.8835
Maximum	**72.1574**	**46.8209**	**31.0635**	**0.0627**	**7.0596**	**2.0450**	**9.1046**	**3.8768**	**1.8814**	**5.7582**	**0.0000**	**6,077.9510**	**6,077.9510**	**1.9524**	**0.0000**	**6,126.7609**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**60.65**	**0.00**	**52.21**	**60.83**	**0.00**	**47.75**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	17.0910	1.1900e-003	0.1301	1.0000e-005		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004		0.2784	0.2784	7.3000e-004		0.2968
Energy	0.1333	1.2113	1.0175	7.2700e-003		0.0921	0.0921		0.0921	0.0921		1,453.5988	1,453.5988	0.0279	0.0267	1,462.2368
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Stationary	0.4923	1.3760	1.2553	2.3700e-003		0.0724	0.0724		0.0724	0.0724		251.8542	251.8542	0.0353		252.7370
Total	**17.7166**	**2.5885**	**2.4029**	**9.6500e-003**	**0.0000**	**0.1649**	**0.1649**	**0.0000**	**0.1649**	**0.1649**		**1,705.7315**	**1,705.7315**	**0.0639**	**0.0267**	**1,715.2706**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	17.0910	1.1900e-003	0.1301	1.0000e-005		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004		0.2784	0.2784	7.3000e-004		0.2968
Energy	0.1333	1.2113	1.0175	7.2700e-003		0.0921	0.0921		0.0921	0.0921		1,453.5988	1,453.5988	0.0279	0.0267	1,462.2368
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Stationary	0.4923	1.3760	1.2553	2.3700e-003		0.0724	0.0724		0.0724	0.0724		251.8542	251.8542	0.0353		252.7370
Total	**17.7166**	**2.5885**	**2.4029**	**9.6500e-003**	**0.0000**	**0.1649**	**0.1649**	**0.0000**	**0.1649**	**0.1649**		**1,705.7315**	**1,705.7315**	**0.0639**	**0.0267**	**1,715.2706**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	7/1/2021	7/15/2021	5	11	
2	Grading	Grading	7/16/2021	8/31/2021	5	33	
3	Architectural Coating	Architectural Coating	2/1/2022	4/30/2022	5	64	
4	Paving	Paving	4/1/2022	4/30/2022	5	21	
5	Building Construction	Building Construction	9/1/2021	3/30/2022	5	151	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 82.5

Acres of Paving: 14.75

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,095,416; Non-Residential Outdoor: 365,139; Striped Parking Area: 38,812 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	6.00	0.00	0.70	0.70	0.70	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	6.00	0.00	0.70	0.70	0.70	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	30.00	8.00	0.00	0.70	0.70	0.70	LD_Mix	HDT_Mix	HHDT
Paving	6	16.00	4.00	0.00	0.70	0.70	0.70	LD_Mix	HDT_Mix	HHDT
Building Construction	9	100.00	20.00	0.00	0.70	0.70	0.70	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809		3,685.6569	3,685.6569	1.1920		3,715.4573
Total	**3.8882**	**40.4971**	**21.1543**	**0.0380**	**18.0663**	**2.0445**	**20.1107**	**9.9307**	**1.8809**	**11.8116**		**3,685.6569**	**3,685.6569**	**1.1920**		**3,715.4573**

3.2 Site Preparation - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	9.4800e-003	0.4123	0.0703	5.4000e-004	4.0400e-003	3.6000e-004	4.4000e-003	1.1800e-003	3.4000e-004	1.5200e-003		56.1175	56.1175	8.9200e-003		56.3405
Worker	0.0303	7.8400e-003	0.1033	1.3000e-004	9.7500e-003	1.7000e-004	9.9200e-003	2.6100e-003	1.6000e-004	2.7600e-003		13.3111	13.3111	6.1000e-004		13.3263
Total	**0.0398**	**0.4202**	**0.1736**	**6.7000e-004**	**0.0138**	**5.3000e-004**	**0.0143**	**3.7900e-003**	**5.0000e-004**	**4.2800e-003**		**69.4285**	**69.4285**	**9.5300e-003**		**69.6668**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.0458	0.0000	7.0458	3.8730	0.0000	3.8730			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809	0.0000	3,685.6569	3,685.6569	1.1920		3,715.4573
Total	**3.8882**	**40.4971**	**21.1543**	**0.0380**	**7.0458**	**2.0445**	**9.0903**	**3.8730**	**1.8809**	**5.7539**	**0.0000**	**3,685.6569**	**3,685.6569**	**1.1920**		**3,715.4573**

3.2 Site Preparation - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	9.4800e-003	0.4123	0.0703	5.4000e-004	4.0400e-003	3.6000e-004	4.4000e-003	1.1800e-003	3.4000e-004	1.5200e-003		56.1175	56.1175	8.9200e-003		56.3405
Worker	0.0303	7.8400e-003	0.1033	1.3000e-004	9.7500e-003	1.7000e-004	9.9200e-003	2.6100e-003	1.6000e-004	2.7600e-003		13.3111	13.3111	6.1000e-004		13.3263
Total	**0.0398**	**0.4202**	**0.1736**	**6.7000e-004**	**0.0138**	**5.3000e-004**	**0.0143**	**3.7900e-003**	**5.0000e-004**	**4.2800e-003**		**69.4285**	**69.4285**	**9.5300e-003**		**69.6668**

3.3 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620		1.9853	1.9853		1.8265	1.8265		6,007.0434	6,007.0434	1.9428		6,055.6134
Total	**4.1912**	**46.3998**	**30.8785**	**0.0620**	**8.6733**	**1.9853**	**10.6587**	**3.5965**	**1.8265**	**5.4230**		**6,007.0434**	**6,007.0434**	**1.9428**		**6,055.6134**

3.3 Grading - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	9.4800e-003	0.4123	0.0703	5.4000e-004	4.0400e-003	3.6000e-004	4.4000e-003	1.1800e-003	3.4000e-004	1.5200e-003		56.1175	56.1175	8.9200e-003		56.3405
Worker	0.0337	8.7100e-003	0.1148	1.5000e-004	0.0108	1.9000e-004	0.0110	2.9000e-003	1.7000e-004	3.0700e-003		14.7901	14.7901	6.8000e-004		14.8070
Total	**0.0432**	**0.4210**	**0.1851**	**6.9000e-004**	**0.0149**	**5.5000e-004**	**0.0154**	**4.0800e-003**	**5.1000e-004**	**4.5900e-003**		**70.9076**	**70.9076**	**9.6000e-003**		**71.1475**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.3826	0.0000	3.3826	1.4026	0.0000	1.4026			0.0000			0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620		1.9853	1.9853		1.8265	1.8265	0.0000	6,007.0434	6,007.0434	1.9428		6,055.6134
Total	**4.1912**	**46.3998**	**30.8785**	**0.0620**	**3.3826**	**1.9853**	**5.3679**	**1.4026**	**1.8265**	**3.2292**	**0.0000**	**6,007.0434**	**6,007.0434**	**1.9428**		**6,055.6134**

3.3 Grading - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	9.4800e-003	0.4123	0.0703	5.4000e-004	4.0400e-003	3.6000e-004	4.4000e-003	1.1800e-003	3.4000e-004	1.5200e-003		56.1175	56.1175	8.9200e-003		56.3405
Worker	0.0337	8.7100e-003	0.1148	1.5000e-004	0.0108	1.9000e-004	0.0110	2.9000e-003	1.7000e-004	3.0700e-003		14.7901	14.7901	6.8000e-004		14.8070
Total	**0.0432**	**0.4210**	**0.1851**	**6.9000e-004**	**0.0149**	**5.5000e-004**	**0.0154**	**4.0800e-003**	**5.1000e-004**	**4.5900e-003**		**70.9076**	**70.9076**	**9.6000e-003**		**71.1475**

3.4 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	68.9209					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
Total	**69.1255**	**1.4085**	**1.8136**	**2.9700e-003**		**0.0817**	**0.0817**		**0.0817**	**0.0817**		**281.4481**	**281.4481**	**0.0183**		**281.9062**

3.4 Architectural Coating - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0117	0.5344	0.0853	7.1000e-004	5.3900e-003	4.1000e-004	5.8000e-003	1.5700e-003	4.0000e-004	1.9700e-003		74.1308	74.1308	0.0113		74.4140
Worker	0.0466	0.0116	0.1556	2.2000e-004	0.0163	2.7000e-004	0.0165	4.3500e-003	2.5000e-004	4.6000e-003		21.4152	21.4152	9.0000e-004		21.4376
Total	**0.0582**	**0.5459**	**0.2409**	**9.3000e-004**	**0.0216**	**6.8000e-004**	**0.0223**	**5.9200e-003**	**6.5000e-004**	**6.5700e-003**		**95.5460**	**95.5460**	**0.0122**		**95.8516**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	68.9209					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
Total	**69.1255**	**1.4085**	**1.8136**	**2.9700e-003**		**0.0817**	**0.0817**		**0.0817**	**0.0817**	**0.0000**	**281.4481**	**281.4481**	**0.0183**		**281.9062**

3.4 Architectural Coating - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0117	0.5344	0.0853	7.1000e-004	5.3900e-003	4.1000e-004	5.8000e-003	1.5700e-003	4.0000e-004	1.9700e-003		74.1308	74.1308	0.0113		74.4140
Worker	0.0466	0.0116	0.1556	2.2000e-004	0.0163	2.7000e-004	0.0165	4.3500e-003	2.5000e-004	4.6000e-003		21.4152	21.4152	9.0000e-004		21.4376
Total	**0.0582**	**0.5459**	**0.2409**	**9.3000e-004**	**0.0216**	**6.8000e-004**	**0.0223**	**5.9200e-003**	**6.5000e-004**	**6.5700e-003**		**95.5460**	**95.5460**	**0.0122**		**95.8516**

3.5 Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225		2,207.6603	2,207.6603	0.7140		2,225.5104
Paving	1.8402					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**2.9431**	**11.1249**	**14.5805**	**0.0228**		**0.5679**	**0.5679**		**0.5225**	**0.5225**		**2,207.6603**	**2,207.6603**	**0.7140**		**2,225.5104**

3.5 Paving - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.8300e-003	0.2672	0.0426	3.5000e-004	2.6900e-003	2.1000e-004	2.9000e-003	7.9000e-004	2.0000e-004	9.8000e-004		37.0654	37.0654	5.6600e-003		37.2070
Worker	0.0248	6.1700e-003	0.0830	1.2000e-004	8.6700e-003	1.5000e-004	8.8100e-003	2.3200e-003	1.3000e-004	2.4500e-003		11.4214	11.4214	4.8000e-004		11.4334
Total	**0.0307**	**0.2734**	**0.1256**	**4.7000e-004**	**0.0114**	**3.6000e-004**	**0.0117**	**3.1100e-003**	**3.3000e-004**	**3.4300e-003**		**48.4868**	**48.4868**	**6.1400e-003**		**48.6404**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225	0.0000	2,207.6603	2,207.6603	0.7140		2,225.5104
Paving	1.8402					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**2.9431**	**11.1249**	**14.5805**	**0.0228**		**0.5679**	**0.5679**		**0.5225**	**0.5225**	**0.0000**	**2,207.6603**	**2,207.6603**	**0.7140**		**2,225.5104**

3.5 Paving - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.8300e-003	0.2672	0.0426	3.5000e-004	2.6900e-003	2.1000e-004	2.9000e-003	7.9000e-004	2.0000e-004	9.8000e-004		37.0654	37.0654	5.6600e-003		37.2070
Worker	0.0248	6.1700e-003	0.0830	1.2000e-004	8.6700e-003	1.5000e-004	8.8100e-003	2.3200e-003	1.3000e-004	2.4500e-003		11.4214	11.4214	4.8000e-004		11.4334
Total	**0.0307**	**0.2734**	**0.1256**	**4.7000e-004**	**0.0114**	**3.6000e-004**	**0.0117**	**3.1100e-003**	**3.3000e-004**	**3.4300e-003**		**48.4868**	**48.4868**	**6.1400e-003**		**48.6404**

3.6 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643
Total	**1.9009**	**17.4321**	**16.5752**	**0.0269**		**0.9586**	**0.9586**		**0.9013**	**0.9013**		**2,553.3639**	**2,553.3639**	**0.6160**		**2,568.7643**

3.6 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0316	1.3744	0.2344	1.7900e-003	0.0135	1.2000e-003	0.0147	3.9300e-003	1.1400e-003	5.0700e-003		187.0582	187.0582	0.0297		187.8018
Worker	0.1685	0.0436	0.5740	7.5000e-004	0.0542	9.4000e-004	0.0551	0.0145	8.7000e-004	0.0154		73.9504	73.9504	3.3800e-003		74.0349
Total	**0.2000**	**1.4179**	**0.8083**	**2.5400e-003**	**0.0676**	**2.1400e-003**	**0.0698**	**0.0184**	**2.0100e-003**	**0.0204**		**261.0087**	**261.0087**	**0.0331**		**261.8367**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643
Total	**1.9009**	**17.4321**	**16.5752**	**0.0269**		**0.9586**	**0.9586**		**0.9013**	**0.9013**	**0.0000**	**2,553.3639**	**2,553.3639**	**0.6160**		**2,568.7643**

3.6 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0316	1.3744	0.2344	1.7900e-003	0.0135	1.2000e-003	0.0147	3.9300e-003	1.1400e-003	5.0700e-003		187.0582	187.0582	0.0297		187.8018
Worker	0.1685	0.0436	0.5740	7.5000e-004	0.0542	9.4000e-004	0.0551	0.0145	8.7000e-004	0.0154		73.9504	73.9504	3.3800e-003		74.0349
Total	**0.2000**	**1.4179**	**0.8083**	**2.5400e-003**	**0.0676**	**2.1400e-003**	**0.0698**	**0.0184**	**2.0100e-003**	**0.0204**		**261.0087**	**261.0087**	**0.0331**		**261.8367**

3.6 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322
Total	**1.7062**	**15.6156**	**16.3634**	**0.0269**		**0.8090**	**0.8090**		**0.7612**	**0.7612**		**2,554.3336**	**2,554.3336**	**0.6120**		**2,569.6322**

3.6 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0292	1.3359	0.2132	1.7700e-003	0.0135	1.0400e-003	0.0145	3.9300e-003	9.9000e-004	4.9200e-003		185.3271	185.3271	0.0283		186.0349
Worker	0.1552	0.0386	0.5187	7.2000e-004	0.0542	9.1000e-004	0.0551	0.0145	8.4000e-004	0.0153		71.3839	71.3839	3.0000e-003		71.4587
Total	**0.1843**	**1.3745**	**0.7318**	**2.4900e-003**	**0.0676**	**1.9500e-003**	**0.0696**	**0.0184**	**1.8300e-003**	**0.0203**		**256.7110**	**256.7110**	**0.0313**		**257.4936**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
Total	**1.7062**	**15.6156**	**16.3634**	**0.0269**		**0.8090**	**0.8090**		**0.7612**	**0.7612**	**0.0000**	**2,554.3336**	**2,554.3336**	**0.6120**		**2,569.6322**

3.6 Building Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0292	1.3359	0.2132	1.7700e-003	0.0135	1.0400e-003	0.0145	3.9300e-003	9.9000e-004	4.9200e-003		185.3271	185.3271	0.0283		186.0349
Worker	0.1552	0.0386	0.5187	7.2000e-004	0.0542	9.1000e-004	0.0551	0.0145	8.4000e-004	0.0153		71.3839	71.3839	3.0000e-003		71.4587
Total	**0.1843**	**1.3745**	**0.7318**	**2.4900e-003**	**0.0676**	**1.9500e-003**	**0.0696**	**0.0184**	**1.8300e-003**	**0.0203**		**256.7110**	**256.7110**	**0.0313**		**257.4936**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
General Office Building	0.00	0.00	0.00		
General Office Building	0.00	0.00	0.00		
General Office Building	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	14.70	6.60	6.60	33.00	48.00	19.00	66	28	6
General Office Building	14.70	6.60	6.60	33.00	48.00	19.00	77	19	4
General Office Building	14.70	6.60	6.60	33.00	48.00	19.00	77	19	4
General Office Building	14.70	6.60	6.60	33.00	48.00	19.00	77	19	4
Other Asphalt Surfaces	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0
Parking Lot	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	14.70	6.60	6.60	59.00	0.00	41.00	92	5	3
Unrefrigerated Warehouse-No	14.70	6.60	6.60	59.00	0.00	41.00	92	5	3
Unrefrigerated Warehouse-No	14.70	6.60	6.60	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.556917	0.035296	0.183646	0.120139	0.017882	0.004687	0.016156	0.056151	0.001190	0.001453	0.005055	0.000610	0.000818
General Office Building	0.556917	0.035296	0.183646	0.120139	0.017882	0.004687	0.016156	0.056151	0.001190	0.001453	0.005055	0.000610	0.000818
Other Asphalt Surfaces	0.556917	0.035296	0.183646	0.120139	0.017882	0.004687	0.016156	0.056151	0.001190	0.001453	0.005055	0.000610	0.000818
Parking Lot	0.556917	0.035296	0.183646	0.120139	0.017882	0.004687	0.016156	0.056151	0.001190	0.001453	0.005055	0.000610	0.000818
Unrefrigerated Warehouse-No Rail	0.556917	0.035296	0.183646	0.120139	0.017882	0.004687	0.016156	0.056151	0.001190	0.001453	0.005055	0.000610	0.000818

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Schulte Unmit Const AAQA - San Joaquin County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.1333	1.2113	1.0175	7.2700e-003		0.0921	0.0921		0.0921	0.0921		1,453.5988	1,453.5988	0.0279	0.0267	1,462.2368
NaturalGas Unmitigated	0.1333	1.2113	1.0175	7.2700e-003		0.0921	0.0921		0.0921	0.0921		1,453.5988	1,453.5988	0.0279	0.0267	1,462.2368

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	132.365	1.4300e-003	0.0130	0.0109	8.0000e-005		9.9000e-004	9.9000e-004		9.9000e-004	9.9000e-004		15.5723	15.5723	3.0000e-004	2.9000e-004	15.6649
General Office Building	132.544	1.4300e-003	0.0130	0.0109	8.0000e-005		9.9000e-004	9.9000e-004		9.9000e-004	9.9000e-004		15.5934	15.5934	3.0000e-004	2.9000e-004	15.6860
General Office Building	134.241	1.4500e-003	0.0132	0.0111	8.0000e-005		1.0000e-003	1.0000e-003		1.0000e-003	1.0000e-003		15.7930	15.7930	3.0000e-004	2.9000e-004	15.8869
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	2710.45	0.0292	0.2657	0.2232	1.5900e-003		0.0202	0.0202		0.0202	0.0202		318.8764	318.8764	6.1100e-003	5.8500e-003	320.7714
Unrefrigerated Warehouse-No Rail	4622.68	0.0499	0.4532	0.3807	2.7200e-003		0.0344	0.0344		0.0344	0.0344		543.8448	543.8448	0.0104	9.9700e-003	547.0766
Unrefrigerated Warehouse-No Rail	4623.31	0.0499	0.4533	0.3807	2.7200e-003		0.0345	0.0345		0.0345	0.0345		543.9189	543.9189	0.0104	9.9700e-003	547.1511
Total		**0.1333**	**1.2113**	**1.0175**	**7.2700e-003**		**0.0921**	**0.0921**		**0.0921**	**0.0921**		**1,453.5988**	**1,453.5988**	**0.0279**	**0.0267**	**1,462.2368**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	0.132365	1.4300e-003	0.0130	0.0109	8.0000e-005		9.9000e-004	9.9000e-004		9.9000e-004	9.9000e-004		15.5723	15.5723	3.0000e-004	2.9000e-004	15.6649
General Office Building	0.132544	1.4300e-003	0.0130	0.0109	8.0000e-005		9.9000e-004	9.9000e-004		9.9000e-004	9.9000e-004		15.5934	15.5934	3.0000e-004	2.9000e-004	15.6860
General Office Building	0.134241	1.4500e-003	0.0132	0.0111	8.0000e-005		1.0000e-003	1.0000e-003		1.0000e-003	1.0000e-003		15.7930	15.7930	3.0000e-004	2.9000e-004	15.8869
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	2.71045	0.0292	0.2657	0.2232	1.5900e-003		0.0202	0.0202		0.0202	0.0202		318.8764	318.8764	6.1100e-003	5.8500e-003	320.7714
Unrefrigerated Warehouse-No Rail	4.62268	0.0499	0.4532	0.3807	2.7200e-003		0.0344	0.0344		0.0344	0.0344		543.8448	543.8448	0.0104	9.9700e-003	547.0766
Unrefrigerated Warehouse-No Rail	4.62331	0.0499	0.4533	0.3807	2.7200e-003		0.0345	0.0345		0.0345	0.0345		543.9189	543.9189	0.0104	9.9700e-003	547.1511
Total		**0.1333**	**1.2113**	**1.0175**	**7.2700e-003**		**0.0921**	**0.0921**		**0.0921**	**0.0921**		**1,453.5988**	**1,453.5988**	**0.0279**	**0.0267**	**1,462.2368**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	17.0910	1.1900e-003	0.1301	1.0000e-005		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004		0.2784	0.2784	7.3000e-004		0.2968
Unmitigated	17.0910	1.1900e-003	0.1301	1.0000e-005		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004		0.2784	0.2784	7.3000e-004		0.2968

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.2085					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	15.8704					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0121	1.1900e-003	0.1301	1.0000e-005		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004		0.2784	0.2784	7.3000e-004		0.2968
Total	**17.0910**	**1.1900e-003**	**0.1301**	**1.0000e-005**		**4.6000e-004**	**4.6000e-004**		**4.6000e-004**	**4.6000e-004**		**0.2784**	**0.2784**	**7.3000e-004**		**0.2968**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.2085					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	15.8704					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0121	1.1900e-003	0.1301	1.0000e-005		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004		0.2784	0.2784	7.3000e-004		0.2968
Total	**17.0910**	**1.1900e-003**	**0.1301**	**1.0000e-005**		**4.6000e-004**	**4.6000e-004**		**4.6000e-004**	**4.6000e-004**		**0.2784**	**0.2784**	**7.3000e-004**		**0.2968**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Fire Pump	1	1	50	300	0.73	Diesel

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

10.1 Stationary Sources

Unmitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	lb/day										lb/day					
Fire Pump - Diesel (300 - 600 HP)	0.4923	1.3760	1.2553	2.3700e-003		0.0724	0.0724		0.0724	0.0724		251.8542	251.8542	0.0353		252.7370
Total	**0.4923**	**1.3760**	**1.2553**	**2.3700e-003**		**0.0724**	**0.0724**		**0.0724**	**0.0724**		**251.8542**	**251.8542**	**0.0353**		**252.7370**

11.0 Vegetation

Schulte Unmit Const AAQA

San Joaquin County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	2.97	1000sqft	0.07	2,968.00	0
General Office Building	3.01	1000sqft	0.07	3,006.00	0
General Office Building	2.96	1000sqft	0.07	2,964.00	0
Unrefrigerated Warehouse-No Rail	278.93	1000sqft	6.40	278,927.00	0
Unrefrigerated Warehouse-No Rail	278.89	1000sqft	6.40	278,889.00	0
Unrefrigerated Warehouse-No Rail	163.52	1000sqft	3.75	163,523.00	0
Other Asphalt Surfaces	10.02	Acre	10.02	436,471.20	0
Parking Lot	526.00	Space	4.73	210,400.00	0
City Park	5.96	Acre	5.96	259,617.60	0

1.2 Other Project Characteristics

Urbanization	Rural	**Wind Speed (m/s)**	2.7	**Precipitation Freq (Days)**	51
Climate Zone	2			**Operational Year**	2022
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	206	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - RPS based on PG&E 2018 reported factor https://www.pgecorp.com/corp_responsibility/reports/2020/assets/PGE_CRSR_2020.pdf

Land Use - City park represents landscape and outdoor water use.

Construction Phase - Data provided by applicant.

Trips and VMT - Data provided by applicant. AAQA trip distance travel 0.45 miles on-site and 0.25 miles off-site.

Grading -

Architectural Coating - SJVAPCD Rule 4601 VOC limits

Vehicle Trips - Quantified in spreadsheet using EMFAC2017

Area Coating - SJVAPCD Rule 4601 VOC limits

Energy Use - Compliance with 2019 T24 10% electricity reduction, 1% NG reduction
Electricity use from water pump included

Water And Wastewater - Outdoor wateruse City Park land use represents landscaping. Project will be on 100% septic.
Water and wastewater would use onsite electric pump. Added to electricity use.

Construction Off-road Equipment Mitigation - Fugitive dust control measures

Operational Off-Road Equipment - .

Stationary Sources - Emergency Generators and Fire Pumps -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	100.00
tblArchitecturalCoating	EF_Nonresidential_Interior	150.00	50.00
tblArchitecturalCoating	EF_Parking	150.00	100.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	150	100
tblAreaCoating	Area_EF_Nonresidential_Interior	150	50
tblAreaCoating	Area_EF_Parking	150	100
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	30.00	11.00
tblConstructionPhase	NumDays	75.00	33.00
tblConstructionPhase	NumDays	55.00	64.00
tblConstructionPhase	NumDays	55.00	21.00

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tblConstructionPhase	NumDays	740.00	151.00
tblEnergyUse	NT24E	1.77	1.85
tblEnergyUse	T24E	3.22	2.90
tblEnergyUse	T24E	0.50	0.45
tblEnergyUse	T24NG	15.99	15.83
tblEnergyUse	T24NG	6.11	6.05
tblLandUse	LandUseSquareFeet	2,960.00	2,964.00
tblLandUse	LandUseSquareFeet	2,970.00	2,968.00
tblLandUse	LandUseSquareFeet	3,010.00	3,006.00
tblLandUse	LandUseSquareFeet	163,520.00	163,523.00
tblLandUse	LandUseSquareFeet	278,890.00	278,889.00
tblLandUse	LandUseSquareFeet	278,930.00	278,927.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	206
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblTripsAndVMT	HaulingTripLength	20.00	0.70
tblTripsAndVMT	HaulingTripLength	20.00	0.70
tblTripsAndVMT	HaulingTripLength	20.00	0.70
tblTripsAndVMT	HaulingTripLength	20.00	0.70
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tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblTripsAndVMT	VendorTripNumber	0.00	8.00

tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	268.00	20.00
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tblTripsAndVMT	WorkerTripLength	16.80	0.70
tblTripsAndVMT	WorkerTripLength	16.80	0.70
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tblTripsAndVMT	WorkerTripLength	16.80	0.70
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tblWater	AerobicPercent	87.46	0.00
tblWater	AerobicPercent	87.46	0.00
tblWater	AerobicPercent	87.46	0.00
tblWater	AerobicPercent	87.46	0.00
tblWater	AnaDigestCombDigestGasPercent	100.00	0.00
tblWater	AnaDigestCombDigestGasPercent	100.00	0.00
tblWater	AnaDigestCombDigestGasPercent	100.00	0.00

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tblWater	ElectricityIntensityFactorToTreat	111.00	0.00
tblWater	OutdoorWaterUseRate	973,866.27	0.00
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tblWater	SepticTankPercent	10.33	100.00
tblWater	SepticTankPercent	10.33	100.00
tblWater	SepticTankPercent	10.33	100.00
tblWater	SepticTankPercent	10.33	100.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	4.2246	46.8132	31.1179	0.0626	18.0801	2.0451	20.1251	9.9345	1.8815	11.8159	0.0000	6,071.2504	6,071.2504	1.9538	0.0000	6,120.0945
2022	72.1361	18.9123	19.4301	0.0330	0.0893	0.8937	0.9829	0.0243	0.8456	0.8700	0.0000	3,154.8212	3,154.8212	0.7533	0.0000	3,171.8235
Maximum	**72.1361**	**46.8132**	**31.1179**	**0.0626**	**18.0801**	**2.0451**	**20.1251**	**9.9345**	**1.8815**	**11.8159**	**0.0000**	**6,071.2504**	**6,071.2504**	**1.9538**	**0.0000**	**6,120.0945**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	4.2246	46.8132	31.1179	0.0626	7.0596	2.0451	9.1047	3.8768	1.8815	5.7582	0.0000	6,071.2503	6,071.2503	1.9538	0.0000	6,120.0945
2022	72.1361	18.9123	19.4301	0.0330	0.0893	0.8937	0.9829	0.0243	0.8456	0.8700	0.0000	3,154.8212	3,154.8212	0.7533	0.0000	3,171.8235
Maximum	**72.1361**	**46.8132**	**31.1179**	**0.0626**	**7.0596**	**2.0451**	**9.1047**	**3.8768**	**1.8815**	**5.7582**	**0.0000**	**6,071.2503**	**6,071.2503**	**1.9538**	**0.0000**	**6,120.0945**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**60.65**	**0.00**	**52.21**	**60.83**	**0.00**	**47.75**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	17.0910	1.1900e-003	0.1301	1.0000e-005		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004		0.2784	0.2784	7.3000e-004		0.2968
Energy	0.1333	1.2113	1.0175	7.2700e-003		0.0921	0.0921		0.0921	0.0921		1,453.5988	1,453.5988	0.0279	0.0267	1,462.2368
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Stationary	0.4923	1.3760	1.2553	2.3700e-003		0.0724	0.0724		0.0724	0.0724		251.8542	251.8542	0.0353		252.7370
Total	**17.7166**	**2.5885**	**2.4029**	**9.6500e-003**	**0.0000**	**0.1649**	**0.1649**	**0.0000**	**0.1649**	**0.1649**		**1,705.7315**	**1,705.7315**	**0.0639**	**0.0267**	**1,715.2706**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	17.0910	1.1900e-003	0.1301	1.0000e-005		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004		0.2784	0.2784	7.3000e-004		0.2968
Energy	0.1333	1.2113	1.0175	7.2700e-003		0.0921	0.0921		0.0921	0.0921		1,453.5988	1,453.5988	0.0279	0.0267	1,462.2368
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Stationary	0.4923	1.3760	1.2553	2.3700e-003		0.0724	0.0724		0.0724	0.0724		251.8542	251.8542	0.0353		252.7370
Total	**17.7166**	**2.5885**	**2.4029**	**9.6500e-003**	**0.0000**	**0.1649**	**0.1649**	**0.0000**	**0.1649**	**0.1649**		**1,705.7315**	**1,705.7315**	**0.0639**	**0.0267**	**1,715.2706**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	7/1/2021	7/15/2021	5	11	
2	Grading	Grading	7/16/2021	8/31/2021	5	33	
3	Architectural Coating	Architectural Coating	2/1/2022	4/30/2022	5	64	
4	Paving	Paving	4/1/2022	4/30/2022	5	21	
5	Building Construction	Building Construction	9/1/2021	3/30/2022	5	151	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 82.5

Acres of Paving: 14.75

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,095,416; Non-Residential Outdoor: 365,139; Striped Parking Area: 38,812 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	6.00	0.00	0.70	0.70	0.70	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	6.00	0.00	0.70	0.70	0.70	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	30.00	8.00	0.00	0.70	0.70	0.70	LD_Mix	HDT_Mix	HHDT
Paving	6	16.00	4.00	0.00	0.70	0.70	0.70	LD_Mix	HDT_Mix	HHDT
Building Construction	9	100.00	20.00	0.00	0.70	0.70	0.70	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809		3,685.6569	3,685.6569	1.1920		3,715.4573
Total	**3.8882**	**40.4971**	**21.1543**	**0.0380**	**18.0663**	**2.0445**	**20.1107**	**9.9307**	**1.8809**	**11.8116**		**3,685.6569**	**3,685.6569**	**1.1920**		**3,715.4573**

3.2 Site Preparation - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0105	0.4028	0.0933	4.8000e-004	4.0400e-003	4.3000e-004	4.4700e-003	1.1800e-003	4.1000e-004	1.5900e-003		50.6861	50.6861	0.0102		50.9403
Worker	0.0206	9.5000e-003	0.1315	1.2000e-004	9.7500e-003	1.7000e-004	9.9200e-003	2.6100e-003	1.6000e-004	2.7600e-003		12.1687	12.1687	7.2000e-004		12.1868
Total	**0.0311**	**0.4123**	**0.2248**	**6.0000e-004**	**0.0138**	**6.0000e-004**	**0.0144**	**3.7900e-003**	**5.7000e-004**	**4.3500e-003**		**62.8548**	**62.8548**	**0.0109**		**63.1270**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.0458	0.0000	7.0458	3.8730	0.0000	3.8730			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809	0.0000	3,685.6569	3,685.6569	1.1920		3,715.4573
Total	**3.8882**	**40.4971**	**21.1543**	**0.0380**	**7.0458**	**2.0445**	**9.0903**	**3.8730**	**1.8809**	**5.7539**	**0.0000**	**3,685.6569**	**3,685.6569**	**1.1920**		**3,715.4573**

3.2 Site Preparation - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0105	0.4028	0.0933	4.8000e-004	4.0400e-003	4.3000e-004	4.4700e-003	1.1800e-003	4.1000e-004	1.5900e-003		50.6861	50.6861	0.0102		50.9403
Worker	0.0206	9.5000e-003	0.1315	1.2000e-004	9.7500e-003	1.7000e-004	9.9200e-003	2.6100e-003	1.6000e-004	2.7600e-003		12.1687	12.1687	7.2000e-004		12.1868
Total	**0.0311**	**0.4123**	**0.2248**	**6.0000e-004**	**0.0138**	**6.0000e-004**	**0.0144**	**3.7900e-003**	**5.7000e-004**	**4.3500e-003**		**62.8548**	**62.8548**	**0.0109**		**63.1270**

3.3 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620		1.9853	1.9853		1.8265	1.8265		6,007.0434	6,007.0434	1.9428		6,055.6134
Total	**4.1912**	**46.3998**	**30.8785**	**0.0620**	**8.6733**	**1.9853**	**10.6587**	**3.5965**	**1.8265**	**5.4230**		**6,007.0434**	**6,007.0434**	**1.9428**		**6,055.6134**

3.3 Grading - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0105	0.4028	0.0933	4.8000e-004	4.0400e-003	4.3000e-004	4.4700e-003	1.1800e-003	4.1000e-004	1.5900e-003		50.6861	50.6861	0.0102		50.9403
Worker	0.0229	0.0106	0.1461	1.4000e-004	0.0108	1.9000e-004	0.0110	2.9000e-003	1.7000e-004	3.0700e-003		13.5208	13.5208	8.0000e-004		13.5409
Total	**0.0334**	**0.4133**	**0.2394**	**6.2000e-004**	**0.0149**	**6.2000e-004**	**0.0155**	**4.0800e-003**	**5.8000e-004**	**4.6600e-003**		**64.2069**	**64.2069**	**0.0110**		**64.4811**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.3826	0.0000	3.3826	1.4026	0.0000	1.4026			0.0000			0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620		1.9853	1.9853		1.8265	1.8265	0.0000	6,007.0434	6,007.0434	1.9428		6,055.6134
Total	**4.1912**	**46.3998**	**30.8785**	**0.0620**	**3.3826**	**1.9853**	**5.3679**	**1.4026**	**1.8265**	**3.2292**	**0.0000**	**6,007.0434**	**6,007.0434**	**1.9428**		**6,055.6134**

3.3 Grading - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0105	0.4028	0.0933	4.8000e-004	4.0400e-003	4.3000e-004	4.4700e-003	1.1800e-003	4.1000e-004	1.5900e-003		50.6861	50.6861	0.0102		50.9403
Worker	0.0229	0.0106	0.1461	1.4000e-004	0.0108	1.9000e-004	0.0110	2.9000e-003	1.7000e-004	3.0700e-003		13.5208	13.5208	8.0000e-004		13.5409
Total	**0.0334**	**0.4133**	**0.2394**	**6.2000e-004**	**0.0149**	**6.2000e-004**	**0.0155**	**4.0800e-003**	**5.8000e-004**	**4.6600e-003**		**64.2069**	**64.2069**	**0.0110**		**64.4811**

3.4 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	68.9209					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
Total	**69.1255**	**1.4085**	**1.8136**	**2.9700e-003**		**0.0817**	**0.0817**		**0.0817**	**0.0817**		**281.4481**	**281.4481**	**0.0183**		**281.9062**

3.4 Architectural Coating - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0129	0.5222	0.1138	6.4000e-004	5.3900e-003	5.0000e-004	5.8900e-003	1.5700e-003	4.8000e-004	2.0500e-003		66.9125	66.9125	0.0129		67.2355
Worker	0.0314	0.0140	0.1973	2.0000e-004	0.0163	2.7000e-004	0.0165	4.3500e-003	2.5000e-004	4.6000e-003		19.5799	19.5799	1.0600e-003		19.6064
Total	**0.0444**	**0.5362**	**0.3111**	**8.4000e-004**	**0.0216**	**7.7000e-004**	**0.0224**	**5.9200e-003**	**7.3000e-004**	**6.6500e-003**		**86.4923**	**86.4923**	**0.0140**		**86.8419**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	68.9209					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
Total	**69.1255**	**1.4085**	**1.8136**	**2.9700e-003**		**0.0817**	**0.0817**		**0.0817**	**0.0817**	**0.0000**	**281.4481**	**281.4481**	**0.0183**		**281.9062**

3.4 Architectural Coating - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0129	0.5222	0.1138	6.4000e-004	5.3900e-003	5.0000e-004	5.8900e-003	1.5700e-003	4.8000e-004	2.0500e-003		66.9125	66.9125	0.0129		67.2355
Worker	0.0314	0.0140	0.1973	2.0000e-004	0.0163	2.7000e-004	0.0165	4.3500e-003	2.5000e-004	4.6000e-003		19.5799	19.5799	1.0600e-003		19.6064
Total	**0.0444**	**0.5362**	**0.3111**	**8.4000e-004**	**0.0216**	**7.7000e-004**	**0.0224**	**5.9200e-003**	**7.3000e-004**	**6.6500e-003**		**86.4923**	**86.4923**	**0.0140**		**86.8419**

3.5 Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225		2,207.6603	2,207.6603	0.7140		2,225.5104
Paving	1.8402					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**2.9431**	**11.1249**	**14.5805**	**0.0228**		**0.5679**	**0.5679**		**0.5225**	**0.5225**		**2,207.6603**	**2,207.6603**	**0.7140**		**2,225.5104**

3.5 Paving - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.4700e-003	0.2611	0.0569	3.2000e-004	2.6900e-003	2.5000e-004	2.9400e-003	7.9000e-004	2.4000e-004	1.0300e-003		33.4562	33.4562	6.4600e-003		33.6177
Worker	0.0168	7.4700e-003	0.1052	1.1000e-004	8.6700e-003	1.5000e-004	8.8100e-003	2.3200e-003	1.3000e-004	2.4500e-003		10.4426	10.4426	5.7000e-004		10.4568
Total	**0.0232**	**0.2686**	**0.1621**	**4.3000e-004**	**0.0114**	**4.0000e-004**	**0.0118**	**3.1100e-003**	**3.7000e-004**	**3.4800e-003**		**43.8988**	**43.8988**	**7.0300e-003**		**44.0745**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225	0.0000	2,207.6603	2,207.6603	0.7140		2,225.5104
Paving	1.8402					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**2.9431**	**11.1249**	**14.5805**	**0.0228**		**0.5679**	**0.5679**		**0.5225**	**0.5225**	**0.0000**	**2,207.6603**	**2,207.6603**	**0.7140**		**2,225.5104**

3.5 Paving - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.4700e-003	0.2611	0.0569	3.2000e-004	2.6900e-003	2.5000e-004	2.9400e-003	7.9000e-004	2.4000e-004	1.0300e-003		33.4562	33.4562	6.4600e-003		33.6177
Worker	0.0168	7.4700e-003	0.1052	1.1000e-004	8.6700e-003	1.5000e-004	8.8100e-003	2.3200e-003	1.3000e-004	2.4500e-003		10.4426	10.4426	5.7000e-004		10.4568
Total	**0.0232**	**0.2686**	**0.1621**	**4.3000e-004**	**0.0114**	**4.0000e-004**	**0.0118**	**3.1100e-003**	**3.7000e-004**	**3.4800e-003**		**43.8988**	**43.8988**	**7.0300e-003**		**44.0745**

3.6 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643
Total	**1.9009**	**17.4321**	**16.5752**	**0.0269**		**0.9586**	**0.9586**		**0.9013**	**0.9013**		**2,553.3639**	**2,553.3639**	**0.6160**		**2,568.7643**

3.6 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0350	1.3426	0.3111	1.6100e-003	0.0135	1.4300e-003	0.0149	3.9300e-003	1.3600e-003	5.2900e-003		168.9537	168.9537	0.0339		169.8008
Worker	0.1145	0.0528	0.7304	6.9000e-004	0.0542	9.4000e-004	0.0551	0.0145	8.7000e-004	0.0154		67.6041	67.6041	4.0100e-003		67.7043
Total	**0.1495**	**1.3954**	**1.0415**	**2.3000e-003**	**0.0676**	**2.3700e-003**	**0.0700**	**0.0184**	**2.2300e-003**	**0.0206**		**236.5578**	**236.5578**	**0.0379**		**237.5051**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643
Total	**1.9009**	**17.4321**	**16.5752**	**0.0269**		**0.9586**	**0.9586**		**0.9013**	**0.9013**	**0.0000**	**2,553.3639**	**2,553.3639**	**0.6160**		**2,568.7643**

3.6 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0350	1.3426	0.3111	1.6100e-003	0.0135	1.4300e-003	0.0149	3.9300e-003	1.3600e-003	5.2900e-003		168.9537	168.9537	0.0339		169.8008
Worker	0.1145	0.0528	0.7304	6.9000e-004	0.0542	9.4000e-004	0.0551	0.0145	8.7000e-004	0.0154		67.6041	67.6041	4.0100e-003		67.7043
Total	**0.1495**	**1.3954**	**1.0415**	**2.3000e-003**	**0.0676**	**2.3700e-003**	**0.0700**	**0.0184**	**2.2300e-003**	**0.0206**		**236.5578**	**236.5578**	**0.0379**		**237.5051**

3.6 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322
Total	**1.7062**	**15.6156**	**16.3634**	**0.0269**		**0.8090**	**0.8090**		**0.7612**	**0.7612**		**2,554.3336**	**2,554.3336**	**0.6120**		**2,569.6322**

3.6 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0323	1.3054	0.2845	1.6000e-003	0.0135	1.2500e-003	0.0147	3.9300e-003	1.2000e-003	5.1300e-003		167.2811	167.2811	0.0323		168.0886
Worker	0.1047	0.0467	0.6575	6.6000e-004	0.0542	9.1000e-004	0.0551	0.0145	8.4000e-004	0.0153		65.2662	65.2662	3.5400e-003		65.3547
Total	**0.1371**	**1.3521**	**0.9420**	**2.2600e-003**	**0.0676**	**2.1600e-003**	**0.0698**	**0.0184**	**2.0400e-003**	**0.0205**		**232.5473**	**232.5473**	**0.0358**		**233.4433**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
Total	**1.7062**	**15.6156**	**16.3634**	**0.0269**		**0.8090**	**0.8090**		**0.7612**	**0.7612**	**0.0000**	**2,554.3336**	**2,554.3336**	**0.6120**		**2,569.6322**

3.6 Building Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0323	1.3054	0.2845	1.6000e-003	0.0135	1.2500e-003	0.0147	3.9300e-003	1.2000e-003	5.1300e-003		167.2811	167.2811	0.0323		168.0886
Worker	0.1047	0.0467	0.6575	6.6000e-004	0.0542	9.1000e-004	0.0551	0.0145	8.4000e-004	0.0153		65.2662	65.2662	3.5400e-003		65.3547
Total	**0.1371**	**1.3521**	**0.9420**	**2.2600e-003**	**0.0676**	**2.1600e-003**	**0.0698**	**0.0184**	**2.0400e-003**	**0.0205**		**232.5473**	**232.5473**	**0.0358**		**233.4433**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
General Office Building	0.00	0.00	0.00		
General Office Building	0.00	0.00	0.00		
General Office Building	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	14.70	6.60	6.60	33.00	48.00	19.00	66	28	6
General Office Building	14.70	6.60	6.60	33.00	48.00	19.00	77	19	4
General Office Building	14.70	6.60	6.60	33.00	48.00	19.00	77	19	4
General Office Building	14.70	6.60	6.60	33.00	48.00	19.00	77	19	4
Other Asphalt Surfaces	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0
Parking Lot	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	14.70	6.60	6.60	59.00	0.00	41.00	92	5	3
Unrefrigerated Warehouse-No	14.70	6.60	6.60	59.00	0.00	41.00	92	5	3
Unrefrigerated Warehouse-No	14.70	6.60	6.60	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.556917	0.035296	0.183646	0.120139	0.017882	0.004687	0.016156	0.056151	0.001190	0.001453	0.005055	0.000610	0.000818
General Office Building	0.556917	0.035296	0.183646	0.120139	0.017882	0.004687	0.016156	0.056151	0.001190	0.001453	0.005055	0.000610	0.000818
Other Asphalt Surfaces	0.556917	0.035296	0.183646	0.120139	0.017882	0.004687	0.016156	0.056151	0.001190	0.001453	0.005055	0.000610	0.000818
Parking Lot	0.556917	0.035296	0.183646	0.120139	0.017882	0.004687	0.016156	0.056151	0.001190	0.001453	0.005055	0.000610	0.000818
Unrefrigerated Warehouse-No Rail	0.556917	0.035296	0.183646	0.120139	0.017882	0.004687	0.016156	0.056151	0.001190	0.001453	0.005055	0.000610	0.000818

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Schulte Unmit Const AAQA - San Joaquin County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.1333	1.2113	1.0175	7.2700e-003		0.0921	0.0921		0.0921	0.0921		1,453.5988	1,453.5988	0.0279	0.0267	1,462.2368
NaturalGas Unmitigated	0.1333	1.2113	1.0175	7.2700e-003		0.0921	0.0921		0.0921	0.0921		1,453.5988	1,453.5988	0.0279	0.0267	1,462.2368

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	132.365	1.4300e-003	0.0130	0.0109	8.0000e-005		9.9000e-004	9.9000e-004		9.9000e-004	9.9000e-004		15.5723	15.5723	3.0000e-004	2.9000e-004	15.6649
General Office Building	132.544	1.4300e-003	0.0130	0.0109	8.0000e-005		9.9000e-004	9.9000e-004		9.9000e-004	9.9000e-004		15.5934	15.5934	3.0000e-004	2.9000e-004	15.6860
General Office Building	134.241	1.4500e-003	0.0132	0.0111	8.0000e-005		1.0000e-003	1.0000e-003		1.0000e-003	1.0000e-003		15.7930	15.7930	3.0000e-004	2.9000e-004	15.8869
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	2710.45	0.0292	0.2657	0.2232	1.5900e-003		0.0202	0.0202		0.0202	0.0202		318.8764	318.8764	6.1100e-003	5.8500e-003	320.7714
Unrefrigerated Warehouse-No Rail	4622.68	0.0499	0.4532	0.3807	2.7200e-003		0.0344	0.0344		0.0344	0.0344		543.8448	543.8448	0.0104	9.9700e-003	547.0766
Unrefrigerated Warehouse-No Rail	4623.31	0.0499	0.4533	0.3807	2.7200e-003		0.0345	0.0345		0.0345	0.0345		543.9189	543.9189	0.0104	9.9700e-003	547.1511
Total		**0.1333**	**1.2113**	**1.0175**	**7.2700e-003**		**0.0921**	**0.0921**		**0.0921**	**0.0921**		**1,453.5988**	**1,453.5988**	**0.0279**	**0.0267**	**1,462.2368**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	0.132365	1.4300e-003	0.0130	0.0109	8.0000e-005		9.9000e-004	9.9000e-004		9.9000e-004	9.9000e-004		15.5723	15.5723	3.0000e-004	2.9000e-004	15.6649
General Office Building	0.132544	1.4300e-003	0.0130	0.0109	8.0000e-005		9.9000e-004	9.9000e-004		9.9000e-004	9.9000e-004		15.5934	15.5934	3.0000e-004	2.9000e-004	15.6860
General Office Building	0.134241	1.4500e-003	0.0132	0.0111	8.0000e-005		1.0000e-003	1.0000e-003		1.0000e-003	1.0000e-003		15.7930	15.7930	3.0000e-004	2.9000e-004	15.8869
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	2.71045	0.0292	0.2657	0.2232	1.5900e-003		0.0202	0.0202		0.0202	0.0202		318.8764	318.8764	6.1100e-003	5.8500e-003	320.7714
Unrefrigerated Warehouse-No Rail	4.62268	0.0499	0.4532	0.3807	2.7200e-003		0.0344	0.0344		0.0344	0.0344		543.8448	543.8448	0.0104	9.9700e-003	547.0766
Unrefrigerated Warehouse-No Rail	4.62331	0.0499	0.4533	0.3807	2.7200e-003		0.0345	0.0345		0.0345	0.0345		543.9189	543.9189	0.0104	9.9700e-003	547.1511
Total		**0.1333**	**1.2113**	**1.0175**	**7.2700e-003**		**0.0921**	**0.0921**		**0.0921**	**0.0921**		**1,453.5988**	**1,453.5988**	**0.0279**	**0.0267**	**1,462.2368**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	17.0910	1.1900e-003	0.1301	1.0000e-005		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004		0.2784	0.2784	7.3000e-004		0.2968
Unmitigated	17.0910	1.1900e-003	0.1301	1.0000e-005		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004		0.2784	0.2784	7.3000e-004		0.2968

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.2085					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	15.8704					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0121	1.1900e-003	0.1301	1.0000e-005		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004		0.2784	0.2784	7.3000e-004		0.2968
Total	**17.0910**	**1.1900e-003**	**0.1301**	**1.0000e-005**		**4.6000e-004**	**4.6000e-004**		**4.6000e-004**	**4.6000e-004**		**0.2784**	**0.2784**	**7.3000e-004**		**0.2968**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.2085					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	15.8704					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0121	1.1900e-003	0.1301	1.0000e-005		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004		0.2784	0.2784	7.3000e-004		0.2968
Total	**17.0910**	**1.1900e-003**	**0.1301**	**1.0000e-005**		**4.6000e-004**	**4.6000e-004**		**4.6000e-004**	**4.6000e-004**		**0.2784**	**0.2784**	**7.3000e-004**		**0.2968**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Fire Pump	1	1	50	300	0.73	Diesel

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

10.1 Stationary Sources

Unmitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	lb/day										lb/day					
Fire Pump - Diesel (300 - 600 HP)	0.4923	1.3760	1.2553	2.3700e-003		0.0724	0.0724		0.0724	0.0724		251.8542	251.8542	0.0353		252.7370
Total	**0.4923**	**1.3760**	**1.2553**	**2.3700e-003**		**0.0724**	**0.0724**		**0.0724**	**0.0724**		**251.8542**	**251.8542**	**0.0353**		**252.7370**

11.0 Vegetation

2022 Operation Mobile Source Assumptions Summary

Project Vehicle	EMFAC Class	Average Daily Trip Length (miles)	Max Daily Trips (trips/day)	Max Daily VMT (VMT/day)	Annual Trips (trips/year)	Annual VMT (VMT/year)
Trucks	HHDT and MHDT	0.7	381	266	138,918	97,243
Employees	LDA, LDT1, LDT2, and MCY Compo	0.7	801	561	292,505	204,754

Notes:

Project Vehicle	EMFAC Class	Average Daily Trip Length (miles)	Max Daily Trips (trips/day)	Max Daily VMT (VMT/day)	Annual Trips (trips/year)	Annual VMT (VMT/year)
Trucks	HHDT and MHDT	0.7	381	266	138,918	97,243
Employees	LDA, LDT1, LDT2, and MCY Compo	0.7	801	561	292,505	204,754

Project Vehicle	EMFAC Class	Max Daily Trips (trips/day)	Annual Trips (trips/year)
Trucks	HHDT and MHDT	381	138,918
Employees	LDA, LDT1, LDT2, and MCY Compo	801	292,505

Project Vehicle	EMFAC Class	Idling Minutes per Day (min/day)	Idling Minutes per Year (min/year)
Trucks	HHDT and MHDT	2,854	1,041,888

2022 Operation Mobile Source Emissions Summary - Summer Daily Emissions

Emissions - Daily (Pounds/Day)

	ROG	NOx	CO	SOx	PM10	PM2.5	CO2	CH4	N2O	CO2e
	Running Exhaust, Tire Wear, and Break Wear									
Trucks	0.04	1.61	0.18	0.01	0.02	0.02	629.90	0.00	0.12	666.34
Employees	0.03	0.07	1.19	0.00	0.00	0.00	374.68	0.01	0.01	376.86
Subtotal	*0.07*	*1.68*	*1.37*	*0.01*	*0.02*	*0.02*	*1,004.58*	*0.01*	*0.13*	*1,043.20*

	PM10	PM2.5
	Paved Road - PM only	
Trucks	0.99	0.24
Employees	0.37	0.09
Subtotal	*1.36*	*0.33*

	ROG	NOx	CO	SOx	PM10	PM2.5	CO2	CH4	N2O	CO2e
	Starting Exhaust, Hot Soak, Running Loss Evaporative, Resting Loss Evap, Diurnal Loss Evap									
Trucks	0.00	1.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Employees	0.43	0.38	3.61	0.00	0.00	0.00	102.80	0.10	0.05	119.27
Subtotal	*0.43*	*2.06*	*3.61*	*0.00*	*0.00*	*0.00*	*102.80*	*0.10*	*0.05*	*119.27*

	ROG	NOx	CO	SOx	PM10	PM2.5	CO2	CH4	N2O	CO2e
	Idling									
Trucks	0.45	11.10	7.06	0.02	0.02	0.02	#VALUE!	0.02	0.27	#VALUE!
Subtotal	*0.45*	*11.10*	*7.06*	*0.02*	*0.02*	*0.02*	*#VALUE!*	*0.02*	*0.27*	*#VALUE!*
TOTAL	**0.96**	**14.83**	**12.03**	**0.03**	**1.40**	**0.37**	**#VALUE!**	**0.12**	**0.45**	**#VALUE!**

2022 Operation Mobile Source Assumptions Summary

Project Vehicle	EMFAC Class	Average Daily Trip Length (miles)	Max Daily Trips (trips/day)	Max Daily VMT (VMT/day)	Annual Trips (trips/year)	Annual VMT (VMT/year)
Trucks	HHDT and MHDT	0.7	381	266	138,918	97,243
Employees	LDA, LDT1, LDT2, and MCY Compo	0.7	801	561	292,505	204,754

Notes:

Project Vehicle	EMFAC Class	Average Daily Trip Length (miles)	Max Daily Trips (trips/day)	Max Daily VMT (VMT/day)	Annual Trips (trips/year)	Annual VMT (VMT/year)
Trucks	HHDT and MHDT	0.7	381	266	138,918	97,243
Employees	LDA, LDT1, LDT2, and MCY Compo	0.7	801	561	292,505	204,754

Project Vehicle	EMFAC Class	Max Daily Trips (trips/day)	Annual Trips (trips/year)
Trucks	HHDT and MHDT	381	138,918
Employees	LDA, LDT1, LDT2, and MCY Compo	801	292,505

Project Vehicle	EMFAC Class	Idling Minutes per Day (min/day)	Idling Minutes per Year (min/year)
Trucks	HHDT and MHDT	2,854	1,041,888

Land Use	ITE Code	Size/Unit		Daily
Trip Rate				
Warehousing	150	TSF		1.74
Trip Generation				
Building A	150	231.3	TSF	402
Building B	150	281.7	TSF	490
Building C	150	166.3	TSF	289
	Total	**679.3**	**TSF**	**1,182**
			Total Auto Trips	801
			Total Truck Trips	**381**

ITE 2016, Table 4
Daily Cars (68%

2022 Operation Mobile Source Emissions Factors - EMFAC2017 Summer

Emission Factors: Summary

Project Vehicle	Vehicle Classes	Fuel	Speed	ROG	NOx	CO	SOx	PM10	PM2.5	CO2	CH4	N2O
				Running Exhaust, Tire Wear, and Break Wear (grams/mile)								
Trucks	HHDT and MHDT	Diesel	Aggregate	0.072	2.739	0.306	0.012	0.036	0.035	1,072.440	0.003	0.208
Employees	LDA, LDT1, LDT2, and MCY Composite	Gas, Electric, & Diesel (Aggregate)	Aggregate	0.026	0.054	0.961	0.003	0.001	0.001	302.963	0.005	0.005

Project Vehicle	Vehicle Classes	PM10	PM2.5
		Paved Road - PM Only (grams/mile)	
Trucks	HHDT and MHDT	1.680	0.412
Employees	LDA, LDT1, LDT2, and MCY Composite	0.300	0.074

Project Vehicle	Vehicle Classes	Fuel	ROG	NOx	CO	SOx	PM10	PM2.5	CO2	CH4	N2O
			Starting Exhaust, Hot Soak, Running Loss Evaporative, Resting Loss Evap, Diurnal Loss Evap (grams/trip)								
Trucks	HHDT and MHDT	Diesel	0.000	2.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Employees	LDA, LDT1, LDT2, and MCY Composite	Gas, Electric, & Diesel (Aggregate)	0.245	0.214	2.041	0.001	0.002	0.002	58.187	0.054	0.027

Project Vehicle	Vehicle Classes	Fuel	ROG	NOx	CO	SOx	PM10	PM2.5	CO2	CH4	N2O
			Idling (grams/Idle-min/vehicle)								
Trucks	HHDT and MHDT	Diesel	0.072	1.764	1.122	0.003	0.003	0.003	#VALUE!	0.003	0.043
Employees	LDA, LDT1, LDT2, and MCY Composite	Gas, Electric, & Diesel (Aggregate)	0	0	0	0	0	0	0	0	0

Table 5. Operation Mobile Source Emissions Factors - EMFAC2017 Summer ROG

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	ROG_RUNEX (g/mile)	ROG_IDLEX (g/vehicle/day)	ROG_STREX (g/trip)	ROG_HOTSOAK (g/trip)	ROG_RUNLOSS (g/trip)	ROG_RESTLOSS (g/vehicle/day)	ROG_DIURN (g/vehicle/day)	ROG_RESTLOSS - Calculated (g/trip)	ROG_DIURN - Calculated (g/trip)	STEX HOTSOAK RUNLOSS ROG RESTLOSS DIURN_Combined - Calculated (g/trip)
SAN JOAQUIN	2022	HHDT	DSL	Aggregated	9,637.39	1,305,623.61	110,977.95	0.06047002	6.058249402	0	0	0	0	0			
SAN JOAQUIN	2022	MHDT	DSL	Aggregated	6,836.84	440,086.59	61,946.19	0.105084145	0.098232984	0	0	0	0	0			
							HHDT and MHDT Composite	**0.0717**	**4.5558**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	-	-	**0.0000**
SAN JOAQUIN	2022	LDA	GAS	Aggregated	295,571.82	11,565,576.62	1,385,544.92	0.010046085	0	0.20966729	0.130639188	0.224968521	0.452154897	0.681613918			
SAN JOAQUIN	2022	LDA	DSL	Aggregated	2,451.05	102,467.91	11,659.84	0.011467623	0	0	0	0	0	0			
SAN JOAQUIN	2022	LDA	ELEC	Aggregated	4,655.34	185,122.07	23,308.45	0	0	0	0.004888026	0	0.026732833	0.066974447			
SAN JOAQUIN	2022	LDT1	GAS	Aggregated	29,833.74	1,046,839.73	134,977.44	0.028738267	0	0.367792629	0.311736602	0.839052299	1.090202944	1.841292955			
SAN JOAQUIN	2022	LDT1	DSL	Aggregated	22.77	402.06	78.48	0.150118448	0	0	0	0	0	0			
SAN JOAQUIN	2022	LDT1	ELEC	Aggregated	151.96	6,347.31	772.01	0	0	0	0.004888026	0	0.026732833	0.066974447			
SAN JOAQUIN	2022	LDT2	GAS	Aggregated	95,496.44	3,493,823.66	441,577.96	0.017661054	0	0.306790206	0.179011374	0.48886797	0.729606278	1.056893391			
SAN JOAQUIN	2022	LDT2	DSL	Aggregated	501.61	22,189.46	2,461.12	0.012486965	0	0	0	0	0	0			
SAN JOAQUIN	2022	LDT2	ELEC	Aggregated	774.55	24,427.93	3,914.96	0	0	0	0.004888026	0	0.026732833	0.066974447			
SAN JOAQUIN	2022	MCY	GAS	Aggregated	13,794.06	100,041.02	27,588.12	2.192289817	0	1.644790296	1.282553469	2.058275105	3.503459443	6.860979519			
							LDA, LDT1, LDT2, and MCY Composite	**0.0259**	**0.0000**	**0.2445**	**0.1566**	**0.3260**	**0.5606**	**0.8584**	**0.139929**	**0.222622**	**1.0897**

EMFAC2017 (v1.0.2) Emission Rates
Region Type: County
Region: SAN JOAQUIN
Calendar Year: 2022
Season: Summer
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for VMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HTSK and RUNLS, g/vehicle/day for IDLEX, RESTL and DIURN. Note 'day' in the unit is operation day.
Model Year: Aggregated

Notes:

Idle Duration:

HHDT	109.4	min/day
MHDT	5.86	min/day
LHDT1	1.74	min/day
LHDT2	1.87	min/day
OBUS	5.9	min/day

Table 7. Operation Mobile Source Emissions Factors - EMFAC2017 Summer NOx

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	NOx_RUNEX (g/mile)	NOx_IDLEX (g/vehicle/day)	NOx_STREX (g/trip)
SAN JOAQUIN	2022	HHDT	DSL	Aggregated	9,637.39	1,305,623.61	110,977.95	2.892410499	71.54012968	2.099725175
SAN JOAQUIN	2022	MHDT	DSL	Aggregated	6,836.84	440,086.59	61,946.19	2.281929107	6.504830494	1.702276636
							HHDT and MHDT Composite	**2.7385**	**55.1450**	**1.9995**
SAN JOAQUIN	2022	LDA	GAS	Aggregated	295,571.82	11,565,576.62	1,385,544.92	0.035580866	0	0.185249573
SAN JOAQUIN	2022	LDA	DSL	Aggregated	2,451.05	102,467.91	11,659.84	0.075316556	0	0
SAN JOAQUIN	2022	LDA	ELEC	Aggregated	4,655.34	185,122.07	23,308.45	0	0	0
SAN JOAQUIN	2022	LDT1	GAS	Aggregated	29,833.74	1,046,839.73	134,977.44	0.100234665	0	0.278883819
SAN JOAQUIN	2022	LDT1	DSL	Aggregated	22.77	402.06	78.48	0.970661702	0	0
SAN JOAQUIN	2022	LDT1	ELEC	Aggregated	151.96	6,347.31	772.01	0	0	0
SAN JOAQUIN	2022	LDT2	GAS	Aggregated	95,496.44	3,493,823.66	441,577.96	0.076921881	0	0.301541326
SAN JOAQUIN	2022	LDT2	DSL	Aggregated	501.61	22,189.46	2,461.12	0.037889672	0	0
SAN JOAQUIN	2022	LDT2	ELEC	Aggregated	774.55	24,427.93	3,914.96	0	0	0
SAN JOAQUIN	2022	MCY	GAS	Aggregated	13,794.06	100,041.02	27,588.12	1.022084979	0	0.247497174
							LDA, LDT1, LDT2, and MCY Composite	**0.0542**	**0.0000**	**0.2137**

Table 8. Operation Mobile Source Emissions Factors - EMFAC2017 Summer CO

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	CO_RUNEX (g/mile)	CO_IDLEX (g/vehicle/day)	CO_STREX (g/trip)
SAN JOAQUIN	2022	HHDT	DSL	Aggregated	9,637.39	1,305,623.61	110,977.95	0.294338857	78.7012278	0
SAN JOAQUIN	2022	MHDT	DSL	Aggregated	6,836.84	440,086.59	61,946.19	0.340175807	2.356743575	0
							HHDT and MHDT Composite	**0.3059**	**59.4551**	**0.0000**
SAN JOAQUIN	2022	LDA	GAS	Aggregated	295,571.82	11,565,576.62	1,385,544.92	0.741336809	0	1.871808471
SAN JOAQUIN	2022	LDA	DSL	Aggregated	2,451.05	102,467.91	11,659.84	0.170620151	0	0
SAN JOAQUIN	2022	LDA	ELEC	Aggregated	4,655.34	185,122.07	23,308.45	0	0	0
SAN JOAQUIN	2022	LDT1	GAS	Aggregated	29,833.74	1,046,839.73	134,977.44	1.431900866	0	2.071286386
SAN JOAQUIN	2022	LDT1	DSL	Aggregated	22.77	402.06	78.48	1.043667679	0	0
SAN JOAQUIN	2022	LDT1	ELEC	Aggregated	151.96	6,347.31	772.01	0	0	0
SAN JOAQUIN	2022	LDT2	GAS	Aggregated	95,496.44	3,493,823.66	441,577.96	1.049773087	0	2.390020773
SAN JOAQUIN	2022	LDT2	DSL	Aggregated	501.61	22,189.46	2,461.12	0.101760831	0	0
SAN JOAQUIN	2022	LDT2	ELEC	Aggregated	774.55	24,427.93	3,914.96	0	0	0
SAN JOAQUIN	2022	MCY	GAS	Aggregated	13,794.06	100,041.02	27,588.12	21.45662802	0	7.939431879
							LDA, LDT1, LDT2, and MCY Composite	**0.9613**	**0.0000**	**2.0412**

Table 9. Operation Mobile Source Emissions Factors - EMFAC2017 Summer SO2

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	SO2_RUNEX (g/mile)	SO2_IDLEX (g/vehicle/day)	SO2_STREX (g/trip)
SAN JOAQUIN	2022	HHDT	DSL	Aggregated	9,637.39	1,305,623.61	110,977.95	0.01329397	0.13504678	0
SAN JOAQUIN	2022	MHDT	DSL	Aggregated	6,836.84	440,086.59	61,946.19	0.010131886	0.008058876	0
							HHDT and MHDT Composite	**0.0125**	**0.1030**	**0.0000**
SAN JOAQUIN	2022	LDA	GAS	Aggregated	295,571.82	11,565,576.62	1,385,544.92	0.002875838	0	0.000544393
SAN JOAQUIN	2022	LDA	DSL	Aggregated	2,451.05	102,467.91	11,659.84	0.001908836	0	0
SAN JOAQUIN	2022	LDA	ELEC	Aggregated	4,655.34	185,122.07	23,308.45	0	0	0
SAN JOAQUIN	2022	LDT1	GAS	Aggregated	29,833.74	1,046,839.73	134,977.44	0.003310408	0	0.000647418
SAN JOAQUIN	2022	LDT1	DSL	Aggregated	22.77	402.06	78.48	0.004062033	0	0
SAN JOAQUIN	2022	LDT1	ELEC	Aggregated	151.96	6,347.31	772.01	0	0	0
SAN JOAQUIN	2022	LDT2	GAS	Aggregated	95,496.44	3,493,823.66	441,577.96	0.003550875	0	0.000706425
SAN JOAQUIN	2022	LDT2	DSL	Aggregated	501.61	22,189.46	2,461.12	0.00257452	0	0
SAN JOAQUIN	2022	LDT2	ELEC	Aggregated	774.55	24,427.93	3,914.96	0	0	0
SAN JOAQUIN	2022	MCY	GAS	Aggregated	13,794.06	100,041.02	27,588.12	0.002110767	0	0.000593043
							LDA, LDT1, LDT2, and MCY Composite	**0.0030**	**0.0000**	**0.0006**

Table 10. Operation Mobile Source Emissions Factors - EMFAC2017 Summer PM10

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	PM10_RUNEX (g/mile)	PM10_IDLEX (g/vehicle/day)	PM10_STREX (g/trip)	PM10_PMTW (g/mile)	PM10_PMBW (g/mile)	PM10_Combined - Calculated (g/mile)
SAN JOAQUIN	2022	HHDT	DSL	Aggregated	9,637.39	1,305,623.61	110,977.95	0.034652141	0.034470737	0	0.035673994	0.061180899	
SAN JOAQUIN	2022	MHDT	DSL	Aggregated	6,836.84	440,086.59	61,946.19	0.041401418	0.013527542	0	0.012000003	0.130340037	
							HHDT and MHDT Composite	**0.0364**	**0.0292**	**0.0000**	**0.0297**	**0.0786**	**0.144676**
SAN JOAQUIN	2022	LDA	GAS	Aggregated	295,571.82	11,565,576.62	1,385,544.92	0.001364416	0	0.001948791	0.008000002	0.036750011	
SAN JOAQUIN	2022	LDA	DSL	Aggregated	2,451.05	102,467.91	11,659.84	0.006256576	0	0	0.008000002	0.036750011	
SAN JOAQUIN	2022	LDA	ELEC	Aggregated	4,655.34	185,122.07	23,308.45	0	0	0	0.008000002	0.036750011	
SAN JOAQUIN	2022	LDT1	GAS	Aggregated	29,833.74	1,046,839.73	134,977.44	0.001925566	0	0.002818125	0.008000002	0.036750011	
SAN JOAQUIN	2022	LDT1	DSL	Aggregated	22.77	402.06	78.48	0.118399306	0	0	0.008000002	0.036750011	
SAN JOAQUIN	2022	LDT1	ELEC	Aggregated	151.96	6,347.31	772.01	0	0	0	0.008000002	0.036750011	
SAN JOAQUIN	2022	LDT2	GAS	Aggregated	95,496.44	3,493,823.66	441,577.96	0.001415821	0	0.001966692	0.008000002	0.036750011	
SAN JOAQUIN	2022	LDT2	DSL	Aggregated	501.61	22,189.46	2,461.12	0.005297037	0	0	0.008000002	0.036750011	
SAN JOAQUIN	2022	LDT2	ELEC	Aggregated	774.55	24,427.93	3,914.96	0	0	0	0.008000002	0.036750011	
SAN JOAQUIN	2022	MCY	GAS	Aggregated	13,794.06	100,041.02	27,588.12	0.001845735	0	0.003082417	0.004000001	0.011760003	
							LDA, LDT1, LDT2, and MCY Composite	**0.0014**	**0.0000**	**0.0020**	**0.0080**	**0.0366**	**0.046009**

Table 11. Operation Mobile Source Emissions Factors - EMFAC2017 Summer PM2.5

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	PM2.5_RUNEX (g/mile)	PM2.5_IDLEX (g/vehicle/day)	PM2.5_STREX (g/trip)	PM2.5_PMTW (g/mile)	PM2.5_PMBW (g/mile)	PM2.5_Combined - Calculated (g/mile)
SAN JOAQUIN	2022	HHDT	DSL	Aggregated	9,637.39	1,305,623.61	110,977.95	0.033153105	0.032979548	0	0.008918498	0.026220385	
SAN JOAQUIN	2022	MHDT	DSL	Aggregated	6,836.84	440,086.59	61,946.19	0.039610411	0.012942347	0	0.003000001	0.055860016	
							HHDT and MHDT Composite	**0.0348**	**0.0279**	**0.0000**	**0.0074**	**0.0337**	**0.075899**
SAN JOAQUIN	2022	LDA	GAS	Aggregated	295,571.82	11,565,576.62	1,385,544.92	0.00125454	0	0.0017919	0.002000001	0.015750005	
SAN JOAQUIN	2022	LDA	DSL	Aggregated	2,451.05	102,467.91	11,659.84	0.005985919	0	0	0.002000001	0.015750005	
SAN JOAQUIN	2022	LDA	ELEC	Aggregated	4,655.34	185,122.07	23,308.45	0	0	0	0.002000001	0.015750005	
SAN JOAQUIN	2022	LDT1	GAS	Aggregated	29,833.74	1,046,839.73	134,977.44	0.001770563	0	0.002591352	0.002000001	0.015750005	
SAN JOAQUIN	2022	LDT1	DSL	Aggregated	22.77	402.06	78.48	0.113277404	0	0	0.002000001	0.015750005	
SAN JOAQUIN	2022	LDT1	ELEC	Aggregated	151.96	6,347.31	772.01	0	0	0	0.002000001	0.015750005	
SAN JOAQUIN	2022	LDT2	GAS	Aggregated	95,496.44	3,493,823.66	441,577.96	0.001301833	0	0.001808396	0.002000001	0.015750005	
SAN JOAQUIN	2022	LDT2	DSL	Aggregated	501.61	22,189.46	2,461.12	0.00506789	0	0	0.002000001	0.015750005	
SAN JOAQUIN	2022	LDT2	ELEC	Aggregated	774.55	24,427.93	3,914.96	0	0	0	0.002000001	0.015750005	
SAN JOAQUIN	2022	MCY	GAS	Aggregated	13,794.06	100,041.02	27,588.12	0.001728929	0	0.002907987	0.001	0.005040001	
							LDA, LDT1, LDT2, and MCY Composite	**0.0013**	**0.0000**	**0.0018**	**0.0020**	**0.0157**	**0.019000**

Table 12. Operation Mobile Source Emissions Factors - EMFAC2017 Summer CO2

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	CO2_RUNEX (g/mile)	CO2_IDLEX (g/vehicle/day)	CO2_STREX (g/trip)
SAN JOAQUIN	2022	HHDT	DSL	Aggregated	9,637.39	1,305,623.61	110,977.95	CO2_RUNEX	CO2_IDLEX	CO2_STREX
SAN JOAQUIN	2022	MHDT	DSL	Aggregated	6,836.84	440,086.59	61,946.19	1407.141001	14294.43991	0
							HHDT and MHDT Composite	**1072.4405**	**853.0164**	**0.0000**
SAN JOAQUIN	2022	LDA	GAS	Aggregated	295,571.82	11,565,576.62	1,385,544.92	290.6117053	0	55.01251262
SAN JOAQUIN	2022	LDA	DSL	Aggregated	2,451.05	102,467.91	11,659.84	201.9163929	0	0
SAN JOAQUIN	2022	LDA	ELEC	Aggregated	4,655.34	185,122.07	23,308.45	0	0	0
SAN JOAQUIN	2022	LDT1	GAS	Aggregated	29,833.74	1,046,839.73	134,977.44	334.526221	0	65.42345094
SAN JOAQUIN	2022	LDT1	DSL	Aggregated	22.77	402.06	78.48	429.6812221	0	0
SAN JOAQUIN	2022	LDT1	ELEC	Aggregated	151.96	6,347.31	772.01	0	0	0
SAN JOAQUIN	2022	LDT2	GAS	Aggregated	95,496.44	3,493,823.66	441,577.96	358.8260807	0	71.3862847
SAN JOAQUIN	2022	LDT2	DSL	Aggregated	501.61	22,189.46	2,461.12	272.3323645	0	0
SAN JOAQUIN	2022	LDT2	ELEC	Aggregated	774.55	24,427.93	3,914.96	0	0	0
SAN JOAQUIN	2022	MCY	GAS	Aggregated	13,794.06	100,041.02	27,588.12	213.2990427	0	59.92870251
							LDA, LDT1, LDT2, and MCY Composite	**302.9634**	**0.0000**	**58.1869**

EMFAC2017 (v1.0.2) Emission Rates
Region Type: County
Region: SAN JOAQUIN
Calendar Year: 2022
Season: Summer
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for VMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HTSK and RUNLS, g/vehicle/day for IDLEX, RESTL and DIURN. Note 'day' in the
Model Year: Aggregated

Notes:

Idle Duration:

HHDT	109.4	min/day
MHDT	5.86	min/day
LHDT1	1.74	min/day
LHDT2	1.87	min/day

Table 14. Operation Mobile Source Emissions Factors - EMFAC2017 Summer N2O

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	N2O_RUNEX (g/mile)	N2O_IDLEX (g/vehicle/day)	N2O_STREX (g/trip)
SAN JOAQUIN	2022	HHDT	DSL	Aggregated	9,637.39	1,305,623.61	110,977.95	0.22118297	2.246886892	0
SAN JOAQUIN	2022	MHDT	DSL	Aggregated	6,836.84	440,086.59	61,946.19	0.168572706	0.134082298	0
							HHDT and MHDT Composite	**0.2079**	**1.7143**	**0.0000**
SAN JOAQUIN	2022	LDA	GAS	Aggregated	295,571.82	11,565,576.62	1,385,544.92	0.004259211	0	0.02554843
SAN JOAQUIN	2022	LDA	DSL	Aggregated	2,451.05	102,467.91	11,659.84	0.031738445	0	0
SAN JOAQUIN	2022	LDA	ELEC	Aggregated	4,655.34	185,122.07	23,308.45	0	0	0
SAN JOAQUIN	2022	LDT1	GAS	Aggregated	29,833.74	1,046,839.73	134,977.44	0.007918594	0	0.029591378
SAN JOAQUIN	2022	LDT1	DSL	Aggregated	22.77	402.06	78.48	0.067539904	0	0
SAN JOAQUIN	2022	LDT1	ELEC	Aggregated	151.96	6,347.31	772.01	0	0	0
SAN JOAQUIN	2022	LDT2	GAS	Aggregated	95,496.44	3,493,823.66	441,577.96	0.006487241	0	0.032943538
SAN JOAQUIN	2022	LDT2	DSL	Aggregated	501.61	22,189.46	2,461.12	0.042806855	0	0
SAN JOAQUIN	2022	LDT2	ELEC	Aggregated	774.55	24,427.93	3,914.96	0	0	0
SAN JOAQUIN	2022	MCY	GAS	Aggregated	13,794.06	100,041.02	27,588.12	0.060935962	0	0.014526686
							LDA, LDT1, LDT2, and MCY Composite	**0.0055**	**0.0000**	**0.0267**

EMFAC2017 (v1.0.2) Emission Rates
Region Type: County
Region: SAN JOAQUIN
Calendar Year: 2022
Season: Summer
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for VMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HTSK and RUNLS, g/vehicle/day for IDLEX, RESTL and DIURN. Note 'day' in the
Model Year: Aggregated

Notes:

Idle Duration:

HHDT	109.4	min/day
MHDT	5.86	min/day
LHDT1	1.74	min/day
LHDT2	1.87	min/day
OBUS	5.9	min/day

Table 13. Operation Mobile Source Emissions Factors - EMFAC2017 Summer CH4

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	CH4_RUNEX (g/mile)	CH4_IDLEX (g/vehicle/day)	CH4_STREX (g/trip)
SAN JOAQUIN	2022	HHDT	DSL	Aggregated	9,637.39	1,305,623.61	110,977.95	0.002808676	0.281389994	0
SAN JOAQUIN	2022	MHDT	DSL	Aggregated	6,836.84	440,086.59	61,946.19	0.004880886	0.004562668	0
							HHDT and MHDT Composite	**0.0033**	**0.2116**	**0.0000**
SAN JOAQUIN	2022	LDA	GAS	Aggregated	295,571.82	11,565,576.62	1,385,544.92	0.002676991	0	0.047047396
SAN JOAQUIN	2022	LDA	DSL	Aggregated	2,451.05	102,467.91	11,659.84	0.000532649	0	0
SAN JOAQUIN	2022	LDA	ELEC	Aggregated	4,655.34	185,122.07	23,308.45	0	0	0
SAN JOAQUIN	2022	LDT1	GAS	Aggregated	29,833.74	1,046,839.73	134,977.44	0.006600168	0	0.072092792
SAN JOAQUIN	2022	LDT1	DSL	Aggregated	22.77	402.06	78.48	0.006972715	0	0
SAN JOAQUIN	2022	LDT1	ELEC	Aggregated	151.96	6,347.31	772.01	0	0	0
SAN JOAQUIN	2022	LDT2	GAS	Aggregated	95,496.44	3,493,823.66	441,577.96	0.00437912	0	0.065253703
SAN JOAQUIN	2022	LDT2	DSL	Aggregated	501.61	22,189.46	2,461.12	0.000579996	0	0
SAN JOAQUIN	2022	LDT2	ELEC	Aggregated	774.55	24,427.93	3,914.96	0	0	0
SAN JOAQUIN	2022	MCY	GAS	Aggregated	13,794.06	100,041.02	27,588.12	0.322690651	0	0.217662029
							LDA, LDT1, LDT2, and MCY Composite	**0.0052**	**0.0000**	**0.0540**

EMFAC2017 (v1.0.2) Emission Rates
Region Type: County
Region: SAN JOAQUIN
Calendar Year: 2022
Season: Summer
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for VMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HTSK and RUNLS, g/vehicle/day for IDLEX, RESTL and DIURN. Note 'day' in the
Model Year: Aggregated

Notes:

Idle Duration:

HHDT	109.4	min/day
MHDT	5.86	min/day
LHDT1	1.74	min/day
LHDT2	1.87	min/day

Table 14. Paved Road Fugitive Emissions - Operation Mobile Sources

Equation:

$E = k \times (sL/2)^{0.91} \times (W)1.02$ [maximum day]

Where:			**Units**
k	particle size multiplier (PM_{10})	0.00220	lb/VMT
k	particle size multiplier ($PM_{2.5}$)	0.00054	lb/VMT
sL	silt loading (2)	0.1	g/m^2
W	average weight (tons) of the vehicle traveling the road	2.4	tons

Notes/References:
k = Emission factors from CalEEMod2016.3.1 per AP-42, Section 13.2.1 (Paved Roads).
sL = Silt loading from CalEEMod2016.3.2
For daily emissions it is assumed to have no precipitation.

Truck Weight Assumptions

EMFAC Definition	EMFAC Category	GVWR (pounds)	GVWR (tons)	
Heavy Heavy-Duty Truck	HHDT	>33,000	17	*Assumed 33,000 pounds*
Medium Heavy-Duty Truck	MHDT	14,001-33,000	8	*Assumed average of 14,001 & 33,000 pounds*
Composite Heavy & Medium Heavy-Duty Truck	HHDT & MHDT	14,001-33,000+	13	*Assumed average of HHDT & MHDT pounds*

Source: EMFAC 2014
GVWR = Gross Vehicle Weight Rating
1 pound = 0.0005 US tons

Employee Vehicles Evaluated:

Employee Type	Average Weight (tons)
Passenger Vehicles	2.4

Reference:
Source: CalEEMod2016.3.2 (average vehicle weight = 2.4 tons)
Per AP-42, Section 13.2.1 (Paved Roads): The above equation calls for the average weight of all vehicles traveling the road. For example, if 99 percent of traffic on the road are 2 ton cars/trucks while the remaining 1 percent consists of 20 ton trucks, then the mean weight "W" is 2.2 tons. More specifically, the above equation is not intended to be used to calculate a separate emission factor for each vehicle weight class. Instead, only one emission factor should be calculated to represent the "fleet" average weight of all vehicles traveling the road.

Emission Factors	**PM10 Paved Road (lb/VMT)**	**PM2.5 Paved Road (lb/VMT)**	**PM10 Paved Road (g/VMT)**	**PM2.5 Paved Road (g/VMT)**
HHDT	0.0049	0.0012	2.2087	0.5421
MHDT	0.0023	0.0006	1.0239	0.2513
HHDT & MHDT	0.0037	0.0009	1.6800	0.4124
Passenger Vehicles	0.0007	0.0002	0.2998	0.0736
Average	0.0022	0.0005	0.9899	0.2430

2022 Operation Mobile Source Assumptions Summary

Project Vehicle	EMFAC Class	Average Daily Trip Length (miles)	Max Daily Trips (trips/day)	Max Daily VMT (VMT/day)	Annual Trips (trips/year)	Annual VMT (VMT/year)
Trucks	HHDT and MHDT	0.7	381	266	138,918	97,243
Employees	LDA, LDT1, LDT2, and MCY Composite	0.7	801	561	292,505	204,754

Notes:

2022 Operation Mobile Source Emissions Summary - Winter Daily Emissions

Emissions - Daily (Pounds/Day)

	ROG	NOx	CO	SOx	PM10	PM2.5	CO2	CH4	N2O	CO2e
	Running Exhaust, Tire Wear, and Break Wear									
	0.04	1.72	0.18	0.01	0.02	0.02	776.93	0.00	0.12	813.37
	0.03	0.08	0.97	0.00	0.00	0.00	336.62	0.01	0.01	339.06
Subtotal	*0.07*	*1.80*	*1.15*	*0.01*	*0.02*	*0.02*	*1,113.55*	*0.01*	*0.13*	*1,152.43*

Project Vehicle	EMFAC Class	Average Daily Trip Length (miles)	Max Daily Trips (trips/day)	Max Daily VMT (VMT/day)	Annual Trips (trips/year)	Annual VMT (VMT/year)
Trucks	HHDT and MHDT	0.7	381	266	138,918	97,243
Employees	LDA, LDT1, LDT2, and MCY Composite	0.7	801	561	292,505	204,754

	PM10	PM2.5
	Paved Road - PM only	
	0.99	0.24
	0.37	0.09
Subtotal	*1.36*	*0.33*

Project Vehicle	EMFAC Class	Max Daily Trips (trips/day)	Annual Trips (trips/year)
Trucks	HHDT and MHDT	381	138,918
Employees	LDA, LDT1, LDT2, and MCY Composite	801	292,505

	ROG	NOx	CO	SOx	PM10	PM2.5	CO2	CH4	N2O	CO2e
	Starting Exhaust, Hot Soak, Running Loss Evaporative, Resting Loss Evap, Diurnal Loss Evap									
	0.00	1.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.61	0.46	5.36	0.00	0.00	0.00	106.21	0.13	0.05	125.53
Subtotal	*0.61*	*2.13*	*5.36*	*0.00*	*0.00*	*0.00*	*106.21*	*0.13*	*0.05*	*125.53*

Project Vehicle	EMFAC Class	Idling Minutes per Day (min/day)	Idling Minutes per Year (min/year)
Trucks	HHDT and MHDT	2,854	1,041,888

	ROG	NOx	CO	SOx	PM10	PM2.5	CO2	CH4	N2O	CO2e
	Idling									
	0.41	11.50	7.65	0.02	0.02	0.02	1737.56	0.02	0.27	1,819.43
Subtotal	*0.41*	*11.50*	*7.65*	*0.02*	*0.02*	*0.02*	*1,737.56*	*0.02*	*0.27*	*1,819.43*
TOTAL	**1.09**	**15.44**	**14.17**	**0.03**	**1.41**	**0.38**	**2,957.32**	**0.16**	**0.46**	**3,097.39**

2022 Operation Mobile Source Assumptions Summary

Project Vehicle	EMFAC Class	Average Daily Trip Length (miles)	Max Daily Trips (trips/day)	Max Daily VMT (VMT/day)	Annual Trips (trips/year)	Annual VMT (VMT/year)
Trucks	HHDT and MHDT	0.7	381	266	138,918	97,243
Employees	LDA, LDT1, LDT2, and MCY Composite	0.7	801	561	292,505	204,754

Notes:

Project Vehicle	EMFAC Class	Average Daily Trip Length (miles)	Max Daily Trips (trips/day)	Max Daily VMT (VMT/day)	Annual Trips (trips/year)	Annual VMT (VMT/year)
Trucks	HHDT and MHDT	0.7	381	266	138,918	97,243
Employees	LDA, LDT1, LDT2, and MCY Composite	0.7	801	561	292,505	204,754

Project Vehicle	EMFAC Class	Max Daily Trips (trips/day)	Annual Trips (trips/year)
Trucks	HHDT and MHDT	381	138,918
Employees	LDA, LDT1, LDT2, and MCY Composite	801	292,505

Project Vehicle	EMFAC Class	Idling Minutes per Day (min/day)	Idling Minutes per Year (min/year)
Trucks	HHDT and MHDT	2,854	1,041,888

Land Use	ITE Code	Size/Unit		Daily
Trip Rate				
Warehousing	150	TSF		1.74
Trip Generation				
Building A	150	231.3	TSF	402
Building B	150	281.7	TSF	490
Building C	150	166.3	TSF	289
	Total	**679.3**	**TSF**	**1,182**
			Total Auto Trips	801
			Total Truck Trips	**381**

ITE 2016, Table 4
Daily Cars (68%

2022 Operation Mobile Source Emissions Factors - EMFAC2017 Winter

Emission Factors: Summary

Project Vehicle	Vehicle Classes	Fuel	Speed	ROG	NOx	CO	SOx	PM10	PM2.5	CO2	CH4	N2O
				Running Exhaust, Tire Wear, and Break Wear (grams/mile)								
Trucks	HHDT and MHDT	Diesel	Aggregate	0.072	2.924	0.306	0.012	0.036	0.035	1,322.764	0.003	0.208
Employees	LDA, LDT1, LDT2, and MCY Composite	Gas, Electric, & Diesel (Aggregate)	Aggregate	0.025	0.066	0.788	0.003	0.001	0.001	272.190	0.005	0.006

Project Vehicle	Vehicle Classes	PM10	PM2.5
		Paved Road - PM Only (grams/mile)	
Trucks	HHDT and MHDT	1.680	0.412
Employees	LDA, LDT1, LDT2, and MCY Composite	0.300	0.074

Project Vehicle	Vehicle Classes	Fuel	ROG	NOx	CO	SOx	PM10	PM2.5	CO2	CH4	N2O
			Starting Exhaust, Hot Soak, Running Loss Evaporative, Resting Loss Evap, Diurnal Loss Evap (grams/trip)								
Trucks	HHDT and MHDT	Diesel	0.000	2.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Employees	LDA, LDT1, LDT2, and MCY Composite	Gas, Electric, & Diesel (Aggregate)	0.344	0.258	3.036	0.001	0.002	0.002	60.114	0.074	0.031

Project Vehicle	Vehicle Classes	Fuel	ROG	NOx	CO	SOx	PM10	PM2.5	CO2	CH4	N2O
			Idling (grams/Idle-min/vehicle)								
Trucks	HHDT and MHDT	Diesel	0.066	1.828	1.216	0.003	0.004	0.004	276.107	0.003	0.043
Employees	LDA, LDT1, LDT2, and MCY Composite	Gas, Electric, & Diesel (Aggregate)	0	0	0	0	0	0	0	0	0

Table 5. Operation Mobile Source Emissions Factors - EMFAC2017 Winter ROG

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	ROG_RUNEX (g/mile)	ROG_IDLEX (g/vehicle/day)	ROG_STREX (g/trip)	ROG_HOTSOAK (g/trip)	ROG_RUNLOSS (g/trip)	ROG_RESTLOSS (g/vehicle/day)	ROG_DIURN (g/vehicle/day)	ROG_RESTLOSS - Calculated (g/trip)	ROG_DIURN - Calculated (g/trip)	STEX HOTSOAK RUNLOSS ROG RESTLOSS DIURN_Combined - Calculated (g/trip)
SAN JOAQUIN	2022	HHDT	DSL	Aggregated	9,637.39	1,305,623.61	110,977.95	0.06047002	5.36799306	0	0	0	0	0			
SAN JOAQUIN	2022	MHDT	DSL	Aggregated	6,836.84	440,086.59	61,946.19	0.105084145	0.097937286	0	0	0	0	0			
							HHDT and MHDT Composite	**0.0717**	**4.0394**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	-	-	**0.0000**
SAN JOAQUIN	2022	LDA	GAS	Aggregated	295,571.82	11,565,576.62	1,385,544.92	0.00840318	0	0.293953882	0.114702356	0.271848271	0.090121854	0.095740943			
SAN JOAQUIN	2022	LDA	DSL	Aggregated	2,451.05	102,467.91	11,659.84	0.011467623	0	0	0	0	0	0			
SAN JOAQUIN	2022	LDA	ELEC	Aggregated	4,655.34	185,122.07	23,308.45	0	0	0	0.004888026	0	0.000546339	0.00267116			
SAN JOAQUIN	2022	LDT1	GAS	Aggregated	29,833.74	1,046,839.73	134,977.44	0.02433029	0	0.521520001	0.264218056	1.068805607	0.210345115	0.245071698			
SAN JOAQUIN	2022	LDT1	DSL	Aggregated	22.77	402.06	78.48	0.150118448	0	0	0	0	0	0			
SAN JOAQUIN	2022	LDT1	ELEC	Aggregated	151.96	6,347.31	772.01	0	0	0	0.004888026	0	0.000546339	0.00267116			
SAN JOAQUIN	2022	LDT2	GAS	Aggregated	95,496.44	3,493,823.66	441,577.96	0.014866713	0	0.431539087	0.156760491	0.614968423	0.149061147	0.152316325			
SAN JOAQUIN	2022	LDT2	DSL	Aggregated	501.61	22,189.46	2,461.12	0.012486965	0	0	0	0	0	0			
SAN JOAQUIN	2022	LDT2	ELEC	Aggregated	774.55	24,427.93	3,914.96	0	0	0	0.004888026	0	0.000546339	0.00267116			
SAN JOAQUIN	2022	MCY	GAS	Aggregated	13,794.06	100,041.02	27,588.12	2.389347469	0	2.360686912	0.946170333	2.515854111	0.424603019	0.698686993			
							LDA, LDT1, LDT2, and MCY Composite	**0.0251**	**0.0000**	**0.3438**	**0.1358**	**0.4027**	**0.1103**	**0.1188**	**0.026088**	**0.029435**	**0.9378**

EMFAC2017 (v1.0.2) Emission Rates
Region Type: County
Region: SAN JOAQUIN
Calendar Year: 2022
Season: Winter
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for VMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HTSK and RUNLS, g/vehicle/day for IDLEX, RESTL and DIURN. Note 'day' in the unit is operation day.
Model Year: Aggregated

Notes:

Idle Duration:

HHDT	109.4	min/day
MHDT	5.86	min/day
LHDT1	1.74	min/day
LHDT2	1.87	min/day
OBUS	5.9	min/day

Table 7. Operation Mobile Source Emissions Factors - EMFAC2017 Winter NOx

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	NOx_RUNEX (g/mile)	NOx_IDLEX (g/vehicle/day)	NOx_STREX (g/trip)
SAN JOAQUIN	2022	HHDT	DSL	Aggregated	9,637.39	1,305,623.61	110,977.95	3.087246313	77.99000737	2.099725175
SAN JOAQUIN	2022	MHDT	DSL	Aggregated	6,836.84	440,086.59	61,946.19	2.439389038	6.53470966	1.702276636
							HHDT and MHDT Composite	**2.9239**	**59.9764**	**1.9995**
SAN JOAQUIN	2022	LDA	GAS	Aggregated	295,571.82	11,565,576.62	1,385,544.92	0.042901299	0	0.223744465
SAN JOAQUIN	2022	LDA	DSL	Aggregated	2,451.05	102,467.91	11,659.84	0.080556363	0	0
SAN JOAQUIN	2022	LDA	ELEC	Aggregated	4,655.34	185,122.07	23,308.45	0	0	0
SAN JOAQUIN	2022	LDT1	GAS	Aggregated	29,833.74	1,046,839.73	134,977.44	0.122343243	0	0.336849897
SAN JOAQUIN	2022	LDT1	DSL	Aggregated	22.77	402.06	78.48	1.038195619	0	0
SAN JOAQUIN	2022	LDT1	ELEC	Aggregated	151.96	6,347.31	772.01	0	0	0
SAN JOAQUIN	2022	LDT2	GAS	Aggregated	95,496.44	3,493,823.66	441,577.96	0.093303532	0	0.364191656
SAN JOAQUIN	2022	LDT2	DSL	Aggregated	501.61	22,189.46	2,461.12	0.0405254	0	0
SAN JOAQUIN	2022	LDT2	ELEC	Aggregated	774.55	24,427.93	3,914.96	0	0	0
SAN JOAQUIN	2022	MCY	GAS	Aggregated	13,794.06	100,041.02	27,588.12	1.283544733	0	0.289790021
							LDA, LDT1, LDT2, and MCY Composite	**0.0658**	**0.0000**	**0.2580**

Table 8. Operation Mobile Source Emissions Factors - EMFAC2017 Winter CO

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	CO_RUNEX (g/mile)	CO_IDLEX (g/vehicle/day)	CO_STREX (g/trip)
SAN JOAQUIN	2022	HHDT	DSL	Aggregated	9,637.39	1,305,623.61	110,977.95	0.294338857	82.30653783	0
SAN JOAQUIN	2022	MHDT	DSL	Aggregated	6,836.84	440,086.59	61,946.19	0.340175807	2.718505104	0
							HHDT and MHDT Composite	**0.3059**	**62.2427**	**0.0000**
SAN JOAQUIN	2022	LDA	GAS	Aggregated	295,571.82	11,565,576.62	1,385,544.92	0.571946572	0	2.79777033
SAN JOAQUIN	2022	LDA	DSL	Aggregated	2,451.05	102,467.91	11,659.84	0.170620151	0	0
SAN JOAQUIN	2022	LDA	ELEC	Aggregated	4,655.34	185,122.07	23,308.45	0	0	0
SAN JOAQUIN	2022	LDT1	GAS	Aggregated	29,833.74	1,046,839.73	134,977.44	1.130891094	0	3.120010118
SAN JOAQUIN	2022	LDT1	DSL	Aggregated	22.77	402.06	78.48	1.043667679	0	0
SAN JOAQUIN	2022	LDT1	ELEC	Aggregated	151.96	6,347.31	772.01	0	0	0
SAN JOAQUIN	2022	LDT2	GAS	Aggregated	95,496.44	3,493,823.66	441,577.96	0.819416332	0	3.591027885
SAN JOAQUIN	2022	LDT2	DSL	Aggregated	501.61	22,189.46	2,461.12	0.101760831	0	0
SAN JOAQUIN	2022	LDT2	ELEC	Aggregated	774.55	24,427.93	3,914.96	0	0	0
SAN JOAQUIN	2022	MCY	GAS	Aggregated	13,794.06	100,041.02	27,588.12	23.57088835	0	10.35788774
							LDA, LDT1, LDT2, and MCY Composite	**0.7880**	**0.0000**	**3.0361**

Table 9. Operation Mobile Source Emissions Factors - EMFAC2017 Winter SO2

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	SO2_RUNEX (g/mile)	SO2_IDLEX (g/vehicle/day)	SO2_STREX (g/trip)
SAN JOAQUIN	2022	HHDT	DSL	Aggregated	9,637.39	1,305,623.61	110,977.95	0.01329397	0.137114649	0
SAN JOAQUIN	2022	MHDT	DSL	Aggregated	6,836.84	440,086.59	61,946.19	0.010131886	0.007941389	0
							HHDT and MHDT Composite	**0.0125**	**0.1046**	**0.0000**
SAN JOAQUIN	2022	LDA	GAS	Aggregated	295,571.82	11,565,576.62	1,385,544.92	0.00256268	0	0.000561717
SAN JOAQUIN	2022	LDA	DSL	Aggregated	2,451.05	102,467.91	11,659.84	0.001908836	0	0
SAN JOAQUIN	2022	LDA	ELEC	Aggregated	4,655.34	185,122.07	23,308.45	0	0	0
SAN JOAQUIN	2022	LDT1	GAS	Aggregated	29,833.74	1,046,839.73	134,977.44	0.00299369	0	0.000668974
SAN JOAQUIN	2022	LDT1	DSL	Aggregated	22.77	402.06	78.48	0.004062033	0	0
SAN JOAQUIN	2022	LDT1	ELEC	Aggregated	151.96	6,347.31	772.01	0	0	0
SAN JOAQUIN	2022	LDT2	GAS	Aggregated	95,496.44	3,493,823.66	441,577.96	0.003238982	0	0.000729407
SAN JOAQUIN	2022	LDT2	DSL	Aggregated	501.61	22,189.46	2,461.12	0.00257452	0	0
SAN JOAQUIN	2022	LDT2	ELEC	Aggregated	774.55	24,427.93	3,914.96	0	0	0
SAN JOAQUIN	2022	MCY	GAS	Aggregated	13,794.06	100,041.02	27,588.12	0.00215081	0	0.000654506
							LDA, LDT1, LDT2, and MCY Composite	**0.0027**	**0.0000**	**0.0006**

Table 10. Operation Mobile Source Emissions Factors - EMFAC2017 Winter PM10

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	PM10_RUNEX (g/mile)	PM10_IDLEX (g/vehicle/day)	PM10_STREX (g/trip)	PM10_PMTW (g/mile)	PM10_PMBW (g/mile)	PM10_Combined - Calculated (g/mile)
SAN JOAQUIN	2022	HHDT	DSL	Aggregated	9,637.39	1,305,623.61	110,977.95	0.034652141	0.045121991	0	0.035673994	0.061180899	
SAN JOAQUIN	2022	MHDT	DSL	Aggregated	6,836.84	440,086.59	61,946.19	0.041401418	0.019419283	0	0.012000003	0.130340037	
							HHDT and MHDT Composite	**0.0364**	**0.0386**	**0.0000**	**0.0297**	**0.0786**	**0.144676**
SAN JOAQUIN	2022	LDA	GAS	Aggregated	295,571.82	11,565,576.62	1,385,544.92	0.001364416	0	0.001948791	0.008000002	0.036750011	
SAN JOAQUIN	2022	LDA	DSL	Aggregated	2,451.05	102,467.91	11,659.84	0.006256576	0	0	0.008000002	0.036750011	
SAN JOAQUIN	2022	LDA	ELEC	Aggregated	4,655.34	185,122.07	23,308.45	0	0	0	0.008000002	0.036750011	
SAN JOAQUIN	2022	LDT1	GAS	Aggregated	29,833.74	1,046,839.73	134,977.44	0.001925566	0	0.002818125	0.008000002	0.036750011	
SAN JOAQUIN	2022	LDT1	DSL	Aggregated	22.77	402.06	78.48	0.118399306	0	0	0.008000002	0.036750011	
SAN JOAQUIN	2022	LDT1	ELEC	Aggregated	151.96	6,347.31	772.01	0	0	0	0.008000002	0.036750011	
SAN JOAQUIN	2022	LDT2	GAS	Aggregated	95,496.44	3,493,823.66	441,577.96	0.001415821	0	0.001966692	0.008000002	0.036750011	
SAN JOAQUIN	2022	LDT2	DSL	Aggregated	501.61	22,189.46	2,461.12	0.005297037	0	0	0.008000002	0.036750011	
SAN JOAQUIN	2022	LDT2	ELEC	Aggregated	774.55	24,427.93	3,914.96	0	0	0	0.008000002	0.036750011	
SAN JOAQUIN	2022	MCY	GAS	Aggregated	13,794.06	100,041.02	27,588.12	0.001845735	0	0.003082417	0.004000001	0.011760003	
							LDA, LDT1, LDT2, and MCY Composite	**0.0014**	**0.0000**	**0.0020**	**0.0080**	**0.0366**	**0.046009**

Table 11. Operation Mobile Source Emissions Factors - EMFAC2017 Winter PM2.5

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	PM2.5_RUNEX (g/mile)	PM2.5_IDLEX (g/vehicle/day)	PM2.5_STREX (g/trip)	PM2.5_PMTW (g/mile)	PM2.5_PMBW (g/mile)	PM2.5_Combined - Calculated (g/mile)
SAN JOAQUIN	2022	HHDT	DSL	Aggregated	9,637.39	1,305,623.61	110,977.95	0.033153105	0.043170034	0	0.008918498	0.026220385	
SAN JOAQUIN	2022	MHDT	DSL	Aggregated	6,836.84	440,086.59	61,946.19	0.039610411	0.018579214	0	0.003000001	0.055860016	
							HHDT and MHDT Composite	**0.0348**	**0.0370**	**0.0000**	**0.0074**	**0.0337**	**0.075899**
SAN JOAQUIN	2022	LDA	GAS	Aggregated	295,571.82	11,565,576.62	1,385,544.92	0.00125454	0	0.0017919	0.002000001	0.015750005	
SAN JOAQUIN	2022	LDA	DSL	Aggregated	2,451.05	102,467.91	11,659.84	0.005985919	0	0	0.002000001	0.015750005	
SAN JOAQUIN	2022	LDA	ELEC	Aggregated	4,655.34	185,122.07	23,308.45	0	0	0	0.002000001	0.015750005	
SAN JOAQUIN	2022	LDT1	GAS	Aggregated	29,833.74	1,046,839.73	134,977.44	0.001770563	0	0.002591352	0.002000001	0.015750005	
SAN JOAQUIN	2022	LDT1	DSL	Aggregated	22.77	402.06	78.48	0.113277404	0	0	0.002000001	0.015750005	
SAN JOAQUIN	2022	LDT1	ELEC	Aggregated	151.96	6,347.31	772.01	0	0	0	0.002000001	0.015750005	
SAN JOAQUIN	2022	LDT2	GAS	Aggregated	95,496.44	3,493,823.66	441,577.96	0.001301833	0	0.001808396	0.002000001	0.015750005	
SAN JOAQUIN	2022	LDT2	DSL	Aggregated	501.61	22,189.46	2,461.12	0.00506789	0	0	0.002000001	0.015750005	
SAN JOAQUIN	2022	LDT2	ELEC	Aggregated	774.55	24,427.93	3,914.96	0	0	0	0.002000001	0.015750005	
SAN JOAQUIN	2022	MCY	GAS	Aggregated	13,794.06	100,041.02	27,588.12	0.001728929	0	0.002907987	0.001	0.005040001	
							LDA, LDT1, LDT2, and MCY Composite	**0.0013**	**0.0000**	**0.0018**	**0.0020**	**0.0157**	**0.019000**

Table 12. Operation Mobile Source Emissions Factors - EMFAC2017 Winter CO2

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	CO2_RUNEX (g/mile)	CO2_IDLEX (g/vehicle/day)	CO2_STREX (g/trip)
SAN JOAQUIN	2022	HHDT	DSL	Aggregated	9,637.39	1,305,623.61	110,977.95	1407.141001	14513.31978	0
SAN JOAQUIN	2022	MHDT	DSL	Aggregated	6,836.84	440,086.59	61,946.19	1072.440463	840.5805881	0
							HHDT and MHDT Composite	**1322.7643**	**11066.4766**	**0.0000**
SAN JOAQUIN	2022	LDA	GAS	Aggregated	295,571.82	11,565,576.62	1,385,544.92	258.966113	0	56.76314177
SAN JOAQUIN	2022	LDA	DSL	Aggregated	2,451.05	102,467.91	11,659.84	201.9163929	0	0
SAN JOAQUIN	2022	LDA	ELEC	Aggregated	4,655.34	185,122.07	23,308.45	0	0	0
SAN JOAQUIN	2022	LDT1	GAS	Aggregated	29,833.74	1,046,839.73	134,977.44	302.5208973	0	67.60174417
SAN JOAQUIN	2022	LDT1	DSL	Aggregated	22.77	402.06	78.48	429.6812221	0	0
SAN JOAQUIN	2022	LDT1	ELEC	Aggregated	151.96	6,347.31	772.01	0	0	0
SAN JOAQUIN	2022	LDT2	GAS	Aggregated	95,496.44	3,493,823.66	441,577.96	327.3084198	0	73.70869404
SAN JOAQUIN	2022	LDT2	DSL	Aggregated	501.61	22,189.46	2,461.12	272.3323645	0	0
SAN JOAQUIN	2022	LDT2	ELEC	Aggregated	774.55	24,427.93	3,914.96	0	0	0
SAN JOAQUIN	2022	MCY	GAS	Aggregated	13,794.06	100,041.02	27,588.12	217.3455363	0	66.13971441
							LDA, LDT1, LDT2, and MCY Composite	**272.1899**	**0.0000**	**60.1144**

EMFAC2017 (v1.0.2) Emission Rates
Region Type: County
Region: SAN JOAQUIN
Calendar Year: 2022
Season: Winter
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for VMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HTSK and RUNLS, g/vehicle/day for IDLEX, RESTL and DIURN. Note 'day' in the
Model Year: Aggregated

Notes:

Idle Duration:

HHDT	109.4	min/day
MHDT	5.86	min/day
LHDT1	1.74	min/day
LHDT2	1.87	min/day

Table 14. Operation Mobile Source Emissions Factors - EMFAC2017 Winter N2O

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	N2O_RUNEX (g/mile)	N2O_IDLEX (g/vehicle/day)	N2O_STREX (g/trip)
SAN JOAQUIN	2022	HHDT	DSL	Aggregated	9,637.39	1,305,623.61	110,977.95	0.22118297	2.28129176	0
SAN JOAQUIN	2022	MHDT	DSL	Aggregated	6,836.84	440,086.59	61,946.19	0.168572706	0.132127563	0
							HHDT and MHDT Composite	**0.2079**	**1.7395**	**0.0000**
SAN JOAQUIN	2022	LDA	GAS	Aggregated	295,571.82	11,565,576.62	1,385,544.92	0.004843907	0	0.029161875
SAN JOAQUIN	2022	LDA	DSL	Aggregated	2,451.05	102,467.91	11,659.84	0.031738445	0	0
SAN JOAQUIN	2022	LDA	ELEC	Aggregated	4,655.34	185,122.07	23,308.45	0	0	0
SAN JOAQUIN	2022	LDT1	GAS	Aggregated	29,833.74	1,046,839.73	134,977.44	0.009070769	0	0.033743347
SAN JOAQUIN	2022	LDT1	DSL	Aggregated	22.77	402.06	78.48	0.067539904	0	0
SAN JOAQUIN	2022	LDT1	ELEC	Aggregated	151.96	6,347.31	772.01	0	0	0
SAN JOAQUIN	2022	LDT2	GAS	Aggregated	95,496.44	3,493,823.66	441,577.96	0.007406592	0	0.037578695
SAN JOAQUIN	2022	LDT2	DSL	Aggregated	501.61	22,189.46	2,461.12	0.042806855	0	0
SAN JOAQUIN	2022	LDT2	ELEC	Aggregated	774.55	24,427.93	3,914.96	0	0	0
SAN JOAQUIN	2022	MCY	GAS	Aggregated	13,794.06	100,041.02	27,588.12	0.071507087	0	0.015880408
							LDA, LDT1, LDT2, and MCY Composite	**0.0062**	**0.0000**	**0.0305**

EMFAC2017 (v1.0.2) Emission Rates
Region Type: County
Region: SAN JOAQUIN
Calendar Year: 2022
Season: Winter
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for VMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HTSK and RUNLS, g/vehicle/day for IDLEX, RESTL and DIURN. Note 'day' in the
Model Year: Aggregated

Notes:

Idle Duration:

HHDT	109.4	min/day
MHDT	5.86	min/day
LHDT1	1.74	min/day
LHDT2	1.87	min/day
OBUS	5.9	min/day

Table 13. Operation Mobile Source Emissions Factors - EMFAC2017 Winter CH4

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	CH4_RUNEX (g/mile)	CH4_IDLEX (g/vehicle/day)	CH4_STREX (g/trip)
SAN JOAQUIN	2022	HHDT	DSL	Aggregated	9,637.39	1,305,623.61	110,977.95	0.002808676	0.249329374	0
SAN JOAQUIN	2022	MHDT	DSL	Aggregated	6,836.84	440,086.59	61,946.19	0.004880886	0.004548933	0
							HHDT and MHDT Composite	**0.0033**	**0.1876**	**0.0000**
SAN JOAQUIN	2022	LDA	GAS	Aggregated	295,571.82	11,565,576.62	1,385,544.92	0.002180083	0	0.064081907
SAN JOAQUIN	2022	LDA	DSL	Aggregated	2,451.05	102,467.91	11,659.84	0.000532649	0	0
SAN JOAQUIN	2022	LDA	ELEC	Aggregated	4,655.34	185,122.07	23,308.45	0	0	0
SAN JOAQUIN	2022	LDT1	GAS	Aggregated	29,833.74	1,046,839.73	134,977.44	0.005465275	0	0.099583906
SAN JOAQUIN	2022	LDT1	DSL	Aggregated	22.77	402.06	78.48	0.006972715	0	0
SAN JOAQUIN	2022	LDT1	ELEC	Aggregated	151.96	6,347.31	772.01	0	0	0
SAN JOAQUIN	2022	LDT2	GAS	Aggregated	95,496.44	3,493,823.66	441,577.96	0.003593826	0	0.089215433
SAN JOAQUIN	2022	LDT2	DSL	Aggregated	501.61	22,189.46	2,461.12	0.000579996	0	0
SAN JOAQUIN	2022	LDT2	ELEC	Aggregated	774.55	24,427.93	3,914.96	0	0	0
SAN JOAQUIN	2022	MCY	GAS	Aggregated	13,794.06	100,041.02	27,588.12	0.34444533	0	0.305254672
							LDA, LDT1, LDT2, and MCY Composite	**0.0047**	**0.0000**	**0.0738**

Source: EMFAC2017 (v1.0.3) Emission Rates
EMFAC2017 (v1.0.2) Emission Rates
Region Type: County
Region: SAN JOAQUIN
Calendar Year: 2022
Season: Winter
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for VMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HTSK and RUNLS, g/vehicle/day for IDLEX, RESTL and DIURN. Note 'day' in the

Notes:

Idle Duration:

HHDT	109.4	min/day
MHDT	5.86	min/day
LHDT1	1.74	min/day
LHDT2	1.87	min/day

Table 14. Paved Road Fugitive Emissions - Operation Mobile Sources

Equation:

$E = k \times (sL/2)^{0.91} \times (W)1.02$ [maximum day]

Where:			**Units**
k	particle size multiplier (PM_{10})	0.00220	lb/VMT
k	particle size multiplier ($PM_{2.5}$)	0.00054	lb/VMT
sL	silt loading (2)	0.1	g/m^2
W	average weight (tons) of the vehicle traveling the road	2.4	tons

Notes/References:
k = Emission factors from CalEEMod2016.3.1 per AP-42, Section 13.2.1 (Paved Roads).
sL = Silt loading from CalEEMod2016.3.2
For daily emissions it is assumed to have no precipitation.

Truck Weight Assumptions

EMFAC Definition	EMFAC Category	GVWR (pounds)	GVWR (tons)	
Heavy Heavy-Duty Truck	HHDT	>33,000	17	*Assumed 33,000 pounds*
Medium Heavy-Duty Truck	MHDT	14,001-33,000	8	*Assumed average of 14,001 & 33,000 pounds*
Composite Heavy & Medium Heavy-Duty Truck	HHDT & MHDT	14,001-33,000+	13	*Assumed average of HHDT & MHDT pounds*

Source: EMFAC 2014
GVWR = Gross Vehicle Weight Rating
1 pound = 0.0005 US tons

Employee Vehicles Evaluated:

Employee Type	Average Weight (tons)
Passenger Vehicles	2.4

Reference:
Source: CalEEMod2016.3.2 (average vehicle weight = 2.4 tons)
Per AP-42, Section 13.2.1 (Paved Roads): The above equation calls for the average weight of all vehicles traveling the road. For example, if 99 percent of traffic on the road are 2 ton cars/trucks while the remaining 1 percent consists of 20 ton trucks, then the mean weight "W" is 2.2 tons. More specifically, the above equation is not intended to be used to calculate a separate emission factor for each vehicle weight class. Instead, only one emission factor should be calculated to represent the "fleet" average weight of all vehicles traveling the road.

Emission Factors	**PM10 Paved Road (lb/VMT)**	**PM2.5 Paved Road (lb/VMT)**	**PM10 Paved Road (g/VMT)**	**PM2.5 Paved Road (g/VMT)**
HHDT	0.0049	0.0012	2.2087	0.5421
MHDT	0.0023	0.0006	1.0239	0.2513
HHDT & MHDT	0.0037	0.0009	1.6800	0.4124
Passenger Vehicles	0.0007	0.0002	0.2998	0.0736
Average	0.0022	0.0005	0.9899	0.2430

Schulte Warehouse Op Offroad Mit

San Joaquin County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	1.00	1000sqft	0.02	1,000.00	0

1.2 Other Project Characteristics

Urbanization	Rural	**Wind Speed (m/s)**	2.7	**Precipitation Freq (Days)**	51
Climate Zone	2			**Operational Year**	2022
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	206	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Schulte Warehouse Op Offroad Mit - San Joaquin County, Annual

Project Characteristics - RPS based on PG&E 2018 reported factor https://www.pgecorp.com/corp_responsibility/reports/2020/assets/PGE_CRSR_2020.pdf

Land Use - Construction module used for operational off-road emissions

Construction Phase - Operational offroad equipment emissions only.

Off-road Equipment - SCAQMD High-Cube Warehouse Business Survey

Vehicle Trips - Operational off-road equipment only.

Consumer Products - Operational off-road equipment only.

Area Coating - Operational off-road equipment only.

Landscape Equipment - Operational off-road equipment only.

Energy Use - Operational off-road equipment only.

Water And Wastewater - Operational off-road equipment only.

Solid Waste - Operational off-road equipment only.

Construction Off-road Equipment Mitigation - MM-AQ-4

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Exterior	500	0
tblAreaCoating	Area_Nonresidential_Interior	1500	0
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstructionPhase	NumDays	100.00	365.00
tblConstructionPhase	NumDaysWeek	5.00	7.00
tblConstructionPhase	PhaseEndDate	5/20/2022	12/31/2022
tblEnergyUse	LightingElect	2.33	0.00
tblEnergyUse	NT24E	1.77	0.00
tblEnergyUse	T24E	0.50	0.00
tblEnergyUse	T24NG	6.11	0.00
tblOffRoadEquipment	HorsePower	402.00	200.00
tblOffRoadEquipment	OffRoadEquipmentType		Rough Terrain Forklifts

tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	PhaseName		Operational offroad equipment only
tblOffRoadEquipment	PhaseName		Operational offroad equipment only
tblProjectCharacteristics	CO2IntensityFactor	641.35	206
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblSolidWaste	SolidWasteGenerationRate	0.94	0.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	WD_TR	1.68	0.00
tblWater	IndoorWaterUseRate	231,250.00	0.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.0262	0.1979	0.1564	5.9000e-004	0.0000	7.7900e-003	7.7900e-003	0.0000	7.1700e-003	7.1700e-003	0.0000	52.1085	52.1085	0.0169	0.0000	52.5298
Maximum	**0.0262**	**0.1979**	**0.1564**	**5.9000e-004**	**0.0000**	**7.7900e-003**	**7.7900e-003**	**0.0000**	**7.1700e-003**	**7.1700e-003**	**0.0000**	**52.1085**	**52.1085**	**0.0169**	**0.0000**	**52.5298**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	9.7800e-003	0.1578	0.3180	5.9000e-004	0.0000	9.8000e-004	9.8000e-004	0.0000	9.8000e-004	9.8000e-004	0.0000	52.1084	52.1084	0.0169	0.0000	52.5298
Maximum	**9.7800e-003**	**0.1578**	**0.3180**	**5.9000e-004**	**0.0000**	**9.8000e-004**	**9.8000e-004**	**0.0000**	**9.8000e-004**	**9.8000e-004**	**0.0000**	**52.1084**	**52.1084**	**0.0169**	**0.0000**	**52.5298**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**62.73**	**20.27**	**-103.36**	**0.00**	**0.00**	**87.42**	**87.42**	**0.00**	**86.33**	**86.33**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-1-2022	3-31-2022	0.0553	0.0413
2	4-1-2022	6-30-2022	0.0559	0.0418
3	7-1-2022	9-30-2022	0.0565	0.0422
		Highest	0.0565	0.0422

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	3.9100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**3.9100e-003**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	3.9100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**3.9100e-003**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Operational offroad equipment only	Building Construction	1/1/2022	12/31/2022	7	365	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Operational offroad equipment only	Rough Terrain Forklifts	0	8.00	100	0.40
Operational offroad equipment only	Off-Highway Trucks	1	4.00	200	0.38
Operational offroad equipment only	Cranes	0	4.00	231	0.29
Operational offroad equipment only	Forklifts	0	6.00	89	0.20
Operational offroad equipment only	Tractors/Loaders/Backhoes	0	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Operational offroad equipment only	23	0.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

3.2 Operational offroad equipment only - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0262	0.1979	0.1564	5.9000e-004		7.7900e-003	7.7900e-003		7.1700e-003	7.1700e-003	0.0000	52.1085	52.1085	0.0169	0.0000	52.5298
Total	**0.0262**	**0.1979**	**0.1564**	**5.9000e-004**		**7.7900e-003**	**7.7900e-003**		**7.1700e-003**	**7.1700e-003**	**0.0000**	**52.1085**	**52.1085**	**0.0169**	**0.0000**	**52.5298**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.2 Operational offroad equipment only - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	9.7800e-003	0.1578	0.3180	5.9000e-004		9.8000e-004	9.8000e-004		9.8000e-004	9.8000e-004	0.0000	52.1084	52.1084	0.0169	0.0000	52.5298
Total	**9.7800e-003**	**0.1578**	**0.3180**	**5.9000e-004**		**9.8000e-004**	**9.8000e-004**		**9.8000e-004**	**9.8000e-004**	**0.0000**	**52.1084**	**52.1084**	**0.0169**	**0.0000**	**52.5298**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Unrefrigerated Warehouse-No Rail	14.70	6.60	6.60	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Unrefrigerated Warehouse-No Rail	0.556917	0.035296	0.183646	0.120139	0.017882	0.004687	0.016156	0.056151	0.001190	0.001453	0.005055	0.000610	0.000818

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	3.9100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	3.9100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	3.9100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**3.9100e-003**					**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	3.9100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**3.9100e-003**					**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Unrefrigerated Warehouse-No Rail	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Unrefrigerated Warehouse-No Rail	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Schulte Warehouse Op Offroad Mit

San Joaquin County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	1.00	1000sqft	0.02	1,000.00	0

1.2 Other Project Characteristics

Urbanization	Rural	**Wind Speed (m/s)**	2.7	**Precipitation Freq (Days)**	51
Climate Zone	2			**Operational Year**	2022
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	206	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Schulte Warehouse Op Offroad Mit - San Joaquin County, Summer

Project Characteristics - RPS based on PG&E 2018 reported factor https://www.pgecorp.com/corp_responsibility/reports/2020/assets/PGE_CRSR_2020.pdf

Land Use - Construction module used for operational off-road emissions

Construction Phase - Operational offroad equipment emissions only.

Off-road Equipment - SCAQMD High-Cube Warehouse Business Survey

Vehicle Trips - Operational off-road equipment only.

Consumer Products - Operational off-road equipment only.

Area Coating - Operational off-road equipment only.

Landscape Equipment - Operational off-road equipment only.

Energy Use - Operational off-road equipment only.

Water And Wastewater - Operational off-road equipment only.

Solid Waste - Operational off-road equipment only.

Construction Off-road Equipment Mitigation - MM-AQ-4

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Exterior	500	0
tblAreaCoating	Area_Nonresidential_Interior	1500	0
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstructionPhase	NumDays	100.00	365.00
tblConstructionPhase	NumDaysWeek	5.00	7.00
tblConstructionPhase	PhaseEndDate	5/20/2022	12/31/2022
tblEnergyUse	LightingElect	2.33	0.00
tblEnergyUse	NT24E	1.77	0.00
tblEnergyUse	T24E	0.50	0.00
tblEnergyUse	T24NG	6.11	0.00
tblOffRoadEquipment	HorsePower	402.00	200.00
tblOffRoadEquipment	OffRoadEquipmentType		Rough Terrain Forklifts

tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	PhaseName		Operational offroad equipment only
tblOffRoadEquipment	PhaseName		Operational offroad equipment only
tblProjectCharacteristics	CO2IntensityFactor	641.35	206
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblSolidWaste	SolidWasteGenerationRate	0.94	0.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	WD_TR	1.68	0.00
tblWater	IndoorWaterUseRate	231,250.00	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	0.1438	1.0844	0.8569	3.2500e-003	0.0000	0.0427	0.0427	0.0000	0.0393	0.0393	0.0000	314.7385	314.7385	0.1018	0.0000	317.2833
Maximum	**0.1438**	**1.0844**	**0.8569**	**3.2500e-003**	**0.0000**	**0.0427**	**0.0427**	**0.0000**	**0.0393**	**0.0393**	**0.0000**	**314.7385**	**314.7385**	**0.1018**	**0.0000**	**317.2833**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	0.0536	0.8646	1.7425	3.2500e-003	0.0000	5.3600e-003	5.3600e-003	0.0000	5.3600e-003	5.3600e-003	0.0000	314.7385	314.7385	0.1018	0.0000	317.2833
Maximum	**0.0536**	**0.8646**	**1.7425**	**3.2500e-003**	**0.0000**	**5.3600e-003**	**5.3600e-003**	**0.0000**	**5.3600e-003**	**5.3600e-003**	**0.0000**	**314.7385**	**314.7385**	**0.1018**	**0.0000**	**317.2833**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**62.71**	**20.27**	**-103.36**	**0.00**	**0.00**	**87.44**	**87.44**	**0.00**	**86.35**	**86.35**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.0214	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0214**	**0.0000**	**1.0000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**2.2000e-004**	**2.2000e-004**	**0.0000**	**0.0000**	**2.3000e-004**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.0214	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0214**	**0.0000**	**1.0000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**2.2000e-004**	**2.2000e-004**	**0.0000**	**0.0000**	**2.3000e-004**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Operational offroad equipment only	Building Construction	1/1/2022	12/31/2022	7	365	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Operational offroad equipment only	Rough Terrain Forklifts	0	8.00	100	0.40
Operational offroad equipment only	Off-Highway Trucks	1	4.00	200	0.38
Operational offroad equipment only	Cranes	0	4.00	231	0.29
Operational offroad equipment only	Forklifts	0	6.00	89	0.20
Operational offroad equipment only	Tractors/Loaders/Backhoes	0	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Operational offroad equipment only	23	0.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

3.2 Operational offroad equipment only - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1438	1.0844	0.8569	3.2500e-003		0.0427	0.0427		0.0393	0.0393		314.7385	314.7385	0.1018		317.2833
Total	**0.1438**	**1.0844**	**0.8569**	**3.2500e-003**		**0.0427**	**0.0427**		**0.0393**	**0.0393**		**314.7385**	**314.7385**	**0.1018**		**317.2833**

3.2 Operational offroad equipment only - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0536	0.8646	1.7425	3.2500e-003		5.3600e-003	5.3600e-003		5.3600e-003	5.3600e-003	0.0000	314.7385	314.7385	0.1018		317.2833
Total	**0.0536**	**0.8646**	**1.7425**	**3.2500e-003**		**5.3600e-003**	**5.3600e-003**		**5.3600e-003**	**5.3600e-003**	**0.0000**	**314.7385**	**314.7385**	**0.1018**		**317.2833**

3.2 Operational offroad equipment only - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Unrefrigerated Warehouse-No	14.70	6.60	6.60	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Unrefrigerated Warehouse-No Rail	0.556917	0.035296	0.183646	0.120139	0.017882	0.004687	0.016156	0.056151	0.001190	0.001453	0.005055	0.000610	0.000818

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0214	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
Unmitigated	0.0214	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0214					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.0000e-005	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
Total	**0.0214**	**0.0000**	**1.0000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**2.2000e-004**	**2.2000e-004**	**0.0000**		**2.3000e-004**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0214					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.0000e-005	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
Total	**0.0214**	**0.0000**	**1.0000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**2.2000e-004**	**2.2000e-004**	**0.0000**		**2.3000e-004**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Schulte Warehouse Op Offroad Mit

San Joaquin County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	1.00	1000sqft	0.02	1,000.00	0

1.2 Other Project Characteristics

Urbanization	Rural	**Wind Speed (m/s)**	2.7	**Precipitation Freq (Days)**	51
Climate Zone	2			**Operational Year**	2022
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	206	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Schulte Warehouse Op Offroad Mit - San Joaquin County, Winter

Project Characteristics - RPS based on PG&E 2018 reported factor https://www.pgecorp.com/corp_responsibility/reports/2020/assets/PGE_CRSR_2020.pdf

Land Use - Construction module used for operational off-road emissions

Construction Phase - Operational offroad equipment emissions only.

Off-road Equipment - SCAQMD High-Cube Warehouse Business Survey

Vehicle Trips - Operational off-road equipment only.

Consumer Products - Operational off-road equipment only.

Area Coating - Operational off-road equipment only.

Landscape Equipment - Operational off-road equipment only.

Energy Use - Operational off-road equipment only.

Water And Wastewater - Operational off-road equipment only.

Solid Waste - Operational off-road equipment only.

Construction Off-road Equipment Mitigation - MM-AQ-4

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Exterior	500	0
tblAreaCoating	Area_Nonresidential_Interior	1500	0
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstructionPhase	NumDays	100.00	365.00
tblConstructionPhase	NumDaysWeek	5.00	7.00
tblConstructionPhase	PhaseEndDate	5/20/2022	12/31/2022
tblEnergyUse	LightingElect	2.33	0.00
tblEnergyUse	NT24E	1.77	0.00
tblEnergyUse	T24E	0.50	0.00
tblEnergyUse	T24NG	6.11	0.00
tblOffRoadEquipment	HorsePower	402.00	200.00
tblOffRoadEquipment	OffRoadEquipmentType		Rough Terrain Forklifts

tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	PhaseName		Operational offroad equipment only
tblOffRoadEquipment	PhaseName		Operational offroad equipment only
tblProjectCharacteristics	CO2IntensityFactor	641.35	206
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblSolidWaste	SolidWasteGenerationRate	0.94	0.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	WD_TR	1.68	0.00
tblWater	IndoorWaterUseRate	231,250.00	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	0.1438	1.0844	0.8569	3.2500e-003	0.0000	0.0427	0.0427	0.0000	0.0393	0.0393	0.0000	314.7385	314.7385	0.1018	0.0000	317.2833
Maximum	**0.1438**	**1.0844**	**0.8569**	**3.2500e-003**	**0.0000**	**0.0427**	**0.0427**	**0.0000**	**0.0393**	**0.0393**	**0.0000**	**314.7385**	**314.7385**	**0.1018**	**0.0000**	**317.2833**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	0.0536	0.8646	1.7425	3.2500e-003	0.0000	5.3600e-003	5.3600e-003	0.0000	5.3600e-003	5.3600e-003	0.0000	314.7385	314.7385	0.1018	0.0000	317.2833
Maximum	**0.0536**	**0.8646**	**1.7425**	**3.2500e-003**	**0.0000**	**5.3600e-003**	**5.3600e-003**	**0.0000**	**5.3600e-003**	**5.3600e-003**	**0.0000**	**314.7385**	**314.7385**	**0.1018**	**0.0000**	**317.2833**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**62.71**	**20.27**	**-103.36**	**0.00**	**0.00**	**87.44**	**87.44**	**0.00**	**86.35**	**86.35**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.0214	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0214**	**0.0000**	**1.0000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**2.2000e-004**	**2.2000e-004**	**0.0000**	**0.0000**	**2.3000e-004**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.0214	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0214**	**0.0000**	**1.0000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**2.2000e-004**	**2.2000e-004**	**0.0000**	**0.0000**	**2.3000e-004**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Operational offroad equipment only	Building Construction	1/1/2022	12/31/2022	7	365	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Operational offroad equipment only	Rough Terrain Forklifts	0	8.00	100	0.40
Operational offroad equipment only	Off-Highway Trucks	1	4.00	200	0.38
Operational offroad equipment only	Cranes	0	4.00	231	0.29
Operational offroad equipment only	Forklifts	0	6.00	89	0.20
Operational offroad equipment only	Tractors/Loaders/Backhoes	0	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Operational offroad equipment only	23	0.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

3.2 Operational offroad equipment only - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1438	1.0844	0.8569	3.2500e-003		0.0427	0.0427		0.0393	0.0393		314.7385	314.7385	0.1018		317.2833
Total	**0.1438**	**1.0844**	**0.8569**	**3.2500e-003**		**0.0427**	**0.0427**		**0.0393**	**0.0393**		**314.7385**	**314.7385**	**0.1018**		**317.2833**

3.2 Operational offroad equipment only - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0536	0.8646	1.7425	3.2500e-003		5.3600e-003	5.3600e-003		5.3600e-003	5.3600e-003	0.0000	314.7385	314.7385	0.1018		317.2833
Total	**0.0536**	**0.8646**	**1.7425**	**3.2500e-003**		**5.3600e-003**	**5.3600e-003**		**5.3600e-003**	**5.3600e-003**	**0.0000**	**314.7385**	**314.7385**	**0.1018**		**317.2833**

3.2 Operational offroad equipment only - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Unrefrigerated Warehouse-No	14.70	6.60	6.60	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Unrefrigerated Warehouse-No Rail	0.556917	0.035296	0.183646	0.120139	0.017882	0.004687	0.016156	0.056151	0.001190	0.001453	0.005055	0.000610	0.000818

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0214	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
Unmitigated	0.0214	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0214					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.0000e-005	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
Total	**0.0214**	**0.0000**	**1.0000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**2.2000e-004**	**2.2000e-004**	**0.0000**		**2.3000e-004**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0214					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.0000e-005	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
Total	**0.0214**	**0.0000**	**1.0000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**2.2000e-004**	**2.2000e-004**	**0.0000**		**2.3000e-004**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

1. Electric Lift Vehicles - Energy Consumption

Vehicle Category	Lift Capacity (lbs)	Electric Motors	Drive Motor Capacity (hp)	Drive Motor Capacity (kW)	Facility Operation (hrs/day)	Vehicle Operation Load Factor[4]	Vehicle Operation (days/week)	Vehicle Operation (weeks/yr)	Vehicle Operation (hrs/year)	Electric Energy Consumption per Unit (kWhr/day/Unit)	Electric Energy Consumption per Unit (kWhr/yr/Unit)	Units	Total Energy Consumption (kWhr/day)	Total Energy Consumption (kWhr/yr)
Pallet Jack[1]	3,300	Drive Motor Capacity		0.7	0	0.2	0	0	0	0.00	0.00	0	0.00	0.00
		Lift Motor Capacity		0.8	0	0.05	0	0	0	0.00	0.00		0.00	0.00
Small Forklift[2]	3,086-4,409	Drive Motor Capacity		11	8	0.2	7	52	582.4	17.60	6,406.40	65	1144.00	416,416.00
		Lift Motor Capacity		10	8	0.05	7	52	145.6	4.00	1,456.00		260.00	94,640.00
Large Forklift[3]	7,000-11,000	Drive Motor Capacity	24	18	8	0.2	7	52	582.4	28.80	10,483.20	22	633.60	230,630.40
		Lift Motor Capacity	27	20	8	0.05	7	52	145.6	8.00	2,912.00		176.00	64,064.00
												Total	2,213.60	805,750.40

[1] Based on Global Industrial™ 3300 LB. CAPACITY SELF-PROPELLED ELECTRIC POWER PALLET JACK TRUCK

https://www.globalindustrial.com/p/material-handling/pallet-trucks-jacks/self-propelled/global-industrial-self-propelled-electric-power-pallet-jack-truck-3300-lb-cap?infoParam.campaignId=T9F&gclid=CjwKCAjw_sn8BRBrEiwAnUGJDsnUx19lvgquuJTz2DOx51UqkSAlg9VO22XpkzJZWyI-FmMiqFRaeRoCOqEQAvD_BwE

[2] Based on CAT Model EP12ANT - EP20ANT

https://www.catlifttruck.com/lift-trucks/counterbalance-forklift-trucks/electric-powered-lift-trucks/ep14-20acnt

[3] Based on CAT Model 2EPC7000 - 2EP11000

https://www.logisnextamericas.com/-/media/mcfa/sites/portal/files/forklifts/cat-lift-trucks/sales%20literature/clt-i-2epc7000-2ep11000-english.pdf

[4] Drive motor load factor based on CalEEMod User Manual Table 3.3 for offroad forklift load factor

Lift motor load factor set equal of 25% of drive motor capacity factor based on engineering estimate.

2. Electric Lift Vehicles - Greenhouse Gas (GHG) Emissions

Vehicle Category	Lift Capacity (lbs)	Electric Motors	Total Energy Consumption (kWhr/day)	Total Energy Consumption (kWhr/yr)	GHG Emission Factors CO_2[1] (lb/MWhr)	GHG Emission Factors CH_4[2] (lb/MWhr)	GHG Emission Factors N_2O[2] (lb/MWhr)		Annual GHG Emissions CO_2[1] (TPY)	Annual GHG Emissions CO_2[1] (Metric TPY)	Annual GHG Emissions CH_4[2] (TPY)	Annual GHG Emissions CH_4[2] (Metric TPY)	Annual GHG Emissions N_2O[2] (TPY)	Annual GHG Emissions N_2O[2] (Metric TPY)	Annual GHG Emissions CO_2e[3] (TPY)	Annual GHG Emissions CO_2e[3] (Metric TPY)
Pallet Jack[1]	3,300	Drive Motor Capacity	0	0.00	206	0.029	0.006		0.00		0.0000		0.0000		0.00	0.00
		Lift Motor Capacity	0	0.00	206	0.029	0.006		0.00		0.0000		0.0000		0.00	0.00
Small Forklift[2]	3,086-4,409	Drive Motor Capacity	1144	416,416.00	206	0.029	0.006		42.89		0.0060		0.0012		43.40	39.38
		Lift Motor Capacity	260	94,640.00	206	0.029	0.006		9.75		0.0014		0.0003		9.86	8.95
Large Forklift[3]	7,000-11,000	Drive Motor Capacity	633.6	230,630.40	206	0.029	0.006		23.75		0.0033		0.0007		24.04	21.81
		Lift Motor Capacity	176	64,064.00	206	0.029	0.006		6.60		0.0009		0.0002		6.68	6.06
								Total	82.99	75.29	0.0117	0.0106	0.0024	0.0022	83.99	76.19

[1]. Based on PG&E 2020 Corporate Responsibility and Sustainability Report.
https://www.pgecorp.com/corp_responsibility/reports/2020/assets/PGE_CRSR_2020.pdf

[2]. Based on CalEEmod default values for Utility

3 $CO_2e = CO_2 + 21 \times (CH_4) + 310 \times (N_2O)$.

Appendix B

Health Risk Assessment

HRA Emissions Input - Unmitigated

Operational

		Trip Distance		Idling Time	Vehicle Count		DPM	Unmitigated DPM		Mitigated DPM		Benzene		Toluene		Xylenes	
Source Name	Description	meters	miles	hr/veh	veh/hr	veh/yr	g/veh/hr, g/mile	lb/year	lb/hr	lb/year	lb/hr	lb/year	lb/hr	lb/year	lb/hr	lb/year	lb/hr
PUMP	Diesel-fueled 300-hp fire pump	-	-	-	-	-	-	3.62E+00	7.24E-02	3.62E+00	7.24E-02	-	-	-	-	-	-
TANK	Diesel fuel tank working and breathing loss	-	-	-	-	-	-	-	-	-	-	1.32E-02	2.64E-04	7.23E-02	1.45E-03	6.30E-02	1.26E-03
IDLING1	Warehouse Building A Idling	-	-	0.25	42	25,368	0.00134	1.88E-02	3.11E-05	1.88E-02	3.11E-05	-	-	-	-	-	-
IDLING2	Warehouse Building B Idling	-	-	0.25	43	25,972	0.00134	1.92E-02	3.18E-05	1.92E-02	3.18E-05	-	-	-	-	-	-
IDLING3	Warehouse Building C Idling	-	-	0.25	30	18,120	0.00134	1.34E-02	2.22E-05	1.34E-02	2.22E-05	-	-	-	-	-	-
ONSITE	On-site truck travel	1012.00	0.63	-	115	69,459	0.03394	3.27E+00	5.41E-03	3.27E+00	5.41E-03	-	-	-	-	-	-
YARD	Yard truck traveling	-	-	-	-	-	-	1.56E+01	1.07E-02	1.96E+00	1.34E-03	-	-	-	-	-	-
FORK	Yard Forklift	-	-	-	-	-	-	4.17E+02	1.43E-01	0.00E+00	0.00E+00						
OFFSITE1	Project site to 2	2106.60	1.31	-	115	138,918	0.02647	1.06E+01	8.79E-03	1.06E+01	8.79E-03	-	-	-	-	-	-
OFFSITE2	2 to I-205	2137.00	1.33	-	29	34,730	0.02647	2.69E+00	2.23E-03	2.69E+00	2.23E-03	-	-	-	-	-	-
OFFSITE3	2 to 1	1628.20	1.01	-	86	104,189	0.02647	6.15E+00	5.09E-03	6.15E+00	5.09E-03	-	-	-	-	-	-
OFFSITE4	1 to I-205	2310.00	1.44	-	35	41,676	0.02647	3.49E+00	2.89E-03	3.49E+00	2.89E-03	-	-	-	-	-	-
OFFSITE5	1 to I-580	379.0	0.24	-	52	62,513	0.02647	8.59E-01	7.11E-04	8.59E-01	7.11E-04	-	-	-	-	-	-

Notes: Vehicle idling count per hour based on number of loading dock doors at each building.
Yard truck emissions from CalEEMod output, operating 4 hours per day and 365 days per year.
Pump emissions from CalEEMod, assumed testing and maintenance 1 hour/day and 50 hours/year.

Conversions:

1 lb =	453.6	g
1 mile =	1609.344	meters
1 ton =	2000	pounds

Name	Storage Tank Diesel Fugitives									
Applicability	Use this spreadsheet for VOC fugitive emission from Diesel Storge Tanks. Entries required in yellow areas, output in grey areas.									
Author or updater	Matthew Cegielski		*Last Update*	March 11, 2016						
Facility:										
ID#:										
Project #:										
Inputs	lb /hr	lb /yr	**Formula**							
VOC Rate	3.00E-03	0.15	Emissions are calculated by the multiplication of VOC Rates and Emission Factors.							
Substances	**CAS#**	**lbs/ lb VOC**	**LB/HR**	**LB/YR**						
Benzene	**71432**	8.80E-02	2.64E-04	1.32E-02						
Toluene	**108883**	4.82E-01	1.45E-03	7.23E-02						
Xylenes	**1330207**	4.20E-01	1.26E-03	6.30E-02						
References:										
* The emission factors are from the 1993 District memo "Diesel Storage Weight Fractions", test data from source tests of 75 crude oil storage tanks in the southern region.										

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**
** AERMOD Input Produced by:
** AERMOD View Ver. 9.5.0
** Lakes Environmental Software Inc.
** Date: 1/7/2021
** File: C:\Lakes\AERMOD View\SchulteOpHRA\SchulteOpHRA.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE Schulte Warehouse
   TITLETWO Operational HRA - DPM
   MODELOPT DFAULT CONC
   AVERTIME 1 PERIOD
   POLLUTID HRA
   RUNORNOT RUN
   ERRORFIL SchulteOpHRA.err
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = OFFSITE1
** DESCRSRC Project site to 2
** PREFIX
** Length of Side = 9.30
** Configuration = Adjacent
** Emission Rate = 1.0
** Vertical Dimension = 6.80
** SZINIT = 3.16
** Nodes = 6
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** 632499.930, 4176001.502, 40.46, 3.40, 4.33
** 632180.382, 4175997.472, 42.99, 3.40, 4.33
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   LOCATION L0006124     VOLUME   633094.798 4176003.113 36.73
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   LOCATION L0006151     VOLUME   632843.699 4176002.433 38.34
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LOCATION L0006168     VOLUME   632685.600 4176002.005 39.31
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LOCATION L0006214     VOLUME   632257.820 4175998.449 41.84
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LOCATION L0006225 VOLUME 632155.526 4175997.331 43.26
LOCATION L0006226 VOLUME 632146.226 4175997.279 43.35
LOCATION L0006227 VOLUME 632136.927 4175997.226 43.43
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LOCATION L0006284 VOLUME 631606.847 4175997.389 50.03
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LOCATION L0006309 VOLUME 631374.360 4175999.429 51.36
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LOCATION L0006312 VOLUME 631346.460 4175999.494 51.13
LOCATION L0006313 VOLUME 631337.160 4175999.516 51.08
LOCATION L0006314 VOLUME 631327.860 4175999.538 51.01

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   LOCATION L0006344     VOLUME   631048.861 4176000.196 54.89
** End of LINE VOLUME Source ID = OFFSITE1
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = OFFSITE2
** DESCRSRC 2 to I-205
** PREFIX
** Length of Side = 9.30
** Configuration = Adjacent
** Emission Rate = 1.0
** Vertical Dimension = 6.80
** SZINIT = 3.16
** Nodes = 6
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LOCATION L0006545 VOLUME 631005.913 4177869.800 37.34

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   LOCATION L0006569     VOLUME   630999.456 4178092.906 35.12
   LOCATION L0006570     VOLUME   630999.180 4178102.202 35.02
   LOCATION L0006571     VOLUME   630998.899 4178111.498 34.93
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   LOCATION L0006573     VOLUME   630998.335 4178130.090 34.74
   LOCATION L0006574     VOLUME   630998.054 4178139.385 34.65
** End of LINE VOLUME Source ID = OFFSITE2
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = OFFSITE3
** DESCRSRC 2 to 1
** PREFIX
** Length of Side = 9.30
** Configuration = Adjacent
** Emission Rate = 1.0
** Vertical Dimension = 6.80
** SZINIT = 3.16
** Nodes = 3
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** 629479.798, 4175994.707, 69.16, 3.40, 4.33
** 629416.187, 4176014.180, 70.24, 3.40, 4.33
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   LOCATION L0006576     VOLUME   631027.553 4176001.140 55.23
   LOCATION L0006577     VOLUME   631018.254 4176001.102 55.42
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   LOCATION L0006579     VOLUME   630999.654 4176001.024 55.70
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LOCATION L0006629 VOLUME 630534.658 4175999.092 59.81

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LOCATION L0006677     VOLUME   630088.262 4175997.236 63.81
LOCATION L0006678     VOLUME   630078.962 4175997.198 63.85
LOCATION L0006679     VOLUME   630069.662 4175997.159 63.90
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** Line Source Represented by Adjacent Volume Sources
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** DESCRSRC 1 to I-205
** PREFIX
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** Configuration = Adjacent
** Emission Rate = 1.0
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   LOCATION L0006980     VOLUME   629382.474 4178156.080 48.30
   LOCATION L0006981     VOLUME   629382.090 4178165.372 48.22
   LOCATION L0006982     VOLUME   629381.706 4178174.664 48.15
   LOCATION L0006983     VOLUME   629381.322 4178183.956 48.04
   LOCATION L0006984     VOLUME   629380.938 4178193.248 48.04
   LOCATION L0006985     VOLUME   629380.554 4178202.540 48.13
   LOCATION L0006986     VOLUME   629380.170 4178211.832 48.20
   LOCATION L0006987     VOLUME   629379.786 4178221.124 47.98
   LOCATION L0006988     VOLUME   629379.402 4178230.416 47.63
   LOCATION L0006989     VOLUME   629379.018 4178239.708 47.45
   LOCATION L0006990     VOLUME   629378.634 4178249.000 47.44
   LOCATION L0006991     VOLUME   629378.250 4178258.292 47.44
   LOCATION L0006992     VOLUME   629377.866 4178267.584 47.38
   LOCATION L0006993     VOLUME   629377.482 4178276.876 47.33
   LOCATION L0006994     VOLUME   629377.098 4178286.169 48.00
   LOCATION L0006995     VOLUME   629376.714 4178295.461 51.09
   LOCATION L0006996     VOLUME   629376.330 4178304.753 53.23
   LOCATION L0006997     VOLUME   629375.946 4178314.045 54.03
** End of LINE VOLUME Source ID = OFFSITE4
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = OFFSITE5
** DESCRSRC 1 to I-580
** PREFIX
** Length of Side = 9.30
** Configuration = Adjacent
** Emission Rate = 1.0
** Vertical Dimension = 6.80
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** SZINIT = 3.16
** Nodes = 7
** 629407.952, 4176014.562, 70.35, 0.00, 4.33
** 629383.593, 4176005.150, 70.89, 0.00, 4.33
** 629343.734, 4175948.129, 71.86, 0.00, 4.33
** 629314.946, 4175917.680, 72.21, 0.00, 4.33
** 629276.747, 4175888.339, 72.84, 0.00, 4.33
** 629183.741, 4175813.602, 76.30, 0.00, 4.33
** 629126.719, 4175766.545, 81.70, 0.00, 4.33
** ------------------------------------------------------------------
   LOCATION L0006998     VOLUME   629403.615 4176012.886 70.43
   LOCATION L0006999     VOLUME   629394.940 4176009.534 70.63
   LOCATION L0007000     VOLUME   629386.265 4176006.183 70.84
   LOCATION L0007001     VOLUME   629379.906 4175999.875 70.96
   LOCATION L0007002     VOLUME   629374.578 4175992.253 71.08
   LOCATION L0007003     VOLUME   629369.249 4175984.631 71.25
   LOCATION L0007004     VOLUME   629363.921 4175977.008 71.53
   LOCATION L0007005     VOLUME   629358.593 4175969.386 71.70
   LOCATION L0007006     VOLUME   629353.265 4175961.764 71.78
   LOCATION L0007007     VOLUME   629347.936 4175954.141 71.84
   LOCATION L0007008     VOLUME   629342.384 4175946.701 71.90
   LOCATION L0007009     VOLUME   629335.995 4175939.944 71.97
   LOCATION L0007010     VOLUME   629329.606 4175933.186 72.03
   LOCATION L0007011     VOLUME   629323.216 4175926.428 72.09
   LOCATION L0007012     VOLUME   629316.827 4175919.670 72.16
   LOCATION L0007013     VOLUME   629309.742 4175913.683 72.26
   LOCATION L0007014     VOLUME   629302.367 4175908.018 72.38
   LOCATION L0007015     VOLUME   629294.991 4175902.353 72.50
   LOCATION L0007016     VOLUME   629287.616 4175896.688 72.64
   LOCATION L0007017     VOLUME   629280.241 4175891.023 72.77
   LOCATION L0007018     VOLUME   629272.932 4175885.273 72.93
   LOCATION L0007019     VOLUME   629265.682 4175879.448 73.13
   LOCATION L0007020     VOLUME   629258.433 4175873.622 73.26
   LOCATION L0007021     VOLUME   629251.183 4175867.797 73.42
   LOCATION L0007022     VOLUME   629243.934 4175861.972 73.61
   LOCATION L0007023     VOLUME   629236.684 4175856.146 73.75
   LOCATION L0007024     VOLUME   629229.435 4175850.321 73.91
   LOCATION L0007025     VOLUME   629222.186 4175844.495 74.26
   LOCATION L0007026     VOLUME   629214.936 4175838.670 74.65
   LOCATION L0007027     VOLUME   629207.687 4175832.844 75.04
   LOCATION L0007028     VOLUME   629200.437 4175827.019 75.47
   LOCATION L0007029     VOLUME   629193.188 4175821.193 75.85
   LOCATION L0007030     VOLUME   629185.938 4175815.368 76.18
   LOCATION L0007031     VOLUME   629178.742 4175809.477 76.70
   LOCATION L0007032     VOLUME   629171.569 4175803.558 77.36
   LOCATION L0007033     VOLUME   629164.396 4175797.638 77.98
   LOCATION L0007034     VOLUME   629157.224 4175791.719 78.54
   LOCATION L0007035     VOLUME   629150.051 4175785.800 79.07
   LOCATION L0007036     VOLUME   629142.878 4175779.880 79.53
   LOCATION L0007037     VOLUME   629135.705 4175773.961 80.15
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   LOCATION L0007038     VOLUME   629128.532 4175768.041 81.28
** End of LINE VOLUME Source ID = OFFSITE5
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = IDLING1
** DESCRSRC Warehouse Building A Idling
** PREFIX
** Length of Side = 3.30
** Configuration = Adjacent
** Emission Rate = 1.0
** Vertical Dimension = 6.80
** SZINIT = 3.16
** Nodes = 2
** 632903.972, 4175860.046, 39.09, 4.00, 1.53
** 633087.482, 4175861.633, 37.60, 4.00, 1.53
** ----------------------------------------------------------------------
   LOCATION L0007039     VOLUME   632905.622 4175860.061 39.08
   LOCATION L0007040     VOLUME   632908.922 4175860.089 39.07
   LOCATION L0007041     VOLUME   632912.222 4175860.118 39.05
   LOCATION L0007042     VOLUME   632915.521 4175860.146 39.04
   LOCATION L0007043     VOLUME   632918.821 4175860.175 39.03
   LOCATION L0007044     VOLUME   632922.121 4175860.203 39.02
   LOCATION L0007045     VOLUME   632925.421 4175860.232 39.00
   LOCATION L0007046     VOLUME   632928.721 4175860.260 38.99
   LOCATION L0007047     VOLUME   632932.021 4175860.289 38.97
   LOCATION L0007048     VOLUME   632935.321 4175860.317 38.95
   LOCATION L0007049     VOLUME   632938.621 4175860.346 38.94
   LOCATION L0007050     VOLUME   632941.920 4175860.374 38.93
   LOCATION L0007051     VOLUME   632945.220 4175860.403 38.91
   LOCATION L0007052     VOLUME   632948.520 4175860.431 38.89
   LOCATION L0007053     VOLUME   632951.820 4175860.460 38.88
   LOCATION L0007054     VOLUME   632955.120 4175860.489 38.86
   LOCATION L0007055     VOLUME   632958.420 4175860.517 38.84
   LOCATION L0007056     VOLUME   632961.720 4175860.546 38.83
   LOCATION L0007057     VOLUME   632965.020 4175860.574 38.80
   LOCATION L0007058     VOLUME   632968.320 4175860.603 38.77
   LOCATION L0007059     VOLUME   632971.619 4175860.631 38.73
   LOCATION L0007060     VOLUME   632974.919 4175860.660 38.70
   LOCATION L0007061     VOLUME   632978.219 4175860.688 38.66
   LOCATION L0007062     VOLUME   632981.519 4175860.717 38.63
   LOCATION L0007063     VOLUME   632984.819 4175860.745 38.59
   LOCATION L0007064     VOLUME   632988.119 4175860.774 38.56
   LOCATION L0007065     VOLUME   632991.419 4175860.802 38.52
   LOCATION L0007066     VOLUME   632994.719 4175860.831 38.48
   LOCATION L0007067     VOLUME   632998.018 4175860.859 38.44
   LOCATION L0007068     VOLUME   633001.318 4175860.888 38.40
   LOCATION L0007069     VOLUME   633004.618 4175860.916 38.37
   LOCATION L0007070     VOLUME   633007.918 4175860.945 38.34
   LOCATION L0007071     VOLUME   633011.218 4175860.974 38.31
   LOCATION L0007072     VOLUME   633014.518 4175861.002 38.28
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   LOCATION L0007073     VOLUME   633017.818 4175861.031 38.25
   LOCATION L0007074     VOLUME   633021.118 4175861.059 38.22
   LOCATION L0007075     VOLUME   633024.417 4175861.088 38.20
   LOCATION L0007076     VOLUME   633027.717 4175861.116 38.17
   LOCATION L0007077     VOLUME   633031.017 4175861.145 38.14
   LOCATION L0007078     VOLUME   633034.317 4175861.173 38.12
   LOCATION L0007079     VOLUME   633037.617 4175861.202 38.09
   LOCATION L0007080     VOLUME   633040.917 4175861.230 38.07
   LOCATION L0007081     VOLUME   633044.217 4175861.259 38.05
   LOCATION L0007082     VOLUME   633047.517 4175861.287 38.02
   LOCATION L0007083     VOLUME   633050.816 4175861.316 38.00
   LOCATION L0007084     VOLUME   633054.116 4175861.344 37.97
   LOCATION L0007085     VOLUME   633057.416 4175861.373 37.94
   LOCATION L0007086     VOLUME   633060.716 4175861.401 37.90
   LOCATION L0007087     VOLUME   633064.016 4175861.430 37.87
   LOCATION L0007088     VOLUME   633067.316 4175861.459 37.83
   LOCATION L0007089     VOLUME   633070.616 4175861.487 37.79
   LOCATION L0007090     VOLUME   633073.916 4175861.516 37.75
   LOCATION L0007091     VOLUME   633077.215 4175861.544 37.71
   LOCATION L0007092     VOLUME   633080.515 4175861.573 37.66
   LOCATION L0007093     VOLUME   633083.815 4175861.601 37.61
   LOCATION L0007094     VOLUME   633087.115 4175861.630 37.57
** End of LINE VOLUME Source ID = IDLING1
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = IDLING2
** DESCRSRC Warehouse Building B Idling
** PREFIX
** Length of Side = 3.30
** Configuration = Adjacent
** Emission Rate = 1.0
** Vertical Dimension = 6.80
** SZINIT = 3.16
** Nodes = 2
** 632900.270, 4175743.171, 39.49, 4.00, 1.53
** 633086.953, 4175744.229, 39.07, 4.00, 1.53
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   LOCATION L0007095     VOLUME   632901.920 4175743.181 39.46
   LOCATION L0007096     VOLUME   632905.220 4175743.199 39.45
   LOCATION L0007097     VOLUME   632908.520 4175743.218 39.44
   LOCATION L0007098     VOLUME   632911.820 4175743.237 39.44
   LOCATION L0007099     VOLUME   632915.120 4175743.255 39.43
   LOCATION L0007100     VOLUME   632918.420 4175743.274 39.41
   LOCATION L0007101     VOLUME   632921.720 4175743.293 39.40
   LOCATION L0007102     VOLUME   632925.020 4175743.312 39.39
   LOCATION L0007103     VOLUME   632928.320 4175743.330 39.38
   LOCATION L0007104     VOLUME   632931.619 4175743.349 39.38
   LOCATION L0007105     VOLUME   632934.919 4175743.368 39.38
   LOCATION L0007106     VOLUME   632938.219 4175743.386 39.38
   LOCATION L0007107     VOLUME   632941.519 4175743.405 39.37
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   LOCATION L0007108     VOLUME   632944.819 4175743.424 39.37
   LOCATION L0007109     VOLUME   632948.119 4175743.442 39.36
   LOCATION L0007110     VOLUME   632951.419 4175743.461 39.35
   LOCATION L0007111     VOLUME   632954.719 4175743.480 39.34
   LOCATION L0007112     VOLUME   632958.019 4175743.499 39.34
   LOCATION L0007113     VOLUME   632961.319 4175743.517 39.34
   LOCATION L0007114     VOLUME   632964.619 4175743.536 39.34
   LOCATION L0007115     VOLUME   632967.919 4175743.555 39.34
   LOCATION L0007116     VOLUME   632971.219 4175743.573 39.33
   LOCATION L0007117     VOLUME   632974.519 4175743.592 39.33
   LOCATION L0007118     VOLUME   632977.819 4175743.611 39.33
   LOCATION L0007119     VOLUME   632981.119 4175743.629 39.33
   LOCATION L0007120     VOLUME   632984.419 4175743.648 39.33
   LOCATION L0007121     VOLUME   632987.719 4175743.667 39.33
   LOCATION L0007122     VOLUME   632991.019 4175743.685 39.33
   LOCATION L0007123     VOLUME   632994.318 4175743.704 39.32
   LOCATION L0007124     VOLUME   632997.618 4175743.723 39.31
   LOCATION L0007125     VOLUME   633000.918 4175743.742 39.30
   LOCATION L0007126     VOLUME   633004.218 4175743.760 39.29
   LOCATION L0007127     VOLUME   633007.518 4175743.779 39.28
   LOCATION L0007128     VOLUME   633010.818 4175743.798 39.27
   LOCATION L0007129     VOLUME   633014.118 4175743.816 39.26
   LOCATION L0007130     VOLUME   633017.418 4175743.835 39.24
   LOCATION L0007131     VOLUME   633020.718 4175743.854 39.22
   LOCATION L0007132     VOLUME   633024.018 4175743.872 39.20
   LOCATION L0007133     VOLUME   633027.318 4175743.891 39.17
   LOCATION L0007134     VOLUME   633030.618 4175743.910 39.14
   LOCATION L0007135     VOLUME   633033.918 4175743.929 39.12
   LOCATION L0007136     VOLUME   633037.218 4175743.947 39.09
   LOCATION L0007137     VOLUME   633040.518 4175743.966 39.07
   LOCATION L0007138     VOLUME   633043.818 4175743.985 39.05
   LOCATION L0007139     VOLUME   633047.118 4175744.003 39.03
   LOCATION L0007140     VOLUME   633050.418 4175744.022 39.02
   LOCATION L0007141     VOLUME   633053.718 4175744.041 39.00
   LOCATION L0007142     VOLUME   633057.017 4175744.059 39.00
   LOCATION L0007143     VOLUME   633060.317 4175744.078 38.99
   LOCATION L0007144     VOLUME   633063.617 4175744.097 38.99
   LOCATION L0007145     VOLUME   633066.917 4175744.116 39.00
   LOCATION L0007146     VOLUME   633070.217 4175744.134 39.01
   LOCATION L0007147     VOLUME   633073.517 4175744.153 39.02
   LOCATION L0007148     VOLUME   633076.817 4175744.172 39.04
   LOCATION L0007149     VOLUME   633080.117 4175744.190 39.05
   LOCATION L0007150     VOLUME   633083.417 4175744.209 39.06
   LOCATION L0007151     VOLUME   633086.717 4175744.228 39.07
** End of LINE VOLUME Source ID = IDLING2
** ----------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = IDLING3
** DESCRSRC Warehouse Building C Idling
** PREFIX
```

```
** Length of Side = 3.30
** Configuration = Adjacent
** Emission Rate = 1.0
** Vertical Dimension = 6.80
** SZINIT = 3.16
** Nodes = 2
** 633189.020, 4175885.431, 36.53, 4.00, 1.53
** 633190.078, 4175757.450, 37.45, 4.00, 1.53
** ----------------------------------------------------------------------
   LOCATION L0007152     VOLUME   633189.034 4175883.781 36.42
   LOCATION L0007153     VOLUME   633189.061 4175880.481 36.48
   LOCATION L0007154     VOLUME   633189.088 4175877.181 36.54
   LOCATION L0007155     VOLUME   633189.116 4175873.881 36.60
   LOCATION L0007156     VOLUME   633189.143 4175870.581 36.65
   LOCATION L0007157     VOLUME   633189.170 4175867.282 36.71
   LOCATION L0007158     VOLUME   633189.197 4175863.982 36.77
   LOCATION L0007159     VOLUME   633189.225 4175860.682 36.83
   LOCATION L0007160     VOLUME   633189.252 4175857.382 36.89
   LOCATION L0007161     VOLUME   633189.279 4175854.082 36.94
   LOCATION L0007162     VOLUME   633189.306 4175850.782 37.00
   LOCATION L0007163     VOLUME   633189.334 4175847.482 37.04
   LOCATION L0007164     VOLUME   633189.361 4175844.182 37.08
   LOCATION L0007165     VOLUME   633189.388 4175840.882 37.12
   LOCATION L0007166     VOLUME   633189.415 4175837.583 37.16
   LOCATION L0007167     VOLUME   633189.443 4175834.283 37.19
   LOCATION L0007168     VOLUME   633189.470 4175830.983 37.22
   LOCATION L0007169     VOLUME   633189.497 4175827.683 37.25
   LOCATION L0007170     VOLUME   633189.525 4175824.383 37.27
   LOCATION L0007171     VOLUME   633189.552 4175821.083 37.29
   LOCATION L0007172     VOLUME   633189.579 4175817.783 37.31
   LOCATION L0007173     VOLUME   633189.606 4175814.483 37.33
   LOCATION L0007174     VOLUME   633189.634 4175811.184 37.34
   LOCATION L0007175     VOLUME   633189.661 4175807.884 37.35
   LOCATION L0007176     VOLUME   633189.688 4175804.584 37.36
   LOCATION L0007177     VOLUME   633189.715 4175801.284 37.36
   LOCATION L0007178     VOLUME   633189.743 4175797.984 37.37
   LOCATION L0007179     VOLUME   633189.770 4175794.684 37.36
   LOCATION L0007180     VOLUME   633189.797 4175791.384 37.36
   LOCATION L0007181     VOLUME   633189.825 4175788.084 37.36
   LOCATION L0007182     VOLUME   633189.852 4175784.784 37.37
   LOCATION L0007183     VOLUME   633189.879 4175781.485 37.37
   LOCATION L0007184     VOLUME   633189.906 4175778.185 37.38
   LOCATION L0007185     VOLUME   633189.934 4175774.885 37.38
   LOCATION L0007186     VOLUME   633189.961 4175771.585 37.39
   LOCATION L0007187     VOLUME   633189.988 4175768.285 37.39
   LOCATION L0007188     VOLUME   633190.015 4175764.985 37.40
   LOCATION L0007189     VOLUME   633190.043 4175761.685 37.42
   LOCATION L0007190     VOLUME   633190.070 4175758.385 37.43
** End of LINE VOLUME Source ID = IDLING3
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = YARD
** DESCRSRC Yard truck traveling
** PREFIX
** Length of Side = 3.30
** Configuration = Adjacent
** Emission Rate = 1.0
** Vertical Dimension = 6.80
** SZINIT = 3.16
** Nodes = 8
** 632902.385, 4175835.191, 39.05, 3.40, 1.53
** 633143.010, 4175836.248, 37.47, 3.40, 1.53
** 633143.539, 4175883.844, 37.06, 3.40, 1.53
** 633169.453, 4175883.844, 36.80, 3.40, 1.53
** 633171.039, 4175763.267, 37.79, 3.40, 1.53
** 633153.059, 4175763.267, 38.19, 3.40, 1.53
** 633150.943, 4175782.306, 37.98, 3.40, 1.53
** 632900.270, 4175775.431, 38.93, 3.40, 1.53
** ----------------------------------------------------------------
   LOCATION L0007191     VOLUME   632904.035 4175835.198 39.05
   LOCATION L0007192     VOLUME   632907.335 4175835.212 39.04
   LOCATION L0007193     VOLUME   632910.635 4175835.227 39.03
   LOCATION L0007194     VOLUME   632913.935 4175835.241 39.02
   LOCATION L0007195     VOLUME   632917.235 4175835.256 39.01
   LOCATION L0007196     VOLUME   632920.535 4175835.270 39.01
   LOCATION L0007197     VOLUME   632923.835 4175835.285 38.99
   LOCATION L0007198     VOLUME   632927.135 4175835.299 38.97
   LOCATION L0007199     VOLUME   632930.435 4175835.314 38.96
   LOCATION L0007200     VOLUME   632933.735 4175835.328 38.94
   LOCATION L0007201     VOLUME   632937.035 4175835.343 38.92
   LOCATION L0007202     VOLUME   632940.335 4175835.357 38.91
   LOCATION L0007203     VOLUME   632943.635 4175835.372 38.90
   LOCATION L0007204     VOLUME   632946.935 4175835.386 38.90
   LOCATION L0007205     VOLUME   632950.235 4175835.401 38.89
   LOCATION L0007206     VOLUME   632953.535 4175835.415 38.88
   LOCATION L0007207     VOLUME   632956.835 4175835.430 38.87
   LOCATION L0007208     VOLUME   632960.135 4175835.444 38.86
   LOCATION L0007209     VOLUME   632963.435 4175835.459 38.84
   LOCATION L0007210     VOLUME   632966.735 4175835.473 38.82
   LOCATION L0007211     VOLUME   632970.035 4175835.488 38.79
   LOCATION L0007212     VOLUME   632973.335 4175835.502 38.76
   LOCATION L0007213     VOLUME   632976.635 4175835.517 38.73
   LOCATION L0007214     VOLUME   632979.935 4175835.531 38.70
   LOCATION L0007215     VOLUME   632983.235 4175835.546 38.67
   LOCATION L0007216     VOLUME   632986.535 4175835.560 38.63
   LOCATION L0007217     VOLUME   632989.835 4175835.575 38.61
   LOCATION L0007218     VOLUME   632993.134 4175835.589 38.58
   LOCATION L0007219     VOLUME   632996.434 4175835.604 38.55
   LOCATION L0007220     VOLUME   632999.734 4175835.618 38.53
   LOCATION L0007221     VOLUME   633003.034 4175835.633 38.51
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LOCATION L0007222     VOLUME   633006.334 4175835.647 38.49
LOCATION L0007223     VOLUME   633009.634 4175835.662 38.47
LOCATION L0007224     VOLUME   633012.934 4175835.677 38.46
LOCATION L0007225     VOLUME   633016.234 4175835.691 38.44
LOCATION L0007226     VOLUME   633019.534 4175835.706 38.43
LOCATION L0007227     VOLUME   633022.834 4175835.720 38.42
LOCATION L0007228     VOLUME   633026.134 4175835.735 38.40
LOCATION L0007229     VOLUME   633029.434 4175835.749 38.38
LOCATION L0007230     VOLUME   633032.734 4175835.764 38.36
LOCATION L0007231     VOLUME   633036.034 4175835.778 38.34
LOCATION L0007232     VOLUME   633039.334 4175835.793 38.32
LOCATION L0007233     VOLUME   633042.634 4175835.807 38.30
LOCATION L0007234     VOLUME   633045.934 4175835.822 38.27
LOCATION L0007235     VOLUME   633049.234 4175835.836 38.25
LOCATION L0007236     VOLUME   633052.534 4175835.851 38.22
LOCATION L0007237     VOLUME   633055.834 4175835.865 38.18
LOCATION L0007238     VOLUME   633059.134 4175835.880 38.15
LOCATION L0007239     VOLUME   633062.434 4175835.894 38.11
LOCATION L0007240     VOLUME   633065.734 4175835.909 38.07
LOCATION L0007241     VOLUME   633069.034 4175835.923 38.03
LOCATION L0007242     VOLUME   633072.334 4175835.938 37.98
LOCATION L0007243     VOLUME   633075.634 4175835.952 37.93
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** Line Source Represented by Adjacent Volume Sources
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** DESCRSRC Yard Forklift
** PREFIX
** Length of Side = 2.25
** Configuration = Adjacent
** Emission Rate = 1.0
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LOCATION L0011640 VOLUME 633163.486 4175854.311 37.17
LOCATION L0011641 VOLUME 633163.566 4175852.062 37.21
LOCATION L0011642 VOLUME 633163.646 4175849.813 37.24
LOCATION L0011643 VOLUME 633163.726 4175847.565 37.27
LOCATION L0011644 VOLUME 633163.806 4175845.316 37.30
LOCATION L0011645 VOLUME 633163.886 4175843.068 37.33
LOCATION L0011646 VOLUME 633163.966 4175840.819 37.37
LOCATION L0011647 VOLUME 633164.046 4175838.571 37.40
LOCATION L0011648 VOLUME 633164.126 4175836.322 37.42
LOCATION L0011649 VOLUME 633164.206 4175834.073 37.45
LOCATION L0011650 VOLUME 633164.286 4175831.825 37.47
LOCATION L0011651 VOLUME 633164.366 4175829.576 37.50
LOCATION L0011652 VOLUME 633164.446 4175827.328 37.52
LOCATION L0011653 VOLUME 633164.526 4175825.079 37.54
LOCATION L0011654 VOLUME 633164.606 4175822.830 37.56
LOCATION L0011655 VOLUME 633164.686 4175820.582 37.58
LOCATION L0011656 VOLUME 633164.766 4175818.333 37.59
LOCATION L0011657 VOLUME 633164.845 4175816.085 37.61
LOCATION L0011658 VOLUME 633164.925 4175813.836 37.62
LOCATION L0011659 VOLUME 633165.005 4175811.588 37.64
LOCATION L0011660 VOLUME 633165.085 4175809.339 37.65
LOCATION L0011661 VOLUME 633165.165 4175807.090 37.67
LOCATION L0011662 VOLUME 633165.245 4175804.842 37.68
LOCATION L0011663 VOLUME 633165.325 4175802.593 37.69
LOCATION L0011664 VOLUME 633165.405 4175800.345 37.70
LOCATION L0011665 VOLUME 633165.485 4175798.096 37.71
LOCATION L0011666 VOLUME 633165.565 4175795.848 37.71
LOCATION L0011667 VOLUME 633165.645 4175793.599 37.72
LOCATION L0011668 VOLUME 633165.725 4175791.350 37.73
LOCATION L0011669 VOLUME 633165.805 4175789.102 37.73
LOCATION L0011670 VOLUME 633165.885 4175786.853 37.74
LOCATION L0011671 VOLUME 633165.965 4175784.605 37.75
LOCATION L0011672 VOLUME 633166.045 4175782.356 37.75
LOCATION L0011673 VOLUME 633166.125 4175780.107 37.75
LOCATION L0011674 VOLUME 633166.205 4175777.859 37.76
LOCATION L0011675 VOLUME 633166.285 4175775.610 37.78
LOCATION L0011676 VOLUME 633166.365 4175773.362 37.82
LOCATION L0011677 VOLUME 633166.445 4175771.113 37.85
LOCATION L0011678 VOLUME 633165.255 4175770.306 37.89
LOCATION L0011679 VOLUME 633163.034 4175770.670 37.93
LOCATION L0011680 VOLUME 633160.814 4175771.033 37.98
LOCATION L0011681 VOLUME 633158.593 4175771.397 38.02
LOCATION L0011682 VOLUME 633156.373 4175771.760 38.06

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LOCATION L0011683     VOLUME   633155.226 4175773.126 38.07
LOCATION L0011684     VOLUME   633155.015 4175775.366 38.04
LOCATION L0011685     VOLUME   633154.805 4175777.606 38.02
LOCATION L0011686     VOLUME   633154.594 4175779.846 37.99
LOCATION L0011687     VOLUME   633154.384 4175782.086 37.97
LOCATION L0011688     VOLUME   633154.174 4175784.326 37.95
LOCATION L0011689     VOLUME   633153.963 4175786.566 37.93
LOCATION L0011690     VOLUME   633153.753 4175788.807 37.91
LOCATION L0011691     VOLUME   633152.226 4175789.569 37.93
LOCATION L0011692     VOLUME   633149.976 4175789.520 37.96
LOCATION L0011693     VOLUME   633147.727 4175789.471 38.01
LOCATION L0011694     VOLUME   633145.478 4175789.422 38.05
LOCATION L0011695     VOLUME   633143.228 4175789.373 38.09
LOCATION L0011696     VOLUME   633140.979 4175789.324 38.13
LOCATION L0011697     VOLUME   633138.729 4175789.275 38.17
LOCATION L0011698     VOLUME   633136.480 4175789.226 38.21
LOCATION L0011699     VOLUME   633134.230 4175789.178 38.25
LOCATION L0011700     VOLUME   633131.981 4175789.129 38.28
LOCATION L0011701     VOLUME   633129.731 4175789.080 38.31
LOCATION L0011702     VOLUME   633127.482 4175789.031 38.34
LOCATION L0011703     VOLUME   633125.232 4175788.982 38.37
LOCATION L0011704     VOLUME   633122.983 4175788.933 38.39
LOCATION L0011705     VOLUME   633120.733 4175788.884 38.41
LOCATION L0011706     VOLUME   633118.484 4175788.835 38.43
LOCATION L0011707     VOLUME   633116.234 4175788.786 38.45
LOCATION L0011708     VOLUME   633113.985 4175788.738 38.47
LOCATION L0011709     VOLUME   633111.736 4175788.689 38.48
LOCATION L0011710     VOLUME   633109.486 4175788.640 38.50
LOCATION L0011711     VOLUME   633107.237 4175788.591 38.52
LOCATION L0011712     VOLUME   633104.987 4175788.542 38.54
LOCATION L0011713     VOLUME   633102.738 4175788.493 38.55
LOCATION L0011714     VOLUME   633100.488 4175788.444 38.57
LOCATION L0011715     VOLUME   633098.239 4175788.395 38.58
LOCATION L0011716     VOLUME   633095.989 4175788.346 38.60
LOCATION L0011717     VOLUME   633093.740 4175788.298 38.62
LOCATION L0011718     VOLUME   633091.490 4175788.249 38.62
LOCATION L0011719     VOLUME   633089.241 4175788.200 38.62
LOCATION L0011720     VOLUME   633086.991 4175788.151 38.63
LOCATION L0011721     VOLUME   633084.742 4175788.102 38.63
LOCATION L0011722     VOLUME   633082.492 4175788.053 38.62
LOCATION L0011723     VOLUME   633080.243 4175788.004 38.61
LOCATION L0011724     VOLUME   633077.993 4175787.955 38.60
LOCATION L0011725     VOLUME   633075.744 4175787.906 38.59
LOCATION L0011726     VOLUME   633073.495 4175787.858 38.59
LOCATION L0011727     VOLUME   633071.245 4175787.809 38.58
LOCATION L0011728     VOLUME   633068.996 4175787.760 38.58
LOCATION L0011729     VOLUME   633066.746 4175787.711 38.58
LOCATION L0011730     VOLUME   633064.497 4175787.662 38.58
LOCATION L0011731     VOLUME   633062.247 4175787.613 38.59
LOCATION L0011732     VOLUME   633059.998 4175787.564 38.59
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LOCATION L0011733 VOLUME 633057.748 4175787.515 38.60
LOCATION L0011734 VOLUME 633055.499 4175787.466 38.61
LOCATION L0011735 VOLUME 633053.249 4175787.418 38.62
LOCATION L0011736 VOLUME 633051.000 4175787.369 38.63
LOCATION L0011737 VOLUME 633048.750 4175787.320 38.65
LOCATION L0011738 VOLUME 633046.501 4175787.271 38.66
LOCATION L0011739 VOLUME 633044.251 4175787.222 38.68
LOCATION L0011740 VOLUME 633042.002 4175787.173 38.70
LOCATION L0011741 VOLUME 633039.753 4175787.124 38.72
LOCATION L0011742 VOLUME 633037.503 4175787.075 38.74
LOCATION L0011743 VOLUME 633035.254 4175787.026 38.76
LOCATION L0011744 VOLUME 633033.004 4175786.978 38.78
LOCATION L0011745 VOLUME 633030.755 4175786.929 38.79
LOCATION L0011746 VOLUME 633028.505 4175786.880 38.81
LOCATION L0011747 VOLUME 633026.256 4175786.831 38.82
LOCATION L0011748 VOLUME 633024.006 4175786.782 38.83
LOCATION L0011749 VOLUME 633021.757 4175786.733 38.84
LOCATION L0011750 VOLUME 633019.507 4175786.684 38.86
LOCATION L0011751 VOLUME 633017.258 4175786.635 38.86
LOCATION L0011752 VOLUME 633015.008 4175786.586 38.87
LOCATION L0011753 VOLUME 633012.759 4175786.538 38.87
LOCATION L0011754 VOLUME 633010.509 4175786.489 38.87
LOCATION L0011755 VOLUME 633008.260 4175786.440 38.87
LOCATION L0011756 VOLUME 633006.010 4175786.391 38.87
LOCATION L0011757 VOLUME 633003.761 4175786.342 38.87
LOCATION L0011758 VOLUME 633001.512 4175786.293 38.87
LOCATION L0011759 VOLUME 632999.262 4175786.244 38.86
LOCATION L0011760 VOLUME 632997.013 4175786.195 38.86
LOCATION L0011761 VOLUME 632994.763 4175786.146 38.85
LOCATION L0011762 VOLUME 632992.514 4175786.098 38.85
LOCATION L0011763 VOLUME 632990.264 4175786.049 38.85
LOCATION L0011764 VOLUME 632988.015 4175786.000 38.85
LOCATION L0011765 VOLUME 632985.765 4175785.951 38.85
LOCATION L0011766 VOLUME 632983.516 4175785.902 38.85
LOCATION L0011767 VOLUME 632981.266 4175785.853 38.85
LOCATION L0011768 VOLUME 632979.017 4175785.804 38.85
LOCATION L0011769 VOLUME 632976.767 4175785.755 38.85
LOCATION L0011770 VOLUME 632974.518 4175785.707 38.84
LOCATION L0011771 VOLUME 632972.268 4175785.658 38.84
LOCATION L0011772 VOLUME 632970.019 4175785.609 38.84
LOCATION L0011773 VOLUME 632967.770 4175785.560 38.83
LOCATION L0011774 VOLUME 632965.520 4175785.511 38.83
LOCATION L0011775 VOLUME 632963.271 4175785.462 38.82
LOCATION L0011776 VOLUME 632961.021 4175785.413 38.82
LOCATION L0011777 VOLUME 632958.772 4175785.364 38.82
LOCATION L0011778 VOLUME 632956.522 4175785.315 38.82
LOCATION L0011779 VOLUME 632954.273 4175785.267 38.82
LOCATION L0011780 VOLUME 632952.023 4175785.218 38.81
LOCATION L0011781 VOLUME 632949.774 4175785.169 38.81
LOCATION L0011782 VOLUME 632947.524 4175785.120 38.80

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   LOCATION L0011783     VOLUME   632945.275 4175785.071 38.80
   LOCATION L0011784     VOLUME   632943.025 4175785.022 38.80
   LOCATION L0011785     VOLUME   632940.776 4175784.973 38.80
   LOCATION L0011786     VOLUME   632938.526 4175784.924 38.81
   LOCATION L0011787     VOLUME   632936.277 4175784.875 38.81
   LOCATION L0011788     VOLUME   632934.027 4175784.827 38.81
   LOCATION L0011789     VOLUME   632931.778 4175784.778 38.82
   LOCATION L0011790     VOLUME   632929.529 4175784.729 38.82
   LOCATION L0011791     VOLUME   632927.279 4175784.680 38.82
   LOCATION L0011792     VOLUME   632925.030 4175784.631 38.82
   LOCATION L0011793     VOLUME   632922.780 4175784.582 38.82
   LOCATION L0011794     VOLUME   632920.531 4175784.533 38.82
   LOCATION L0011795     VOLUME   632918.281 4175784.484 38.82
   LOCATION L0011796     VOLUME   632916.032 4175784.435 38.82
   LOCATION L0011797     VOLUME   632913.782 4175784.387 38.82
   LOCATION L0011798     VOLUME   632911.533 4175784.338 38.82
   LOCATION L0011799     VOLUME   632909.283 4175784.289 38.82
   LOCATION L0011800     VOLUME   632907.034 4175784.240 38.82
   LOCATION L0011801     VOLUME   632904.784 4175784.191 38.83
   LOCATION L0011802     VOLUME   632902.535 4175784.142 38.83
   LOCATION L0011803     VOLUME   632900.285 4175784.093 38.84
** End of LINE VOLUME Source ID = FORK
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = ONSITE
** DESCRSRC On-site truck travel
** PREFIX
** Length of Side = 9.30
** Configuration = Adjacent
** Emission Rate = 1.0
** Vertical Dimension = 6.80
** SZINIT = 3.16
** Nodes = 10
** 633137.046, 4175992.826, 36.53, 3.40, 4.33
** 633141.644, 4175838.798, 37.47, 3.40, 4.33
** 632900.257, 4175838.032, 39.05, 3.40, 4.33
** 632898.724, 4175769.064, 39.12, 3.40, 4.33
** 633140.878, 4175775.961, 38.29, 3.40, 4.33
** 633142.410, 4175759.868, 38.48, 3.40, 4.33
** 633173.829, 4175762.167, 37.76, 3.40, 4.33
** 633168.465, 4175893.973, 36.72, 3.40, 4.33
** 633143.177, 4175893.206, 37.06, 3.40, 4.33
** 633140.878, 4175993.593, 36.47, 3.40, 4.33
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   LOCATION L0007410     VOLUME   633137.185 4175988.178 36.54
   LOCATION L0007411     VOLUME   633137.462 4175978.883 36.62
   LOCATION L0007412     VOLUME   633137.740 4175969.587 36.71
   LOCATION L0007413     VOLUME   633138.017 4175960.291 36.81
   LOCATION L0007414     VOLUME   633138.295 4175950.995 36.89
   LOCATION L0007415     VOLUME   633138.572 4175941.699 36.97
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LOCATION L0007416 VOLUME 633138.850 4175932.403 37.05
LOCATION L0007417 VOLUME 633139.127 4175923.107 37.10
LOCATION L0007418 VOLUME 633139.405 4175913.812 37.12
LOCATION L0007419 VOLUME 633139.682 4175904.516 37.13
LOCATION L0007420 VOLUME 633139.960 4175895.220 37.14
LOCATION L0007421 VOLUME 633140.237 4175885.924 37.12
LOCATION L0007422 VOLUME 633140.515 4175876.628 37.09
LOCATION L0007423 VOLUME 633140.792 4175867.332 37.11
LOCATION L0007424 VOLUME 633141.070 4175858.036 37.20
LOCATION L0007425 VOLUME 633141.347 4175848.741 37.32
LOCATION L0007426 VOLUME 633141.625 4175839.445 37.45
LOCATION L0007427 VOLUME 633132.991 4175838.771 37.48
LOCATION L0007428 VOLUME 633123.691 4175838.741 37.49
LOCATION L0007429 VOLUME 633114.391 4175838.712 37.52
LOCATION L0007430 VOLUME 633105.091 4175838.682 37.56
LOCATION L0007431 VOLUME 633095.791 4175838.653 37.62
LOCATION L0007432 VOLUME 633086.491 4175838.623 37.71
LOCATION L0007433 VOLUME 633077.191 4175838.594 37.86
LOCATION L0007434 VOLUME 633067.891 4175838.564 38.01
LOCATION L0007435 VOLUME 633058.591 4175838.535 38.13
LOCATION L0007436 VOLUME 633049.291 4175838.505 38.22
LOCATION L0007437 VOLUME 633039.991 4175838.476 38.30
LOCATION L0007438 VOLUME 633030.691 4175838.446 38.36
LOCATION L0007439 VOLUME 633021.391 4175838.417 38.40
LOCATION L0007440 VOLUME 633012.091 4175838.387 38.45
LOCATION L0007441 VOLUME 633002.791 4175838.357 38.51
LOCATION L0007442 VOLUME 632993.491 4175838.328 38.57
LOCATION L0007443 VOLUME 632984.191 4175838.298 38.66
LOCATION L0007444 VOLUME 632974.891 4175838.269 38.75
LOCATION L0007445 VOLUME 632965.591 4175838.239 38.83
LOCATION L0007446 VOLUME 632956.292 4175838.210 38.88
LOCATION L0007447 VOLUME 632946.992 4175838.180 38.90
LOCATION L0007448 VOLUME 632937.692 4175838.151 38.93
LOCATION L0007449 VOLUME 632928.392 4175838.121 38.98
LOCATION L0007450 VOLUME 632919.092 4175838.092 39.02
LOCATION L0007451 VOLUME 632909.792 4175838.062 39.05
LOCATION L0007452 VOLUME 632900.492 4175838.033 39.08
LOCATION L0007453 VOLUME 632900.055 4175828.969 39.01
LOCATION L0007454 VOLUME 632899.849 4175819.672 38.92
LOCATION L0007455 VOLUME 632899.642 4175810.374 38.85
LOCATION L0007456 VOLUME 632899.435 4175801.076 38.83
LOCATION L0007457 VOLUME 632899.229 4175791.779 38.81
LOCATION L0007458 VOLUME 632899.022 4175782.481 38.85
LOCATION L0007459 VOLUME 632898.816 4175773.183 38.93
LOCATION L0007460 VOLUME 632903.902 4175769.212 38.98
LOCATION L0007461 VOLUME 632913.198 4175769.476 38.97
LOCATION L0007462 VOLUME 632922.494 4175769.741 38.97
LOCATION L0007463 VOLUME 632931.791 4175770.006 38.96
LOCATION L0007464 VOLUME 632941.087 4175770.271 38.96
LOCATION L0007465 VOLUME 632950.383 4175770.535 38.97

LOCATION L0007466 VOLUME 632959.679 4175770.800 38.98
LOCATION L0007467 VOLUME 632968.975 4175771.065 38.99
LOCATION L0007468 VOLUME 632978.272 4175771.330 39.00
LOCATION L0007469 VOLUME 632987.568 4175771.595 39.01
LOCATION L0007470 VOLUME 632996.864 4175771.859 39.02
LOCATION L0007471 VOLUME 633006.160 4175772.124 39.03
LOCATION L0007472 VOLUME 633015.457 4175772.389 39.00
LOCATION L0007473 VOLUME 633024.753 4175772.654 38.95
LOCATION L0007474 VOLUME 633034.049 4175772.918 38.89
LOCATION L0007475 VOLUME 633043.345 4175773.183 38.81
LOCATION L0007476 VOLUME 633052.642 4175773.448 38.72
LOCATION L0007477 VOLUME 633061.938 4175773.713 38.68
LOCATION L0007478 VOLUME 633071.234 4175773.977 38.70
LOCATION L0007479 VOLUME 633080.530 4175774.242 38.77
LOCATION L0007480 VOLUME 633089.826 4175774.507 38.83
LOCATION L0007481 VOLUME 633099.123 4175774.772 38.82
LOCATION L0007482 VOLUME 633108.419 4175775.037 38.76
LOCATION L0007483 VOLUME 633117.715 4175775.301 38.68
LOCATION L0007484 VOLUME 633127.011 4175775.566 38.55
LOCATION L0007485 VOLUME 633136.308 4175775.831 38.40
LOCATION L0007486 VOLUME 633141.326 4175771.254 38.36
LOCATION L0007487 VOLUME 633142.208 4175761.996 38.44
LOCATION L0007488 VOLUME 633149.554 4175760.391 38.31
LOCATION L0007489 VOLUME 633158.829 4175761.070 38.12
LOCATION L0007490 VOLUME 633168.104 4175761.749 37.92
LOCATION L0007491 VOLUME 633173.684 4175765.725 37.77
LOCATION L0007492 VOLUME 633173.306 4175775.017 37.67
LOCATION L0007493 VOLUME 633172.928 4175784.309 37.64
LOCATION L0007494 VOLUME 633172.550 4175793.602 37.63
LOCATION L0007495 VOLUME 633172.171 4175802.894 37.61
LOCATION L0007496 VOLUME 633171.793 4175812.186 37.57
LOCATION L0007497 VOLUME 633171.415 4175821.479 37.52
LOCATION L0007498 VOLUME 633171.037 4175830.771 37.44
LOCATION L0007499 VOLUME 633170.659 4175840.063 37.34
LOCATION L0007500 VOLUME 633170.281 4175849.355 37.20
LOCATION L0007501 VOLUME 633169.902 4175858.648 37.06
LOCATION L0007502 VOLUME 633169.524 4175867.940 36.93
LOCATION L0007503 VOLUME 633169.146 4175877.232 36.83
LOCATION L0007504 VOLUME 633168.768 4175886.525 36.73
LOCATION L0007505 VOLUME 633166.620 4175893.917 36.71
LOCATION L0007506 VOLUME 633157.324 4175893.635 36.88
LOCATION L0007507 VOLUME 633148.028 4175893.353 37.01
LOCATION L0007508 VOLUME 633143.075 4175897.651 37.09
LOCATION L0007509 VOLUME 633142.862 4175906.949 37.07
LOCATION L0007510 VOLUME 633142.649 4175916.246 37.05
LOCATION L0007511 VOLUME 633142.436 4175925.544 37.03
LOCATION L0007512 VOLUME 633142.223 4175934.842 36.98
LOCATION L0007513 VOLUME 633142.010 4175944.139 36.90
LOCATION L0007514 VOLUME 633141.797 4175953.437 36.82
LOCATION L0007515 VOLUME 633141.584 4175962.734 36.74

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   LOCATION L0007516     VOLUME   633141.371 4175972.032 36.65
   LOCATION L0007517     VOLUME   633141.158 4175981.329 36.56
   LOCATION L0007518     VOLUME   633140.946 4175990.627 36.49
** End of LINE VOLUME Source ID = ONSITE
   LOCATION PUMP         POINT      632874.610  4175778.670       38.970
** DESCRSRC Diesel-fueled fire pump
   LOCATION TANK         POINT      632878.330  4175776.452       38.980
** DESCRSRC Diesel tank working and breathing loss
** Source Parameters **
** LINE VOLUME Source ID = OFFSITE1
   SRCPARAM L0006118     0.0044052863      3.40      4.33      3.16
   SRCPARAM L0006119     0.0044052863      3.40      4.33      3.16
   SRCPARAM L0006120     0.0044052863      3.40      4.33      3.16
   SRCPARAM L0006121     0.0044052863      3.40      4.33      3.16
   SRCPARAM L0006122     0.0044052863      3.40      4.33      3.16
   SRCPARAM L0006123     0.0044052863      3.40      4.33      3.16
   SRCPARAM L0006124     0.0044052863      3.40      4.33      3.16
   SRCPARAM L0006125     0.0044052863      3.40      4.33      3.16
   SRCPARAM L0006126     0.0044052863      3.40      4.33      3.16
   SRCPARAM L0006127     0.0044052863      3.40      4.33      3.16
   SRCPARAM L0006128     0.0044052863      3.40      4.33      3.16
   SRCPARAM L0006129     0.0044052863      3.40      4.33      3.16
   SRCPARAM L0006130     0.0044052863      3.40      4.33      3.16
   SRCPARAM L0006131     0.0044052863      3.40      4.33      3.16
   SRCPARAM L0006132     0.0044052863      3.40      4.33      3.16
   SRCPARAM L0006133     0.0044052863      3.40      4.33      3.16
   SRCPARAM L0006134     0.0044052863      3.40      4.33      3.16
   SRCPARAM L0006135     0.0044052863      3.40      4.33      3.16
   SRCPARAM L0006136     0.0044052863      3.40      4.33      3.16
   SRCPARAM L0006137     0.0044052863      3.40      4.33      3.16
   SRCPARAM L0006138     0.0044052863      3.40      4.33      3.16
   SRCPARAM L0006139     0.0044052863      3.40      4.33      3.16
   SRCPARAM L0006140     0.0044052863      3.40      4.33      3.16
   SRCPARAM L0006141     0.0044052863      3.40      4.33      3.16
   SRCPARAM L0006142     0.0044052863      3.40      4.33      3.16
   SRCPARAM L0006143     0.0044052863      3.40      4.33      3.16
   SRCPARAM L0006144     0.0044052863      3.40      4.33      3.16
   SRCPARAM L0006145     0.0044052863      3.40      4.33      3.16
   SRCPARAM L0006146     0.0044052863      3.40      4.33      3.16
   SRCPARAM L0006147     0.0044052863      3.40      4.33      3.16
   SRCPARAM L0006148     0.0044052863      3.40      4.33      3.16
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   SRCPARAM L0006980     0.0040322581      3.40      4.33      3.16
   SRCPARAM L0006981     0.0040322581      3.40      4.33      3.16
   SRCPARAM L0006982     0.0040322581      3.40      4.33      3.16
   SRCPARAM L0006983     0.0040322581      3.40      4.33      3.16
   SRCPARAM L0006984     0.0040322581      3.40      4.33      3.16
   SRCPARAM L0006985     0.0040322581      3.40      4.33      3.16
   SRCPARAM L0006986     0.0040322581      3.40      4.33      3.16
   SRCPARAM L0006987     0.0040322581      3.40      4.33      3.16
   SRCPARAM L0006988     0.0040322581      3.40      4.33      3.16
   SRCPARAM L0006989     0.0040322581      3.40      4.33      3.16
   SRCPARAM L0006990     0.0040322581      3.40      4.33      3.16
   SRCPARAM L0006991     0.0040322581      3.40      4.33      3.16
   SRCPARAM L0006992     0.0040322581      3.40      4.33      3.16
   SRCPARAM L0006993     0.0040322581      3.40      4.33      3.16
   SRCPARAM L0006994     0.0040322581      3.40      4.33      3.16
   SRCPARAM L0006995     0.0040322581      3.40      4.33      3.16
   SRCPARAM L0006996     0.0040322581      3.40      4.33      3.16
   SRCPARAM L0006997     0.0040322581      3.40      4.33      3.16
** ------------------------------------------------------------------
** LINE VOLUME Source ID = OFFSITE5
   SRCPARAM L0006998     0.0243902439      0.00      4.33      3.16
   SRCPARAM L0006999     0.0243902439      0.00      4.33      3.16
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   SRCPARAM L0007000     0.0243902439      0.00      4.33      3.16
   SRCPARAM L0007001     0.0243902439      0.00      4.33      3.16
   SRCPARAM L0007002     0.0243902439      0.00      4.33      3.16
   SRCPARAM L0007003     0.0243902439      0.00      4.33      3.16
   SRCPARAM L0007004     0.0243902439      0.00      4.33      3.16
   SRCPARAM L0007005     0.0243902439      0.00      4.33      3.16
   SRCPARAM L0007006     0.0243902439      0.00      4.33      3.16
   SRCPARAM L0007007     0.0243902439      0.00      4.33      3.16
   SRCPARAM L0007008     0.0243902439      0.00      4.33      3.16
   SRCPARAM L0007009     0.0243902439      0.00      4.33      3.16
   SRCPARAM L0007010     0.0243902439      0.00      4.33      3.16
   SRCPARAM L0007011     0.0243902439      0.00      4.33      3.16
   SRCPARAM L0007012     0.0243902439      0.00      4.33      3.16
   SRCPARAM L0007013     0.0243902439      0.00      4.33      3.16
   SRCPARAM L0007014     0.0243902439      0.00      4.33      3.16
   SRCPARAM L0007015     0.0243902439      0.00      4.33      3.16
   SRCPARAM L0007016     0.0243902439      0.00      4.33      3.16
   SRCPARAM L0007017     0.0243902439      0.00      4.33      3.16
   SRCPARAM L0007018     0.0243902439      0.00      4.33      3.16
   SRCPARAM L0007019     0.0243902439      0.00      4.33      3.16
   SRCPARAM L0007020     0.0243902439      0.00      4.33      3.16
   SRCPARAM L0007021     0.0243902439      0.00      4.33      3.16
   SRCPARAM L0007022     0.0243902439      0.00      4.33      3.16
   SRCPARAM L0007023     0.0243902439      0.00      4.33      3.16
   SRCPARAM L0007024     0.0243902439      0.00      4.33      3.16
   SRCPARAM L0007025     0.0243902439      0.00      4.33      3.16
   SRCPARAM L0007026     0.0243902439      0.00      4.33      3.16
   SRCPARAM L0007027     0.0243902439      0.00      4.33      3.16
   SRCPARAM L0007028     0.0243902439      0.00      4.33      3.16
   SRCPARAM L0007029     0.0243902439      0.00      4.33      3.16
   SRCPARAM L0007030     0.0243902439      0.00      4.33      3.16
   SRCPARAM L0007031     0.0243902439      0.00      4.33      3.16
   SRCPARAM L0007032     0.0243902439      0.00      4.33      3.16
   SRCPARAM L0007033     0.0243902439      0.00      4.33      3.16
   SRCPARAM L0007034     0.0243902439      0.00      4.33      3.16
   SRCPARAM L0007035     0.0243902439      0.00      4.33      3.16
   SRCPARAM L0007036     0.0243902439      0.00      4.33      3.16
   SRCPARAM L0007037     0.0243902439      0.00      4.33      3.16
   SRCPARAM L0007038     0.0243902439      0.00      4.33      3.16
** ------------------------------------------------------------------
** LINE VOLUME Source ID = IDLING1
   SRCPARAM L0007039     0.0178571429      4.00      1.53      3.16
   SRCPARAM L0007040     0.0178571429      4.00      1.53      3.16
   SRCPARAM L0007041     0.0178571429      4.00      1.53      3.16
   SRCPARAM L0007042     0.0178571429      4.00      1.53      3.16
   SRCPARAM L0007043     0.0178571429      4.00      1.53      3.16
   SRCPARAM L0007044     0.0178571429      4.00      1.53      3.16
   SRCPARAM L0007045     0.0178571429      4.00      1.53      3.16
   SRCPARAM L0007046     0.0178571429      4.00      1.53      3.16
   SRCPARAM L0007047     0.0178571429      4.00      1.53      3.16
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   SRCPARAM L0007048     0.0178571429      4.00      1.53      3.16
   SRCPARAM L0007049     0.0178571429      4.00      1.53      3.16
   SRCPARAM L0007050     0.0178571429      4.00      1.53      3.16
   SRCPARAM L0007051     0.0178571429      4.00      1.53      3.16
   SRCPARAM L0007052     0.0178571429      4.00      1.53      3.16
   SRCPARAM L0007053     0.0178571429      4.00      1.53      3.16
   SRCPARAM L0007054     0.0178571429      4.00      1.53      3.16
   SRCPARAM L0007055     0.0178571429      4.00      1.53      3.16
   SRCPARAM L0007056     0.0178571429      4.00      1.53      3.16
   SRCPARAM L0007057     0.0178571429      4.00      1.53      3.16
   SRCPARAM L0007058     0.0178571429      4.00      1.53      3.16
   SRCPARAM L0007059     0.0178571429      4.00      1.53      3.16
   SRCPARAM L0007060     0.0178571429      4.00      1.53      3.16
   SRCPARAM L0007061     0.0178571429      4.00      1.53      3.16
   SRCPARAM L0007062     0.0178571429      4.00      1.53      3.16
   SRCPARAM L0007063     0.0178571429      4.00      1.53      3.16
   SRCPARAM L0007064     0.0178571429      4.00      1.53      3.16
   SRCPARAM L0007065     0.0178571429      4.00      1.53      3.16
   SRCPARAM L0007066     0.0178571429      4.00      1.53      3.16
   SRCPARAM L0007067     0.0178571429      4.00      1.53      3.16
   SRCPARAM L0007068     0.0178571429      4.00      1.53      3.16
   SRCPARAM L0007069     0.0178571429      4.00      1.53      3.16
   SRCPARAM L0007070     0.0178571429      4.00      1.53      3.16
   SRCPARAM L0007071     0.0178571429      4.00      1.53      3.16
   SRCPARAM L0007072     0.0178571429      4.00      1.53      3.16
   SRCPARAM L0007073     0.0178571429      4.00      1.53      3.16
   SRCPARAM L0007074     0.0178571429      4.00      1.53      3.16
   SRCPARAM L0007075     0.0178571429      4.00      1.53      3.16
   SRCPARAM L0007076     0.0178571429      4.00      1.53      3.16
   SRCPARAM L0007077     0.0178571429      4.00      1.53      3.16
   SRCPARAM L0007078     0.0178571429      4.00      1.53      3.16
   SRCPARAM L0007079     0.0178571429      4.00      1.53      3.16
   SRCPARAM L0007080     0.0178571429      4.00      1.53      3.16
   SRCPARAM L0007081     0.0178571429      4.00      1.53      3.16
   SRCPARAM L0007082     0.0178571429      4.00      1.53      3.16
   SRCPARAM L0007083     0.0178571429      4.00      1.53      3.16
   SRCPARAM L0007084     0.0178571429      4.00      1.53      3.16
   SRCPARAM L0007085     0.0178571429      4.00      1.53      3.16
   SRCPARAM L0007086     0.0178571429      4.00      1.53      3.16
   SRCPARAM L0007087     0.0178571429      4.00      1.53      3.16
   SRCPARAM L0007088     0.0178571429      4.00      1.53      3.16
   SRCPARAM L0007089     0.0178571429      4.00      1.53      3.16
   SRCPARAM L0007090     0.0178571429      4.00      1.53      3.16
   SRCPARAM L0007091     0.0178571429      4.00      1.53      3.16
   SRCPARAM L0007092     0.0178571429      4.00      1.53      3.16
   SRCPARAM L0007093     0.0178571429      4.00      1.53      3.16
   SRCPARAM L0007094     0.0178571429      4.00      1.53      3.16
** ------------------------------------------------------------------
** LINE VOLUME Source ID = IDLING2
   SRCPARAM L0007095     0.0175438596      4.00      1.53      3.16
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SRCPARAM L0007096     0.0175438596      4.00      1.53      3.16
SRCPARAM L0007097     0.0175438596      4.00      1.53      3.16
SRCPARAM L0007098     0.0175438596      4.00      1.53      3.16
SRCPARAM L0007099     0.0175438596      4.00      1.53      3.16
SRCPARAM L0007100     0.0175438596      4.00      1.53      3.16
SRCPARAM L0007101     0.0175438596      4.00      1.53      3.16
SRCPARAM L0007102     0.0175438596      4.00      1.53      3.16
SRCPARAM L0007103     0.0175438596      4.00      1.53      3.16
SRCPARAM L0007104     0.0175438596      4.00      1.53      3.16
SRCPARAM L0007105     0.0175438596      4.00      1.53      3.16
SRCPARAM L0007106     0.0175438596      4.00      1.53      3.16
SRCPARAM L0007107     0.0175438596      4.00      1.53      3.16
SRCPARAM L0007108     0.0175438596      4.00      1.53      3.16
SRCPARAM L0007109     0.0175438596      4.00      1.53      3.16
SRCPARAM L0007110     0.0175438596      4.00      1.53      3.16
SRCPARAM L0007111     0.0175438596      4.00      1.53      3.16
SRCPARAM L0007112     0.0175438596      4.00      1.53      3.16
SRCPARAM L0007113     0.0175438596      4.00      1.53      3.16
SRCPARAM L0007114     0.0175438596      4.00      1.53      3.16
SRCPARAM L0007115     0.0175438596      4.00      1.53      3.16
SRCPARAM L0007116     0.0175438596      4.00      1.53      3.16
SRCPARAM L0007117     0.0175438596      4.00      1.53      3.16
SRCPARAM L0007118     0.0175438596      4.00      1.53      3.16
SRCPARAM L0007119     0.0175438596      4.00      1.53      3.16
SRCPARAM L0007120     0.0175438596      4.00      1.53      3.16
SRCPARAM L0007121     0.0175438596      4.00      1.53      3.16
SRCPARAM L0007122     0.0175438596      4.00      1.53      3.16
SRCPARAM L0007123     0.0175438596      4.00      1.53      3.16
SRCPARAM L0007124     0.0175438596      4.00      1.53      3.16
SRCPARAM L0007125     0.0175438596      4.00      1.53      3.16
SRCPARAM L0007126     0.0175438596      4.00      1.53      3.16
SRCPARAM L0007127     0.0175438596      4.00      1.53      3.16
SRCPARAM L0007128     0.0175438596      4.00      1.53      3.16
SRCPARAM L0007129     0.0175438596      4.00      1.53      3.16
SRCPARAM L0007130     0.0175438596      4.00      1.53      3.16
SRCPARAM L0007131     0.0175438596      4.00      1.53      3.16
SRCPARAM L0007132     0.0175438596      4.00      1.53      3.16
SRCPARAM L0007133     0.0175438596      4.00      1.53      3.16
SRCPARAM L0007134     0.0175438596      4.00      1.53      3.16
SRCPARAM L0007135     0.0175438596      4.00      1.53      3.16
SRCPARAM L0007136     0.0175438596      4.00      1.53      3.16
SRCPARAM L0007137     0.0175438596      4.00      1.53      3.16
SRCPARAM L0007138     0.0175438596      4.00      1.53      3.16
SRCPARAM L0007139     0.0175438596      4.00      1.53      3.16
SRCPARAM L0007140     0.0175438596      4.00      1.53      3.16
SRCPARAM L0007141     0.0175438596      4.00      1.53      3.16
SRCPARAM L0007142     0.0175438596      4.00      1.53      3.16
SRCPARAM L0007143     0.0175438596      4.00      1.53      3.16
SRCPARAM L0007144     0.0175438596      4.00      1.53      3.16
SRCPARAM L0007145     0.0175438596      4.00      1.53      3.16
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   SRCPARAM L0007146     0.0175438596      4.00      1.53      3.16
   SRCPARAM L0007147     0.0175438596      4.00      1.53      3.16
   SRCPARAM L0007148     0.0175438596      4.00      1.53      3.16
   SRCPARAM L0007149     0.0175438596      4.00      1.53      3.16
   SRCPARAM L0007150     0.0175438596      4.00      1.53      3.16
   SRCPARAM L0007151     0.0175438596      4.00      1.53      3.16
** ------------------------------------------------------------------
** LINE VOLUME Source ID = IDLING3
   SRCPARAM L0007152     0.0256410256      4.00      1.53      3.16
   SRCPARAM L0007153     0.0256410256      4.00      1.53      3.16
   SRCPARAM L0007154     0.0256410256      4.00      1.53      3.16
   SRCPARAM L0007155     0.0256410256      4.00      1.53      3.16
   SRCPARAM L0007156     0.0256410256      4.00      1.53      3.16
   SRCPARAM L0007157     0.0256410256      4.00      1.53      3.16
   SRCPARAM L0007158     0.0256410256      4.00      1.53      3.16
   SRCPARAM L0007159     0.0256410256      4.00      1.53      3.16
   SRCPARAM L0007160     0.0256410256      4.00      1.53      3.16
   SRCPARAM L0007161     0.0256410256      4.00      1.53      3.16
   SRCPARAM L0007162     0.0256410256      4.00      1.53      3.16
   SRCPARAM L0007163     0.0256410256      4.00      1.53      3.16
   SRCPARAM L0007164     0.0256410256      4.00      1.53      3.16
   SRCPARAM L0007165     0.0256410256      4.00      1.53      3.16
   SRCPARAM L0007166     0.0256410256      4.00      1.53      3.16
   SRCPARAM L0007167     0.0256410256      4.00      1.53      3.16
   SRCPARAM L0007168     0.0256410256      4.00      1.53      3.16
   SRCPARAM L0007169     0.0256410256      4.00      1.53      3.16
   SRCPARAM L0007170     0.0256410256      4.00      1.53      3.16
   SRCPARAM L0007171     0.0256410256      4.00      1.53      3.16
   SRCPARAM L0007172     0.0256410256      4.00      1.53      3.16
   SRCPARAM L0007173     0.0256410256      4.00      1.53      3.16
   SRCPARAM L0007174     0.0256410256      4.00      1.53      3.16
   SRCPARAM L0007175     0.0256410256      4.00      1.53      3.16
   SRCPARAM L0007176     0.0256410256      4.00      1.53      3.16
   SRCPARAM L0007177     0.0256410256      4.00      1.53      3.16
   SRCPARAM L0007178     0.0256410256      4.00      1.53      3.16
   SRCPARAM L0007179     0.0256410256      4.00      1.53      3.16
   SRCPARAM L0007180     0.0256410256      4.00      1.53      3.16
   SRCPARAM L0007181     0.0256410256      4.00      1.53      3.16
   SRCPARAM L0007182     0.0256410256      4.00      1.53      3.16
   SRCPARAM L0007183     0.0256410256      4.00      1.53      3.16
   SRCPARAM L0007184     0.0256410256      4.00      1.53      3.16
   SRCPARAM L0007185     0.0256410256      4.00      1.53      3.16
   SRCPARAM L0007186     0.0256410256      4.00      1.53      3.16
   SRCPARAM L0007187     0.0256410256      4.00      1.53      3.16
   SRCPARAM L0007188     0.0256410256      4.00      1.53      3.16
   SRCPARAM L0007189     0.0256410256      4.00      1.53      3.16
   SRCPARAM L0007190     0.0256410256      4.00      1.53      3.16
** ------------------------------------------------------------------
** LINE VOLUME Source ID = YARD
   SRCPARAM L0007191     0.00456621      3.40      1.53      3.16
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SRCPARAM L0007192     0.00456621      3.40      1.53      3.16
SRCPARAM L0007193     0.00456621      3.40      1.53      3.16
SRCPARAM L0007194     0.00456621      3.40      1.53      3.16
SRCPARAM L0007195     0.00456621      3.40      1.53      3.16
SRCPARAM L0007196     0.00456621      3.40      1.53      3.16
SRCPARAM L0007197     0.00456621      3.40      1.53      3.16
SRCPARAM L0007198     0.00456621      3.40      1.53      3.16
SRCPARAM L0007199     0.00456621      3.40      1.53      3.16
SRCPARAM L0007200     0.00456621      3.40      1.53      3.16
SRCPARAM L0007201     0.00456621      3.40      1.53      3.16
SRCPARAM L0007202     0.00456621      3.40      1.53      3.16
SRCPARAM L0007203     0.00456621      3.40      1.53      3.16
SRCPARAM L0007204     0.00456621      3.40      1.53      3.16
SRCPARAM L0007205     0.00456621      3.40      1.53      3.16
SRCPARAM L0007206     0.00456621      3.40      1.53      3.16
SRCPARAM L0007207     0.00456621      3.40      1.53      3.16
SRCPARAM L0007208     0.00456621      3.40      1.53      3.16
SRCPARAM L0007209     0.00456621      3.40      1.53      3.16
SRCPARAM L0007210     0.00456621      3.40      1.53      3.16
SRCPARAM L0007211     0.00456621      3.40      1.53      3.16
SRCPARAM L0007212     0.00456621      3.40      1.53      3.16
SRCPARAM L0007213     0.00456621      3.40      1.53      3.16
SRCPARAM L0007214     0.00456621      3.40      1.53      3.16
SRCPARAM L0007215     0.00456621      3.40      1.53      3.16
SRCPARAM L0007216     0.00456621      3.40      1.53      3.16
SRCPARAM L0007217     0.00456621      3.40      1.53      3.16
SRCPARAM L0007218     0.00456621      3.40      1.53      3.16
SRCPARAM L0007219     0.00456621      3.40      1.53      3.16
SRCPARAM L0007220     0.00456621      3.40      1.53      3.16
SRCPARAM L0007221     0.00456621      3.40      1.53      3.16
SRCPARAM L0007222     0.00456621      3.40      1.53      3.16
SRCPARAM L0007223     0.00456621      3.40      1.53      3.16
SRCPARAM L0007224     0.00456621      3.40      1.53      3.16
SRCPARAM L0007225     0.00456621      3.40      1.53      3.16
SRCPARAM L0007226     0.00456621      3.40      1.53      3.16
SRCPARAM L0007227     0.00456621      3.40      1.53      3.16
SRCPARAM L0007228     0.00456621      3.40      1.53      3.16
SRCPARAM L0007229     0.00456621      3.40      1.53      3.16
SRCPARAM L0007230     0.00456621      3.40      1.53      3.16
SRCPARAM L0007231     0.00456621      3.40      1.53      3.16
SRCPARAM L0007232     0.00456621      3.40      1.53      3.16
SRCPARAM L0007233     0.00456621      3.40      1.53      3.16
SRCPARAM L0007234     0.00456621      3.40      1.53      3.16
SRCPARAM L0007235     0.00456621      3.40      1.53      3.16
SRCPARAM L0007236     0.00456621      3.40      1.53      3.16
SRCPARAM L0007237     0.00456621      3.40      1.53      3.16
SRCPARAM L0007238     0.00456621      3.40      1.53      3.16
SRCPARAM L0007239     0.00456621      3.40      1.53      3.16
SRCPARAM L0007240     0.00456621      3.40      1.53      3.16
SRCPARAM L0007241     0.00456621      3.40      1.53      3.16
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SRCPARAM L0007242     0.00456621      3.40      1.53      3.16
SRCPARAM L0007243     0.00456621      3.40      1.53      3.16
SRCPARAM L0007244     0.00456621      3.40      1.53      3.16
SRCPARAM L0007245     0.00456621      3.40      1.53      3.16
SRCPARAM L0007246     0.00456621      3.40      1.53      3.16
SRCPARAM L0007247     0.00456621      3.40      1.53      3.16
SRCPARAM L0007248     0.00456621      3.40      1.53      3.16
SRCPARAM L0007249     0.00456621      3.40      1.53      3.16
SRCPARAM L0007250     0.00456621      3.40      1.53      3.16
SRCPARAM L0007251     0.00456621      3.40      1.53      3.16
SRCPARAM L0007252     0.00456621      3.40      1.53      3.16
SRCPARAM L0007253     0.00456621      3.40      1.53      3.16
SRCPARAM L0007254     0.00456621      3.40      1.53      3.16
SRCPARAM L0007255     0.00456621      3.40      1.53      3.16
SRCPARAM L0007256     0.00456621      3.40      1.53      3.16
SRCPARAM L0007257     0.00456621      3.40      1.53      3.16
SRCPARAM L0007258     0.00456621      3.40      1.53      3.16
SRCPARAM L0007259     0.00456621      3.40      1.53      3.16
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   SRCPARAM L0007514     0.0091743119      3.40      4.33      3.16
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   SRCPARAM L0007516     0.0091743119      3.40      4.33      3.16
   SRCPARAM L0007517     0.0091743119      3.40      4.33      3.16
   SRCPARAM L0007518     0.0091743119      3.40      4.33      3.16
** ------------------------------------------------------------------
   SRCPARAM PUMP               1.0     1.910   708.706  50.15525     0.150
   SRCPARAM TANK               1.0     2.000   255.372   0.00100     0.001

** Building Downwash **
   BUILDHGT PUMP           13.72    13.72    13.72     0.00     0.00    13.72
   BUILDHGT PUMP           13.72     0.00     0.00    13.72    13.72    13.72
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BUILDHGT	PUMP	13.72	13.72	13.72	13.72	13.72	13.72
BUILDHGT	PUMP	13.72	13.72	13.72	13.72	13.72	13.72
BUILDHGT	PUMP	13.72	0.00	0.00	13.72	13.72	13.72
BUILDHGT	PUMP	13.72	13.72	13.72	13.72	13.72	13.72
BUILDHGT	TANK	13.72	13.72	13.72	13.72	0.00	0.00
BUILDHGT	TANK	0.00	0.00	0.00	13.72	13.72	13.72
BUILDHGT	TANK	13.72	13.72	13.72	13.72	13.72	13.72
BUILDHGT	TANK	13.72	13.72	13.72	13.72	0.00	0.00
BUILDHGT	TANK	0.00	0.00	0.00	13.72	13.72	13.72
BUILDHGT	TANK	13.72	13.72	13.72	13.72	13.72	13.72
BUILDWID	PUMP	278.20	285.55	284.23	0.00	0.00	201.85
BUILDWID	PUMP	164.00	0.00	0.00	160.76	199.61	232.40
BUILDWID	PUMP	258.13	276.01	285.51	286.34	278.46	262.93
BUILDWID	PUMP	278.20	285.55	284.23	258.18	233.56	201.85
BUILDWID	PUMP	164.00	0.00	0.00	160.76	199.61	232.40
BUILDWID	PUMP	258.13	276.01	285.51	286.34	278.46	262.93
BUILDWID	TANK	278.20	285.55	284.23	274.26	0.00	0.00
BUILDWID	TANK	0.00	0.00	0.00	160.76	199.61	232.40
BUILDWID	TANK	258.13	276.01	285.51	286.34	278.46	262.93
BUILDWID	TANK	278.20	285.55	284.23	274.26	0.00	0.00
BUILDWID	TANK	0.00	0.00	0.00	160.76	199.61	232.40
BUILDWID	TANK	258.13	276.01	285.51	286.34	278.46	262.93
BUILDLEN	PUMP	160.76	199.61	232.40	0.00	0.00	275.97
BUILDLEN	PUMP	283.85	0.00	0.00	278.20	285.55	284.23
BUILDLEN	PUMP	274.26	255.97	229.89	196.83	157.79	117.02
BUILDLEN	PUMP	160.76	199.61	232.40	235.54	259.70	275.97
BUILDLEN	PUMP	283.85	0.00	0.00	278.20	285.55	284.23
BUILDLEN	PUMP	274.26	255.97	229.89	196.83	157.79	117.02
BUILDLEN	TANK	160.76	199.61	232.40	258.13	0.00	0.00
BUILDLEN	TANK	0.00	0.00	0.00	278.20	285.55	284.23
BUILDLEN	TANK	274.26	255.97	229.89	196.83	157.79	117.02
BUILDLEN	TANK	160.76	199.61	232.40	258.13	0.00	0.00
BUILDLEN	TANK	0.00	0.00	0.00	278.20	285.55	284.23
BUILDLEN	TANK	274.26	255.97	229.89	196.83	157.79	117.02
XBADJ	PUMP	-139.39	-134.63	-125.79	0.00	0.00	21.66
XBADJ	PUMP	9.80	0.00	0.00	-4.50	-0.14	4.21
XBADJ	PUMP	8.44	12.41	16.01	19.11	21.64	22.89
XBADJ	PUMP	-21.37	-64.98	-106.62	-278.61	-292.57	-297.63
XBADJ	PUMP	-293.65	0.00	0.00	-273.71	-285.41	-288.44
XBADJ	PUMP	-282.70	-268.38	-245.90	-215.95	-179.43	-139.91
XBADJ	TANK	-137.85	-133.82	-125.72	-113.81	0.00	0.00
XBADJ	TANK	0.00	0.00	0.00	-8.54	-4.40	-0.12
XBADJ	TANK	4.16	8.32	12.22	15.75	18.81	20.67

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XBADJ    TANK          -22.91   -65.79  -106.68  -144.32     0.00     0.00
XBADJ    TANK            0.00     0.00     0.00  -269.66  -281.15  -284.11
XBADJ    TANK         -278.43  -264.29  -242.11  -212.59  -176.60  -137.69

YBADJ    PUMP         -134.61  -142.63  -146.32     0.00     0.00    30.67
YBADJ    PUMP           57.90     0.00     0.00   -59.01   -34.83    -9.58
YBADJ    PUMP           15.95    41.00    64.80    86.63   105.83   122.23
YBADJ    PUMP          134.61   142.63   146.32    25.71    -2.52   -30.67
YBADJ    PUMP          -57.90     0.00     0.00    59.01    34.83     9.58
YBADJ    PUMP          -15.95   -41.00   -64.80   -86.63  -105.83  -122.23

YBADJ    TANK         -130.56  -138.38  -141.99  -141.29     0.00     0.00
YBADJ    TANK            0.00     0.00     0.00   -57.47   -34.01    -9.52
YBADJ    TANK           15.26    39.57    62.69    83.90   102.56   118.51
YBADJ    TANK          130.56   138.38   141.99   141.29     0.00     0.00
YBADJ    TANK            0.00     0.00     0.00    57.47    34.01     9.52
YBADJ    TANK          -15.26   -39.57   -62.69   -83.90  -102.56  -118.51

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SRCGROUP YARD     L0007197 L0007198 L0007199 L0007200 L0007201 L0007202
SRCGROUP YARD     L0007203 L0007204 L0007205 L0007206 L0007207 L0007208
SRCGROUP YARD     L0007209 L0007210 L0007211 L0007212 L0007213 L0007214
SRCGROUP YARD     L0007215 L0007216 L0007217 L0007218 L0007219 L0007220
SRCGROUP YARD     L0007221 L0007222 L0007223 L0007224 L0007225 L0007226
SRCGROUP YARD     L0007227 L0007228 L0007229 L0007230 L0007231 L0007232
SRCGROUP YARD     L0007233 L0007234 L0007235 L0007236 L0007237 L0007238
SRCGROUP YARD     L0007239 L0007240 L0007241 L0007242 L0007243 L0007244
SRCGROUP YARD     L0007245 L0007246 L0007247 L0007248 L0007249 L0007250
SRCGROUP YARD     L0007251 L0007252 L0007253 L0007254 L0007255 L0007256
SRCGROUP YARD     L0007257 L0007258 L0007259 L0007260 L0007261 L0007262
SRCGROUP YARD     L0007263 L0007264 L0007265 L0007266 L0007267 L0007268
SRCGROUP YARD     L0007269 L0007270 L0007271 L0007272 L0007273 L0007274
SRCGROUP YARD     L0007275 L0007276 L0007277 L0007278 L0007279 L0007280
SRCGROUP YARD     L0007281 L0007282 L0007283 L0007284 L0007285 L0007286
SRCGROUP YARD     L0007287 L0007288 L0007289 L0007290 L0007291 L0007292
SRCGROUP YARD     L0007293 L0007294 L0007295 L0007296 L0007297 L0007298
SRCGROUP YARD     L0007299 L0007300 L0007301 L0007302 L0007303 L0007304
SRCGROUP YARD     L0007305 L0007306 L0007307 L0007308 L0007309 L0007310
SRCGROUP YARD     L0007311 L0007312 L0007313 L0007314 L0007315 L0007316
SRCGROUP YARD     L0007317 L0007318 L0007319 L0007320 L0007321 L0007322
SRCGROUP YARD     L0007323 L0007324 L0007325 L0007326 L0007327 L0007328
SRCGROUP YARD     L0007329 L0007330 L0007331 L0007332 L0007333 L0007334
SRCGROUP YARD     L0007335 L0007336 L0007337 L0007338 L0007339 L0007340
SRCGROUP YARD     L0007341 L0007342 L0007343 L0007344 L0007345 L0007346
SRCGROUP YARD     L0007347 L0007348 L0007349 L0007350 L0007351 L0007352
SRCGROUP YARD     L0007353 L0007354 L0007355 L0007356 L0007357 L0007358
SRCGROUP YARD     L0007359 L0007360 L0007361 L0007362 L0007363 L0007364
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SRCGROUP YARD     L0007365 L0007366 L0007367 L0007368 L0007369 L0007370
SRCGROUP YARD     L0007371 L0007372 L0007373 L0007374 L0007375 L0007376
SRCGROUP YARD     L0007377 L0007378 L0007379 L0007380 L0007381 L0007382
SRCGROUP YARD     L0007383 L0007384 L0007385 L0007386 L0007387 L0007388
SRCGROUP YARD     L0007389 L0007390 L0007391 L0007392 L0007393 L0007394
SRCGROUP YARD     L0007395 L0007396 L0007397 L0007398 L0007399 L0007400
SRCGROUP YARD     L0007401 L0007402 L0007403 L0007404 L0007405 L0007406
SRCGROUP YARD     L0007407 L0007408 L0007409
SRCGROUP TANK     TANK
SRCGROUP FORK     L0011492 L0011493 L0011494 L0011495 L0011496 L0011497
SRCGROUP FORK     L0011498 L0011499 L0011500 L0011501 L0011502 L0011503
SRCGROUP FORK     L0011504 L0011505 L0011506 L0011507 L0011508 L0011509
SRCGROUP FORK     L0011510 L0011511 L0011512 L0011513 L0011514 L0011515
SRCGROUP FORK     L0011516 L0011517 L0011518 L0011519 L0011520 L0011521
SRCGROUP FORK     L0011522 L0011523 L0011524 L0011525 L0011526 L0011527
SRCGROUP FORK     L0011528 L0011529 L0011530 L0011531 L0011532 L0011533
SRCGROUP FORK     L0011534 L0011535 L0011536 L0011537 L0011538 L0011539
SRCGROUP FORK     L0011540 L0011541 L0011542 L0011543 L0011544 L0011545
SRCGROUP FORK     L0011546 L0011547 L0011548 L0011549 L0011550 L0011551
SRCGROUP FORK     L0011552 L0011553 L0011554 L0011555 L0011556 L0011557
SRCGROUP FORK     L0011558 L0011559 L0011560 L0011561 L0011562 L0011563
SRCGROUP FORK     L0011564 L0011565 L0011566 L0011567 L0011568 L0011569
SRCGROUP FORK     L0011570 L0011571 L0011572 L0011573 L0011574 L0011575
SRCGROUP FORK     L0011576 L0011577 L0011578 L0011579 L0011580 L0011581
SRCGROUP FORK     L0011582 L0011583 L0011584 L0011585 L0011586 L0011587
SRCGROUP FORK     L0011588 L0011589 L0011590 L0011591 L0011592 L0011593
SRCGROUP FORK     L0011594 L0011595 L0011596 L0011597 L0011598 L0011599
SRCGROUP FORK     L0011600 L0011601 L0011602 L0011603 L0011604 L0011605
SRCGROUP FORK     L0011606 L0011607 L0011608 L0011609 L0011610 L0011611
SRCGROUP FORK     L0011612 L0011613 L0011614 L0011615 L0011616 L0011617
SRCGROUP FORK     L0011618 L0011619 L0011620 L0011621 L0011622 L0011623
SRCGROUP FORK     L0011624 L0011625 L0011626 L0011627 L0011628 L0011629
SRCGROUP FORK     L0011630 L0011631 L0011632 L0011633 L0011634 L0011635
SRCGROUP FORK     L0011636 L0011637 L0011638 L0011639 L0011640 L0011641
SRCGROUP FORK     L0011642 L0011643 L0011644 L0011645 L0011646 L0011647
SRCGROUP FORK     L0011648 L0011649 L0011650 L0011651 L0011652 L0011653
SRCGROUP FORK     L0011654 L0011655 L0011656 L0011657 L0011658 L0011659
SRCGROUP FORK     L0011660 L0011661 L0011662 L0011663 L0011664 L0011665
SRCGROUP FORK     L0011666 L0011667 L0011668 L0011669 L0011670 L0011671
SRCGROUP FORK     L0011672 L0011673 L0011674 L0011675 L0011676 L0011677
SRCGROUP FORK     L0011678 L0011679 L0011680 L0011681 L0011682 L0011683
SRCGROUP FORK     L0011684 L0011685 L0011686 L0011687 L0011688 L0011689
SRCGROUP FORK     L0011690 L0011691 L0011692 L0011693 L0011694 L0011695
SRCGROUP FORK     L0011696 L0011697 L0011698 L0011699 L0011700 L0011701
SRCGROUP FORK     L0011702 L0011703 L0011704 L0011705 L0011706 L0011707
SRCGROUP FORK     L0011708 L0011709 L0011710 L0011711 L0011712 L0011713
SRCGROUP FORK     L0011714 L0011715 L0011716 L0011717 L0011718 L0011719
SRCGROUP FORK     L0011720 L0011721 L0011722 L0011723 L0011724 L0011725
SRCGROUP FORK     L0011726 L0011727 L0011728 L0011729 L0011730 L0011731
SRCGROUP FORK     L0011732 L0011733 L0011734 L0011735 L0011736 L0011737
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   SRCGROUP FORK     L0011738 L0011739 L0011740 L0011741 L0011742 L0011743
   SRCGROUP FORK     L0011744 L0011745 L0011746 L0011747 L0011748 L0011749
   SRCGROUP FORK     L0011750 L0011751 L0011752 L0011753 L0011754 L0011755
   SRCGROUP FORK     L0011756 L0011757 L0011758 L0011759 L0011760 L0011761
   SRCGROUP FORK     L0011762 L0011763 L0011764 L0011765 L0011766 L0011767
   SRCGROUP FORK     L0011768 L0011769 L0011770 L0011771 L0011772 L0011773
   SRCGROUP FORK     L0011774 L0011775 L0011776 L0011777 L0011778 L0011779
   SRCGROUP FORK     L0011780 L0011781 L0011782 L0011783 L0011784 L0011785
   SRCGROUP FORK     L0011786 L0011787 L0011788 L0011789 L0011790 L0011791
   SRCGROUP FORK     L0011792 L0011793 L0011794 L0011795 L0011796 L0011797
   SRCGROUP FORK     L0011798 L0011799 L0011800 L0011801 L0011802 L0011803
SO FINISHED
**
**********************************
** AERMOD Receptor Pathway
**********************************
**
**
RE STARTING
   INCLUDED SchulteOpHRA.rou
RE FINISHED
**
**********************************
** AERMOD Meteorology Pathway
**********************************
**
**
ME STARTING
   SURFFILE "C:\Users\swang\Documents\1. Projects\12620 14800 Schulte Road
Industrial 2020.07\Revised 2020.10\HRA\MET\Tracy_2004-2008.SFC"
   PROFFILE "C:\Users\swang\Documents\1. Projects\12620 14800 Schulte Road
Industrial 2020.07\Revised 2020.10\HRA\MET\Tracy_2004-2008.PFL"
   SURFDATA 99008 2004
   UAIRDATA 66666 2004
   PROFBASE 219.0 FEET
ME FINISHED
**
**********************************
** AERMOD Output Pathway
**********************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 1 1ST
** Auto-Generated Plotfiles
   PLOTFILE 1 IDLING1 1ST SchulteOpHRA.AD\01H1G001.PLT 31
   PLOTFILE 1 IDLING2 1ST SchulteOpHRA.AD\01H1G002.PLT 32
   PLOTFILE 1 IDLING3 1ST SchulteOpHRA.AD\01H1G003.PLT 33
   PLOTFILE 1 OFFSITE1 1ST SchulteOpHRA.AD\01H1G004.PLT 34
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   PLOTFILE 1 OFFSITE2 1ST SchulteOpHRA.AD\01H1G005.PLT 35
   PLOTFILE 1 OFFSITE3 1ST SchulteOpHRA.AD\01H1G006.PLT 36
   PLOTFILE 1 OFFSITE4 1ST SchulteOpHRA.AD\01H1G007.PLT 37
   PLOTFILE 1 OFFSITE5 1ST SchulteOpHRA.AD\01H1G008.PLT 38
   PLOTFILE 1 ONSITE 1ST SchulteOpHRA.AD\01H1G009.PLT 39
   PLOTFILE 1 PUMP 1ST SchulteOpHRA.AD\01H1G010.PLT 40
   PLOTFILE 1 YARD 1ST SchulteOpHRA.AD\01H1G011.PLT 41
   PLOTFILE 1 TANK 1ST SchulteOpHRA.AD\01H1G012.PLT 42
   PLOTFILE 1 FORK 1ST SchulteOpHRA.AD\01H1G013.PLT 43
   PLOTFILE PERIOD IDLING1 SchulteOpHRA.AD\PE00G001.PLT 44
   PLOTFILE PERIOD IDLING2 SchulteOpHRA.AD\PE00G002.PLT 45
   PLOTFILE PERIOD IDLING3 SchulteOpHRA.AD\PE00G003.PLT 46
   PLOTFILE PERIOD OFFSITE1 SchulteOpHRA.AD\PE00G004.PLT 47
   PLOTFILE PERIOD OFFSITE2 SchulteOpHRA.AD\PE00G005.PLT 48
   PLOTFILE PERIOD OFFSITE3 SchulteOpHRA.AD\PE00G006.PLT 49
   PLOTFILE PERIOD OFFSITE4 SchulteOpHRA.AD\PE00G007.PLT 50
   PLOTFILE PERIOD OFFSITE5 SchulteOpHRA.AD\PE00G008.PLT 51
   PLOTFILE PERIOD ONSITE SchulteOpHRA.AD\PE00G009.PLT 52
   PLOTFILE PERIOD PUMP SchulteOpHRA.AD\PE00G010.PLT 53
   PLOTFILE PERIOD YARD SchulteOpHRA.AD\PE00G011.PLT 54
   PLOTFILE PERIOD TANK SchulteOpHRA.AD\PE00G012.PLT 55
   PLOTFILE PERIOD FORK SchulteOpHRA.AD\PE00G013.PLT 56
   SUMMFILE SchulteOpHRA.sum
OU FINISHED


  *** Message Summary For AERMOD Model Setup ***

  --------- Summary of Total Messages --------

 A Total of            0 Fatal Error Message(s)
 A Total of            2 Warning Message(s)
 A Total of            0 Informational Message(s)


    ******** FATAL ERROR MESSAGES ********
               ***  NONE  ***


    ********   WARNING MESSAGES   ********
 SO W320    3695        PPARM: Input Parameter May Be Out-of-Range for Parameter
       VS
 ME W187    4084       MEOPEN: ADJ_U* Option for Low Winds used in AERMET


 *********************************
 *** SETUP Finishes Successfully ***
 *********************************

 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
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                        ***        01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                      ***        15:43:26

                                PAGE   1
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                             ***     MODEL SETUP OPTIONS SUMMARY
 ***
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - -

 **Model Is Setup For Calculation of Average CONCentration Values.

   --  DEPOSITION LOGIC  --
 **NO GAS DEPOSITION Data Provided.
 **NO PARTICLE DEPOSITION Data Provided.
 **Model Uses NO DRY DEPLETION.  DRYDPLT  =  F
 **Model Uses NO WET DEPLETION.  WETDPLT  =  F

 **Model Uses RURAL Dispersion Only.

 **Model Uses Regulatory DEFAULT Options:
         1. Stack-tip Downwash.
         2. Model Accounts for ELEVated Terrain Effects.
         3. Use Calms Processing Routine.
         4. Use Missing Data Processing Routine.
         5. No Exponential Decay.

 **Other Options Specified:
         ADJ_U*   - Use ADJ_U* BETA option for SBL in AERMET
         CCVR_Sub - Meteorological data includes CCVR substitutions
         TEMP_Sub - Meteorological data includes TEMP substitutions

 **Model Assumes No FLAGPOLE Receptor Heights.

 **The User Specified a Pollutant Type of:  HRA

 **Model Calculates  1 Short Term Average(s) of:   1-HR
     and Calculates PERIOD Averages

 **This Run Includes:   1715 Source(s);      13 Source Group(s); and     641
Receptor(s)

                with:      2 POINT(s), including
                           0 POINTCAP(s) and      0 POINTHOR(s)
                 and:   1713 VOLUME source(s)
                 and:      0 AREA type source(s)
                 and:      0 LINE source(s)
                 and:      0 OPENPIT source(s)
```

and: 0 BUOYANT LINE source(s) with 0 line(s)

**Model Set To Continue RUNning After the Setup Testing.

**The AERMET Input Meteorological Data Version Date: 18081

**Output Options Selected:
Model Outputs Tables of PERIOD Averages by Receptor
Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)

**NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours
m for Missing Hours
b for Both Calm and Missing Hours

**Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 66.75 ; Decay Coef. = 0.000 ; Rot. Angle = 0.0
Emission Units = GRAMS/SEC ;
Emission Rate Unit Factor = 0.10000E+07
Output Units = MICROGRAMS/M**3

**Approximate Storage Requirements of Model = 7.1 MB of RAM.

**Detailed Error/Message File: SchulteOpHRA.err

**File for Summary of Results: SchulteOpHRA.sum

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** POINT SOURCE DATA ***

SOURCE ID	NUMBER EMISSION RATE PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BLDG EXISTS	URBAN SOURCE	CAP/ HOR VARY BY	EMIS RATE SCALAR

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE BY	EMISSION RATE SCALAR VARY
PUMP	0	0.10000E+01	632874.6	4175778.7	39.0	1.91	708.71	50.16	0.15	YES	NO	NO
TANK	0	0.10000E+01	632878.3	4175776.5	39.0	2.00	255.37	0.00	0.00	YES	NO	NO
L0006118	0	0.44053E-02	633150.6	4176003.3	36.3	3.40	4.33	3.16	NO			
L0006119	0	0.44053E-02	633141.3	4176003.2	36.4	3.40	4.33	3.16	NO			
L0006120	0	0.44053E-02	633132.0	4176003.2	36.4	3.40	4.33	3.16	NO			
L0006121	0	0.44053E-02	633122.7	4176003.2	36.5	3.40	4.33	3.16	NO			
L0006122	0	0.44053E-02	633113.4	4176003.2	36.6	3.40	4.33	3.16	NO			
L0006123	0	0.44053E-02	633104.1	4176003.1	36.7	3.40	4.33	3.16	NO			
L0006124	0	0.44053E-02	633094.8	4176003.1	36.7	3.40	4.33	3.16	NO			
L0006125	0	0.44053E-02	633085.5	4176003.1	36.8	3.40	4.33	3.16	NO			
L0006126	0	0.44053E-02	633076.2	4176003.1	36.8	3.40	4.33	3.16	NO			
L0006127	0	0.44053E-02	633066.9	4176003.0	36.9	3.40	4.33	3.16	NO			
L0006128	0	0.44053E-02	633057.6	4176003.0	36.9	3.40	4.33	3.16	NO			
L0006129	0	0.44053E-02	633048.3	4176003.0	37.0	3.40	4.33					

3.16 NO
L0006130 0 0.44053E-02 633039.0 4176003.0 37.0 3.40 4.33
3.16 NO
L0006131 0 0.44053E-02 633029.7 4176002.9 37.0 3.40 4.33
3.16 NO
L0006132 0 0.44053E-02 633020.4 4176002.9 37.1 3.40 4.33
3.16 NO
L0006133 0 0.44053E-02 633011.1 4176002.9 37.1 3.40 4.33
3.16 NO
L0006134 0 0.44053E-02 633001.8 4176002.9 37.1 3.40 4.33
3.16 NO
L0006135 0 0.44053E-02 632992.5 4176002.8 37.2 3.40 4.33
3.16 NO
L0006136 0 0.44053E-02 632983.2 4176002.8 37.2 3.40 4.33
3.16 NO
L0006137 0 0.44053E-02 632973.9 4176002.8 37.3 3.40 4.33
3.16 NO
L0006138 0 0.44053E-02 632964.6 4176002.8 37.4 3.40 4.33
3.16 NO
L0006139 0 0.44053E-02 632955.3 4176002.7 37.5 3.40 4.33
3.16 NO
L0006140 0 0.44053E-02 632946.0 4176002.7 37.6 3.40 4.33
3.16 NO
L0006141 0 0.44053E-02 632936.7 4176002.7 37.6 3.40 4.33
3.16 NO
L0006142 0 0.44053E-02 632927.4 4176002.7 37.7 3.40 4.33
3.16 NO
L0006143 0 0.44053E-02 632918.1 4176002.6 37.8 3.40 4.33
3.16 NO
L0006144 0 0.44053E-02 632908.8 4176002.6 37.9 3.40 4.33
3.16 NO
L0006145 0 0.44053E-02 632899.5 4176002.6 37.9 3.40 4.33
3.16 NO
L0006146 0 0.44053E-02 632890.2 4176002.6 38.0 3.40 4.33
3.16 NO
L0006147 0 0.44053E-02 632880.9 4176002.5 38.1 3.40 4.33
3.16 NO
L0006148 0 0.44053E-02 632871.6 4176002.5 38.1 3.40 4.33
3.16 NO
L0006149 0 0.44053E-02 632862.3 4176002.5 38.2 3.40 4.33
3.16 NO
L0006150 0 0.44053E-02 632853.0 4176002.5 38.3 3.40 4.33
3.16 NO
L0006151 0 0.44053E-02 632843.7 4176002.4 38.3 3.40 4.33
3.16 NO
L0006152 0 0.44053E-02 632834.4 4176002.4 38.4 3.40 4.33
3.16 NO
L0006153 0 0.44053E-02 632825.1 4176002.4 38.5 3.40 4.33
3.16 NO
L0006154 0 0.44053E-02 632815.8 4176002.4 38.5 3.40 4.33

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE BY	EMISSION RATE SCALAR VARY
L0006155	0	0.44053E-02	632806.5	4176002.3	38.6	3.40	4.33	3.16	NO	
L0006156	0	0.44053E-02	632797.2	4176002.3	38.7	3.40	4.33	3.16	NO	
L0006157	0	0.44053E-02	632787.9	4176002.3	38.8	3.40	4.33	3.16	NO	
L0006158	0	0.44053E-02	632778.6	4176002.3	38.8	3.40	4.33	3.16	NO	
L0006159	0	0.44053E-02	632769.3	4176002.2	38.9	3.40	4.33	3.16	NO	
L0006160	0	0.44053E-02	632760.0	4176002.2	38.9	3.40	4.33	3.16	NO	
L0006161	0	0.44053E-02	632750.7	4176002.2	39.0	3.40	4.33	3.16	NO	
L0006162	0	0.44053E-02	632741.4	4176002.2	39.0	3.40	4.33	3.16	NO	
L0006163	0	0.44053E-02	632732.1	4176002.1	39.1	3.40	4.33	3.16	NO	
L0006164	0	0.44053E-02	632722.8	4176002.1	39.1	3.40	4.33	3.16	NO	
L0006165	0	0.44053E-02	632713.5	4176002.1	39.2	3.40	4.33	3.16	NO	
L0006166	0	0.44053E-02	632704.2	4176002.1	39.2	3.40	4.33	3.16	NO	
L0006167	0	0.44053E-02	632694.9	4176002.0	39.3	3.40	4.33	3.16	NO	
L0006168	0	0.44053E-02	632685.6	4176002.0	39.3	3.40	4.33	3.16	NO	
L0006169	0	0.44053E-02	632676.3	4176002.0	39.4	3.40	4.33			

3.16 NO
L0006170 0 0.44053E-02 632667.0 4176002.0 39.4 3.40 4.33
3.16 NO
L0006171 0 0.44053E-02 632657.7 4176001.9 39.5 3.40 4.33
3.16 NO
L0006172 0 0.44053E-02 632648.4 4176001.9 39.5 3.40 4.33
3.16 NO
L0006173 0 0.44053E-02 632639.1 4176001.9 39.5 3.40 4.33
3.16 NO
L0006174 0 0.44053E-02 632629.8 4176001.9 39.6 3.40 4.33
3.16 NO
L0006175 0 0.44053E-02 632620.5 4176001.8 39.7 3.40 4.33
3.16 NO
L0006176 0 0.44053E-02 632611.2 4176001.8 39.7 3.40 4.33
3.16 NO
L0006177 0 0.44053E-02 632601.9 4176001.8 39.8 3.40 4.33
3.16 NO
L0006178 0 0.44053E-02 632592.6 4176001.8 39.8 3.40 4.33
3.16 NO
L0006179 0 0.44053E-02 632583.3 4176001.7 39.9 3.40 4.33
3.16 NO
L0006180 0 0.44053E-02 632574.0 4176001.7 39.9 3.40 4.33
3.16 NO
L0006181 0 0.44053E-02 632564.7 4176001.7 40.0 3.40 4.33
3.16 NO
L0006182 0 0.44053E-02 632555.4 4176001.7 40.0 3.40 4.33
3.16 NO
L0006183 0 0.44053E-02 632546.1 4176001.6 40.1 3.40 4.33
3.16 NO
L0006184 0 0.44053E-02 632536.8 4176001.6 40.2 3.40 4.33
3.16 NO
L0006185 0 0.44053E-02 632527.5 4176001.6 40.2 3.40 4.33
3.16 NO
L0006186 0 0.44053E-02 632518.2 4176001.6 40.3 3.40 4.33
3.16 NO
L0006187 0 0.44053E-02 632508.9 4176001.5 40.4 3.40 4.33
3.16 NO
L0006188 0 0.44053E-02 632499.6 4176001.5 40.5 3.40 4.33
3.16 NO
L0006189 0 0.44053E-02 632490.3 4176001.4 40.5 3.40 4.33
3.16 NO
L0006190 0 0.44053E-02 632481.0 4176001.3 40.6 3.40 4.33
3.16 NO
L0006191 0 0.44053E-02 632471.7 4176001.1 40.6 3.40 4.33
3.16 NO
L0006192 0 0.44053E-02 632462.4 4176001.0 40.7 3.40 4.33
3.16 NO
L0006193 0 0.44053E-02 632453.1 4176000.9 40.8 3.40 4.33
3.16 NO
L0006194 0 0.44053E-02 632443.8 4176000.8 40.8 3.40 4.33

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE BY	EMISSION RATE SCALAR VARY
L0006195	0	0.44053E-02	632434.5	4176000.7	40.9	3.40	4.33	3.16	NO	
L0006196	0	0.44053E-02	632425.2	4176000.6	40.9	3.40	4.33	3.16	NO	
L0006197	0	0.44053E-02	632415.9	4176000.4	41.0	3.40	4.33	3.16	NO	
L0006198	0	0.44053E-02	632406.6	4176000.3	41.1	3.40	4.33	3.16	NO	
L0006199	0	0.44053E-02	632397.3	4176000.2	41.1	3.40	4.33	3.16	NO	
L0006200	0	0.44053E-02	632388.0	4176000.1	41.2	3.40	4.33	3.16	NO	
L0006201	0	0.44053E-02	632378.7	4176000.0	41.3	3.40	4.33	3.16	NO	
L0006202	0	0.44053E-02	632369.4	4175999.9	41.3	3.40	4.33	3.16	NO	
L0006203	0	0.44053E-02	632360.1	4175999.7	41.4	3.40	4.33	3.16	NO	
L0006204	0	0.44053E-02	632350.8	4175999.6	41.5	3.40	4.33	3.16	NO	
L0006205	0	0.44053E-02	632341.5	4175999.5	41.5	3.40	4.33	3.16	NO	
L0006206	0	0.44053E-02	632332.2	4175999.4	41.6	3.40	4.33	3.16	NO	
L0006207	0	0.44053E-02	632322.9	4175999.3	41.6	3.40	4.33	3.16	NO	
L0006208	0	0.44053E-02	632313.6	4175999.2	41.6	3.40	4.33	3.16	NO	
L0006209	0	0.44053E-02	632304.3	4175999.0	41.7	3.40	4.33			

3.16 NO
L0006210 0 0.44053E-02 632295.0 4175998.9 41.7 3.40 4.33
3.16 NO
L0006211 0 0.44053E-02 632285.7 4175998.8 41.7 3.40 4.33
3.16 NO
L0006212 0 0.44053E-02 632276.4 4175998.7 41.7 3.40 4.33
3.16 NO
L0006213 0 0.44053E-02 632267.1 4175998.6 41.8 3.40 4.33
3.16 NO
L0006214 0 0.44053E-02 632257.8 4175998.4 41.8 3.40 4.33
3.16 NO
L0006215 0 0.44053E-02 632248.5 4175998.3 41.9 3.40 4.33
3.16 NO
L0006216 0 0.44053E-02 632239.2 4175998.2 42.1 3.40 4.33
3.16 NO
L0006217 0 0.44053E-02 632229.9 4175998.1 42.3 3.40 4.33
3.16 NO
L0006218 0 0.44053E-02 632220.6 4175998.0 42.4 3.40 4.33
3.16 NO
L0006219 0 0.44053E-02 632211.3 4175997.9 42.6 3.40 4.33
3.16 NO
L0006220 0 0.44053E-02 632202.0 4175997.7 42.7 3.40 4.33
3.16 NO
L0006221 0 0.44053E-02 632192.7 4175997.6 42.8 3.40 4.33
3.16 NO
L0006222 0 0.44053E-02 632183.4 4175997.5 43.0 3.40 4.33
3.16 NO
L0006223 0 0.44053E-02 632174.1 4175997.4 43.1 3.40 4.33
3.16 NO
L0006224 0 0.44053E-02 632164.8 4175997.4 43.2 3.40 4.33
3.16 NO
L0006225 0 0.44053E-02 632155.5 4175997.3 43.3 3.40 4.33
3.16 NO
L0006226 0 0.44053E-02 632146.2 4175997.3 43.3 3.40 4.33
3.16 NO
L0006227 0 0.44053E-02 632136.9 4175997.2 43.4 3.40 4.33
3.16 NO
L0006228 0 0.44053E-02 632127.6 4175997.2 43.5 3.40 4.33
3.16 NO
L0006229 0 0.44053E-02 632118.3 4175997.1 43.6 3.40 4.33
3.16 NO
L0006230 0 0.44053E-02 632109.0 4175997.1 43.6 3.40 4.33
3.16 NO
L0006231 0 0.44053E-02 632099.7 4175997.0 43.7 3.40 4.33
3.16 NO
L0006232 0 0.44053E-02 632090.4 4175997.0 43.7 3.40 4.33
3.16 NO
L0006233 0 0.44053E-02 632081.1 4175996.9 43.8 3.40 4.33
3.16 NO
L0006234 0 0.44053E-02 632071.8 4175996.9 44.0 3.40 4.33

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE BY	EMISSION RATE SCALAR VARY
L0006235	0	0.44053E-02	632062.5	4175996.8	44.1	3.40	4.33	3.16	NO	
L0006236	0	0.44053E-02	632053.2	4175996.8	44.2	3.40	4.33	3.16	NO	
L0006237	0	0.44053E-02	632043.9	4175996.7	44.3	3.40	4.33	3.16	NO	
L0006238	0	0.44053E-02	632034.6	4175996.6	44.4	3.40	4.33	3.16	NO	
L0006239	0	0.44053E-02	632025.3	4175996.6	44.6	3.40	4.33	3.16	NO	
L0006240	0	0.44053E-02	632016.0	4175996.5	44.7	3.40	4.33	3.16	NO	
L0006241	0	0.44053E-02	632006.7	4175996.5	44.8	3.40	4.33	3.16	NO	
L0006242	0	0.44053E-02	631997.4	4175996.4	45.0	3.40	4.33	3.16	NO	
L0006243	0	0.44053E-02	631988.1	4175996.4	45.1	3.40	4.33	3.16	NO	
L0006244	0	0.44053E-02	631978.8	4175996.3	45.3	3.40	4.33	3.16	NO	
L0006245	0	0.44053E-02	631969.5	4175996.3	45.4	3.40	4.33	3.16	NO	
L0006246	0	0.44053E-02	631960.2	4175996.2	45.5	3.40	4.33	3.16	NO	
L0006247	0	0.44053E-02	631950.9	4175996.2	45.7	3.40	4.33	3.16	NO	
L0006248	0	0.44053E-02	631941.6	4175996.1	45.8	3.40	4.33	3.16	NO	
L0006249	0	0.44053E-02	631932.3	4175996.1	46.0	3.40	4.33			

3.16 NO
L0006250 0 0.44053E-02 631923.0 4175996.0 46.1 3.40 4.33
3.16 NO
L0006251 0 0.44053E-02 631913.7 4175996.0 46.3 3.40 4.33
3.16 NO
L0006252 0 0.44053E-02 631904.4 4175995.9 46.5 3.40 4.33
3.16 NO
L0006253 0 0.44053E-02 631895.1 4175995.9 46.6 3.40 4.33
3.16 NO
L0006254 0 0.44053E-02 631885.8 4175995.8 46.7 3.40 4.33
3.16 NO
L0006255 0 0.44053E-02 631876.5 4175995.8 46.7 3.40 4.33
3.16 NO
L0006256 0 0.44053E-02 631867.2 4175995.7 46.8 3.40 4.33
3.16 NO
L0006257 0 0.44053E-02 631857.9 4175995.6 46.8 3.40 4.33
3.16 NO
L0006258 0 0.44053E-02 631848.6 4175995.6 46.7 3.40 4.33
3.16 NO
L0006259 0 0.44053E-02 631839.3 4175995.5 46.7 3.40 4.33
3.16 NO
L0006260 0 0.44053E-02 631830.0 4175995.5 46.8 3.40 4.33
3.16 NO
L0006261 0 0.44053E-02 631820.7 4175995.4 46.9 3.40 4.33
3.16 NO
L0006262 0 0.44053E-02 631811.4 4175995.4 47.1 3.40 4.33
3.16 NO
L0006263 0 0.44053E-02 631802.1 4175995.3 47.2 3.40 4.33
3.16 NO
L0006264 0 0.44053E-02 631792.8 4175995.3 47.3 3.40 4.33
3.16 NO
L0006265 0 0.44053E-02 631783.5 4175995.2 47.5 3.40 4.33
3.16 NO
L0006266 0 0.44053E-02 631774.2 4175995.2 47.6 3.40 4.33
3.16 NO
L0006267 0 0.44053E-02 631764.9 4175995.3 47.8 3.40 4.33
3.16 NO
L0006268 0 0.44053E-02 631755.6 4175995.4 47.9 3.40 4.33
3.16 NO
L0006269 0 0.44053E-02 631746.3 4175995.5 48.1 3.40 4.33
3.16 NO
L0006270 0 0.44053E-02 631737.0 4175995.6 48.2 3.40 4.33
3.16 NO
L0006271 0 0.44053E-02 631727.7 4175995.8 48.4 3.40 4.33
3.16 NO
L0006272 0 0.44053E-02 631718.4 4175995.9 48.5 3.40 4.33
3.16 NO
L0006273 0 0.44053E-02 631709.1 4175996.0 48.6 3.40 4.33
3.16 NO
L0006274 0 0.44053E-02 631699.8 4175996.1 48.8 3.40 4.33

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3.16     NO
 L0006275         0   0.44053E-02  631690.5 4175996.3    48.9     3.40     4.33
3.16     NO
 L0006276         0   0.44053E-02  631681.2 4175996.4    49.1     3.40     4.33
3.16     NO
 L0006277         0   0.44053E-02  631671.9 4175996.5    49.2     3.40     4.33
3.16     NO
 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                        ***       01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                       ***       15:43:26

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                  *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.              (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - -

 L0006278         0   0.44053E-02  631662.6 4175996.6    49.4     3.40     4.33
3.16     NO
 L0006279         0   0.44053E-02  631653.3 4175996.8    49.5     3.40     4.33
3.16     NO
 L0006280         0   0.44053E-02  631644.0 4175996.9    49.6     3.40     4.33
3.16     NO
 L0006281         0   0.44053E-02  631634.7 4175997.0    49.8     3.40     4.33
3.16     NO
 L0006282         0   0.44053E-02  631625.4 4175997.1    49.8     3.40     4.33
3.16     NO
 L0006283         0   0.44053E-02  631616.1 4175997.3    49.9     3.40     4.33
3.16     NO
 L0006284         0   0.44053E-02  631606.8 4175997.4    50.0     3.40     4.33
3.16     NO
 L0006285         0   0.44053E-02  631597.5 4175997.5    50.1     3.40     4.33
3.16     NO
 L0006286         0   0.44053E-02  631588.2 4175997.6    50.2     3.40     4.33
3.16     NO
 L0006287         0   0.44053E-02  631579.0 4175997.8    50.3     3.40     4.33
3.16     NO
 L0006288         0   0.44053E-02  631569.7 4175997.9    50.4     3.40     4.33
3.16     NO
 L0006289         0   0.44053E-02  631560.4 4175998.0    50.4     3.40     4.33
```

3.16 NO
L0006290 0 0.44053E-02 631551.1 4175998.1 50.5 3.40 4.33
3.16 NO
L0006291 0 0.44053E-02 631541.8 4175998.3 50.6 3.40 4.33
3.16 NO
L0006292 0 0.44053E-02 631532.5 4175998.4 50.6 3.40 4.33
3.16 NO
L0006293 0 0.44053E-02 631523.2 4175998.5 50.7 3.40 4.33
3.16 NO
L0006294 0 0.44053E-02 631513.9 4175998.6 50.8 3.40 4.33
3.16 NO
L0006295 0 0.44053E-02 631504.6 4175998.8 50.9 3.40 4.33
3.16 NO
L0006296 0 0.44053E-02 631495.3 4175998.9 51.0 3.40 4.33
3.16 NO
L0006297 0 0.44053E-02 631486.0 4175999.0 51.1 3.40 4.33
3.16 NO
L0006298 0 0.44053E-02 631476.7 4175999.1 51.2 3.40 4.33
3.16 NO
L0006299 0 0.44053E-02 631467.4 4175999.2 51.2 3.40 4.33
3.16 NO
L0006300 0 0.44053E-02 631458.1 4175999.2 51.3 3.40 4.33
3.16 NO
L0006301 0 0.44053E-02 631448.8 4175999.3 51.3 3.40 4.33
3.16 NO
L0006302 0 0.44053E-02 631439.5 4175999.3 51.4 3.40 4.33
3.16 NO
L0006303 0 0.44053E-02 631430.2 4175999.3 51.4 3.40 4.33
3.16 NO
L0006304 0 0.44053E-02 631420.9 4175999.3 51.4 3.40 4.33
3.16 NO
L0006305 0 0.44053E-02 631411.6 4175999.3 51.4 3.40 4.33
3.16 NO
L0006306 0 0.44053E-02 631402.3 4175999.4 51.5 3.40 4.33
3.16 NO
L0006307 0 0.44053E-02 631393.0 4175999.4 51.5 3.40 4.33
3.16 NO
L0006308 0 0.44053E-02 631383.7 4175999.4 51.4 3.40 4.33
3.16 NO
L0006309 0 0.44053E-02 631374.4 4175999.4 51.4 3.40 4.33
3.16 NO
L0006310 0 0.44053E-02 631365.1 4175999.5 51.3 3.40 4.33
3.16 NO
L0006311 0 0.44053E-02 631355.8 4175999.5 51.2 3.40 4.33
3.16 NO
L0006312 0 0.44053E-02 631346.5 4175999.5 51.1 3.40 4.33
3.16 NO
L0006313 0 0.44053E-02 631337.2 4175999.5 51.1 3.40 4.33
3.16 NO
L0006314 0 0.44053E-02 631327.9 4175999.5 51.0 3.40 4.33

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE BY	EMISSION RATE SCALAR VARY
L0006315	0	0.44053E-02	631318.6	4175999.6	50.9	3.40	4.33	3.16	NO	
L0006316	0	0.44053E-02	631309.3	4175999.6	50.9	3.40	4.33	3.16	NO	
L0006317	0	0.44053E-02	631300.0	4175999.6	50.8	3.40	4.33	3.16	NO	
L0006318	0	0.44053E-02	631290.7	4175999.6	50.8	3.40	4.33	3.16	NO	
L0006319	0	0.44053E-02	631281.4	4175999.6	50.7	3.40	4.33	3.16	NO	
L0006320	0	0.44053E-02	631272.1	4175999.7	50.7	3.40	4.33	3.16	NO	
L0006321	0	0.44053E-02	631262.8	4175999.7	50.6	3.40	4.33	3.16	NO	
L0006322	0	0.44053E-02	631253.5	4175999.7	50.5	3.40	4.33	3.16	NO	
L0006323	0	0.44053E-02	631244.2	4175999.7	50.5	3.40	4.33	3.16	NO	
L0006324	0	0.44053E-02	631234.9	4175999.8	50.8	3.40	4.33	3.16	NO	
L0006325	0	0.44053E-02	631225.6	4175999.8	51.2	3.40	4.33	3.16	NO	
L0006326	0	0.44053E-02	631216.3	4175999.8	51.6	3.40	4.33	3.16	NO	
L0006327	0	0.44053E-02	631207.0	4175999.8	52.0	3.40	4.33	3.16	NO	
L0006328	0	0.44053E-02	631197.7	4175999.8	52.4	3.40	4.33	3.16	NO	
L0006329	0	0.44053E-02	631188.4	4175999.9	52.7	3.40	4.33			

3.16 NO
L0006330 0 0.44053E-02 631179.1 4175999.9 52.9 3.40 4.33
3.16 NO
L0006331 0 0.44053E-02 631169.8 4175999.9 53.0 3.40 4.33
3.16 NO
L0006332 0 0.44053E-02 631160.5 4175999.9 53.2 3.40 4.33
3.16 NO
L0006333 0 0.44053E-02 631151.2 4176000.0 53.4 3.40 4.33
3.16 NO
L0006334 0 0.44053E-02 631141.9 4176000.0 53.5 3.40 4.33
3.16 NO
L0006335 0 0.44053E-02 631132.6 4176000.0 53.7 3.40 4.33
3.16 NO
L0006336 0 0.44053E-02 631123.3 4176000.0 53.8 3.40 4.33
3.16 NO
L0006337 0 0.44053E-02 631114.0 4176000.0 53.9 3.40 4.33
3.16 NO
L0006338 0 0.44053E-02 631104.7 4176000.1 54.1 3.40 4.33
3.16 NO
L0006339 0 0.44053E-02 631095.4 4176000.1 54.3 3.40 4.33
3.16 NO
L0006340 0 0.44053E-02 631086.1 4176000.1 54.4 3.40 4.33
3.16 NO
L0006341 0 0.44053E-02 631076.8 4176000.1 54.5 3.40 4.33
3.16 NO
L0006342 0 0.44053E-02 631067.5 4176000.2 54.6 3.40 4.33
3.16 NO
L0006343 0 0.44053E-02 631058.2 4176000.2 54.8 3.40 4.33
3.16 NO
L0006344 0 0.44053E-02 631048.9 4176000.2 54.9 3.40 4.33
3.16 NO
L0006345 0 0.43478E-02 631049.4 4176010.3 54.8 3.40 4.33
3.16 NO
L0006346 0 0.43478E-02 631049.2 4176019.6 54.7 3.40 4.33
3.16 NO
L0006347 0 0.43478E-02 631048.9 4176028.9 54.6 3.40 4.33
3.16 NO
L0006348 0 0.43478E-02 631048.7 4176038.2 54.4 3.40 4.33
3.16 NO
L0006349 0 0.43478E-02 631048.5 4176047.5 54.3 3.40 4.33
3.16 NO
L0006350 0 0.43478E-02 631048.3 4176056.8 54.1 3.40 4.33
3.16 NO
L0006351 0 0.43478E-02 631048.0 4176066.1 53.9 3.40 4.33
3.16 NO
L0006352 0 0.43478E-02 631047.8 4176075.4 53.8 3.40 4.33
3.16 NO
L0006353 0 0.43478E-02 631047.6 4176084.7 53.7 3.40 4.33
3.16 NO
L0006354 0 0.43478E-02 631047.3 4176094.0 53.5 3.40 4.33

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE BY	EMISSION RATE SCALAR VARY
L0006355	0	0.43478E-02	631047.1	4176103.3	53.4	3.40	4.33	3.16	NO	
L0006356	0	0.43478E-02	631046.9	4176112.6	53.2	3.40	4.33	3.16	NO	
L0006357	0	0.43478E-02	631046.7	4176121.9	53.1	3.40	4.33	3.16	NO	
L0006358	0	0.43478E-02	631046.4	4176131.2	52.9	3.40	4.33	3.16	NO	
L0006359	0	0.43478E-02	631046.2	4176140.5	52.7	3.40	4.33	3.16	NO	
L0006360	0	0.43478E-02	631046.0	4176149.8	52.6	3.40	4.33	3.16	NO	
L0006361	0	0.43478E-02	631045.8	4176159.1	52.5	3.40	4.33	3.16	NO	
L0006362	0	0.43478E-02	631045.5	4176168.4	52.4	3.40	4.33	3.16	NO	
L0006363	0	0.43478E-02	631045.3	4176177.7	52.3	3.40	4.33	3.16	NO	
L0006364	0	0.43478E-02	631045.1	4176187.0	52.1	3.40	4.33	3.16	NO	
L0006365	0	0.43478E-02	631044.8	4176196.3	52.0	3.40	4.33	3.16	NO	
L0006366	0	0.43478E-02	631044.6	4176205.6	51.9	3.40	4.33	3.16	NO	
L0006367	0	0.43478E-02	631044.4	4176214.9	51.8	3.40	4.33	3.16	NO	
L0006368	0	0.43478E-02	631044.2	4176224.2	51.7	3.40	4.33	3.16	NO	
L0006369	0	0.43478E-02	631043.9	4176233.5	51.6	3.40	4.33			

3.16 NO
L0006370 0 0.43478E-02 631043.7 4176242.8 51.5 3.40 4.33
3.16 NO
L0006371 0 0.43478E-02 631043.5 4176252.1 51.4 3.40 4.33
3.16 NO
L0006372 0 0.43478E-02 631043.3 4176261.4 51.3 3.40 4.33
3.16 NO
L0006373 0 0.43478E-02 631043.0 4176270.6 51.2 3.40 4.33
3.16 NO
L0006374 0 0.43478E-02 631042.8 4176279.9 51.0 3.40 4.33
3.16 NO
L0006375 0 0.43478E-02 631042.6 4176289.2 50.9 3.40 4.33
3.16 NO
L0006376 0 0.43478E-02 631042.3 4176298.5 50.8 3.40 4.33
3.16 NO
L0006377 0 0.43478E-02 631042.1 4176307.8 50.6 3.40 4.33
3.16 NO
L0006378 0 0.43478E-02 631041.9 4176317.1 50.5 3.40 4.33
3.16 NO
L0006379 0 0.43478E-02 631041.7 4176326.4 50.3 3.40 4.33
3.16 NO
L0006380 0 0.43478E-02 631041.4 4176335.7 50.2 3.40 4.33
3.16 NO
L0006381 0 0.43478E-02 631041.2 4176345.0 50.1 3.40 4.33
3.16 NO
L0006382 0 0.43478E-02 631041.0 4176354.3 50.0 3.40 4.33
3.16 NO
L0006383 0 0.43478E-02 631040.8 4176363.6 49.8 3.40 4.33
3.16 NO
L0006384 0 0.43478E-02 631040.5 4176372.9 49.7 3.40 4.33
3.16 NO
L0006385 0 0.43478E-02 631040.3 4176382.2 49.6 3.40 4.33
3.16 NO
L0006386 0 0.43478E-02 631040.1 4176391.5 49.5 3.40 4.33
3.16 NO
L0006387 0 0.43478E-02 631039.8 4176400.8 49.4 3.40 4.33
3.16 NO
L0006388 0 0.43478E-02 631039.7 4176410.1 49.2 3.40 4.33
3.16 NO
L0006389 0 0.43478E-02 631039.5 4176419.4 49.1 3.40 4.33
3.16 NO
L0006390 0 0.43478E-02 631039.3 4176428.7 49.1 3.40 4.33
3.16 NO
L0006391 0 0.43478E-02 631039.2 4176438.0 49.1 3.40 4.33
3.16 NO
L0006392 0 0.43478E-02 631039.0 4176447.3 49.0 3.40 4.33
3.16 NO
L0006393 0 0.43478E-02 631038.9 4176456.6 49.0 3.40 4.33
3.16 NO
L0006394 0 0.43478E-02 631038.7 4176465.9 48.9 3.40 4.33

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE BY	EMISSION RATE SCALAR VARY
L0006395	0	0.43478E-02	631038.6	4176475.2	48.9	3.40	4.33	3.16	NO	
L0006396	0	0.43478E-02	631038.4	4176484.5	48.8	3.40	4.33	3.16	NO	
L0006397	0	0.43478E-02	631038.3	4176493.8	48.8	3.40	4.33	3.16	NO	
L0006398	0	0.43478E-02	631038.1	4176503.1	48.8	3.40	4.33	3.16	NO	
L0006399	0	0.43478E-02	631038.0	4176512.4	48.8	3.40	4.33	3.16	NO	
L0006400	0	0.43478E-02	631037.8	4176521.7	48.8	3.40	4.33	3.16	NO	
L0006401	0	0.43478E-02	631037.7	4176531.0	48.7	3.40	4.33	3.16	NO	
L0006402	0	0.43478E-02	631037.5	4176540.3	48.7	3.40	4.33	3.16	NO	
L0006403	0	0.43478E-02	631037.4	4176549.6	48.6	3.40	4.33	3.16	NO	
L0006404	0	0.43478E-02	631037.2	4176558.9	48.6	3.40	4.33	3.16	NO	
L0006405	0	0.43478E-02	631037.1	4176568.2	48.6	3.40	4.33	3.16	NO	
L0006406	0	0.43478E-02	631036.9	4176577.5	48.5	3.40	4.33	3.16	NO	
L0006407	0	0.43478E-02	631036.8	4176586.8	48.5	3.40	4.33	3.16	NO	
L0006408	0	0.43478E-02	631036.6	4176596.1	48.4	3.40	4.33	3.16	NO	
L0006409	0	0.43478E-02	631036.5	4176605.4	48.4	3.40	4.33			

3.16 NO
L0006410 0 0.43478E-02 631036.3 4176614.7 48.4 3.40 4.33
3.16 NO
L0006411 0 0.43478E-02 631036.2 4176624.0 48.4 3.40 4.33
3.16 NO
L0006412 0 0.43478E-02 631036.0 4176633.3 48.3 3.40 4.33
3.16 NO
L0006413 0 0.43478E-02 631035.9 4176642.6 48.2 3.40 4.33
3.16 NO
L0006414 0 0.43478E-02 631035.7 4176651.9 48.1 3.40 4.33
3.16 NO
L0006415 0 0.43478E-02 631035.6 4176661.2 48.0 3.40 4.33
3.16 NO
L0006416 0 0.43478E-02 631035.4 4176670.5 48.0 3.40 4.33
3.16 NO
L0006417 0 0.43478E-02 631035.3 4176679.8 47.9 3.40 4.33
3.16 NO
L0006418 0 0.43478E-02 631035.1 4176689.1 47.8 3.40 4.33
3.16 NO
L0006419 0 0.43478E-02 631035.0 4176698.4 47.8 3.40 4.33
3.16 NO
L0006420 0 0.43478E-02 631034.8 4176707.7 47.7 3.40 4.33
3.16 NO
L0006421 0 0.43478E-02 631034.7 4176717.0 47.7 3.40 4.33
3.16 NO
L0006422 0 0.43478E-02 631034.5 4176726.3 47.6 3.40 4.33
3.16 NO
L0006423 0 0.43478E-02 631034.4 4176735.6 47.6 3.40 4.33
3.16 NO
L0006424 0 0.43478E-02 631034.2 4176744.9 47.5 3.40 4.33
3.16 NO
L0006425 0 0.43478E-02 631034.1 4176754.2 47.4 3.40 4.33
3.16 NO
L0006426 0 0.43478E-02 631033.9 4176763.5 47.3 3.40 4.33
3.16 NO
L0006427 0 0.43478E-02 631033.8 4176772.8 47.2 3.40 4.33
3.16 NO
L0006428 0 0.43478E-02 631033.6 4176782.1 47.1 3.40 4.33
3.16 NO
L0006429 0 0.43478E-02 631033.5 4176791.4 47.1 3.40 4.33
3.16 NO
L0006430 0 0.43478E-02 631033.3 4176800.7 47.0 3.40 4.33
3.16 NO
L0006431 0 0.43478E-02 631033.2 4176810.0 46.9 3.40 4.33
3.16 NO
L0006432 0 0.43478E-02 631033.0 4176819.3 46.8 3.40 4.33
3.16 NO
L0006433 0 0.43478E-02 631032.9 4176828.6 46.7 3.40 4.33
3.16 NO
L0006434 0 0.43478E-02 631032.7 4176837.9 46.6 3.40 4.33

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE BY	EMISSION RATE SCALAR VARY
L0006435	0	0.43478E-02	631032.6	4176847.2	46.5	3.40	4.33	3.16	NO	
L0006436	0	0.43478E-02	631032.4	4176856.5	46.3	3.40	4.33	3.16	NO	
L0006437	0	0.43478E-02	631032.3	4176865.7	46.2	3.40	4.33	3.16	NO	
L0006438	0	0.43478E-02	631032.1	4176875.0	46.0	3.40	4.33	3.16	NO	
L0006439	0	0.43478E-02	631032.0	4176884.3	45.9	3.40	4.33	3.16	NO	
L0006440	0	0.43478E-02	631031.8	4176893.6	45.7	3.40	4.33	3.16	NO	
L0006441	0	0.43478E-02	631031.7	4176902.9	45.6	3.40	4.33	3.16	NO	
L0006442	0	0.43478E-02	631031.4	4176912.2	45.5	3.40	4.33	3.16	NO	
L0006443	0	0.43478E-02	631031.2	4176921.5	45.4	3.40	4.33	3.16	NO	
L0006444	0	0.43478E-02	631031.0	4176930.8	45.2	3.40	4.33	3.16	NO	
L0006445	0	0.43478E-02	631030.7	4176940.1	45.1	3.40	4.33	3.16	NO	
L0006446	0	0.43478E-02	631030.5	4176949.4	44.9	3.40	4.33	3.16	NO	
L0006447	0	0.43478E-02	631030.3	4176958.7	44.8	3.40	4.33	3.16	NO	
L0006448	0	0.43478E-02	631030.0	4176968.0	44.7	3.40	4.33	3.16	NO	
L0006449	0	0.43478E-02	631029.8	4176977.3	44.6	3.40	4.33			

3.16 NO
L0006450 0 0.43478E-02 631029.6 4176986.6 44.4 3.40 4.33
3.16 NO
L0006451 0 0.43478E-02 631029.3 4176995.9 44.3 3.40 4.33
3.16 NO
L0006452 0 0.43478E-02 631029.1 4177005.2 44.1 3.40 4.33
3.16 NO
L0006453 0 0.43478E-02 631028.9 4177014.5 44.0 3.40 4.33
3.16 NO
L0006454 0 0.43478E-02 631028.7 4177023.8 43.9 3.40 4.33
3.16 NO
L0006455 0 0.43478E-02 631028.4 4177033.1 43.7 3.40 4.33
3.16 NO
L0006456 0 0.43478E-02 631028.2 4177042.4 43.6 3.40 4.33
3.16 NO
L0006457 0 0.43478E-02 631028.0 4177051.7 43.4 3.40 4.33
3.16 NO
L0006458 0 0.43478E-02 631027.7 4177061.0 43.3 3.40 4.33
3.16 NO
L0006459 0 0.43478E-02 631027.5 4177070.3 43.2 3.40 4.33
3.16 NO
L0006460 0 0.43478E-02 631027.3 4177079.6 43.1 3.40 4.33
3.16 NO
L0006461 0 0.43478E-02 631027.0 4177088.9 43.1 3.40 4.33
3.16 NO
L0006462 0 0.43478E-02 631026.8 4177098.2 43.0 3.40 4.33
3.16 NO
L0006463 0 0.43478E-02 631026.6 4177107.5 42.9 3.40 4.33
3.16 NO
L0006464 0 0.43478E-02 631026.3 4177116.8 42.8 3.40 4.33
3.16 NO
L0006465 0 0.43478E-02 631026.1 4177126.1 42.7 3.40 4.33
3.16 NO
L0006466 0 0.43478E-02 631025.9 4177135.4 42.6 3.40 4.33
3.16 NO
L0006467 0 0.43478E-02 631025.6 4177144.7 42.6 3.40 4.33
3.16 NO
L0006468 0 0.43478E-02 631025.4 4177154.0 42.5 3.40 4.33
3.16 NO
L0006469 0 0.43478E-02 631025.2 4177163.3 42.4 3.40 4.33
3.16 NO
L0006470 0 0.43478E-02 631024.9 4177172.6 42.4 3.40 4.33
3.16 NO
L0006471 0 0.43478E-02 631024.7 4177181.9 42.3 3.40 4.33
3.16 NO
L0006472 0 0.43478E-02 631024.5 4177191.2 42.2 3.40 4.33
3.16 NO
L0006473 0 0.43478E-02 631024.2 4177200.5 42.1 3.40 4.33
3.16 NO
L0006474 0 0.43478E-02 631024.0 4177209.7 42.0 3.40 4.33

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3.16     NO
 L0006475         0   0.43478E-02  631023.8 4177219.0    42.0     3.40     4.33
3.16     NO
 L0006476         0   0.43478E-02  631023.5 4177228.3    41.9     3.40     4.33
3.16     NO
 L0006477         0   0.43478E-02  631023.3 4177237.6    41.9     3.40     4.33
3.16     NO
♠ *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                        ***        01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                       ***        15:43:26

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                   *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)              BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - -

 L0006478         0   0.43478E-02  631023.1 4177246.9    41.8     3.40     4.33
3.16     NO
 L0006479         0   0.43478E-02  631022.8 4177256.2    41.7     3.40     4.33
3.16     NO
 L0006480         0   0.43478E-02  631022.6 4177265.5    41.7     3.40     4.33
3.16     NO
 L0006481         0   0.43478E-02  631022.4 4177274.8    41.6     3.40     4.33
3.16     NO
 L0006482         0   0.43478E-02  631022.1 4177284.1    41.5     3.40     4.33
3.16     NO
 L0006483         0   0.43478E-02  631021.9 4177293.4    41.5     3.40     4.33
3.16     NO
 L0006484         0   0.43478E-02  631021.7 4177302.7    41.4     3.40     4.33
3.16     NO
 L0006485         0   0.43478E-02  631021.4 4177312.0    41.3     3.40     4.33
3.16     NO
 L0006486         0   0.43478E-02  631021.2 4177321.3    41.3     3.40     4.33
3.16     NO
 L0006487         0   0.43478E-02  631021.0 4177330.6    41.2     3.40     4.33
3.16     NO
 L0006488         0   0.43478E-02  631020.8 4177339.9    41.2     3.40     4.33
3.16     NO
 L0006489         0   0.43478E-02  631020.5 4177349.2    41.1     3.40     4.33
```

3.16 NO
L0006490 0 0.43478E-02 631020.3 4177358.5 41.0 3.40 4.33
3.16 NO
L0006491 0 0.43478E-02 631020.1 4177367.8 40.9 3.40 4.33
3.16 NO
L0006492 0 0.43478E-02 631019.8 4177377.1 40.9 3.40 4.33
3.16 NO
L0006493 0 0.43478E-02 631019.6 4177386.4 40.8 3.40 4.33
3.16 NO
L0006494 0 0.43478E-02 631019.4 4177395.7 40.7 3.40 4.33
3.16 NO
L0006495 0 0.43478E-02 631019.1 4177405.0 40.6 3.40 4.33
3.16 NO
L0006496 0 0.43478E-02 631018.9 4177414.3 40.6 3.40 4.33
3.16 NO
L0006497 0 0.43478E-02 631018.7 4177423.6 40.5 3.40 4.33
3.16 NO
L0006498 0 0.43478E-02 631018.4 4177432.9 40.4 3.40 4.33
3.16 NO
L0006499 0 0.43478E-02 631018.2 4177442.2 40.3 3.40 4.33
3.16 NO
L0006500 0 0.43478E-02 631018.0 4177451.5 40.2 3.40 4.33
3.16 NO
L0006501 0 0.43478E-02 631017.7 4177460.8 40.1 3.40 4.33
3.16 NO
L0006502 0 0.43478E-02 631017.5 4177470.1 40.1 3.40 4.33
3.16 NO
L0006503 0 0.43478E-02 631017.2 4177479.4 40.0 3.40 4.33
3.16 NO
L0006504 0 0.43478E-02 631016.9 4177488.7 39.9 3.40 4.33
3.16 NO
L0006505 0 0.43478E-02 631016.7 4177498.0 39.9 3.40 4.33
3.16 NO
L0006506 0 0.43478E-02 631016.4 4177507.3 39.8 3.40 4.33
3.16 NO
L0006507 0 0.43478E-02 631016.1 4177516.5 39.8 3.40 4.33
3.16 NO
L0006508 0 0.43478E-02 631015.9 4177525.8 39.7 3.40 4.33
3.16 NO
L0006509 0 0.43478E-02 631015.6 4177535.1 39.7 3.40 4.33
3.16 NO
L0006510 0 0.43478E-02 631015.3 4177544.4 39.6 3.40 4.33
3.16 NO
L0006511 0 0.43478E-02 631015.1 4177553.7 39.6 3.40 4.33
3.16 NO
L0006512 0 0.43478E-02 631014.8 4177563.0 39.5 3.40 4.33
3.16 NO
L0006513 0 0.43478E-02 631014.5 4177572.3 39.4 3.40 4.33
3.16 NO
L0006514 0 0.43478E-02 631014.3 4177581.6 39.4 3.40 4.33

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE BY	EMISSION RATE SCALAR VARY
L0006515	0	0.43478E-02	631014.0	4177590.9	39.3	3.40	4.33	3.16	NO	
L0006516	0	0.43478E-02	631013.7	4177600.2	39.2	3.40	4.33	3.16	NO	
L0006517	0	0.43478E-02	631013.4	4177609.5	39.2	3.40	4.33	3.16	NO	
L0006518	0	0.43478E-02	631013.2	4177618.8	39.1	3.40	4.33	3.16	NO	
L0006519	0	0.43478E-02	631012.9	4177628.1	39.1	3.40	4.33	3.16	NO	
L0006520	0	0.43478E-02	631012.6	4177637.4	39.0	3.40	4.33	3.16	NO	
L0006521	0	0.43478E-02	631012.4	4177646.7	38.9	3.40	4.33	3.16	NO	
L0006522	0	0.43478E-02	631012.1	4177656.0	38.9	3.40	4.33	3.16	NO	
L0006523	0	0.43478E-02	631011.8	4177665.3	38.8	3.40	4.33	3.16	NO	
L0006524	0	0.43478E-02	631011.6	4177674.6	38.7	3.40	4.33	3.16	NO	
L0006525	0	0.43478E-02	631011.3	4177683.9	38.6	3.40	4.33	3.16	NO	
L0006526	0	0.43478E-02	631011.0	4177693.2	38.6	3.40	4.33	3.16	NO	
L0006527	0	0.43478E-02	631010.8	4177702.5	38.5	3.40	4.33	3.16	NO	
L0006528	0	0.43478E-02	631010.5	4177711.8	38.4	3.40	4.33	3.16	NO	
L0006529	0	0.43478E-02	631010.2	4177721.1	38.4	3.40	4.33			

3.16 NO
L0006530 0 0.43478E-02 631009.9 4177730.4 38.3 3.40 4.33
3.16 NO
L0006531 0 0.43478E-02 631009.7 4177739.7 38.3 3.40 4.33
3.16 NO
L0006532 0 0.43478E-02 631009.4 4177748.9 38.2 3.40 4.33
3.16 NO
L0006533 0 0.43478E-02 631009.1 4177758.2 38.1 3.40 4.33
3.16 NO
L0006534 0 0.43478E-02 631008.9 4177767.5 38.1 3.40 4.33
3.16 NO
L0006535 0 0.43478E-02 631008.6 4177776.8 38.0 3.40 4.33
3.16 NO
L0006536 0 0.43478E-02 631008.3 4177786.1 37.9 3.40 4.33
3.16 NO
L0006537 0 0.43478E-02 631008.1 4177795.4 37.8 3.40 4.33
3.16 NO
L0006538 0 0.43478E-02 631007.8 4177804.7 37.8 3.40 4.33
3.16 NO
L0006539 0 0.43478E-02 631007.5 4177814.0 37.7 3.40 4.33
3.16 NO
L0006540 0 0.43478E-02 631007.3 4177823.3 37.7 3.40 4.33
3.16 NO
L0006541 0 0.43478E-02 631007.0 4177832.6 37.6 3.40 4.33
3.16 NO
L0006542 0 0.43478E-02 631006.7 4177841.9 37.5 3.40 4.33
3.16 NO
L0006543 0 0.43478E-02 631006.5 4177851.2 37.5 3.40 4.33
3.16 NO
L0006544 0 0.43478E-02 631006.2 4177860.5 37.4 3.40 4.33
3.16 NO
L0006545 0 0.43478E-02 631005.9 4177869.8 37.3 3.40 4.33
3.16 NO
L0006546 0 0.43478E-02 631005.6 4177879.1 37.2 3.40 4.33
3.16 NO
L0006547 0 0.43478E-02 631005.4 4177888.4 37.1 3.40 4.33
3.16 NO
L0006548 0 0.43478E-02 631005.1 4177897.7 37.0 3.40 4.33
3.16 NO
L0006549 0 0.43478E-02 631004.8 4177907.0 36.9 3.40 4.33
3.16 NO
L0006550 0 0.43478E-02 631004.6 4177916.3 36.9 3.40 4.33
3.16 NO
L0006551 0 0.43478E-02 631004.3 4177925.6 36.8 3.40 4.33
3.16 NO
L0006552 0 0.43478E-02 631004.0 4177934.9 36.7 3.40 4.33
3.16 NO
L0006553 0 0.43478E-02 631003.8 4177944.2 36.6 3.40 4.33
3.16 NO
L0006554 0 0.43478E-02 631003.5 4177953.5 36.5 3.40 4.33

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE BY	EMISSION RATE SCALAR VARY
L0006555	0	0.43478E-02	631003.2	4177962.8	36.4	3.40	4.33	3.16	NO	
L0006556	0	0.43478E-02	631003.0	4177972.1	36.3	3.40	4.33	3.16	NO	
L0006557	0	0.43478E-02	631002.7	4177981.4	36.2	3.40	4.33	3.16	NO	
L0006558	0	0.43478E-02	631002.4	4177990.6	36.1	3.40	4.33	3.16	NO	
L0006559	0	0.43478E-02	631002.1	4177999.9	36.0	3.40	4.33	3.16	NO	
L0006560	0	0.43478E-02	631001.9	4178009.2	35.9	3.40	4.33	3.16	NO	
L0006561	0	0.43478E-02	631001.6	4178018.5	35.8	3.40	4.33	3.16	NO	
L0006562	0	0.43478E-02	631001.3	4178027.8	35.7	3.40	4.33	3.16	NO	
L0006563	0	0.43478E-02	631001.1	4178037.1	35.6	3.40	4.33	3.16	NO	
L0006564	0	0.43478E-02	631000.8	4178046.4	35.5	3.40	4.33	3.16	NO	
L0006565	0	0.43478E-02	631000.5	4178055.7	35.4	3.40	4.33	3.16	NO	
L0006566	0	0.43478E-02	631000.3	4178065.0	35.3	3.40	4.33	3.16	NO	
L0006567	0	0.43478E-02	631000.0	4178074.3	35.2	3.40	4.33	3.16	NO	
L0006568	0	0.43478E-02	630999.7	4178083.6	35.2	3.40	4.33	3.16	NO	
L0006569	0	0.43478E-02	630999.5	4178092.9	35.1	3.40	4.33			

3.16 NO
L0006570 0 0.43478E-02 630999.2 4178102.2 35.0 3.40 4.33
3.16 NO
L0006571 0 0.43478E-02 630998.9 4178111.5 34.9 3.40 4.33
3.16 NO
L0006572 0 0.43478E-02 630998.6 4178120.8 34.8 3.40 4.33
3.16 NO
L0006573 0 0.43478E-02 630998.3 4178130.1 34.7 3.40 4.33
3.16 NO
L0006574 0 0.43478E-02 630998.1 4178139.4 34.6 3.40 4.33
3.16 NO
L0006575 0 0.57143E-02 631036.9 4176001.2 55.1 3.40 4.33
3.16 NO
L0006576 0 0.57143E-02 631027.6 4176001.1 55.2 3.40 4.33
3.16 NO
L0006577 0 0.57143E-02 631018.3 4176001.1 55.4 3.40 4.33
3.16 NO
L0006578 0 0.57143E-02 631009.0 4176001.1 55.6 3.40 4.33
3.16 NO
L0006579 0 0.57143E-02 630999.7 4176001.0 55.7 3.40 4.33
3.16 NO
L0006580 0 0.57143E-02 630990.4 4176001.0 55.8 3.40 4.33
3.16 NO
L0006581 0 0.57143E-02 630981.1 4176000.9 55.9 3.40 4.33
3.16 NO
L0006582 0 0.57143E-02 630971.8 4176000.9 55.9 3.40 4.33
3.16 NO
L0006583 0 0.57143E-02 630962.5 4176000.9 56.0 3.40 4.33
3.16 NO
L0006584 0 0.57143E-02 630953.2 4176000.8 56.0 3.40 4.33
3.16 NO
L0006585 0 0.57143E-02 630943.9 4176000.8 56.1 3.40 4.33
3.16 NO
L0006586 0 0.57143E-02 630934.6 4176000.8 56.1 3.40 4.33
3.16 NO
L0006587 0 0.57143E-02 630925.3 4176000.7 56.2 3.40 4.33
3.16 NO
L0006588 0 0.57143E-02 630916.0 4176000.7 56.3 3.40 4.33
3.16 NO
L0006589 0 0.57143E-02 630906.7 4176000.6 56.4 3.40 4.33
3.16 NO
L0006590 0 0.57143E-02 630897.4 4176000.6 56.5 3.40 4.33
3.16 NO
L0006591 0 0.57143E-02 630888.1 4176000.6 56.6 3.40 4.33
3.16 NO
L0006592 0 0.57143E-02 630878.8 4176000.5 56.7 3.40 4.33
3.16 NO
L0006593 0 0.57143E-02 630869.5 4176000.5 56.8 3.40 4.33
3.16 NO
L0006594 0 0.57143E-02 630860.2 4176000.4 57.0 3.40 4.33

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE BY	EMISSION RATE SCALAR VARY
L0006595	0	0.57143E-02	630850.9	4176000.4	57.1	3.40	4.33	3.16	NO	
L0006596	0	0.57143E-02	630841.6	4176000.4	57.2	3.40	4.33	3.16	NO	
L0006597	0	0.57143E-02	630832.3	4176000.3	57.3	3.40	4.33	3.16	NO	
L0006598	0	0.57143E-02	630823.0	4176000.3	57.4	3.40	4.33	3.16	NO	
L0006599	0	0.57143E-02	630813.7	4176000.3	57.5	3.40	4.33	3.16	NO	
L0006600	0	0.57143E-02	630804.4	4176000.2	57.6	3.40	4.33	3.16	NO	
L0006601	0	0.57143E-02	630795.1	4176000.2	57.7	3.40	4.33	3.16	NO	
L0006602	0	0.57143E-02	630785.8	4176000.1	57.8	3.40	4.33	3.16	NO	
L0006603	0	0.57143E-02	630776.5	4176000.1	57.9	3.40	4.33	3.16	NO	
L0006604	0	0.57143E-02	630767.2	4176000.1	57.9	3.40	4.33	3.16	NO	
L0006605	0	0.57143E-02	630757.9	4176000.0	58.0	3.40	4.33	3.16	NO	
L0006606	0	0.57143E-02	630748.6	4176000.0	58.1	3.40	4.33	3.16	NO	
L0006607	0	0.57143E-02	630739.3	4175999.9	58.2	3.40	4.33	3.16	NO	
L0006608	0	0.57143E-02	630730.0	4175999.9	58.2	3.40	4.33	3.16	NO	
L0006609	0	0.57143E-02	630720.7	4175999.9	58.4	3.40	4.33			

3.16 NO
L0006610 0 0.57143E-02 630711.4 4175999.8 58.6 3.40 4.33
3.16 NO
L0006611 0 0.57143E-02 630702.1 4175999.8 58.7 3.40 4.33
3.16 NO
L0006612 0 0.57143E-02 630692.8 4175999.7 58.8 3.40 4.33
3.16 NO
L0006613 0 0.57143E-02 630683.5 4175999.7 58.8 3.40 4.33
3.16 NO
L0006614 0 0.57143E-02 630674.2 4175999.7 58.9 3.40 4.33
3.16 NO
L0006615 0 0.57143E-02 630664.9 4175999.6 59.0 3.40 4.33
3.16 NO
L0006616 0 0.57143E-02 630655.6 4175999.6 59.0 3.40 4.33
3.16 NO
L0006617 0 0.57143E-02 630646.3 4175999.6 59.0 3.40 4.33
3.16 NO
L0006618 0 0.57143E-02 630637.0 4175999.5 59.1 3.40 4.33
3.16 NO
L0006619 0 0.57143E-02 630627.7 4175999.5 59.2 3.40 4.33
3.16 NO
L0006620 0 0.57143E-02 630618.4 4175999.4 59.2 3.40 4.33
3.16 NO
L0006621 0 0.57143E-02 630609.1 4175999.4 59.3 3.40 4.33
3.16 NO
L0006622 0 0.57143E-02 630599.8 4175999.4 59.4 3.40 4.33
3.16 NO
L0006623 0 0.57143E-02 630590.5 4175999.3 59.5 3.40 4.33
3.16 NO
L0006624 0 0.57143E-02 630581.2 4175999.3 59.6 3.40 4.33
3.16 NO
L0006625 0 0.57143E-02 630571.9 4175999.2 59.6 3.40 4.33
3.16 NO
L0006626 0 0.57143E-02 630562.6 4175999.2 59.7 3.40 4.33
3.16 NO
L0006627 0 0.57143E-02 630553.3 4175999.2 59.7 3.40 4.33
3.16 NO
L0006628 0 0.57143E-02 630544.0 4175999.1 59.8 3.40 4.33
3.16 NO
L0006629 0 0.57143E-02 630534.7 4175999.1 59.8 3.40 4.33
3.16 NO
L0006630 0 0.57143E-02 630525.4 4175999.1 59.9 3.40 4.33
3.16 NO
L0006631 0 0.57143E-02 630516.1 4175999.0 59.9 3.40 4.33
3.16 NO
L0006632 0 0.57143E-02 630506.8 4175999.0 60.0 3.40 4.33
3.16 NO
L0006633 0 0.57143E-02 630497.5 4175998.9 60.1 3.40 4.33
3.16 NO
L0006634 0 0.57143E-02 630488.2 4175998.9 60.2 3.40 4.33

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE BY	EMISSION RATE SCALAR VARY
L0006635	0	0.57143E-02	630478.9	4175998.9	60.2	3.40	4.33	3.16	NO	
L0006636	0	0.57143E-02	630469.6	4175998.8	60.3	3.40	4.33	3.16	NO	
L0006637	0	0.57143E-02	630460.3	4175998.8	60.4	3.40	4.33	3.16	NO	
L0006638	0	0.57143E-02	630451.0	4175998.7	60.5	3.40	4.33	3.16	NO	
L0006639	0	0.57143E-02	630441.7	4175998.7	60.6	3.40	4.33	3.16	NO	
L0006640	0	0.57143E-02	630432.4	4175998.7	60.7	3.40	4.33	3.16	NO	
L0006641	0	0.57143E-02	630423.1	4175998.6	60.8	3.40	4.33	3.16	NO	
L0006642	0	0.57143E-02	630413.8	4175998.6	60.9	3.40	4.33	3.16	NO	
L0006643	0	0.57143E-02	630404.5	4175998.6	61.0	3.40	4.33	3.16	NO	
L0006644	0	0.57143E-02	630395.2	4175998.5	61.1	3.40	4.33	3.16	NO	
L0006645	0	0.57143E-02	630385.9	4175998.5	61.3	3.40	4.33	3.16	NO	
L0006646	0	0.57143E-02	630376.6	4175998.4	61.4	3.40	4.33	3.16	NO	
L0006647	0	0.57143E-02	630367.3	4175998.4	61.5	3.40	4.33	3.16	NO	
L0006648	0	0.57143E-02	630358.0	4175998.4	61.7	3.40	4.33	3.16	NO	
L0006649	0	0.57143E-02	630348.7	4175998.3	61.8	3.40	4.33			

3.16 NO
L0006650 0 0.57143E-02 630339.4 4175998.3 62.0 3.40 4.33
3.16 NO
L0006651 0 0.57143E-02 630330.1 4175998.2 62.1 3.40 4.33
3.16 NO
L0006652 0 0.57143E-02 630320.8 4175998.2 62.2 3.40 4.33
3.16 NO
L0006653 0 0.57143E-02 630311.5 4175998.2 62.3 3.40 4.33
3.16 NO
L0006654 0 0.57143E-02 630302.2 4175998.1 62.4 3.40 4.33
3.16 NO
L0006655 0 0.57143E-02 630292.9 4175998.1 62.5 3.40 4.33
3.16 NO
L0006656 0 0.57143E-02 630283.6 4175998.0 62.6 3.40 4.33
3.16 NO
L0006657 0 0.57143E-02 630274.3 4175998.0 62.6 3.40 4.33
3.16 NO
L0006658 0 0.57143E-02 630265.0 4175998.0 62.7 3.40 4.33
3.16 NO
L0006659 0 0.57143E-02 630255.7 4175997.9 62.7 3.40 4.33
3.16 NO
L0006660 0 0.57143E-02 630246.4 4175997.9 62.8 3.40 4.33
3.16 NO
L0006661 0 0.57143E-02 630237.1 4175997.9 62.8 3.40 4.33
3.16 NO
L0006662 0 0.57143E-02 630227.8 4175997.8 62.9 3.40 4.33
3.16 NO
L0006663 0 0.57143E-02 630218.5 4175997.8 62.9 3.40 4.33
3.16 NO
L0006664 0 0.57143E-02 630209.2 4175997.7 63.0 3.40 4.33
3.16 NO
L0006665 0 0.57143E-02 630199.9 4175997.7 63.0 3.40 4.33
3.16 NO
L0006666 0 0.57143E-02 630190.6 4175997.7 63.1 3.40 4.33
3.16 NO
L0006667 0 0.57143E-02 630181.3 4175997.6 63.1 3.40 4.33
3.16 NO
L0006668 0 0.57143E-02 630172.0 4175997.6 63.2 3.40 4.33
3.16 NO
L0006669 0 0.57143E-02 630162.7 4175997.5 63.3 3.40 4.33
3.16 NO
L0006670 0 0.57143E-02 630153.4 4175997.5 63.4 3.40 4.33
3.16 NO
L0006671 0 0.57143E-02 630144.1 4175997.5 63.4 3.40 4.33
3.16 NO
L0006672 0 0.57143E-02 630134.8 4175997.4 63.5 3.40 4.33
3.16 NO
L0006673 0 0.57143E-02 630125.5 4175997.4 63.5 3.40 4.33
3.16 NO
L0006674 0 0.57143E-02 630116.2 4175997.4 63.6 3.40 4.33

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3.16     NO
 L0006675         0   0.57143E-02  630106.9 4175997.3    63.7     3.40     4.33
3.16     NO
 L0006676         0   0.57143E-02  630097.6 4175997.3    63.7     3.40     4.33
3.16     NO
 L0006677         0   0.57143E-02  630088.3 4175997.2    63.8     3.40     4.33
3.16     NO
↑ *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                        ***        01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                       ***        15:43:26

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                  *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)              BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - -

 L0006678         0   0.57143E-02  630079.0 4175997.2    63.8     3.40     4.33
3.16     NO
 L0006679         0   0.57143E-02  630069.7 4175997.2    63.9     3.40     4.33
3.16     NO
 L0006680         0   0.57143E-02  630060.4 4175997.1    64.0     3.40     4.33
3.16     NO
 L0006681         0   0.57143E-02  630051.1 4175997.1    64.0     3.40     4.33
3.16     NO
 L0006682         0   0.57143E-02  630041.8 4175997.0    64.0     3.40     4.33
3.16     NO
 L0006683         0   0.57143E-02  630032.5 4175997.0    64.0     3.40     4.33
3.16     NO
 L0006684         0   0.57143E-02  630023.2 4175997.0    63.9     3.40     4.33
3.16     NO
 L0006685         0   0.57143E-02  630013.9 4175996.9    63.9     3.40     4.33
3.16     NO
 L0006686         0   0.57143E-02  630004.6 4175996.9    63.8     3.40     4.33
3.16     NO
 L0006687         0   0.57143E-02  629995.3 4175996.8    63.7     3.40     4.33
3.16     NO
 L0006688         0   0.57143E-02  629986.0 4175996.8    63.6     3.40     4.33
3.16     NO
 L0006689         0   0.57143E-02  629976.7 4175996.8    63.5     3.40     4.33
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3.16 NO
L0006690 0 0.57143E-02 629967.4 4175996.7 63.4 3.40 4.33
3.16 NO
L0006691 0 0.57143E-02 629958.1 4175996.7 63.3 3.40 4.33
3.16 NO
L0006692 0 0.57143E-02 629948.8 4175996.7 63.2 3.40 4.33
3.16 NO
L0006693 0 0.57143E-02 629939.5 4175996.6 63.2 3.40 4.33
3.16 NO
L0006694 0 0.57143E-02 629930.2 4175996.6 63.2 3.40 4.33
3.16 NO
L0006695 0 0.57143E-02 629920.9 4175996.5 63.1 3.40 4.33
3.16 NO
L0006696 0 0.57143E-02 629911.6 4175996.5 63.0 3.40 4.33
3.16 NO
L0006697 0 0.57143E-02 629902.3 4175996.5 63.1 3.40 4.33
3.16 NO
L0006698 0 0.57143E-02 629893.0 4175996.4 63.5 3.40 4.33
3.16 NO
L0006699 0 0.57143E-02 629883.7 4175996.4 64.0 3.40 4.33
3.16 NO
L0006700 0 0.57143E-02 629874.4 4175996.3 64.4 3.40 4.33
3.16 NO
L0006701 0 0.57143E-02 629865.1 4175996.3 64.8 3.40 4.33
3.16 NO
L0006702 0 0.57143E-02 629855.8 4175996.3 64.9 3.40 4.33
3.16 NO
L0006703 0 0.57143E-02 629846.5 4175996.2 65.0 3.40 4.33
3.16 NO
L0006704 0 0.57143E-02 629837.2 4175996.2 65.1 3.40 4.33
3.16 NO
L0006705 0 0.57143E-02 629827.9 4175996.2 65.2 3.40 4.33
3.16 NO
L0006706 0 0.57143E-02 629818.6 4175996.1 65.3 3.40 4.33
3.16 NO
L0006707 0 0.57143E-02 629809.3 4175996.1 65.5 3.40 4.33
3.16 NO
L0006708 0 0.57143E-02 629800.0 4175996.0 65.5 3.40 4.33
3.16 NO
L0006709 0 0.57143E-02 629790.7 4175996.0 65.6 3.40 4.33
3.16 NO
L0006710 0 0.57143E-02 629781.4 4175996.0 65.7 3.40 4.33
3.16 NO
L0006711 0 0.57143E-02 629772.1 4175995.9 65.8 3.40 4.33
3.16 NO
L0006712 0 0.57143E-02 629762.8 4175995.9 65.8 3.40 4.33
3.16 NO
L0006713 0 0.57143E-02 629753.5 4175995.8 65.9 3.40 4.33
3.16 NO
L0006714 0 0.57143E-02 629744.2 4175995.8 66.0 3.40 4.33

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3.16     NO
 L0006715         0   0.57143E-02  629734.9 4175995.8    66.1     3.40     4.33
3.16     NO
 L0006716         0   0.57143E-02  629725.6 4175995.7    66.2     3.40     4.33
3.16     NO
 L0006717         0   0.57143E-02  629716.3 4175995.7    66.3     3.40     4.33
3.16     NO
↑ *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                        ***        01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                       ***        15:43:26

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                  *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)              BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - -

 L0006718         0   0.57143E-02  629707.0 4175995.7    66.3     3.40     4.33
3.16     NO
 L0006719         0   0.57143E-02  629697.7 4175995.6    66.4     3.40     4.33
3.16     NO
 L0006720         0   0.57143E-02  629688.4 4175995.6    66.5     3.40     4.33
3.16     NO
 L0006721         0   0.57143E-02  629679.1 4175995.5    66.5     3.40     4.33
3.16     NO
 L0006722         0   0.57143E-02  629669.8 4175995.5    66.6     3.40     4.33
3.16     NO
 L0006723         0   0.57143E-02  629660.5 4175995.5    66.7     3.40     4.33
3.16     NO
 L0006724         0   0.57143E-02  629651.2 4175995.4    66.8     3.40     4.33
3.16     NO
 L0006725         0   0.57143E-02  629641.9 4175995.4    66.9     3.40     4.33
3.16     NO
 L0006726         0   0.57143E-02  629632.6 4175995.3    67.0     3.40     4.33
3.16     NO
 L0006727         0   0.57143E-02  629623.3 4175995.3    67.0     3.40     4.33
3.16     NO
 L0006728         0   0.57143E-02  629614.0 4175995.3    67.1     3.40     4.33
3.16     NO
 L0006729         0   0.57143E-02  629604.7 4175995.2    67.2     3.40     4.33
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3.16 NO
L0006730 0 0.57143E-02 629595.4 4175995.2 67.3 3.40 4.33
3.16 NO
L0006731 0 0.57143E-02 629586.1 4175995.1 67.4 3.40 4.33
3.16 NO
L0006732 0 0.57143E-02 629576.8 4175995.1 67.5 3.40 4.33
3.16 NO
L0006733 0 0.57143E-02 629567.5 4175995.1 67.6 3.40 4.33
3.16 NO
L0006734 0 0.57143E-02 629558.2 4175995.0 67.7 3.40 4.33
3.16 NO
L0006735 0 0.57143E-02 629548.9 4175995.0 67.8 3.40 4.33
3.16 NO
L0006736 0 0.57143E-02 629539.6 4175995.0 68.0 3.40 4.33
3.16 NO
L0006737 0 0.57143E-02 629530.3 4175994.9 68.2 3.40 4.33
3.16 NO
L0006738 0 0.57143E-02 629521.0 4175994.9 68.3 3.40 4.33
3.16 NO
L0006739 0 0.57143E-02 629511.7 4175994.8 68.5 3.40 4.33
3.16 NO
L0006740 0 0.57143E-02 629502.4 4175994.8 68.7 3.40 4.33
3.16 NO
L0006741 0 0.57143E-02 629493.1 4175994.8 68.9 3.40 4.33
3.16 NO
L0006742 0 0.57143E-02 629483.8 4175994.7 69.1 3.40 4.33
3.16 NO
L0006743 0 0.57143E-02 629474.7 4175996.3 69.3 3.40 4.33
3.16 NO
L0006744 0 0.57143E-02 629465.8 4175999.0 69.4 3.40 4.33
3.16 NO
L0006745 0 0.57143E-02 629456.9 4176001.7 69.5 3.40 4.33
3.16 NO
L0006746 0 0.57143E-02 629448.0 4176004.4 69.7 3.40 4.33
3.16 NO
L0006747 0 0.57143E-02 629439.1 4176007.2 69.9 3.40 4.33
3.16 NO
L0006748 0 0.57143E-02 629430.2 4176009.9 70.0 3.40 4.33
3.16 NO
L0006749 0 0.57143E-02 629421.3 4176012.6 70.2 3.40 4.33
3.16 NO
L0006750 0 0.40323E-02 629411.3 4176022.2 70.3 3.40 4.33
3.16 NO
L0006751 0 0.40323E-02 629413.9 4176031.1 70.1 3.40 4.33
3.16 NO
L0006752 0 0.40323E-02 629416.5 4176040.0 70.0 3.40 4.33
3.16 NO
L0006753 0 0.40323E-02 629419.1 4176049.0 69.8 3.40 4.33
3.16 NO
L0006754 0 0.40323E-02 629421.6 4176057.9 69.8 3.40 4.33

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE BY	EMISSION RATE SCALAR VARY
L0006755	0	0.40323E-02	629424.2	4176066.9	69.7	3.40	4.33	3.16	NO	
L0006756	0	0.40323E-02	629426.8	4176075.8	69.6	3.40	4.33	3.16	NO	
L0006757	0	0.40323E-02	629429.3	4176084.7	69.5	3.40	4.33	3.16	NO	
L0006758	0	0.40323E-02	629431.9	4176093.7	69.5	3.40	4.33	3.16	NO	
L0006759	0	0.40323E-02	629434.5	4176102.6	69.4	3.40	4.33	3.16	NO	
L0006760	0	0.40323E-02	629437.1	4176111.5	69.3	3.40	4.33	3.16	NO	
L0006761	0	0.40323E-02	629438.8	4176120.7	69.2	3.40	4.33	3.16	NO	
L0006762	0	0.40323E-02	629440.0	4176129.9	69.1	3.40	4.33	3.16	NO	
L0006763	0	0.40323E-02	629440.8	4176139.1	69.0	3.40	4.33	3.16	NO	
L0006764	0	0.40323E-02	629440.6	4176148.4	68.9	3.40	4.33	3.16	NO	
L0006765	0	0.40323E-02	629440.4	4176157.7	68.8	3.40	4.33	3.16	NO	
L0006766	0	0.40323E-02	629440.2	4176167.0	68.6	3.40	4.33	3.16	NO	
L0006767	0	0.40323E-02	629439.9	4176176.3	68.5	3.40	4.33	3.16	NO	
L0006768	0	0.40323E-02	629439.7	4176185.6	68.4	3.40	4.33	3.16	NO	
L0006769	0	0.40323E-02	629439.5	4176194.9	68.3	3.40	4.33			

3.16 NO
L0006770 0 0.40323E-02 629439.3 4176204.2 68.1 3.40 4.33
3.16 NO
L0006771 0 0.40323E-02 629439.1 4176213.5 68.0 3.40 4.33
3.16 NO
L0006772 0 0.40323E-02 629438.8 4176222.8 67.8 3.40 4.33
3.16 NO
L0006773 0 0.40323E-02 629438.6 4176232.1 67.7 3.40 4.33
3.16 NO
L0006774 0 0.40323E-02 629438.4 4176241.4 67.6 3.40 4.33
3.16 NO
L0006775 0 0.40323E-02 629438.2 4176250.7 67.4 3.40 4.33
3.16 NO
L0006776 0 0.40323E-02 629438.0 4176260.0 67.3 3.40 4.33
3.16 NO
L0006777 0 0.40323E-02 629437.7 4176269.3 67.2 3.40 4.33
3.16 NO
L0006778 0 0.40323E-02 629437.5 4176278.6 67.1 3.40 4.33
3.16 NO
L0006779 0 0.40323E-02 629437.3 4176287.9 67.0 3.40 4.33
3.16 NO
L0006780 0 0.40323E-02 629437.1 4176297.2 66.8 3.40 4.33
3.16 NO
L0006781 0 0.40323E-02 629436.9 4176306.5 66.7 3.40 4.33
3.16 NO
L0006782 0 0.40323E-02 629436.6 4176315.8 66.5 3.40 4.33
3.16 NO
L0006783 0 0.40323E-02 629436.4 4176325.1 66.3 3.40 4.33
3.16 NO
L0006784 0 0.40323E-02 629436.2 4176334.4 66.1 3.40 4.33
3.16 NO
L0006785 0 0.40323E-02 629436.0 4176343.7 65.8 3.40 4.33
3.16 NO
L0006786 0 0.40323E-02 629435.8 4176353.0 65.6 3.40 4.33
3.16 NO
L0006787 0 0.40323E-02 629435.6 4176362.3 65.5 3.40 4.33
3.16 NO
L0006788 0 0.40323E-02 629435.3 4176371.6 65.2 3.40 4.33
3.16 NO
L0006789 0 0.40323E-02 629435.1 4176380.9 65.1 3.40 4.33
3.16 NO
L0006790 0 0.40323E-02 629434.9 4176390.1 64.9 3.40 4.33
3.16 NO
L0006791 0 0.40323E-02 629434.7 4176399.4 64.8 3.40 4.33
3.16 NO
L0006792 0 0.40323E-02 629434.5 4176408.7 64.6 3.40 4.33
3.16 NO
L0006793 0 0.40323E-02 629434.2 4176418.0 64.4 3.40 4.33
3.16 NO
L0006794 0 0.40323E-02 629434.0 4176427.3 64.2 3.40 4.33

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE BY	EMISSION RATE SCALAR VARY
L0006795	0	0.40323E-02	629433.8	4176436.6	64.0	3.40	4.33	3.16	NO	
L0006796	0	0.40323E-02	629433.6	4176445.9	63.9	3.40	4.33	3.16	NO	
L0006797	0	0.40323E-02	629433.4	4176455.2	63.6	3.40	4.33	3.16	NO	
L0006798	0	0.40323E-02	629433.1	4176464.5	63.4	3.40	4.33	3.16	NO	
L0006799	0	0.40323E-02	629432.9	4176473.8	63.1	3.40	4.33	3.16	NO	
L0006800	0	0.40323E-02	629432.7	4176483.1	62.9	3.40	4.33	3.16	NO	
L0006801	0	0.40323E-02	629432.5	4176492.4	62.7	3.40	4.33	3.16	NO	
L0006802	0	0.40323E-02	629432.3	4176501.7	62.5	3.40	4.33	3.16	NO	
L0006803	0	0.40323E-02	629432.0	4176511.0	62.4	3.40	4.33	3.16	NO	
L0006804	0	0.40323E-02	629431.8	4176520.3	62.3	3.40	4.33	3.16	NO	
L0006805	0	0.40323E-02	629431.6	4176529.6	62.3	3.40	4.33	3.16	NO	
L0006806	0	0.40323E-02	629431.4	4176538.9	62.2	3.40	4.33	3.16	NO	
L0006807	0	0.40323E-02	629431.2	4176548.2	62.2	3.40	4.33	3.16	NO	
L0006808	0	0.40323E-02	629430.9	4176557.5	62.1	3.40	4.33	3.16	NO	
L0006809	0	0.40323E-02	629430.7	4176566.8	62.0	3.40	4.33			

3.16 NO
L0006810 0 0.40323E-02 629430.5 4176576.1 61.9 3.40 4.33
3.16 NO
L0006811 0 0.40323E-02 629430.3 4176585.4 61.6 3.40 4.33
3.16 NO
L0006812 0 0.40323E-02 629430.1 4176594.7 61.4 3.40 4.33
3.16 NO
L0006813 0 0.40323E-02 629429.8 4176604.0 61.1 3.40 4.33
3.16 NO
L0006814 0 0.40323E-02 629429.6 4176613.3 60.9 3.40 4.33
3.16 NO
L0006815 0 0.40323E-02 629429.4 4176622.6 60.8 3.40 4.33
3.16 NO
L0006816 0 0.40323E-02 629429.2 4176631.9 60.7 3.40 4.33
3.16 NO
L0006817 0 0.40323E-02 629429.0 4176641.2 60.6 3.40 4.33
3.16 NO
L0006818 0 0.40323E-02 629428.7 4176650.5 60.5 3.40 4.33
3.16 NO
L0006819 0 0.40323E-02 629428.5 4176659.8 60.4 3.40 4.33
3.16 NO
L0006820 0 0.40323E-02 629428.3 4176669.1 60.3 3.40 4.33
3.16 NO
L0006821 0 0.40323E-02 629428.1 4176678.4 60.2 3.40 4.33
3.16 NO
L0006822 0 0.40323E-02 629427.9 4176687.7 60.1 3.40 4.33
3.16 NO
L0006823 0 0.40323E-02 629427.7 4176697.0 60.0 3.40 4.33
3.16 NO
L0006824 0 0.40323E-02 629427.4 4176706.3 60.0 3.40 4.33
3.16 NO
L0006825 0 0.40323E-02 629427.2 4176715.6 60.0 3.40 4.33
3.16 NO
L0006826 0 0.40323E-02 629427.0 4176724.9 60.0 3.40 4.33
3.16 NO
L0006827 0 0.40323E-02 629426.8 4176734.2 59.9 3.40 4.33
3.16 NO
L0006828 0 0.40323E-02 629426.6 4176743.5 60.0 3.40 4.33
3.16 NO
L0006829 0 0.40323E-02 629426.3 4176752.7 60.0 3.40 4.33
3.16 NO
L0006830 0 0.40323E-02 629426.1 4176762.0 60.1 3.40 4.33
3.16 NO
L0006831 0 0.40323E-02 629425.9 4176771.3 60.1 3.40 4.33
3.16 NO
L0006832 0 0.40323E-02 629425.7 4176780.6 60.2 3.40 4.33
3.16 NO
L0006833 0 0.40323E-02 629425.5 4176789.9 60.2 3.40 4.33
3.16 NO
L0006834 0 0.40323E-02 629425.2 4176799.2 60.2 3.40 4.33

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE BY	EMISSION RATE SCALAR VARY
L0006835	0	0.40323E-02	629425.0	4176808.5	60.2	3.40	4.33	3.16	NO	
L0006836	0	0.40323E-02	629424.8	4176817.8	60.1	3.40	4.33	3.16	NO	
L0006837	0	0.40323E-02	629424.6	4176827.1	60.2	3.40	4.33	3.16	NO	
L0006838	0	0.40323E-02	629424.4	4176836.4	60.2	3.40	4.33	3.16	NO	
L0006839	0	0.40323E-02	629424.3	4176845.7	60.1	3.40	4.33	3.16	NO	
L0006840	0	0.40323E-02	629424.1	4176855.0	60.1	3.40	4.33	3.16	NO	
L0006841	0	0.40323E-02	629424.0	4176864.3	60.1	3.40	4.33	3.16	NO	
L0006842	0	0.40323E-02	629423.8	4176873.6	60.0	3.40	4.33	3.16	NO	
L0006843	0	0.40323E-02	629423.6	4176882.9	60.0	3.40	4.33	3.16	NO	
L0006844	0	0.40323E-02	629423.5	4176892.2	60.0	3.40	4.33	3.16	NO	
L0006845	0	0.40323E-02	629423.3	4176901.5	60.0	3.40	4.33	3.16	NO	
L0006846	0	0.40323E-02	629423.1	4176910.8	59.9	3.40	4.33	3.16	NO	
L0006847	0	0.40323E-02	629423.0	4176920.1	59.8	3.40	4.33	3.16	NO	
L0006848	0	0.40323E-02	629422.8	4176929.4	59.6	3.40	4.33	3.16	NO	
L0006849	0	0.40323E-02	629422.6	4176938.7	59.5	3.40	4.33			

3.16 NO
L0006850 0 0.40323E-02 629422.5 4176948.0 59.4 3.40 4.33
3.16 NO
L0006851 0 0.40323E-02 629422.3 4176957.3 59.4 3.40 4.33
3.16 NO
L0006852 0 0.40323E-02 629422.1 4176966.6 59.3 3.40 4.33
3.16 NO
L0006853 0 0.40323E-02 629422.0 4176975.9 59.3 3.40 4.33
3.16 NO
L0006854 0 0.40323E-02 629421.8 4176985.2 59.3 3.40 4.33
3.16 NO
L0006855 0 0.40323E-02 629421.6 4176994.5 59.3 3.40 4.33
3.16 NO
L0006856 0 0.40323E-02 629421.5 4177003.8 59.3 3.40 4.33
3.16 NO
L0006857 0 0.40323E-02 629421.3 4177013.1 59.3 3.40 4.33
3.16 NO
L0006858 0 0.40323E-02 629421.1 4177022.4 59.3 3.40 4.33
3.16 NO
L0006859 0 0.40323E-02 629421.0 4177031.7 59.3 3.40 4.33
3.16 NO
L0006860 0 0.40323E-02 629420.8 4177041.0 59.3 3.40 4.33
3.16 NO
L0006861 0 0.40323E-02 629420.6 4177050.3 59.4 3.40 4.33
3.16 NO
L0006862 0 0.40323E-02 629420.5 4177059.6 59.4 3.40 4.33
3.16 NO
L0006863 0 0.40323E-02 629420.3 4177068.9 59.4 3.40 4.33
3.16 NO
L0006864 0 0.40323E-02 629420.1 4177078.2 59.5 3.40 4.33
3.16 NO
L0006865 0 0.40323E-02 629420.0 4177087.5 59.5 3.40 4.33
3.16 NO
L0006866 0 0.40323E-02 629419.8 4177096.8 59.6 3.40 4.33
3.16 NO
L0006867 0 0.40323E-02 629419.6 4177106.1 59.6 3.40 4.33
3.16 NO
L0006868 0 0.40323E-02 629419.5 4177115.4 59.7 3.40 4.33
3.16 NO
L0006869 0 0.40323E-02 629419.3 4177124.7 59.8 3.40 4.33
3.16 NO
L0006870 0 0.40323E-02 629419.1 4177134.0 59.9 3.40 4.33
3.16 NO
L0006871 0 0.40323E-02 629419.0 4177143.3 59.9 3.40 4.33
3.16 NO
L0006872 0 0.40323E-02 629418.8 4177152.6 60.0 3.40 4.33
3.16 NO
L0006873 0 0.40323E-02 629418.6 4177161.9 60.1 3.40 4.33
3.16 NO
L0006874 0 0.40323E-02 629418.5 4177171.2 60.2 3.40 4.33

3.16 NO
L0006875 0 0.40323E-02 629418.3 4177180.5 60.4 3.40 4.33
3.16 NO
L0006876 0 0.40323E-02 629418.1 4177189.8 60.6 3.40 4.33
3.16 NO
L0006877 0 0.40323E-02 629418.0 4177199.1 60.7 3.40 4.33
3.16 NO

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	URBAN SOURCE SZ	EMISSION RATE SCALAR VARY BY
L0006878	0	0.40323E-02	629417.8	4177208.4	60.9	3.40	4.33	3.16	NO
L0006879	0	0.40323E-02	629417.4	4177217.7	61.1	3.40	4.33	3.16	NO
L0006880	0	0.40323E-02	629417.0	4177226.9	61.3	3.40	4.33	3.16	NO
L0006881	0	0.40323E-02	629416.6	4177236.2	61.5	3.40	4.33	3.16	NO
L0006882	0	0.40323E-02	629416.1	4177245.5	61.7	3.40	4.33	3.16	NO
L0006883	0	0.40323E-02	629415.7	4177254.8	61.8	3.40	4.33	3.16	NO
L0006884	0	0.40323E-02	629415.3	4177264.1	62.0	3.40	4.33	3.16	NO
L0006885	0	0.40323E-02	629414.8	4177273.4	62.1	3.40	4.33	3.16	NO
L0006886	0	0.40323E-02	629414.4	4177282.7	62.3	3.40	4.33	3.16	NO
L0006887	0	0.40323E-02	629414.0	4177292.0	62.3	3.40	4.33	3.16	NO
L0006888	0	0.40323E-02	629413.5	4177301.3	62.2	3.40	4.33	3.16	NO
L0006889	0	0.40323E-02	629413.1	4177310.6	62.0	3.40	4.33		

3.16 NO
L0006890 0 0.40323E-02 629412.6 4177319.8 61.4 3.40 4.33
3.16 NO
L0006891 0 0.40323E-02 629412.2 4177329.1 60.6 3.40 4.33
3.16 NO
L0006892 0 0.40323E-02 629411.8 4177338.4 59.8 3.40 4.33
3.16 NO
L0006893 0 0.40323E-02 629411.3 4177347.7 59.1 3.40 4.33
3.16 NO
L0006894 0 0.40323E-02 629410.9 4177357.0 58.6 3.40 4.33
3.16 NO
L0006895 0 0.40323E-02 629410.5 4177366.3 58.2 3.40 4.33
3.16 NO
L0006896 0 0.40323E-02 629410.0 4177375.6 57.9 3.40 4.33
3.16 NO
L0006897 0 0.40323E-02 629409.6 4177384.9 57.6 3.40 4.33
3.16 NO
L0006898 0 0.40323E-02 629409.1 4177394.2 57.2 3.40 4.33
3.16 NO
L0006899 0 0.40323E-02 629408.7 4177403.5 56.9 3.40 4.33
3.16 NO
L0006900 0 0.40323E-02 629408.0 4177412.7 56.6 3.40 4.33
3.16 NO
L0006901 0 0.40323E-02 629407.1 4177422.0 56.4 3.40 4.33
3.16 NO
L0006902 0 0.40323E-02 629406.2 4177431.2 56.1 3.40 4.33
3.16 NO
L0006903 0 0.40323E-02 629405.3 4177440.5 55.9 3.40 4.33
3.16 NO
L0006904 0 0.40323E-02 629404.4 4177449.8 55.6 3.40 4.33
3.16 NO
L0006905 0 0.40323E-02 629403.5 4177459.0 55.5 3.40 4.33
3.16 NO
L0006906 0 0.40323E-02 629402.6 4177468.3 55.4 3.40 4.33
3.16 NO
L0006907 0 0.40323E-02 629401.7 4177477.5 55.3 3.40 4.33
3.16 NO
L0006908 0 0.40323E-02 629400.9 4177486.8 55.1 3.40 4.33
3.16 NO
L0006909 0 0.40323E-02 629400.7 4177496.1 55.0 3.40 4.33
3.16 NO
L0006910 0 0.40323E-02 629400.6 4177505.4 54.9 3.40 4.33
3.16 NO
L0006911 0 0.40323E-02 629400.4 4177514.7 54.8 3.40 4.33
3.16 NO
L0006912 0 0.40323E-02 629400.3 4177524.0 54.7 3.40 4.33
3.16 NO
L0006913 0 0.40323E-02 629400.1 4177533.3 54.6 3.40 4.33
3.16 NO
L0006914 0 0.40323E-02 629400.0 4177542.6 54.5 3.40 4.33

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE BY	EMISSION RATE SCALAR VARY
L0006915	0	0.40323E-02	629399.8	4177551.9	54.4	3.40	4.33	3.16	NO	
L0006916	0	0.40323E-02	629399.7	4177561.2	54.3	3.40	4.33	3.16	NO	
L0006917	0	0.40323E-02	629399.5	4177570.5	54.2	3.40	4.33	3.16	NO	
L0006918	0	0.40323E-02	629399.4	4177579.8	54.1	3.40	4.33	3.16	NO	
L0006919	0	0.40323E-02	629399.2	4177589.1	54.0	3.40	4.33	3.16	NO	
L0006920	0	0.40323E-02	629399.0	4177598.4	53.9	3.40	4.33	3.16	NO	
L0006921	0	0.40323E-02	629398.9	4177607.7	53.8	3.40	4.33	3.16	NO	
L0006922	0	0.40323E-02	629398.7	4177617.0	53.7	3.40	4.33	3.16	NO	
L0006923	0	0.40323E-02	629398.6	4177626.3	53.6	3.40	4.33	3.16	NO	
L0006924	0	0.40323E-02	629398.4	4177635.6	53.5	3.40	4.33	3.16	NO	
L0006925	0	0.40323E-02	629398.3	4177644.9	53.5	3.40	4.33	3.16	NO	
L0006926	0	0.40323E-02	629398.1	4177654.2	53.4	3.40	4.33	3.16	NO	
L0006927	0	0.40323E-02	629398.0	4177663.5	53.4	3.40	4.33	3.16	NO	
L0006928	0	0.40323E-02	629397.8	4177672.8	53.3	3.40	4.33	3.16	NO	
L0006929	0	0.40323E-02	629397.7	4177682.1	53.2	3.40	4.33			

3.16 NO
L0006930 0 0.40323E-02 629397.5 4177691.4 53.2 3.40 4.33
3.16 NO
L0006931 0 0.40323E-02 629397.4 4177700.7 53.2 3.40 4.33
3.16 NO
L0006932 0 0.40323E-02 629397.2 4177710.0 53.1 3.40 4.33
3.16 NO
L0006933 0 0.40323E-02 629397.1 4177719.3 53.1 3.40 4.33
3.16 NO
L0006934 0 0.40323E-02 629396.9 4177728.6 53.0 3.40 4.33
3.16 NO
L0006935 0 0.40323E-02 629396.8 4177737.8 53.0 3.40 4.33
3.16 NO
L0006936 0 0.40323E-02 629396.6 4177747.1 53.0 3.40 4.33
3.16 NO
L0006937 0 0.40323E-02 629396.4 4177756.4 52.9 3.40 4.33
3.16 NO
L0006938 0 0.40323E-02 629396.3 4177765.7 52.9 3.40 4.33
3.16 NO
L0006939 0 0.40323E-02 629396.1 4177775.0 52.8 3.40 4.33
3.16 NO
L0006940 0 0.40323E-02 629396.0 4177784.3 52.7 3.40 4.33
3.16 NO
L0006941 0 0.40323E-02 629395.8 4177793.6 52.6 3.40 4.33
3.16 NO
L0006942 0 0.40323E-02 629395.7 4177802.9 52.5 3.40 4.33
3.16 NO
L0006943 0 0.40323E-02 629395.5 4177812.2 52.3 3.40 4.33
3.16 NO
L0006944 0 0.40323E-02 629395.4 4177821.5 52.2 3.40 4.33
3.16 NO
L0006945 0 0.40323E-02 629395.2 4177830.8 52.0 3.40 4.33
3.16 NO
L0006946 0 0.40323E-02 629395.1 4177840.1 51.9 3.40 4.33
3.16 NO
L0006947 0 0.40323E-02 629394.9 4177849.4 51.8 3.40 4.33
3.16 NO
L0006948 0 0.40323E-02 629394.8 4177858.7 51.6 3.40 4.33
3.16 NO
L0006949 0 0.40323E-02 629394.4 4177868.0 51.5 3.40 4.33
3.16 NO
L0006950 0 0.40323E-02 629394.0 4177877.3 51.4 3.40 4.33
3.16 NO
L0006951 0 0.40323E-02 629393.6 4177886.6 51.3 3.40 4.33
3.16 NO
L0006952 0 0.40323E-02 629393.2 4177895.9 51.1 3.40 4.33
3.16 NO
L0006953 0 0.40323E-02 629392.8 4177905.2 51.0 3.40 4.33
3.16 NO
L0006954 0 0.40323E-02 629392.5 4177914.5 50.9 3.40 4.33

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE BY	EMISSION RATE SCALAR VARY
L0006955	0	0.40323E-02	629392.1	4177923.8	50.8	3.40	4.33	3.16	NO	
L0006956	0	0.40323E-02	629391.7	4177933.1	50.7	3.40	4.33	3.16	NO	
L0006957	0	0.40323E-02	629391.3	4177942.4	50.6	3.40	4.33	3.16	NO	
L0006958	0	0.40323E-02	629390.9	4177951.7	50.5	3.40	4.33	3.16	NO	
L0006959	0	0.40323E-02	629390.5	4177960.9	50.4	3.40	4.33	3.16	NO	
L0006960	0	0.40323E-02	629390.2	4177970.2	50.3	3.40	4.33	3.16	NO	
L0006961	0	0.40323E-02	629389.8	4177979.5	50.2	3.40	4.33	3.16	NO	
L0006962	0	0.40323E-02	629389.4	4177988.8	50.1	3.40	4.33	3.16	NO	
L0006963	0	0.40323E-02	629389.0	4177998.1	50.0	3.40	4.33	3.16	NO	
L0006964	0	0.40323E-02	629388.6	4178007.4	49.9	3.40	4.33	3.16	NO	
L0006965	0	0.40323E-02	629388.2	4178016.7	49.8	3.40	4.33	3.16	NO	
L0006966	0	0.40323E-02	629387.8	4178026.0	49.7	3.40	4.33	3.16	NO	
L0006967	0	0.40323E-02	629387.5	4178035.3	49.5	3.40	4.33	3.16	NO	
L0006968	0	0.40323E-02	629387.1	4178044.6	49.4	3.40	4.33	3.16	NO	
L0006969	0	0.40323E-02	629386.7	4178053.9	49.3	3.40	4.33			

3.16 NO
L0006970 0 0.40323E-02 629386.3 4178063.2 49.2 3.40 4.33
3.16 NO
L0006971 0 0.40323E-02 629385.9 4178072.5 49.1 3.40 4.33
3.16 NO
L0006972 0 0.40323E-02 629385.5 4178081.7 49.0 3.40 4.33
3.16 NO
L0006973 0 0.40323E-02 629385.2 4178091.0 48.9 3.40 4.33
3.16 NO
L0006974 0 0.40323E-02 629384.8 4178100.3 48.8 3.40 4.33
3.16 NO
L0006975 0 0.40323E-02 629384.4 4178109.6 48.8 3.40 4.33
3.16 NO
L0006976 0 0.40323E-02 629384.0 4178118.9 48.7 3.40 4.33
3.16 NO
L0006977 0 0.40323E-02 629383.6 4178128.2 48.6 3.40 4.33
3.16 NO
L0006978 0 0.40323E-02 629383.2 4178137.5 48.5 3.40 4.33
3.16 NO
L0006979 0 0.40323E-02 629382.9 4178146.8 48.4 3.40 4.33
3.16 NO
L0006980 0 0.40323E-02 629382.5 4178156.1 48.3 3.40 4.33
3.16 NO
L0006981 0 0.40323E-02 629382.1 4178165.4 48.2 3.40 4.33
3.16 NO
L0006982 0 0.40323E-02 629381.7 4178174.7 48.1 3.40 4.33
3.16 NO
L0006983 0 0.40323E-02 629381.3 4178184.0 48.0 3.40 4.33
3.16 NO
L0006984 0 0.40323E-02 629380.9 4178193.2 48.0 3.40 4.33
3.16 NO
L0006985 0 0.40323E-02 629380.6 4178202.5 48.1 3.40 4.33
3.16 NO
L0006986 0 0.40323E-02 629380.2 4178211.8 48.2 3.40 4.33
3.16 NO
L0006987 0 0.40323E-02 629379.8 4178221.1 48.0 3.40 4.33
3.16 NO
L0006988 0 0.40323E-02 629379.4 4178230.4 47.6 3.40 4.33
3.16 NO
L0006989 0 0.40323E-02 629379.0 4178239.7 47.4 3.40 4.33
3.16 NO
L0006990 0 0.40323E-02 629378.6 4178249.0 47.4 3.40 4.33
3.16 NO
L0006991 0 0.40323E-02 629378.2 4178258.3 47.4 3.40 4.33
3.16 NO
L0006992 0 0.40323E-02 629377.9 4178267.6 47.4 3.40 4.33
3.16 NO
L0006993 0 0.40323E-02 629377.5 4178276.9 47.3 3.40 4.33
3.16 NO
L0006994 0 0.40323E-02 629377.1 4178286.2 48.0 3.40 4.33

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE BY	EMISSION RATE SCALAR VARY
L0006995	0	0.40323E-02	629376.7	4178295.5	51.1	3.40	4.33	3.16	NO	
L0006996	0	0.40323E-02	629376.3	4178304.8	53.2	3.40	4.33	3.16	NO	
L0006997	0	0.40323E-02	629375.9	4178314.0	54.0	3.40	4.33	3.16	NO	
L0006998	0	0.24390E-01	629403.6	4176012.9	70.4	0.00	4.33	3.16	NO	
L0006999	0	0.24390E-01	629394.9	4176009.5	70.6	0.00	4.33	3.16	NO	
L0007000	0	0.24390E-01	629386.3	4176006.2	70.8	0.00	4.33	3.16	NO	
L0007001	0	0.24390E-01	629379.9	4175999.9	71.0	0.00	4.33	3.16	NO	
L0007002	0	0.24390E-01	629374.6	4175992.3	71.1	0.00	4.33	3.16	NO	
L0007003	0	0.24390E-01	629369.2	4175984.6	71.2	0.00	4.33	3.16	NO	
L0007004	0	0.24390E-01	629363.9	4175977.0	71.5	0.00	4.33	3.16	NO	
L0007005	0	0.24390E-01	629358.6	4175969.4	71.7	0.00	4.33	3.16	NO	
L0007006	0	0.24390E-01	629353.3	4175961.8	71.8	0.00	4.33	3.16	NO	
L0007007	0	0.24390E-01	629347.9	4175954.1	71.8	0.00	4.33	3.16	NO	
L0007008	0	0.24390E-01	629342.4	4175946.7	71.9	0.00	4.33	3.16	NO	
L0007009	0	0.24390E-01	629336.0	4175939.9	72.0	0.00	4.33			

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3.16     NO
 L0007010         0   0.24390E-01  629329.6 4175933.2    72.0     0.00     4.33
3.16     NO
 L0007011         0   0.24390E-01  629323.2 4175926.4    72.1     0.00     4.33
3.16     NO
 L0007012         0   0.24390E-01  629316.8 4175919.7    72.2     0.00     4.33
3.16     NO
 L0007013         0   0.24390E-01  629309.7 4175913.7    72.3     0.00     4.33
3.16     NO
 L0007014         0   0.24390E-01  629302.4 4175908.0    72.4     0.00     4.33
3.16     NO
 L0007015         0   0.24390E-01  629295.0 4175902.4    72.5     0.00     4.33
3.16     NO
 L0007016         0   0.24390E-01  629287.6 4175896.7    72.6     0.00     4.33
3.16     NO
 L0007017         0   0.24390E-01  629280.2 4175891.0    72.8     0.00     4.33
3.16     NO
 L0007018         0   0.24390E-01  629272.9 4175885.3    72.9     0.00     4.33
3.16     NO
 L0007019         0   0.24390E-01  629265.7 4175879.4    73.1     0.00     4.33
3.16     NO
 L0007020         0   0.24390E-01  629258.4 4175873.6    73.3     0.00     4.33
3.16     NO
 L0007021         0   0.24390E-01  629251.2 4175867.8    73.4     0.00     4.33
3.16     NO
 L0007022         0   0.24390E-01  629243.9 4175862.0    73.6     0.00     4.33
3.16     NO
 L0007023         0   0.24390E-01  629236.7 4175856.1    73.8     0.00     4.33
3.16     NO
 L0007024         0   0.24390E-01  629229.4 4175850.3    73.9     0.00     4.33
3.16     NO
 L0007025         0   0.24390E-01  629222.2 4175844.5    74.3     0.00     4.33
3.16     NO
 L0007026         0   0.24390E-01  629214.9 4175838.7    74.6     0.00     4.33
3.16     NO
 L0007027         0   0.24390E-01  629207.7 4175832.8    75.0     0.00     4.33
3.16     NO
 L0007028         0   0.24390E-01  629200.4 4175827.0    75.5     0.00     4.33
3.16     NO
 L0007029         0   0.24390E-01  629193.2 4175821.2    75.8     0.00     4.33
3.16     NO
 L0007030         0   0.24390E-01  629185.9 4175815.4    76.2     0.00     4.33
3.16     NO
 L0007031         0   0.24390E-01  629178.7 4175809.5    76.7     0.00     4.33
3.16     NO
 L0007032         0   0.24390E-01  629171.6 4175803.6    77.4     0.00     4.33
3.16     NO
 L0007033         0   0.24390E-01  629164.4 4175797.6    78.0     0.00     4.33
3.16     NO
 L0007034         0   0.24390E-01  629157.2 4175791.7    78.5     0.00     4.33
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3.16     NO
 L0007035         0   0.24390E-01  629150.1 4175785.8    79.1     0.00     4.33
3.16     NO
 L0007036         0   0.24390E-01  629142.9 4175779.9    79.5     0.00     4.33
3.16     NO
 L0007037         0   0.24390E-01  629135.7 4175774.0    80.1     0.00     4.33
3.16     NO
↑ *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                         ***       01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                       ***       15:43:26

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                  *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.              (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - -

 L0007038         0   0.24390E-01  629128.5 4175768.0    81.3     0.00     4.33
3.16     NO
 L0007039         0   0.17857E-01  632905.6 4175860.1    39.1     4.00     1.53
3.16     NO
 L0007040         0   0.17857E-01  632908.9 4175860.1    39.1     4.00     1.53
3.16     NO
 L0007041         0   0.17857E-01  632912.2 4175860.1    39.0     4.00     1.53
3.16     NO
 L0007042         0   0.17857E-01  632915.5 4175860.1    39.0     4.00     1.53
3.16     NO
 L0007043         0   0.17857E-01  632918.8 4175860.2    39.0     4.00     1.53
3.16     NO
 L0007044         0   0.17857E-01  632922.1 4175860.2    39.0     4.00     1.53
3.16     NO
 L0007045         0   0.17857E-01  632925.4 4175860.2    39.0     4.00     1.53
3.16     NO
 L0007046         0   0.17857E-01  632928.7 4175860.3    39.0     4.00     1.53
3.16     NO
 L0007047         0   0.17857E-01  632932.0 4175860.3    39.0     4.00     1.53
3.16     NO
 L0007048         0   0.17857E-01  632935.3 4175860.3    38.9     4.00     1.53
3.16     NO
 L0007049         0   0.17857E-01  632938.6 4175860.3    38.9     4.00     1.53
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3.16 NO
L0007050 0 0.17857E-01 632941.9 4175860.4 38.9 4.00 1.53
3.16 NO
L0007051 0 0.17857E-01 632945.2 4175860.4 38.9 4.00 1.53
3.16 NO
L0007052 0 0.17857E-01 632948.5 4175860.4 38.9 4.00 1.53
3.16 NO
L0007053 0 0.17857E-01 632951.8 4175860.5 38.9 4.00 1.53
3.16 NO
L0007054 0 0.17857E-01 632955.1 4175860.5 38.9 4.00 1.53
3.16 NO
L0007055 0 0.17857E-01 632958.4 4175860.5 38.8 4.00 1.53
3.16 NO
L0007056 0 0.17857E-01 632961.7 4175860.5 38.8 4.00 1.53
3.16 NO
L0007057 0 0.17857E-01 632965.0 4175860.6 38.8 4.00 1.53
3.16 NO
L0007058 0 0.17857E-01 632968.3 4175860.6 38.8 4.00 1.53
3.16 NO
L0007059 0 0.17857E-01 632971.6 4175860.6 38.7 4.00 1.53
3.16 NO
L0007060 0 0.17857E-01 632974.9 4175860.7 38.7 4.00 1.53
3.16 NO
L0007061 0 0.17857E-01 632978.2 4175860.7 38.7 4.00 1.53
3.16 NO
L0007062 0 0.17857E-01 632981.5 4175860.7 38.6 4.00 1.53
3.16 NO
L0007063 0 0.17857E-01 632984.8 4175860.7 38.6 4.00 1.53
3.16 NO
L0007064 0 0.17857E-01 632988.1 4175860.8 38.6 4.00 1.53
3.16 NO
L0007065 0 0.17857E-01 632991.4 4175860.8 38.5 4.00 1.53
3.16 NO
L0007066 0 0.17857E-01 632994.7 4175860.8 38.5 4.00 1.53
3.16 NO
L0007067 0 0.17857E-01 632998.0 4175860.9 38.4 4.00 1.53
3.16 NO
L0007068 0 0.17857E-01 633001.3 4175860.9 38.4 4.00 1.53
3.16 NO
L0007069 0 0.17857E-01 633004.6 4175860.9 38.4 4.00 1.53
3.16 NO
L0007070 0 0.17857E-01 633007.9 4175860.9 38.3 4.00 1.53
3.16 NO
L0007071 0 0.17857E-01 633011.2 4175861.0 38.3 4.00 1.53
3.16 NO
L0007072 0 0.17857E-01 633014.5 4175861.0 38.3 4.00 1.53
3.16 NO
L0007073 0 0.17857E-01 633017.8 4175861.0 38.2 4.00 1.53
3.16 NO
L0007074 0 0.17857E-01 633021.1 4175861.1 38.2 4.00 1.53

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3.16     NO
 L0007075         0   0.17857E-01  633024.4 4175861.1    38.2     4.00     1.53
3.16     NO
 L0007076         0   0.17857E-01  633027.7 4175861.1    38.2     4.00     1.53
3.16     NO
 L0007077         0   0.17857E-01  633031.0 4175861.1    38.1     4.00     1.53
3.16     NO
↑ *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                        ***        01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                       ***        15:43:26

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                  *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)              BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - -

 L0007078         0   0.17857E-01  633034.3 4175861.2    38.1     4.00     1.53
3.16     NO
 L0007079         0   0.17857E-01  633037.6 4175861.2    38.1     4.00     1.53
3.16     NO
 L0007080         0   0.17857E-01  633040.9 4175861.2    38.1     4.00     1.53
3.16     NO
 L0007081         0   0.17857E-01  633044.2 4175861.3    38.0     4.00     1.53
3.16     NO
 L0007082         0   0.17857E-01  633047.5 4175861.3    38.0     4.00     1.53
3.16     NO
 L0007083         0   0.17857E-01  633050.8 4175861.3    38.0     4.00     1.53
3.16     NO
 L0007084         0   0.17857E-01  633054.1 4175861.3    38.0     4.00     1.53
3.16     NO
 L0007085         0   0.17857E-01  633057.4 4175861.4    37.9     4.00     1.53
3.16     NO
 L0007086         0   0.17857E-01  633060.7 4175861.4    37.9     4.00     1.53
3.16     NO
 L0007087         0   0.17857E-01  633064.0 4175861.4    37.9     4.00     1.53
3.16     NO
 L0007088         0   0.17857E-01  633067.3 4175861.5    37.8     4.00     1.53
3.16     NO
 L0007089         0   0.17857E-01  633070.6 4175861.5    37.8     4.00     1.53
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3.16 NO
L0007090 0 0.17857E-01 633073.9 4175861.5 37.8 4.00 1.53
3.16 NO
L0007091 0 0.17857E-01 633077.2 4175861.5 37.7 4.00 1.53
3.16 NO
L0007092 0 0.17857E-01 633080.5 4175861.6 37.7 4.00 1.53
3.16 NO
L0007093 0 0.17857E-01 633083.8 4175861.6 37.6 4.00 1.53
3.16 NO
L0007094 0 0.17857E-01 633087.1 4175861.6 37.6 4.00 1.53
3.16 NO
L0007095 0 0.17544E-01 632901.9 4175743.2 39.5 4.00 1.53
3.16 NO
L0007096 0 0.17544E-01 632905.2 4175743.2 39.4 4.00 1.53
3.16 NO
L0007097 0 0.17544E-01 632908.5 4175743.2 39.4 4.00 1.53
3.16 NO
L0007098 0 0.17544E-01 632911.8 4175743.2 39.4 4.00 1.53
3.16 NO
L0007099 0 0.17544E-01 632915.1 4175743.3 39.4 4.00 1.53
3.16 NO
L0007100 0 0.17544E-01 632918.4 4175743.3 39.4 4.00 1.53
3.16 NO
L0007101 0 0.17544E-01 632921.7 4175743.3 39.4 4.00 1.53
3.16 NO
L0007102 0 0.17544E-01 632925.0 4175743.3 39.4 4.00 1.53
3.16 NO
L0007103 0 0.17544E-01 632928.3 4175743.3 39.4 4.00 1.53
3.16 NO
L0007104 0 0.17544E-01 632931.6 4175743.3 39.4 4.00 1.53
3.16 NO
L0007105 0 0.17544E-01 632934.9 4175743.4 39.4 4.00 1.53
3.16 NO
L0007106 0 0.17544E-01 632938.2 4175743.4 39.4 4.00 1.53
3.16 NO
L0007107 0 0.17544E-01 632941.5 4175743.4 39.4 4.00 1.53
3.16 NO
L0007108 0 0.17544E-01 632944.8 4175743.4 39.4 4.00 1.53
3.16 NO
L0007109 0 0.17544E-01 632948.1 4175743.4 39.4 4.00 1.53
3.16 NO
L0007110 0 0.17544E-01 632951.4 4175743.5 39.3 4.00 1.53
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L0007111 0 0.17544E-01 632954.7 4175743.5 39.3 4.00 1.53
3.16 NO
L0007112 0 0.17544E-01 632958.0 4175743.5 39.3 4.00 1.53
3.16 NO
L0007113 0 0.17544E-01 632961.3 4175743.5 39.3 4.00 1.53
3.16 NO
L0007114 0 0.17544E-01 632964.6 4175743.5 39.3 4.00 1.53

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE BY	EMISSION RATE SCALAR VARY
L0007115	0	0.17544E-01	632967.9	4175743.6	39.3	4.00	1.53	3.16	NO	
L0007116	0	0.17544E-01	632971.2	4175743.6	39.3	4.00	1.53	3.16	NO	
L0007117	0	0.17544E-01	632974.5	4175743.6	39.3	4.00	1.53	3.16	NO	
L0007118	0	0.17544E-01	632977.8	4175743.6	39.3	4.00	1.53	3.16	NO	
L0007119	0	0.17544E-01	632981.1	4175743.6	39.3	4.00	1.53	3.16	NO	
L0007120	0	0.17544E-01	632984.4	4175743.6	39.3	4.00	1.53	3.16	NO	
L0007121	0	0.17544E-01	632987.7	4175743.7	39.3	4.00	1.53	3.16	NO	
L0007122	0	0.17544E-01	632991.0	4175743.7	39.3	4.00	1.53	3.16	NO	
L0007123	0	0.17544E-01	632994.3	4175743.7	39.3	4.00	1.53	3.16	NO	
L0007124	0	0.17544E-01	632997.6	4175743.7	39.3	4.00	1.53	3.16	NO	
L0007125	0	0.17544E-01	633000.9	4175743.7	39.3	4.00	1.53	3.16	NO	
L0007126	0	0.17544E-01	633004.2	4175743.8	39.3	4.00	1.53	3.16	NO	
L0007127	0	0.17544E-01	633007.5	4175743.8	39.3	4.00	1.53	3.16	NO	
L0007128	0	0.17544E-01	633010.8	4175743.8	39.3	4.00	1.53	3.16	NO	
L0007129	0	0.17544E-01	633014.1	4175743.8	39.3	4.00	1.53			

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L0007130 0 0.17544E-01 633017.4 4175743.8 39.2 4.00 1.53
3.16 NO
L0007131 0 0.17544E-01 633020.7 4175743.9 39.2 4.00 1.53
3.16 NO
L0007132 0 0.17544E-01 633024.0 4175743.9 39.2 4.00 1.53
3.16 NO
L0007133 0 0.17544E-01 633027.3 4175743.9 39.2 4.00 1.53
3.16 NO
L0007134 0 0.17544E-01 633030.6 4175743.9 39.1 4.00 1.53
3.16 NO
L0007135 0 0.17544E-01 633033.9 4175743.9 39.1 4.00 1.53
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3.16 NO
L0007137 0 0.17544E-01 633040.5 4175744.0 39.1 4.00 1.53
3.16 NO
L0007138 0 0.17544E-01 633043.8 4175744.0 39.0 4.00 1.53
3.16 NO
L0007139 0 0.17544E-01 633047.1 4175744.0 39.0 4.00 1.53
3.16 NO
L0007140 0 0.17544E-01 633050.4 4175744.0 39.0 4.00 1.53
3.16 NO
L0007141 0 0.17544E-01 633053.7 4175744.0 39.0 4.00 1.53
3.16 NO
L0007142 0 0.17544E-01 633057.0 4175744.1 39.0 4.00 1.53
3.16 NO
L0007143 0 0.17544E-01 633060.3 4175744.1 39.0 4.00 1.53
3.16 NO
L0007144 0 0.17544E-01 633063.6 4175744.1 39.0 4.00 1.53
3.16 NO
L0007145 0 0.17544E-01 633066.9 4175744.1 39.0 4.00 1.53
3.16 NO
L0007146 0 0.17544E-01 633070.2 4175744.1 39.0 4.00 1.53
3.16 NO
L0007147 0 0.17544E-01 633073.5 4175744.2 39.0 4.00 1.53
3.16 NO
L0007148 0 0.17544E-01 633076.8 4175744.2 39.0 4.00 1.53
3.16 NO
L0007149 0 0.17544E-01 633080.1 4175744.2 39.0 4.00 1.53
3.16 NO
L0007150 0 0.17544E-01 633083.4 4175744.2 39.1 4.00 1.53
3.16 NO
L0007151 0 0.17544E-01 633086.7 4175744.2 39.1 4.00 1.53
3.16 NO
L0007152 0 0.25641E-01 633189.0 4175883.8 36.4 4.00 1.53
3.16 NO
L0007153 0 0.25641E-01 633189.1 4175880.5 36.5 4.00 1.53
3.16 NO
L0007154 0 0.25641E-01 633189.1 4175877.2 36.5 4.00 1.53

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE BY	EMISSION RATE SCALAR VARY
L0007155	0	0.25641E-01	633189.1	4175873.9	36.6	4.00	1.53	3.16	NO	
L0007156	0	0.25641E-01	633189.1	4175870.6	36.6	4.00	1.53	3.16	NO	
L0007157	0	0.25641E-01	633189.2	4175867.3	36.7	4.00	1.53	3.16	NO	
L0007158	0	0.25641E-01	633189.2	4175864.0	36.8	4.00	1.53	3.16	NO	
L0007159	0	0.25641E-01	633189.2	4175860.7	36.8	4.00	1.53	3.16	NO	
L0007160	0	0.25641E-01	633189.3	4175857.4	36.9	4.00	1.53	3.16	NO	
L0007161	0	0.25641E-01	633189.3	4175854.1	36.9	4.00	1.53	3.16	NO	
L0007162	0	0.25641E-01	633189.3	4175850.8	37.0	4.00	1.53	3.16	NO	
L0007163	0	0.25641E-01	633189.3	4175847.5	37.0	4.00	1.53	3.16	NO	
L0007164	0	0.25641E-01	633189.4	4175844.2	37.1	4.00	1.53	3.16	NO	
L0007165	0	0.25641E-01	633189.4	4175840.9	37.1	4.00	1.53	3.16	NO	
L0007166	0	0.25641E-01	633189.4	4175837.6	37.2	4.00	1.53	3.16	NO	
L0007167	0	0.25641E-01	633189.4	4175834.3	37.2	4.00	1.53	3.16	NO	
L0007168	0	0.25641E-01	633189.5	4175831.0	37.2	4.00	1.53	3.16	NO	
L0007169	0	0.25641E-01	633189.5	4175827.7	37.2	4.00	1.53			

3.16 NO
L0007170 0 0.25641E-01 633189.5 4175824.4 37.3 4.00 1.53
3.16 NO
L0007171 0 0.25641E-01 633189.6 4175821.1 37.3 4.00 1.53
3.16 NO
L0007172 0 0.25641E-01 633189.6 4175817.8 37.3 4.00 1.53
3.16 NO
L0007173 0 0.25641E-01 633189.6 4175814.5 37.3 4.00 1.53
3.16 NO
L0007174 0 0.25641E-01 633189.6 4175811.2 37.3 4.00 1.53
3.16 NO
L0007175 0 0.25641E-01 633189.7 4175807.9 37.3 4.00 1.53
3.16 NO
L0007176 0 0.25641E-01 633189.7 4175804.6 37.4 4.00 1.53
3.16 NO
L0007177 0 0.25641E-01 633189.7 4175801.3 37.4 4.00 1.53
3.16 NO
L0007178 0 0.25641E-01 633189.7 4175798.0 37.4 4.00 1.53
3.16 NO
L0007179 0 0.25641E-01 633189.8 4175794.7 37.4 4.00 1.53
3.16 NO
L0007180 0 0.25641E-01 633189.8 4175791.4 37.4 4.00 1.53
3.16 NO
L0007181 0 0.25641E-01 633189.8 4175788.1 37.4 4.00 1.53
3.16 NO
L0007182 0 0.25641E-01 633189.9 4175784.8 37.4 4.00 1.53
3.16 NO
L0007183 0 0.25641E-01 633189.9 4175781.5 37.4 4.00 1.53
3.16 NO
L0007184 0 0.25641E-01 633189.9 4175778.2 37.4 4.00 1.53
3.16 NO
L0007185 0 0.25641E-01 633189.9 4175774.9 37.4 4.00 1.53
3.16 NO
L0007186 0 0.25641E-01 633190.0 4175771.6 37.4 4.00 1.53
3.16 NO
L0007187 0 0.25641E-01 633190.0 4175768.3 37.4 4.00 1.53
3.16 NO
L0007188 0 0.25641E-01 633190.0 4175765.0 37.4 4.00 1.53
3.16 NO
L0007189 0 0.25641E-01 633190.0 4175761.7 37.4 4.00 1.53
3.16 NO
L0007190 0 0.25641E-01 633190.1 4175758.4 37.4 4.00 1.53
3.16 NO
L0007191 0 0.45662E-02 632904.0 4175835.2 39.0 3.40 1.53
3.16 NO
L0007192 0 0.45662E-02 632907.3 4175835.2 39.0 3.40 1.53
3.16 NO
L0007193 0 0.45662E-02 632910.6 4175835.2 39.0 3.40 1.53
3.16 NO
L0007194 0 0.45662E-02 632913.9 4175835.2 39.0 3.40 1.53

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3.16     NO
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3.16     NO
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3.16     NO
 L0007197         0   0.45662E-02  632923.8 4175835.3    39.0     3.40     1.53
3.16     NO
♠ *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                        ***        01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                       ***        15:43:26

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                  *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)              BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - -

 L0007198         0   0.45662E-02  632927.1 4175835.3    39.0     3.40     1.53
3.16     NO
 L0007199         0   0.45662E-02  632930.4 4175835.3    39.0     3.40     1.53
3.16     NO
 L0007200         0   0.45662E-02  632933.7 4175835.3    38.9     3.40     1.53
3.16     NO
 L0007201         0   0.45662E-02  632937.0 4175835.3    38.9     3.40     1.53
3.16     NO
 L0007202         0   0.45662E-02  632940.3 4175835.4    38.9     3.40     1.53
3.16     NO
 L0007203         0   0.45662E-02  632943.6 4175835.4    38.9     3.40     1.53
3.16     NO
 L0007204         0   0.45662E-02  632946.9 4175835.4    38.9     3.40     1.53
3.16     NO
 L0007205         0   0.45662E-02  632950.2 4175835.4    38.9     3.40     1.53
3.16     NO
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3.16     NO
 L0007207         0   0.45662E-02  632956.8 4175835.4    38.9     3.40     1.53
3.16     NO
 L0007208         0   0.45662E-02  632960.1 4175835.4    38.9     3.40     1.53
3.16     NO
 L0007209         0   0.45662E-02  632963.4 4175835.5    38.8     3.40     1.53
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3.16 NO
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3.16 NO
L0007212 0 0.45662E-02 632973.3 4175835.5 38.8 3.40 1.53
3.16 NO
L0007213 0 0.45662E-02 632976.6 4175835.5 38.7 3.40 1.53
3.16 NO
L0007214 0 0.45662E-02 632979.9 4175835.5 38.7 3.40 1.53
3.16 NO
L0007215 0 0.45662E-02 632983.2 4175835.5 38.7 3.40 1.53
3.16 NO
L0007216 0 0.45662E-02 632986.5 4175835.6 38.6 3.40 1.53
3.16 NO
L0007217 0 0.45662E-02 632989.8 4175835.6 38.6 3.40 1.53
3.16 NO
L0007218 0 0.45662E-02 632993.1 4175835.6 38.6 3.40 1.53
3.16 NO
L0007219 0 0.45662E-02 632996.4 4175835.6 38.5 3.40 1.53
3.16 NO
L0007220 0 0.45662E-02 632999.7 4175835.6 38.5 3.40 1.53
3.16 NO
L0007221 0 0.45662E-02 633003.0 4175835.6 38.5 3.40 1.53
3.16 NO
L0007222 0 0.45662E-02 633006.3 4175835.6 38.5 3.40 1.53
3.16 NO
L0007223 0 0.45662E-02 633009.6 4175835.7 38.5 3.40 1.53
3.16 NO
L0007224 0 0.45662E-02 633012.9 4175835.7 38.5 3.40 1.53
3.16 NO
L0007225 0 0.45662E-02 633016.2 4175835.7 38.4 3.40 1.53
3.16 NO
L0007226 0 0.45662E-02 633019.5 4175835.7 38.4 3.40 1.53
3.16 NO
L0007227 0 0.45662E-02 633022.8 4175835.7 38.4 3.40 1.53
3.16 NO
L0007228 0 0.45662E-02 633026.1 4175835.7 38.4 3.40 1.53
3.16 NO
L0007229 0 0.45662E-02 633029.4 4175835.7 38.4 3.40 1.53
3.16 NO
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3.16 NO
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3.16 NO
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3.16 NO
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3.16 NO
L0007234 0 0.45662E-02 633045.9 4175835.8 38.3 3.40 1.53

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3.16     NO
 L0007237         0   0.45662E-02  633055.8 4175835.9    38.2     3.40     1.53
3.16     NO
↑ *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                        ***        01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                       ***        15:43:26

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                  *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)              BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - -

 L0007238         0   0.45662E-02  633059.1 4175835.9    38.1     3.40     1.53
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3.16     NO
 L0007241         0   0.45662E-02  633069.0 4175835.9    38.0     3.40     1.53
3.16     NO
 L0007242         0   0.45662E-02  633072.3 4175835.9    38.0     3.40     1.53
3.16     NO
 L0007243         0   0.45662E-02  633075.6 4175836.0    37.9     3.40     1.53
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 L0007244         0   0.45662E-02  633078.9 4175836.0    37.9     3.40     1.53
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 L0007245         0   0.45662E-02  633082.2 4175836.0    37.8     3.40     1.53
3.16     NO
 L0007246         0   0.45662E-02  633085.5 4175836.0    37.8     3.40     1.53
3.16     NO
 L0007247         0   0.45662E-02  633088.8 4175836.0    37.7     3.40     1.53
3.16     NO
 L0007248         0   0.45662E-02  633092.1 4175836.0    37.7     3.40     1.53
3.16     NO
 L0007249         0   0.45662E-02  633095.4 4175836.0    37.7     3.40     1.53
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3.16 NO
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3.16 NO
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3.16 NO
L0007254 0 0.45662E-02 633111.9 4175836.1 37.6 3.40 1.53
3.16 NO
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3.16 NO
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3.16 NO
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3.16 NO
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L0007266 0 0.45662E-02 633143.1 4175844.8 37.4 3.40 1.53
3.16 NO
L0007267 0 0.45662E-02 633143.1 4175848.1 37.3 3.40 1.53
3.16 NO
L0007268 0 0.45662E-02 633143.2 4175851.4 37.3 3.40 1.53
3.16 NO
L0007269 0 0.45662E-02 633143.2 4175854.7 37.2 3.40 1.53
3.16 NO
L0007270 0 0.45662E-02 633143.3 4175858.0 37.2 3.40 1.53
3.16 NO
L0007271 0 0.45662E-02 633143.3 4175861.3 37.2 3.40 1.53
3.16 NO
L0007272 0 0.45662E-02 633143.3 4175864.6 37.1 3.40 1.53
3.16 NO
L0007273 0 0.45662E-02 633143.4 4175867.9 37.1 3.40 1.53
3.16 NO
L0007274 0 0.45662E-02 633143.4 4175871.2 37.1 3.40 1.53

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE BY	EMISSION RATE SCALAR VARY
L0007278	0	0.45662E-02	633144.1	4175883.8	37.1	3.40	1.53	3.16	NO	
L0007279	0	0.45662E-02	633147.4	4175883.8	37.0	3.40	1.53	3.16	NO	
L0007280	0	0.45662E-02	633150.7	4175883.8	37.0	3.40	1.53	3.16	NO	
L0007281	0	0.45662E-02	633154.0	4175883.8	36.9	3.40	1.53	3.16	NO	
L0007282	0	0.45662E-02	633157.3	4175883.8	36.9	3.40	1.53	3.16	NO	
L0007283	0	0.45662E-02	633160.6	4175883.8	36.9	3.40	1.53	3.16	NO	
L0007284	0	0.45662E-02	633163.9	4175883.8	36.8	3.40	1.53	3.16	NO	
L0007285	0	0.45662E-02	633167.2	4175883.8	36.8	3.40	1.53	3.16	NO	
L0007286	0	0.45662E-02	633169.5	4175882.8	36.8	3.40	1.53	3.16	NO	
L0007287	0	0.45662E-02	633169.5	4175879.5	36.8	3.40	1.53	3.16	NO	
L0007288	0	0.45662E-02	633169.6	4175876.2	36.8	3.40	1.53	3.16	NO	
L0007289	0	0.45662E-02	633169.6	4175872.9	36.9	3.40	1.53			

3.16 NO
L0007290 0 0.45662E-02 633169.6 4175869.6 36.9 3.40 1.53
3.16 NO
L0007291 0 0.45662E-02 633169.7 4175866.3 36.9 3.40 1.53
3.16 NO
L0007292 0 0.45662E-02 633169.7 4175863.0 37.0 3.40 1.53
3.16 NO
L0007293 0 0.45662E-02 633169.8 4175859.7 37.0 3.40 1.53
3.16 NO
L0007294 0 0.45662E-02 633169.8 4175856.4 37.1 3.40 1.53
3.16 NO
L0007295 0 0.45662E-02 633169.9 4175853.1 37.1 3.40 1.53
3.16 NO
L0007296 0 0.45662E-02 633169.9 4175849.8 37.2 3.40 1.53
3.16 NO
L0007297 0 0.45662E-02 633169.9 4175846.5 37.2 3.40 1.53
3.16 NO
L0007298 0 0.45662E-02 633170.0 4175843.2 37.3 3.40 1.53
3.16 NO
L0007299 0 0.45662E-02 633170.0 4175839.9 37.3 3.40 1.53
3.16 NO
L0007300 0 0.45662E-02 633170.1 4175836.6 37.4 3.40 1.53
3.16 NO
L0007301 0 0.45662E-02 633170.1 4175833.3 37.4 3.40 1.53
3.16 NO
L0007302 0 0.45662E-02 633170.2 4175830.0 37.5 3.40 1.53
3.16 NO
L0007303 0 0.45662E-02 633170.2 4175826.7 37.5 3.40 1.53
3.16 NO
L0007304 0 0.45662E-02 633170.2 4175823.4 37.5 3.40 1.53
3.16 NO
L0007305 0 0.45662E-02 633170.3 4175820.1 37.5 3.40 1.53
3.16 NO
L0007306 0 0.45662E-02 633170.3 4175816.8 37.6 3.40 1.53
3.16 NO
L0007307 0 0.45662E-02 633170.4 4175813.5 37.6 3.40 1.53
3.16 NO
L0007308 0 0.45662E-02 633170.4 4175810.2 37.6 3.40 1.53
3.16 NO
L0007309 0 0.45662E-02 633170.5 4175806.9 37.6 3.40 1.53
3.16 NO
L0007310 0 0.45662E-02 633170.5 4175803.6 37.6 3.40 1.53
3.16 NO
L0007311 0 0.45662E-02 633170.6 4175800.3 37.6 3.40 1.53
3.16 NO
L0007312 0 0.45662E-02 633170.6 4175797.0 37.6 3.40 1.53
3.16 NO
L0007313 0 0.45662E-02 633170.6 4175793.7 37.6 3.40 1.53
3.16 NO
L0007314 0 0.45662E-02 633170.7 4175790.4 37.7 3.40 1.53

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE VARY BY
L0007315	0	0.45662E-02	633170.7	4175787.1	37.7	3.40	1.53	3.16	NO	
L0007316	0	0.45662E-02	633170.8	4175783.8	37.7	3.40	1.53	3.16	NO	
L0007317	0	0.45662E-02	633170.8	4175780.5	37.7	3.40	1.53	3.16	NO	
L0007318	0	0.45662E-02	633170.9	4175777.2	37.7	3.40	1.53	3.16	NO	
L0007319	0	0.45662E-02	633170.9	4175773.9	37.7	3.40	1.53	3.16	NO	
L0007320	0	0.45662E-02	633170.9	4175770.6	37.8	3.40	1.53	3.16	NO	
L0007321	0	0.45662E-02	633171.0	4175767.3	37.8	3.40	1.53	3.16	NO	
L0007322	0	0.45662E-02	633171.0	4175764.0	37.8	3.40	1.53	3.16	NO	
L0007323	0	0.45662E-02	633168.5	4175763.3	37.9	3.40	1.53	3.16	NO	
L0007324	0	0.45662E-02	633165.2	4175763.3	38.0	3.40	1.53	3.16	NO	
L0007325	0	0.45662E-02	633161.9	4175763.3	38.0	3.40	1.53	3.16	NO	
L0007326	0	0.45662E-02	633158.6	4175763.3	38.1	3.40	1.53	3.16	NO	
L0007327	0	0.45662E-02	633155.3	4175763.3	38.2	3.40	1.53	3.16	NO	
L0007328	0	0.45662E-02	633152.9	4175764.3	38.2	3.40	1.53	3.16	NO	
L0007329	0	0.45662E-02	633152.6	4175767.6	38.2	3.40	1.53			

3.16 NO
L0007330 0 0.45662E-02 633152.2 4175770.9 38.2 3.40 1.53
3.16 NO
L0007331 0 0.45662E-02 633151.9 4175774.1 38.1 3.40 1.53
3.16 NO
L0007332 0 0.45662E-02 633151.5 4175777.4 38.1 3.40 1.53
3.16 NO
L0007333 0 0.45662E-02 633151.1 4175780.7 38.1 3.40 1.53
3.16 NO
L0007334 0 0.45662E-02 633149.3 4175782.3 38.1 3.40 1.53
3.16 NO
L0007335 0 0.45662E-02 633146.0 4175782.2 38.1 3.40 1.53
3.16 NO
L0007336 0 0.45662E-02 633142.7 4175782.1 38.2 3.40 1.53
3.16 NO
L0007337 0 0.45662E-02 633139.4 4175782.0 38.3 3.40 1.53
3.16 NO
L0007338 0 0.45662E-02 633136.1 4175781.9 38.3 3.40 1.53
3.16 NO
L0007339 0 0.45662E-02 633132.8 4175781.8 38.4 3.40 1.53
3.16 NO
L0007340 0 0.45662E-02 633129.5 4175781.7 38.4 3.40 1.53
3.16 NO
L0007341 0 0.45662E-02 633126.2 4175781.6 38.5 3.40 1.53
3.16 NO
L0007342 0 0.45662E-02 633122.9 4175781.5 38.5 3.40 1.53
3.16 NO
L0007343 0 0.45662E-02 633119.6 4175781.4 38.6 3.40 1.53
3.16 NO
L0007344 0 0.45662E-02 633116.3 4175781.4 38.6 3.40 1.53
3.16 NO
L0007345 0 0.45662E-02 633113.0 4175781.3 38.6 3.40 1.53
3.16 NO
L0007346 0 0.45662E-02 633109.7 4175781.2 38.6 3.40 1.53
3.16 NO
L0007347 0 0.45662E-02 633106.4 4175781.1 38.7 3.40 1.53
3.16 NO
L0007348 0 0.45662E-02 633103.1 4175781.0 38.7 3.40 1.53
3.16 NO
L0007349 0 0.45662E-02 633099.8 4175780.9 38.7 3.40 1.53
3.16 NO
L0007350 0 0.45662E-02 633096.5 4175780.8 38.7 3.40 1.53
3.16 NO
L0007351 0 0.45662E-02 633093.2 4175780.7 38.8 3.40 1.53
3.16 NO
L0007352 0 0.45662E-02 633089.9 4175780.6 38.7 3.40 1.53
3.16 NO
L0007353 0 0.45662E-02 633086.6 4175780.5 38.7 3.40 1.53
3.16 NO
L0007354 0 0.45662E-02 633083.3 4175780.4 38.7 3.40 1.53

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3.16     NO
 L0007355         0   0.45662E-02  633080.0 4175780.4    38.7     3.40     1.53
3.16     NO
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3.16     NO
 L0007357         0   0.45662E-02  633073.4 4175780.2    38.7     3.40     1.53
3.16     NO
↑ *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                        ***       01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                       ***       15:43:26

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                  *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.              (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - -

 L0007358         0   0.45662E-02  633070.1 4175780.1    38.6     3.40     1.53
3.16     NO
 L0007359         0   0.45662E-02  633066.8 4175780.0    38.6     3.40     1.53
3.16     NO
 L0007360         0   0.45662E-02  633063.5 4175779.9    38.6     3.40     1.53
3.16     NO
 L0007361         0   0.45662E-02  633060.2 4175779.8    38.6     3.40     1.53
3.16     NO
 L0007362         0   0.45662E-02  633056.9 4175779.7    38.7     3.40     1.53
3.16     NO
 L0007363         0   0.45662E-02  633053.6 4175779.6    38.7     3.40     1.53
3.16     NO
 L0007364         0   0.45662E-02  633050.3 4175779.5    38.7     3.40     1.53
3.16     NO
 L0007365         0   0.45662E-02  633047.0 4175779.5    38.7     3.40     1.53
3.16     NO
 L0007366         0   0.45662E-02  633043.7 4175779.4    38.8     3.40     1.53
3.16     NO
 L0007367         0   0.45662E-02  633040.4 4175779.3    38.8     3.40     1.53
3.16     NO
 L0007368         0   0.45662E-02  633037.1 4175779.2    38.8     3.40     1.53
3.16     NO
 L0007369         0   0.45662E-02  633033.8 4175779.1    38.8     3.40     1.53
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3.16 NO
L0007370 0 0.45662E-02 633030.5 4175779.0 38.9 3.40 1.53
3.16 NO
L0007371 0 0.45662E-02 633027.2 4175778.9 38.9 3.40 1.53
3.16 NO
L0007372 0 0.45662E-02 633023.9 4175778.8 38.9 3.40 1.53
3.16 NO
L0007373 0 0.45662E-02 633020.6 4175778.7 38.9 3.40 1.53
3.16 NO
L0007374 0 0.45662E-02 633017.3 4175778.6 38.9 3.40 1.53
3.16 NO
L0007375 0 0.45662E-02 633014.0 4175778.5 38.9 3.40 1.53
3.16 NO
L0007376 0 0.45662E-02 633010.7 4175778.5 38.9 3.40 1.53
3.16 NO
L0007377 0 0.45662E-02 633007.4 4175778.4 39.0 3.40 1.53
3.16 NO
L0007378 0 0.45662E-02 633004.1 4175778.3 39.0 3.40 1.53
3.16 NO
L0007379 0 0.45662E-02 633000.8 4175778.2 39.0 3.40 1.53
3.16 NO
L0007380 0 0.45662E-02 632997.5 4175778.1 38.9 3.40 1.53
3.16 NO
L0007381 0 0.45662E-02 632994.2 4175778.0 38.9 3.40 1.53
3.16 NO
L0007382 0 0.45662E-02 632990.9 4175777.9 38.9 3.40 1.53
3.16 NO
L0007383 0 0.45662E-02 632987.6 4175777.8 38.9 3.40 1.53
3.16 NO
L0007384 0 0.45662E-02 632984.3 4175777.7 38.9 3.40 1.53
3.16 NO
L0007385 0 0.45662E-02 632981.0 4175777.6 38.9 3.40 1.53
3.16 NO
L0007386 0 0.45662E-02 632977.7 4175777.6 38.9 3.40 1.53
3.16 NO
L0007387 0 0.45662E-02 632974.4 4175777.5 38.9 3.40 1.53
3.16 NO
L0007388 0 0.45662E-02 632971.1 4175777.4 38.9 3.40 1.53
3.16 NO
L0007389 0 0.45662E-02 632967.8 4175777.3 38.9 3.40 1.53
3.16 NO
L0007390 0 0.45662E-02 632964.5 4175777.2 38.9 3.40 1.53
3.16 NO
L0007391 0 0.45662E-02 632961.2 4175777.1 38.9 3.40 1.53
3.16 NO
L0007392 0 0.45662E-02 632957.9 4175777.0 38.9 3.40 1.53
3.16 NO
L0007393 0 0.45662E-02 632954.6 4175776.9 38.9 3.40 1.53
3.16 NO
L0007394 0 0.45662E-02 632951.3 4175776.8 38.9 3.40 1.53

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3.16     NO
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3.16     NO
 L0007397         0   0.45662E-02  632941.4 4175776.6    38.9     3.40     1.53
3.16     NO
🡅 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                         ***        01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                       ***        15:43:26

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                   *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)              BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - -

 L0007398         0   0.45662E-02  632938.1 4175776.5    38.9     3.40     1.53
3.16     NO
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3.16     NO
 L0007400         0   0.45662E-02  632931.5 4175776.3    38.9     3.40     1.53
3.16     NO
 L0007401         0   0.45662E-02  632928.2 4175776.2    38.9     3.40     1.53
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 L0007402         0   0.45662E-02  632924.9 4175776.1    38.9     3.40     1.53
3.16     NO
 L0007403         0   0.45662E-02  632921.6 4175776.0    38.9     3.40     1.53
3.16     NO
 L0007404         0   0.45662E-02  632918.3 4175775.9    38.9     3.40     1.53
3.16     NO
 L0007405         0   0.45662E-02  632915.0 4175775.8    38.9     3.40     1.53
3.16     NO
 L0007406         0   0.45662E-02  632911.7 4175775.7    38.9     3.40     1.53
3.16     NO
 L0007407         0   0.45662E-02  632908.4 4175775.7    38.9     3.40     1.53
3.16     NO
 L0007408         0   0.45662E-02  632905.1 4175775.6    38.9     3.40     1.53
3.16     NO
 L0007409         0   0.45662E-02  632901.9 4175775.5    38.9     3.40     1.53
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3.16 NO
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2.26 NO
L0011493 0 0.32051E-02 632905.3 4175830.6 39.0 2.42 1.05
2.26 NO
L0011494 0 0.32051E-02 632907.6 4175830.6 39.0 2.42 1.05
2.26 NO
L0011495 0 0.32051E-02 632909.8 4175830.6 39.0 2.42 1.05
2.26 NO
L0011496 0 0.32051E-02 632912.1 4175830.6 39.0 2.42 1.05
2.26 NO
L0011497 0 0.32051E-02 632914.3 4175830.6 39.0 2.42 1.05
2.26 NO
L0011498 0 0.32051E-02 632916.6 4175830.6 39.0 2.42 1.05
2.26 NO
L0011499 0 0.32051E-02 632918.8 4175830.6 39.0 2.42 1.05
2.26 NO
L0011500 0 0.32051E-02 632921.1 4175830.6 39.0 2.42 1.05
2.26 NO
L0011501 0 0.32051E-02 632923.3 4175830.6 38.9 2.42 1.05
2.26 NO
L0011502 0 0.32051E-02 632925.6 4175830.6 38.9 2.42 1.05
2.26 NO
L0011503 0 0.32051E-02 632927.8 4175830.6 38.9 2.42 1.05
2.26 NO
L0011504 0 0.32051E-02 632930.1 4175830.6 38.9 2.42 1.05
2.26 NO
L0011505 0 0.32051E-02 632932.3 4175830.6 38.9 2.42 1.05
2.26 NO
L0011506 0 0.32051E-02 632934.6 4175830.6 38.9 2.42 1.05
2.26 NO
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2.26 NO
L0011508 0 0.32051E-02 632939.1 4175830.6 38.9 2.42 1.05
2.26 NO
L0011509 0 0.32051E-02 632941.3 4175830.6 38.9 2.42 1.05
2.26 NO
L0011510 0 0.32051E-02 632943.6 4175830.6 38.9 2.42 1.05
2.26 NO
L0011511 0 0.32051E-02 632945.8 4175830.6 38.9 2.42 1.05
2.26 NO
L0011512 0 0.32051E-02 632948.1 4175830.6 38.9 2.42 1.05
2.26 NO
L0011513 0 0.32051E-02 632950.3 4175830.6 38.9 2.42 1.05
2.26 NO
L0011514 0 0.32051E-02 632952.6 4175830.6 38.9 2.42 1.05
2.26 NO
L0011515 0 0.32051E-02 632954.8 4175830.6 38.9 2.42 1.05
2.26 NO
L0011516 0 0.32051E-02 632957.1 4175830.6 38.8 2.42 1.05

2.26 NO
L0011517 0 0.32051E-02 632959.3 4175830.6 38.8 2.42 1.05
2.26 NO
L0011518 0 0.32051E-02 632961.6 4175830.6 38.8 2.42 1.05
2.26 NO
L0011519 0 0.32051E-02 632963.8 4175830.6 38.8 2.42 1.05
2.26 NO

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE BY	EMISSION RATE VARY BY
L0011520	0	0.32051E-02	632966.1	4175830.6	38.8	2.42	1.05	2.26	NO	
L0011521	0	0.32051E-02	632968.3	4175830.5	38.8	2.42	1.05	2.26	NO	
L0011522	0	0.32051E-02	632970.6	4175830.5	38.8	2.42	1.05	2.26	NO	
L0011523	0	0.32051E-02	632972.8	4175830.5	38.7	2.42	1.05	2.26	NO	
L0011524	0	0.32051E-02	632975.1	4175830.5	38.7	2.42	1.05	2.26	NO	
L0011525	0	0.32051E-02	632977.3	4175830.5	38.7	2.42	1.05	2.26	NO	
L0011526	0	0.32051E-02	632979.6	4175830.5	38.7	2.42	1.05	2.26	NO	
L0011527	0	0.32051E-02	632981.8	4175830.5	38.6	2.42	1.05	2.26	NO	
L0011528	0	0.32051E-02	632984.1	4175830.5	38.6	2.42	1.05	2.26	NO	
L0011529	0	0.32051E-02	632986.3	4175830.5	38.6	2.42	1.05	2.26	NO	
L0011530	0	0.32051E-02	632988.6	4175830.5	38.6	2.42	1.05	2.26	NO	
L0011531	0	0.32051E-02	632990.8	4175830.5	38.6	2.42	1.05			

2.26 NO
L0011532 0 0.32051E-02 632993.1 4175830.5 38.6 2.42 1.05
2.26 NO
L0011533 0 0.32051E-02 632995.3 4175830.5 38.5 2.42 1.05
2.26 NO
L0011534 0 0.32051E-02 632997.6 4175830.5 38.5 2.42 1.05
2.26 NO
L0011535 0 0.32051E-02 632999.8 4175830.5 38.5 2.42 1.05
2.26 NO
L0011536 0 0.32051E-02 633002.1 4175830.5 38.5 2.42 1.05
2.26 NO
L0011537 0 0.32051E-02 633004.3 4175830.5 38.5 2.42 1.05
2.26 NO
L0011538 0 0.32051E-02 633006.6 4175830.5 38.5 2.42 1.05
2.26 NO
L0011539 0 0.32051E-02 633008.8 4175830.5 38.5 2.42 1.05
2.26 NO
L0011540 0 0.32051E-02 633011.1 4175830.5 38.5 2.42 1.05
2.26 NO
L0011541 0 0.32051E-02 633013.3 4175830.5 38.5 2.42 1.05
2.26 NO
L0011542 0 0.32051E-02 633015.6 4175830.5 38.5 2.42 1.05
2.26 NO
L0011543 0 0.32051E-02 633017.8 4175830.5 38.5 2.42 1.05
2.26 NO
L0011544 0 0.32051E-02 633020.1 4175830.5 38.5 2.42 1.05
2.26 NO
L0011545 0 0.32051E-02 633022.3 4175830.5 38.4 2.42 1.05
2.26 NO
L0011546 0 0.32051E-02 633024.6 4175830.5 38.4 2.42 1.05
2.26 NO
L0011547 0 0.32051E-02 633026.8 4175830.5 38.4 2.42 1.05
2.26 NO
L0011548 0 0.32051E-02 633029.1 4175830.5 38.4 2.42 1.05
2.26 NO
L0011549 0 0.32051E-02 633031.3 4175830.5 38.4 2.42 1.05
2.26 NO
L0011550 0 0.32051E-02 633033.6 4175830.5 38.4 2.42 1.05
2.26 NO
L0011551 0 0.32051E-02 633035.8 4175830.5 38.4 2.42 1.05
2.26 NO
L0011552 0 0.32051E-02 633038.1 4175830.5 38.4 2.42 1.05
2.26 NO
L0011553 0 0.32051E-02 633040.3 4175830.5 38.3 2.42 1.05
2.26 NO
L0011554 0 0.32051E-02 633042.6 4175830.5 38.3 2.42 1.05
2.26 NO
L0011555 0 0.32051E-02 633044.8 4175830.5 38.3 2.42 1.05
2.26 NO
L0011556 0 0.32051E-02 633047.1 4175830.4 38.3 2.42 1.05

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE BY	EMISSION RATE SCALAR VARY
L0011560	0	0.32051E-02	633056.1	4175830.4	38.2	2.42	1.05	2.26	NO	
L0011561	0	0.32051E-02	633058.3	4175830.4	38.2	2.42	1.05	2.26	NO	
L0011562	0	0.32051E-02	633060.6	4175830.4	38.2	2.42	1.05	2.26	NO	
L0011563	0	0.32051E-02	633062.8	4175830.4	38.2	2.42	1.05	2.26	NO	
L0011564	0	0.32051E-02	633065.1	4175830.4	38.1	2.42	1.05	2.26	NO	
L0011565	0	0.32051E-02	633067.3	4175830.4	38.1	2.42	1.05	2.26	NO	
L0011566	0	0.32051E-02	633069.6	4175830.4	38.1	2.42	1.05	2.26	NO	
L0011567	0	0.32051E-02	633071.8	4175830.4	38.1	2.42	1.05	2.26	NO	
L0011568	0	0.32051E-02	633074.1	4175830.4	38.0	2.42	1.05	2.26	NO	
L0011569	0	0.32051E-02	633076.3	4175830.4	38.0	2.42	1.05	2.26	NO	
L0011570	0	0.32051E-02	633078.6	4175830.4	38.0	2.42	1.05	2.26	NO	
L0011571	0	0.32051E-02	633080.8	4175830.4	37.9	2.42	1.05			

2.26 NO
L0011572 0 0.32051E-02 633083.1 4175830.4 37.9 2.42 1.05
2.26 NO
L0011573 0 0.32051E-02 633085.3 4175830.4 37.9 2.42 1.05
2.26 NO
L0011574 0 0.32051E-02 633087.6 4175830.4 37.9 2.42 1.05
2.26 NO
L0011575 0 0.32051E-02 633089.8 4175830.4 37.8 2.42 1.05
2.26 NO
L0011576 0 0.32051E-02 633092.1 4175830.4 37.8 2.42 1.05
2.26 NO
L0011577 0 0.32051E-02 633094.3 4175830.4 37.8 2.42 1.05
2.26 NO
L0011578 0 0.32051E-02 633096.6 4175830.4 37.8 2.42 1.05
2.26 NO
L0011579 0 0.32051E-02 633098.8 4175830.4 37.8 2.42 1.05
2.26 NO
L0011580 0 0.32051E-02 633101.1 4175830.4 37.7 2.42 1.05
2.26 NO
L0011581 0 0.32051E-02 633103.3 4175830.4 37.7 2.42 1.05
2.26 NO
L0011582 0 0.32051E-02 633105.6 4175830.4 37.7 2.42 1.05
2.26 NO
L0011583 0 0.32051E-02 633107.8 4175830.4 37.7 2.42 1.05
2.26 NO
L0011584 0 0.32051E-02 633110.1 4175830.4 37.7 2.42 1.05
2.26 NO
L0011585 0 0.32051E-02 633112.3 4175830.4 37.7 2.42 1.05
2.26 NO
L0011586 0 0.32051E-02 633114.6 4175830.4 37.7 2.42 1.05
2.26 NO
L0011587 0 0.32051E-02 633116.8 4175830.4 37.7 2.42 1.05
2.26 NO
L0011588 0 0.32051E-02 633119.1 4175830.4 37.6 2.42 1.05
2.26 NO
L0011589 0 0.32051E-02 633121.3 4175830.4 37.6 2.42 1.05
2.26 NO
L0011590 0 0.32051E-02 633123.6 4175830.4 37.6 2.42 1.05
2.26 NO
L0011591 0 0.32051E-02 633125.8 4175830.4 37.6 2.42 1.05
2.26 NO
L0011592 0 0.32051E-02 633128.1 4175830.3 37.6 2.42 1.05
2.26 NO
L0011593 0 0.32051E-02 633130.3 4175830.3 37.6 2.42 1.05
2.26 NO
L0011594 0 0.32051E-02 633132.6 4175830.3 37.6 2.42 1.05
2.26 NO
L0011595 0 0.32051E-02 633134.8 4175830.3 37.6 2.42 1.05
2.26 NO
L0011596 0 0.32051E-02 633137.1 4175830.3 37.6 2.42 1.05

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE BY	EMISSION RATE SCALAR VARY
L0011600	0	0.32051E-02	633146.1	4175830.3	37.6	2.42	1.05	2.26	NO	
L0011601	0	0.32051E-02	633148.3	4175830.3	37.6	2.42	1.05	2.26	NO	
L0011602	0	0.32051E-02	633148.9	4175831.9	37.5	2.42	1.05	2.26	NO	
L0011603	0	0.32051E-02	633148.9	4175834.2	37.5	2.42	1.05	2.26	NO	
L0011604	0	0.32051E-02	633148.8	4175836.4	37.5	2.42	1.05	2.26	NO	
L0011605	0	0.32051E-02	633148.8	4175838.7	37.4	2.42	1.05	2.26	NO	
L0011606	0	0.32051E-02	633148.8	4175840.9	37.4	2.42	1.05	2.26	NO	
L0011607	0	0.32051E-02	633148.7	4175843.2	37.4	2.42	1.05	2.26	NO	
L0011608	0	0.32051E-02	633148.7	4175845.4	37.3	2.42	1.05	2.26	NO	
L0011609	0	0.32051E-02	633148.6	4175847.7	37.3	2.42	1.05	2.26	NO	
L0011610	0	0.32051E-02	633148.6	4175849.9	37.3	2.42	1.05	2.26	NO	
L0011611	0	0.32051E-02	633148.6	4175852.2	37.3	2.42	1.05			

2.26 NO
L0011612 0 0.32051E-02 633148.5 4175854.4 37.2 2.42 1.05
2.26 NO
L0011613 0 0.32051E-02 633148.5 4175856.7 37.2 2.42 1.05
2.26 NO
L0011614 0 0.32051E-02 633148.4 4175858.9 37.2 2.42 1.05
2.26 NO
L0011615 0 0.32051E-02 633148.4 4175861.2 37.1 2.42 1.05
2.26 NO
L0011616 0 0.32051E-02 633148.4 4175863.4 37.1 2.42 1.05
2.26 NO
L0011617 0 0.32051E-02 633148.3 4175865.7 37.1 2.42 1.05
2.26 NO
L0011618 0 0.32051E-02 633148.3 4175867.9 37.1 2.42 1.05
2.26 NO
L0011619 0 0.32051E-02 633148.2 4175870.2 37.0 2.42 1.05
2.26 NO
L0011620 0 0.32051E-02 633148.2 4175872.4 37.0 2.42 1.05
2.26 NO
L0011621 0 0.32051E-02 633148.2 4175874.7 37.0 2.42 1.05
2.26 NO
L0011622 0 0.32051E-02 633148.1 4175876.9 37.0 2.42 1.05
2.26 NO
L0011623 0 0.32051E-02 633148.9 4175878.4 37.0 2.42 1.05
2.26 NO
L0011624 0 0.32051E-02 633151.2 4175878.5 37.0 2.42 1.05
2.26 NO
L0011625 0 0.32051E-02 633153.4 4175878.5 37.0 2.42 1.05
2.26 NO
L0011626 0 0.32051E-02 633155.7 4175878.6 36.9 2.42 1.05
2.26 NO
L0011627 0 0.32051E-02 633157.9 4175878.7 36.9 2.42 1.05
2.26 NO
L0011628 0 0.32051E-02 633160.2 4175878.8 36.9 2.42 1.05
2.26 NO
L0011629 0 0.32051E-02 633162.4 4175878.8 36.9 2.42 1.05
2.26 NO
L0011630 0 0.32051E-02 633162.7 4175876.8 36.9 2.42 1.05
2.26 NO
L0011631 0 0.32051E-02 633162.8 4175874.5 36.9 2.42 1.05
2.26 NO
L0011632 0 0.32051E-02 633162.8 4175872.3 36.9 2.42 1.05
2.26 NO
L0011633 0 0.32051E-02 633162.9 4175870.1 37.0 2.42 1.05
2.26 NO
L0011634 0 0.32051E-02 633163.0 4175867.8 37.0 2.42 1.05
2.26 NO
L0011635 0 0.32051E-02 633163.1 4175865.6 37.0 2.42 1.05
2.26 NO
L0011636 0 0.32051E-02 633163.2 4175863.3 37.0 2.42 1.05

2.26 NO
L0011637 0 0.32051E-02 633163.2 4175861.1 37.1 2.42 1.05
2.26 NO
L0011638 0 0.32051E-02 633163.3 4175858.8 37.1 2.42 1.05
2.26 NO
L0011639 0 0.32051E-02 633163.4 4175856.6 37.1 2.42 1.05
2.26 NO

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE BY	EMISSION RATE SCALAR VARY
L0011640	0	0.32051E-02	633163.5	4175854.3	37.2	2.42	1.05	2.26	NO	
L0011641	0	0.32051E-02	633163.6	4175852.1	37.2	2.42	1.05	2.26	NO	
L0011642	0	0.32051E-02	633163.6	4175849.8	37.2	2.42	1.05	2.26	NO	
L0011643	0	0.32051E-02	633163.7	4175847.6	37.3	2.42	1.05	2.26	NO	
L0011644	0	0.32051E-02	633163.8	4175845.3	37.3	2.42	1.05	2.26	NO	
L0011645	0	0.32051E-02	633163.9	4175843.1	37.3	2.42	1.05	2.26	NO	
L0011646	0	0.32051E-02	633164.0	4175840.8	37.4	2.42	1.05	2.26	NO	
L0011647	0	0.32051E-02	633164.0	4175838.6	37.4	2.42	1.05	2.26	NO	
L0011648	0	0.32051E-02	633164.1	4175836.3	37.4	2.42	1.05	2.26	NO	
L0011649	0	0.32051E-02	633164.2	4175834.1	37.4	2.42	1.05	2.26	NO	
L0011650	0	0.32051E-02	633164.3	4175831.8	37.5	2.42	1.05	2.26	NO	
L0011651	0	0.32051E-02	633164.4	4175829.6	37.5	2.42	1.05			

2.26 NO
L0011652 0 0.32051E-02 633164.4 4175827.3 37.5 2.42 1.05
2.26 NO
L0011653 0 0.32051E-02 633164.5 4175825.1 37.5 2.42 1.05
2.26 NO
L0011654 0 0.32051E-02 633164.6 4175822.8 37.6 2.42 1.05
2.26 NO
L0011655 0 0.32051E-02 633164.7 4175820.6 37.6 2.42 1.05
2.26 NO
L0011656 0 0.32051E-02 633164.8 4175818.3 37.6 2.42 1.05
2.26 NO
L0011657 0 0.32051E-02 633164.8 4175816.1 37.6 2.42 1.05
2.26 NO
L0011658 0 0.32051E-02 633164.9 4175813.8 37.6 2.42 1.05
2.26 NO
L0011659 0 0.32051E-02 633165.0 4175811.6 37.6 2.42 1.05
2.26 NO
L0011660 0 0.32051E-02 633165.1 4175809.3 37.6 2.42 1.05
2.26 NO
L0011661 0 0.32051E-02 633165.2 4175807.1 37.7 2.42 1.05
2.26 NO
L0011662 0 0.32051E-02 633165.2 4175804.8 37.7 2.42 1.05
2.26 NO
L0011663 0 0.32051E-02 633165.3 4175802.6 37.7 2.42 1.05
2.26 NO
L0011664 0 0.32051E-02 633165.4 4175800.3 37.7 2.42 1.05
2.26 NO
L0011665 0 0.32051E-02 633165.5 4175798.1 37.7 2.42 1.05
2.26 NO
L0011666 0 0.32051E-02 633165.6 4175795.8 37.7 2.42 1.05
2.26 NO
L0011667 0 0.32051E-02 633165.6 4175793.6 37.7 2.42 1.05
2.26 NO
L0011668 0 0.32051E-02 633165.7 4175791.3 37.7 2.42 1.05
2.26 NO
L0011669 0 0.32051E-02 633165.8 4175789.1 37.7 2.42 1.05
2.26 NO
L0011670 0 0.32051E-02 633165.9 4175786.9 37.7 2.42 1.05
2.26 NO
L0011671 0 0.32051E-02 633166.0 4175784.6 37.8 2.42 1.05
2.26 NO
L0011672 0 0.32051E-02 633166.0 4175782.4 37.8 2.42 1.05
2.26 NO
L0011673 0 0.32051E-02 633166.1 4175780.1 37.8 2.42 1.05
2.26 NO
L0011674 0 0.32051E-02 633166.2 4175777.9 37.8 2.42 1.05
2.26 NO
L0011675 0 0.32051E-02 633166.3 4175775.6 37.8 2.42 1.05
2.26 NO
L0011676 0 0.32051E-02 633166.4 4175773.4 37.8 2.42 1.05

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE BY	EMISSION RATE SCALAR VARY
L0011680	0	0.32051E-02	633160.8	4175771.0	38.0	2.42	1.05	2.26	NO	
L0011681	0	0.32051E-02	633158.6	4175771.4	38.0	2.42	1.05	2.26	NO	
L0011682	0	0.32051E-02	633156.4	4175771.8	38.1	2.42	1.05	2.26	NO	
L0011683	0	0.32051E-02	633155.2	4175773.1	38.1	2.42	1.05	2.26	NO	
L0011684	0	0.32051E-02	633155.0	4175775.4	38.0	2.42	1.05	2.26	NO	
L0011685	0	0.32051E-02	633154.8	4175777.6	38.0	2.42	1.05	2.26	NO	
L0011686	0	0.32051E-02	633154.6	4175779.8	38.0	2.42	1.05	2.26	NO	
L0011687	0	0.32051E-02	633154.4	4175782.1	38.0	2.42	1.05	2.26	NO	
L0011688	0	0.32051E-02	633154.2	4175784.3	37.9	2.42	1.05	2.26	NO	
L0011689	0	0.32051E-02	633154.0	4175786.6	37.9	2.42	1.05	2.26	NO	
L0011690	0	0.32051E-02	633153.8	4175788.8	37.9	2.42	1.05	2.26	NO	
L0011691	0	0.32051E-02	633152.2	4175789.6	37.9	2.42	1.05			

2.26 NO
L0011692 0 0.32051E-02 633150.0 4175789.5 38.0 2.42 1.05
2.26 NO
L0011693 0 0.32051E-02 633147.7 4175789.5 38.0 2.42 1.05
2.26 NO
L0011694 0 0.32051E-02 633145.5 4175789.4 38.0 2.42 1.05
2.26 NO
L0011695 0 0.32051E-02 633143.2 4175789.4 38.1 2.42 1.05
2.26 NO
L0011696 0 0.32051E-02 633141.0 4175789.3 38.1 2.42 1.05
2.26 NO
L0011697 0 0.32051E-02 633138.7 4175789.3 38.2 2.42 1.05
2.26 NO
L0011698 0 0.32051E-02 633136.5 4175789.2 38.2 2.42 1.05
2.26 NO
L0011699 0 0.32051E-02 633134.2 4175789.2 38.2 2.42 1.05
2.26 NO
L0011700 0 0.32051E-02 633132.0 4175789.1 38.3 2.42 1.05
2.26 NO
L0011701 0 0.32051E-02 633129.7 4175789.1 38.3 2.42 1.05
2.26 NO
L0011702 0 0.32051E-02 633127.5 4175789.0 38.3 2.42 1.05
2.26 NO
L0011703 0 0.32051E-02 633125.2 4175789.0 38.4 2.42 1.05
2.26 NO
L0011704 0 0.32051E-02 633123.0 4175788.9 38.4 2.42 1.05
2.26 NO
L0011705 0 0.32051E-02 633120.7 4175788.9 38.4 2.42 1.05
2.26 NO
L0011706 0 0.32051E-02 633118.5 4175788.8 38.4 2.42 1.05
2.26 NO
L0011707 0 0.32051E-02 633116.2 4175788.8 38.4 2.42 1.05
2.26 NO
L0011708 0 0.32051E-02 633114.0 4175788.7 38.5 2.42 1.05
2.26 NO
L0011709 0 0.32051E-02 633111.7 4175788.7 38.5 2.42 1.05
2.26 NO
L0011710 0 0.32051E-02 633109.5 4175788.6 38.5 2.42 1.05
2.26 NO
L0011711 0 0.32051E-02 633107.2 4175788.6 38.5 2.42 1.05
2.26 NO
L0011712 0 0.32051E-02 633105.0 4175788.5 38.5 2.42 1.05
2.26 NO
L0011713 0 0.32051E-02 633102.7 4175788.5 38.5 2.42 1.05
2.26 NO
L0011714 0 0.32051E-02 633100.5 4175788.4 38.6 2.42 1.05
2.26 NO
L0011715 0 0.32051E-02 633098.2 4175788.4 38.6 2.42 1.05
2.26 NO
L0011716 0 0.32051E-02 633096.0 4175788.3 38.6 2.42 1.05

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE BY	EMISSION RATE SCALAR VARY
L0011720	0	0.32051E-02	633087.0	4175788.2	38.6	2.42	1.05	2.26	NO	
L0011721	0	0.32051E-02	633084.7	4175788.1	38.6	2.42	1.05	2.26	NO	
L0011722	0	0.32051E-02	633082.5	4175788.1	38.6	2.42	1.05	2.26	NO	
L0011723	0	0.32051E-02	633080.2	4175788.0	38.6	2.42	1.05	2.26	NO	
L0011724	0	0.32051E-02	633078.0	4175788.0	38.6	2.42	1.05	2.26	NO	
L0011725	0	0.32051E-02	633075.7	4175787.9	38.6	2.42	1.05	2.26	NO	
L0011726	0	0.32051E-02	633073.5	4175787.9	38.6	2.42	1.05	2.26	NO	
L0011727	0	0.32051E-02	633071.2	4175787.8	38.6	2.42	1.05	2.26	NO	
L0011728	0	0.32051E-02	633069.0	4175787.8	38.6	2.42	1.05	2.26	NO	
L0011729	0	0.32051E-02	633066.7	4175787.7	38.6	2.42	1.05	2.26	NO	
L0011730	0	0.32051E-02	633064.5	4175787.7	38.6	2.42	1.05	2.26	NO	
L0011731	0	0.32051E-02	633062.2	4175787.6	38.6	2.42	1.05			

2.26 NO
L0011732 0 0.32051E-02 633060.0 4175787.6 38.6 2.42 1.05
2.26 NO
L0011733 0 0.32051E-02 633057.7 4175787.5 38.6 2.42 1.05
2.26 NO
L0011734 0 0.32051E-02 633055.5 4175787.5 38.6 2.42 1.05
2.26 NO
L0011735 0 0.32051E-02 633053.2 4175787.4 38.6 2.42 1.05
2.26 NO
L0011736 0 0.32051E-02 633051.0 4175787.4 38.6 2.42 1.05
2.26 NO
L0011737 0 0.32051E-02 633048.8 4175787.3 38.6 2.42 1.05
2.26 NO
L0011738 0 0.32051E-02 633046.5 4175787.3 38.7 2.42 1.05
2.26 NO
L0011739 0 0.32051E-02 633044.3 4175787.2 38.7 2.42 1.05
2.26 NO
L0011740 0 0.32051E-02 633042.0 4175787.2 38.7 2.42 1.05
2.26 NO
L0011741 0 0.32051E-02 633039.8 4175787.1 38.7 2.42 1.05
2.26 NO
L0011742 0 0.32051E-02 633037.5 4175787.1 38.7 2.42 1.05
2.26 NO
L0011743 0 0.32051E-02 633035.3 4175787.0 38.8 2.42 1.05
2.26 NO
L0011744 0 0.32051E-02 633033.0 4175787.0 38.8 2.42 1.05
2.26 NO
L0011745 0 0.32051E-02 633030.8 4175786.9 38.8 2.42 1.05
2.26 NO
L0011746 0 0.32051E-02 633028.5 4175786.9 38.8 2.42 1.05
2.26 NO
L0011747 0 0.32051E-02 633026.3 4175786.8 38.8 2.42 1.05
2.26 NO
L0011748 0 0.32051E-02 633024.0 4175786.8 38.8 2.42 1.05
2.26 NO
L0011749 0 0.32051E-02 633021.8 4175786.7 38.8 2.42 1.05
2.26 NO
L0011750 0 0.32051E-02 633019.5 4175786.7 38.9 2.42 1.05
2.26 NO
L0011751 0 0.32051E-02 633017.3 4175786.6 38.9 2.42 1.05
2.26 NO
L0011752 0 0.32051E-02 633015.0 4175786.6 38.9 2.42 1.05
2.26 NO
L0011753 0 0.32051E-02 633012.8 4175786.5 38.9 2.42 1.05
2.26 NO
L0011754 0 0.32051E-02 633010.5 4175786.5 38.9 2.42 1.05
2.26 NO
L0011755 0 0.32051E-02 633008.3 4175786.4 38.9 2.42 1.05
2.26 NO
L0011756 0 0.32051E-02 633006.0 4175786.4 38.9 2.42 1.05

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE BY	EMISSION RATE SCALAR VARY
L0011760	0	0.32051E-02	632997.0	4175786.2	38.9	2.42	1.05	2.26	NO	
L0011761	0	0.32051E-02	632994.8	4175786.1	38.8	2.42	1.05	2.26	NO	
L0011762	0	0.32051E-02	632992.5	4175786.1	38.8	2.42	1.05	2.26	NO	
L0011763	0	0.32051E-02	632990.3	4175786.0	38.8	2.42	1.05	2.26	NO	
L0011764	0	0.32051E-02	632988.0	4175786.0	38.8	2.42	1.05	2.26	NO	
L0011765	0	0.32051E-02	632985.8	4175786.0	38.8	2.42	1.05	2.26	NO	
L0011766	0	0.32051E-02	632983.5	4175785.9	38.8	2.42	1.05	2.26	NO	
L0011767	0	0.32051E-02	632981.3	4175785.9	38.8	2.42	1.05	2.26	NO	
L0011768	0	0.32051E-02	632979.0	4175785.8	38.8	2.42	1.05	2.26	NO	
L0011769	0	0.32051E-02	632976.8	4175785.8	38.8	2.42	1.05	2.26	NO	
L0011770	0	0.32051E-02	632974.5	4175785.7	38.8	2.42	1.05	2.26	NO	
L0011771	0	0.32051E-02	632972.3	4175785.7	38.8	2.42	1.05			

2.26 NO
L0011772 0 0.32051E-02 632970.0 4175785.6 38.8 2.42 1.05
2.26 NO
L0011773 0 0.32051E-02 632967.8 4175785.6 38.8 2.42 1.05
2.26 NO
L0011774 0 0.32051E-02 632965.5 4175785.5 38.8 2.42 1.05
2.26 NO
L0011775 0 0.32051E-02 632963.3 4175785.5 38.8 2.42 1.05
2.26 NO
L0011776 0 0.32051E-02 632961.0 4175785.4 38.8 2.42 1.05
2.26 NO
L0011777 0 0.32051E-02 632958.8 4175785.4 38.8 2.42 1.05
2.26 NO
L0011778 0 0.32051E-02 632956.5 4175785.3 38.8 2.42 1.05
2.26 NO
L0011779 0 0.32051E-02 632954.3 4175785.3 38.8 2.42 1.05
2.26 NO
L0011780 0 0.32051E-02 632952.0 4175785.2 38.8 2.42 1.05
2.26 NO
L0011781 0 0.32051E-02 632949.8 4175785.2 38.8 2.42 1.05
2.26 NO
L0011782 0 0.32051E-02 632947.5 4175785.1 38.8 2.42 1.05
2.26 NO
L0011783 0 0.32051E-02 632945.3 4175785.1 38.8 2.42 1.05
2.26 NO
L0011784 0 0.32051E-02 632943.0 4175785.0 38.8 2.42 1.05
2.26 NO
L0011785 0 0.32051E-02 632940.8 4175785.0 38.8 2.42 1.05
2.26 NO
L0011786 0 0.32051E-02 632938.5 4175784.9 38.8 2.42 1.05
2.26 NO
L0011787 0 0.32051E-02 632936.3 4175784.9 38.8 2.42 1.05
2.26 NO
L0011788 0 0.32051E-02 632934.0 4175784.8 38.8 2.42 1.05
2.26 NO
L0011789 0 0.32051E-02 632931.8 4175784.8 38.8 2.42 1.05
2.26 NO
L0011790 0 0.32051E-02 632929.5 4175784.7 38.8 2.42 1.05
2.26 NO
L0011791 0 0.32051E-02 632927.3 4175784.7 38.8 2.42 1.05
2.26 NO
L0011792 0 0.32051E-02 632925.0 4175784.6 38.8 2.42 1.05
2.26 NO
L0011793 0 0.32051E-02 632922.8 4175784.6 38.8 2.42 1.05
2.26 NO
L0011794 0 0.32051E-02 632920.5 4175784.5 38.8 2.42 1.05
2.26 NO
L0011795 0 0.32051E-02 632918.3 4175784.5 38.8 2.42 1.05
2.26 NO
L0011796 0 0.32051E-02 632916.0 4175784.4 38.8 2.42 1.05

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2.26     NO
 L0011797         0   0.32051E-02  632913.8 4175784.4    38.8     2.42     1.05
2.26     NO
 L0011798         0   0.32051E-02  632911.5 4175784.3    38.8     2.42     1.05
2.26     NO
 L0011799         0   0.32051E-02  632909.3 4175784.3    38.8     2.42     1.05
2.26     NO
🡅 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                         ***        01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                       ***        15:43:26

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                   *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)              BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - -

 L0011800         0   0.32051E-02  632907.0 4175784.2    38.8     2.42     1.05
2.26     NO
 L0011801         0   0.32051E-02  632904.8 4175784.2    38.8     2.42     1.05
2.26     NO
 L0011802         0   0.32051E-02  632902.5 4175784.1    38.8     2.42     1.05
2.26     NO
 L0011803         0   0.32051E-02  632900.3 4175784.1    38.8     2.42     1.05
2.26     NO
 L0007410         0   0.91743E-02  633137.2 4175988.2    36.5     3.40     4.33
3.16     NO
 L0007411         0   0.91743E-02  633137.5 4175978.9    36.6     3.40     4.33
3.16     NO
 L0007412         0   0.91743E-02  633137.7 4175969.6    36.7     3.40     4.33
3.16     NO
 L0007413         0   0.91743E-02  633138.0 4175960.3    36.8     3.40     4.33
3.16     NO
 L0007414         0   0.91743E-02  633138.3 4175951.0    36.9     3.40     4.33
3.16     NO
 L0007415         0   0.91743E-02  633138.6 4175941.7    37.0     3.40     4.33
3.16     NO
 L0007416         0   0.91743E-02  633138.9 4175932.4    37.0     3.40     4.33
3.16     NO
 L0007417         0   0.91743E-02  633139.1 4175923.1    37.1     3.40     4.33
```

3.16 NO
L0007418 0 0.91743E-02 633139.4 4175913.8 37.1 3.40 4.33
3.16 NO
L0007419 0 0.91743E-02 633139.7 4175904.5 37.1 3.40 4.33
3.16 NO
L0007420 0 0.91743E-02 633140.0 4175895.2 37.1 3.40 4.33
3.16 NO
L0007421 0 0.91743E-02 633140.2 4175885.9 37.1 3.40 4.33
3.16 NO
L0007422 0 0.91743E-02 633140.5 4175876.6 37.1 3.40 4.33
3.16 NO
L0007423 0 0.91743E-02 633140.8 4175867.3 37.1 3.40 4.33
3.16 NO
L0007424 0 0.91743E-02 633141.1 4175858.0 37.2 3.40 4.33
3.16 NO
L0007425 0 0.91743E-02 633141.3 4175848.7 37.3 3.40 4.33
3.16 NO
L0007426 0 0.91743E-02 633141.6 4175839.4 37.4 3.40 4.33
3.16 NO
L0007427 0 0.91743E-02 633133.0 4175838.8 37.5 3.40 4.33
3.16 NO
L0007428 0 0.91743E-02 633123.7 4175838.7 37.5 3.40 4.33
3.16 NO
L0007429 0 0.91743E-02 633114.4 4175838.7 37.5 3.40 4.33
3.16 NO
L0007430 0 0.91743E-02 633105.1 4175838.7 37.6 3.40 4.33
3.16 NO
L0007431 0 0.91743E-02 633095.8 4175838.7 37.6 3.40 4.33
3.16 NO
L0007432 0 0.91743E-02 633086.5 4175838.6 37.7 3.40 4.33
3.16 NO
L0007433 0 0.91743E-02 633077.2 4175838.6 37.9 3.40 4.33
3.16 NO
L0007434 0 0.91743E-02 633067.9 4175838.6 38.0 3.40 4.33
3.16 NO
L0007435 0 0.91743E-02 633058.6 4175838.5 38.1 3.40 4.33
3.16 NO
L0007436 0 0.91743E-02 633049.3 4175838.5 38.2 3.40 4.33
3.16 NO
L0007437 0 0.91743E-02 633040.0 4175838.5 38.3 3.40 4.33
3.16 NO
L0007438 0 0.91743E-02 633030.7 4175838.4 38.4 3.40 4.33
3.16 NO
L0007439 0 0.91743E-02 633021.4 4175838.4 38.4 3.40 4.33
3.16 NO
L0007440 0 0.91743E-02 633012.1 4175838.4 38.4 3.40 4.33
3.16 NO
L0007441 0 0.91743E-02 633002.8 4175838.4 38.5 3.40 4.33
3.16 NO
L0007442 0 0.91743E-02 632993.5 4175838.3 38.6 3.40 4.33

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE BY	EMISSION RATE SCALAR VARY
L0007443	0	0.91743E-02	632984.2	4175838.3	38.7	3.40	4.33	3.16	NO	
L0007444	0	0.91743E-02	632974.9	4175838.3	38.8	3.40	4.33	3.16	NO	
L0007445	0	0.91743E-02	632965.6	4175838.2	38.8	3.40	4.33	3.16	NO	
L0007446	0	0.91743E-02	632956.3	4175838.2	38.9	3.40	4.33	3.16	NO	
L0007447	0	0.91743E-02	632947.0	4175838.2	38.9	3.40	4.33	3.16	NO	
L0007448	0	0.91743E-02	632937.7	4175838.2	38.9	3.40	4.33	3.16	NO	
L0007449	0	0.91743E-02	632928.4	4175838.1	39.0	3.40	4.33	3.16	NO	
L0007450	0	0.91743E-02	632919.1	4175838.1	39.0	3.40	4.33	3.16	NO	
L0007451	0	0.91743E-02	632909.8	4175838.1	39.0	3.40	4.33	3.16	NO	
L0007452	0	0.91743E-02	632900.5	4175838.0	39.1	3.40	4.33	3.16	NO	
L0007453	0	0.91743E-02	632900.1	4175829.0	39.0	3.40	4.33	3.16	NO	
L0007454	0	0.91743E-02	632899.8	4175819.7	38.9	3.40	4.33	3.16	NO	
L0007455	0	0.91743E-02	632899.6	4175810.4	38.8	3.40	4.33	3.16	NO	
L0007456	0	0.91743E-02	632899.4	4175801.1	38.8	3.40	4.33	3.16	NO	
L0007457	0	0.91743E-02	632899.2	4175791.8	38.8	3.40	4.33			

3.16 NO
L0007458 0 0.91743E-02 632899.0 4175782.5 38.8 3.40 4.33
3.16 NO
L0007459 0 0.91743E-02 632898.8 4175773.2 38.9 3.40 4.33
3.16 NO
L0007460 0 0.91743E-02 632903.9 4175769.2 39.0 3.40 4.33
3.16 NO
L0007461 0 0.91743E-02 632913.2 4175769.5 39.0 3.40 4.33
3.16 NO
L0007462 0 0.91743E-02 632922.5 4175769.7 39.0 3.40 4.33
3.16 NO
L0007463 0 0.91743E-02 632931.8 4175770.0 39.0 3.40 4.33
3.16 NO
L0007464 0 0.91743E-02 632941.1 4175770.3 39.0 3.40 4.33
3.16 NO
L0007465 0 0.91743E-02 632950.4 4175770.5 39.0 3.40 4.33
3.16 NO
L0007466 0 0.91743E-02 632959.7 4175770.8 39.0 3.40 4.33
3.16 NO
L0007467 0 0.91743E-02 632969.0 4175771.1 39.0 3.40 4.33
3.16 NO
L0007468 0 0.91743E-02 632978.3 4175771.3 39.0 3.40 4.33
3.16 NO
L0007469 0 0.91743E-02 632987.6 4175771.6 39.0 3.40 4.33
3.16 NO
L0007470 0 0.91743E-02 632996.9 4175771.9 39.0 3.40 4.33
3.16 NO
L0007471 0 0.91743E-02 633006.2 4175772.1 39.0 3.40 4.33
3.16 NO
L0007472 0 0.91743E-02 633015.5 4175772.4 39.0 3.40 4.33
3.16 NO
L0007473 0 0.91743E-02 633024.8 4175772.7 38.9 3.40 4.33
3.16 NO
L0007474 0 0.91743E-02 633034.0 4175772.9 38.9 3.40 4.33
3.16 NO
L0007475 0 0.91743E-02 633043.3 4175773.2 38.8 3.40 4.33
3.16 NO
L0007476 0 0.91743E-02 633052.6 4175773.4 38.7 3.40 4.33
3.16 NO
L0007477 0 0.91743E-02 633061.9 4175773.7 38.7 3.40 4.33
3.16 NO
L0007478 0 0.91743E-02 633071.2 4175774.0 38.7 3.40 4.33
3.16 NO
L0007479 0 0.91743E-02 633080.5 4175774.2 38.8 3.40 4.33
3.16 NO
L0007480 0 0.91743E-02 633089.8 4175774.5 38.8 3.40 4.33
3.16 NO
L0007481 0 0.91743E-02 633099.1 4175774.8 38.8 3.40 4.33
3.16 NO
L0007482 0 0.91743E-02 633108.4 4175775.0 38.8 3.40 4.33

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE BY	EMISSION RATE SCALAR VARY
L0007486	0	0.91743E-02	633141.3	4175771.3	38.4	3.40	4.33	3.16	NO	
L0007487	0	0.91743E-02	633142.2	4175762.0	38.4	3.40	4.33	3.16	NO	
L0007488	0	0.91743E-02	633149.6	4175760.4	38.3	3.40	4.33	3.16	NO	
L0007489	0	0.91743E-02	633158.8	4175761.1	38.1	3.40	4.33	3.16	NO	
L0007490	0	0.91743E-02	633168.1	4175761.7	37.9	3.40	4.33	3.16	NO	
L0007491	0	0.91743E-02	633173.7	4175765.7	37.8	3.40	4.33	3.16	NO	
L0007492	0	0.91743E-02	633173.3	4175775.0	37.7	3.40	4.33	3.16	NO	
L0007493	0	0.91743E-02	633172.9	4175784.3	37.6	3.40	4.33	3.16	NO	
L0007494	0	0.91743E-02	633172.6	4175793.6	37.6	3.40	4.33	3.16	NO	
L0007495	0	0.91743E-02	633172.2	4175802.9	37.6	3.40	4.33	3.16	NO	
L0007496	0	0.91743E-02	633171.8	4175812.2	37.6	3.40	4.33	3.16	NO	
L0007497	0	0.91743E-02	633171.4	4175821.5	37.5	3.40	4.33			

3.16 NO
L0007498 0 0.91743E-02 633171.0 4175830.8 37.4 3.40 4.33
3.16 NO
L0007499 0 0.91743E-02 633170.7 4175840.1 37.3 3.40 4.33
3.16 NO
L0007500 0 0.91743E-02 633170.3 4175849.4 37.2 3.40 4.33
3.16 NO
L0007501 0 0.91743E-02 633169.9 4175858.6 37.1 3.40 4.33
3.16 NO
L0007502 0 0.91743E-02 633169.5 4175867.9 36.9 3.40 4.33
3.16 NO
L0007503 0 0.91743E-02 633169.1 4175877.2 36.8 3.40 4.33
3.16 NO
L0007504 0 0.91743E-02 633168.8 4175886.5 36.7 3.40 4.33
3.16 NO
L0007505 0 0.91743E-02 633166.6 4175893.9 36.7 3.40 4.33
3.16 NO
L0007506 0 0.91743E-02 633157.3 4175893.6 36.9 3.40 4.33
3.16 NO
L0007507 0 0.91743E-02 633148.0 4175893.4 37.0 3.40 4.33
3.16 NO
L0007508 0 0.91743E-02 633143.1 4175897.7 37.1 3.40 4.33
3.16 NO
L0007509 0 0.91743E-02 633142.9 4175906.9 37.1 3.40 4.33
3.16 NO
L0007510 0 0.91743E-02 633142.6 4175916.2 37.0 3.40 4.33
3.16 NO
L0007511 0 0.91743E-02 633142.4 4175925.5 37.0 3.40 4.33
3.16 NO
L0007512 0 0.91743E-02 633142.2 4175934.8 37.0 3.40 4.33
3.16 NO
L0007513 0 0.91743E-02 633142.0 4175944.1 36.9 3.40 4.33
3.16 NO
L0007514 0 0.91743E-02 633141.8 4175953.4 36.8 3.40 4.33
3.16 NO
L0007515 0 0.91743E-02 633141.6 4175962.7 36.7 3.40 4.33
3.16 NO
L0007516 0 0.91743E-02 633141.4 4175972.0 36.6 3.40 4.33
3.16 NO
L0007517 0 0.91743E-02 633141.2 4175981.3 36.6 3.40 4.33
3.16 NO
L0007518 0 0.91743E-02 633140.9 4175990.6 36.5 3.40 4.33
3.16 NO

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
IDLING1	L0007039 , L0007040 , L0007041 , L0007042 , L0007043 , L0007044 , L0007045 , L0007046 ,
	L0007047 , L0007048 , L0007049 , L0007050 , L0007051 , L0007052 , L0007053 , L0007054 ,
	L0007055 , L0007056 , L0007057 , L0007058 , L0007059 , L0007060 , L0007061 , L0007062 ,
	L0007063 , L0007064 , L0007065 , L0007066 , L0007067 , L0007068 , L0007069 , L0007070 ,
	L0007071 , L0007072 , L0007073 , L0007074 , L0007075 , L0007076 , L0007077 , L0007078 ,
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*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
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*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs

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 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                                *** SOURCE IDs DEFINING SOURCE GROUPS ***

 SRCGROUP ID   SOURCE IDs
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*** SOURCE IDs DEFINING SOURCE GROUPS ***

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*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs

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*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs

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 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                          ***        01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                         ***        15:43:26

                                  PAGE  54
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                *** SOURCE IDs DEFINING SOURCE GROUPS ***

 SRCGROUP ID                                                 SOURCE IDs
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 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                          *** SOURCE IDs DEFINING SOURCE GROUPS ***

 SRCGROUP ID   SOURCE IDs
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L0011617    , L0011618    , L0011619    ,

             L0011620    , L0011621    , L0011622    , L0011623    , L0011624    ,
L0011625    , L0011626    , L0011627    ,

             L0011628    , L0011629    , L0011630    , L0011631    , L0011632    ,
L0011633    , L0011634    , L0011635    ,

             L0011636    , L0011637    , L0011638    , L0011639    , L0011640    ,
L0011641    , L0011642    , L0011643    ,
```

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                              *** SOURCE IDs DEFINING SOURCE GROUPS ***

 SRCGROUP ID   SOURCE IDs
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             L0011644    , L0011645    , L0011646    , L0011647    , L0011648    ,
L0011649    , L0011650    , L0011651    ,

             L0011652    , L0011653    , L0011654    , L0011655    , L0011656    ,
L0011657    , L0011658    , L0011659    ,

             L0011660    , L0011661    , L0011662    , L0011663    , L0011664    ,
L0011665    , L0011666    , L0011667    ,
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L0011668 , L0011669 , L0011670 , L0011671 , L0011672 , L0011673 , L0011674 , L0011675 ,

L0011676 , L0011677 , L0011678 , L0011679 , L0011680 , L0011681 , L0011682 , L0011683 ,

L0011684 , L0011685 , L0011686 , L0011687 , L0011688 , L0011689 , L0011690 , L0011691 ,

L0011692 , L0011693 , L0011694 , L0011695 , L0011696 , L0011697 , L0011698 , L0011699 ,

L0011700 , L0011701 , L0011702 , L0011703 , L0011704 , L0011705 , L0011706 , L0011707 ,

L0011708 , L0011709 , L0011710 , L0011711 , L0011712 , L0011713 , L0011714 , L0011715 ,

L0011716 , L0011717 , L0011718 , L0011719 , L0011720 , L0011721 , L0011722 , L0011723 ,

L0011724 , L0011725 , L0011726 , L0011727 , L0011728 , L0011729 , L0011730 , L0011731 ,

L0011732 , L0011733 , L0011734 , L0011735 , L0011736 , L0011737 , L0011738 , L0011739 ,

L0011740 , L0011741 , L0011742 , L0011743 , L0011744 , L0011745 , L0011746 , L0011747 ,

L0011748 , L0011749 , L0011750 , L0011751 , L0011752 , L0011753 , L0011754 , L0011755 ,

L0011756 , L0011757 , L0011758 , L0011759 , L0011760 , L0011761 , L0011762 , L0011763 ,

L0011764 , L0011765 , L0011766 , L0011767 , L0011768 , L0011769 , L0011770 , L0011771 ,

L0011772 , L0011773 , L0011774 , L0011775 , L0011776 , L0011777 , L0011778 , L0011779 ,

L0011780 , L0011781 , L0011782 , L0011783 , L0011784 , L0011785 , L0011786 , L0011787 ,

L0011788 , L0011789 , L0011790 , L0011791 , L0011792 , L0011793 , L0011794 , L0011795 ,

L0011796 , L0011797 , L0011798 , L0011799 , L0011800 , L0011801 , L0011802 , L0011803 ,

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                          *** DIRECTION SPECIFIC BUILDING DIMENSIONS
***

 SOURCE ID: PUMP
  IFV   BH   BW   BL   XADJ   YADJ   IFV   BH   BW   BL   XADJ
  YADJ
    1   13.7, 278.2, 160.8, -139.4, -134.6,   2   13.7, 285.6, 199.6, -134.6,
-142.6,
    3   13.7, 284.2, 232.4, -125.8, -146.3,   4   0.0,   0.0,   0.0,   0.0,
   0.0,
    5   0.0,   0.0,   0.0,   0.0,   0.0,   6   13.7, 201.9, 276.0,   21.7,
  30.7,
    7   13.7, 164.0, 283.9,   9.8,   57.9,   8   0.0,   0.0,   0.0,   0.0,
   0.0,
    9   0.0,   0.0,   0.0,   0.0,   0.0,   10   13.7, 160.8, 278.2,   -4.5,
 -59.0,
   11   13.7, 199.6, 285.6,   -0.1, -34.8,   12   13.7, 232.4, 284.2,   4.2,
  -9.6,
   13   13.7, 258.1, 274.3,   8.4,   16.0,   14   13.7, 276.0, 256.0,   12.4,
  41.0,
   15   13.7, 285.5, 229.9,   16.0,   64.8,   16   13.7, 286.3, 196.8,   19.1,
  86.6,
   17   13.7, 278.5, 157.8,   21.6, 105.8,   18   13.7, 262.9, 117.0,   22.9,
 122.2,
   19   13.7, 278.2, 160.8, -21.4, 134.6,   20   13.7, 285.6, 199.6, -65.0,
 142.6,
   21   13.7, 284.2, 232.4, -106.6, 146.3,   22   13.7, 258.2, 235.5, -278.6,
  25.7,
   23   13.7, 233.6, 259.7, -292.6,   -2.5,   24   13.7, 201.9, 276.0, -297.6,
 -30.7,
   25   13.7, 164.0, 283.9, -293.7, -57.9,   26   0.0,   0.0,   0.0,   0.0,
   0.0,
   27   0.0,   0.0,   0.0,   0.0,   0.0,   28   13.7, 160.8, 278.2, -273.7,
  59.0,
   29   13.7, 199.6, 285.6, -285.4,   34.8,   30   13.7, 232.4, 284.2, -288.4,
   9.6,
   31   13.7, 258.1, 274.3, -282.7, -16.0,   32   13.7, 276.0, 256.0, -268.4,
 -41.0,
   33   13.7, 285.5, 229.9, -245.9, -64.8,   34   13.7, 286.3, 196.8, -216.0,
 -86.6,
   35   13.7, 278.5, 157.8, -179.4, -105.8,   36   13.7, 262.9, 117.0, -139.9,

-122.2,

SOURCE ID: TANK

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	13.7,	278.2,	160.8,	-137.9,	-130.6,	2	13.7,	285.6,	199.6,	-133.8,	-138.4,
3	13.7,	284.2,	232.4,	-125.7,	-142.0,	4	13.7,	274.3,	258.1,	-113.8,	-141.3,
5	0.0,	0.0,	0.0,	0.0,	0.0,	6	0.0,	0.0,	0.0,	0.0,	0.0,
7	0.0,	0.0,	0.0,	0.0,	0.0,	8	0.0,	0.0,	0.0,	0.0,	0.0,
9	0.0,	0.0,	0.0,	0.0,	0.0,	10	13.7,	160.8,	278.2,	-8.5,	-57.5,
11	13.7,	199.6,	285.6,	-4.4,	-34.0,	12	13.7,	232.4,	284.2,	-0.1,	-9.5,
13	13.7,	258.1,	274.3,	4.2,	15.3,	14	13.7,	276.0,	256.0,	8.3,	39.6,
15	13.7,	285.5,	229.9,	12.2,	62.7,	16	13.7,	286.3,	196.8,	15.8,	83.9,
17	13.7,	278.5,	157.8,	18.8,	102.6,	18	13.7,	262.9,	117.0,	20.7,	118.5,
19	13.7,	278.2,	160.8,	-22.9,	130.6,	20	13.7,	285.6,	199.6,	-65.8,	138.4,
21	13.7,	284.2,	232.4,	-106.7,	142.0,	22	13.7,	274.3,	258.1,	-144.3,	141.3,
23	0.0,	0.0,	0.0,	0.0,	0.0,	24	0.0,	0.0,	0.0,	0.0,	0.0,
25	0.0,	0.0,	0.0,	0.0,	0.0,	26	0.0,	0.0,	0.0,	0.0,	0.0,
27	0.0,	0.0,	0.0,	0.0,	0.0,	28	13.7,	160.8,	278.2,	-269.7,	57.5,
29	13.7,	199.6,	285.6,	-281.2,	34.0,	30	13.7,	232.4,	284.2,	-284.1,	9.5,
31	13.7,	258.1,	274.3,	-278.4,	-15.3,	32	13.7,	276.0,	256.0,	-264.3,	-39.6,
33	13.7,	285.5,	229.9,	-242.1,	-62.7,	34	13.7,	286.3,	196.8,	-212.6,	-83.9,
35	13.7,	278.5,	157.8,	-176.6,	-102.6,	36	13.7,	262.9,	117.0,	-137.7,	-118.5,

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(631050.0, 4178050.0, 35.2, 35.2, 0.0); (631150.0, 4178250.0, 31.6, 31.6, 0.0);
(631250.0, 4178250.0, 30.7, 30.7, 0.0); (631350.0, 4178250.0, 30.4, 30.4, 0.0);
(631450.0, 4178250.0, 29.8, 29.8, 0.0); (631550.0, 4178250.0, 29.3, 29.3, 0.0);
(631650.0, 4178250.0, 28.8, 28.8, 0.0); (631750.0, 4178250.0, 28.1, 28.1, 0.0);
(631150.0, 4178350.0, 30.7, 30.7, 0.0); (631450.0, 4178350.0, 29.0, 29.0, 0.0);
(631550.0, 4178350.0, 28.2, 28.2, 0.0); (631650.0, 4178350.0, 28.3, 28.3, 0.0);
(631750.0, 4178350.0, 27.4, 27.4, 0.0); (630650.0, 4178450.0, 33.0, 33.0, 0.0);
(630850.0, 4178450.0, 31.7, 31.7, 0.0); (631050.0, 4178450.0, 30.4, 30.4, 0.0);
(631150.0, 4178450.0, 29.5, 29.5, 0.0); (631250.0, 4178450.0, 29.2, 29.2, 0.0);
(631550.0, 4178450.0, 27.1, 27.1, 0.0); (631650.0, 4178450.0, 26.5, 26.5, 0.0);
(631750.0, 4178450.0, 25.6, 25.6, 0.0); (631850.0, 4178450.0, 25.0, 25.0, 0.0);
(631950.0, 4178450.0, 24.3, 24.3, 0.0); (632050.0, 4178450.0, 23.9, 23.9, 0.0);
(632150.0, 4178450.0, 23.4, 23.4, 0.0); (630550.0, 4178550.0, 32.1, 32.1, 0.0);
(630650.0, 4178550.0, 31.4, 31.4, 0.0); (630750.0, 4178550.0, 31.1, 31.1, 0.0);
(630950.0, 4178550.0, 29.6, 29.6, 0.0); (631050.0, 4178550.0, 29.4, 29.4, 0.0);
(631250.0, 4178550.0, 28.3, 28.3, 0.0); (631350.0, 4178550.0, 27.7, 27.7, 0.0);
(631450.0, 4178550.0, 27.5, 27.5, 0.0); (631550.0, 4178550.0, 26.4, 26.4, 0.0);
(631650.0, 4178550.0, 25.7, 25.7, 0.0); (631750.0, 4178550.0, 25.1, 25.1, 0.0);
(631850.0, 4178550.0, 24.2, 24.2, 0.0); (631950.0, 4178550.0, 23.4, 23.4, 0.0);
(632050.0, 4178550.0, 23.2, 23.2, 0.0); (632150.0, 4178550.0, 22.4, 22.4, 0.0);
(630450.0, 4178650.0, 31.5, 31.5, 0.0); (630550.0, 4178650.0, 31.3, 31.3, 0.0);
(630650.0, 4178650.0, 30.1, 30.1, 0.0); (630750.0, 4178650.0, 29.8, 29.8, 0.0);
(630850.0, 4178650.0, 29.2, 29.2, 0.0); (630950.0,

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4178650.0,      28.8,      28.8,       0.0);
     ( 631050.0, 4178650.0,      28.6,      28.6,       0.0);         ( 631150.0,
4178650.0,      28.0,      28.0,       0.0);
     ( 631250.0, 4178650.0,      27.5,      27.5,       0.0);         ( 631350.0,
4178650.0,      26.7,      26.7,       0.0);
     ( 631450.0, 4178650.0,      26.1,      26.1,       0.0);         ( 631550.0,
4178650.0,      25.7,      25.7,       0.0);
     ( 631650.0, 4178650.0,      25.1,      25.1,       0.0);         ( 631750.0,
4178650.0,      24.2,      24.2,       0.0);
     ( 631850.0, 4178650.0,      23.8,      23.8,       0.0);         ( 631950.0,
4178650.0,      22.7,      22.7,       0.0);
     ( 632050.0, 4178650.0,      22.3,      22.3,       0.0);         ( 632150.0,
4178650.0,      21.9,      21.9,       0.0);
     ( 630350.0, 4178750.0,      31.7,      31.7,       0.0);         ( 630450.0,
4178750.0,      30.8,      30.8,       0.0);
     ( 630550.0, 4178750.0,      30.5,      30.5,       0.0);         ( 630650.0,
4178750.0,      29.3,      29.3,       0.0);
     ( 630750.0, 4178750.0,      28.8,      28.8,       0.0);         ( 630850.0,
4178750.0,      28.4,      28.4,       0.0);
     ( 630950.0, 4178750.0,      28.0,      28.0,       0.0);         ( 631050.0,
4178750.0,      27.6,      27.6,       0.0);
     ( 631150.0, 4178750.0,      27.2,      27.2,       0.0);         ( 631250.0,
4178750.0,      26.8,      26.8,       0.0);
     ( 631350.0, 4178750.0,      26.0,      26.0,       0.0);         ( 631450.0,
4178750.0,      25.3,      25.3,       0.0);
     ( 631550.0, 4178750.0,      24.8,      24.8,       0.0);         ( 631650.0,
4178750.0,      24.7,      24.7,       0.0);
     ( 631750.0, 4178750.0,      23.6,      23.6,       0.0);         ( 631850.0,
4178750.0,      22.9,      22.9,       0.0);
     ( 631950.0, 4178750.0,      22.3,      22.3,       0.0);         ( 632050.0,
4178750.0,      21.4,      21.4,       0.0);
     ( 632150.0, 4178750.0,      20.9,      20.9,       0.0);         ( 630250.0,
4178850.0,      31.6,      31.6,       0.0);
     ( 630350.0, 4178850.0,      31.1,      31.1,       0.0);         ( 630450.0,
4178850.0,      30.3,      30.3,       0.0);
     ( 630550.0, 4178850.0,      29.8,      29.8,       0.0);         ( 630650.0,
4178850.0,      28.2,      28.2,       0.0);
     ( 630750.0, 4178850.0,      28.2,      28.2,       0.0);         ( 630850.0,
4178850.0,      27.7,      27.7,       0.0);
     ( 630950.0, 4178850.0,      27.4,      27.4,       0.0);         ( 631050.0,
4178850.0,      26.7,      26.7,       0.0);
     ( 631150.0, 4178850.0,      26.2,      26.2,       0.0);         ( 631250.0,
4178850.0,      25.6,      25.6,       0.0);
     ( 631350.0, 4178850.0,      25.1,      25.1,       0.0);         ( 631450.0,
4178850.0,      24.4,      24.4,       0.0);
 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                           ***       01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                           ***      15:43:26
```

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(631550.0, 4178850.0, 23.9, 23.9, 0.0); (631650.0, 4178850.0, 23.6, 23.6, 0.0);
(631750.0, 4178850.0, 22.8, 22.8, 0.0); (631850.0, 4178850.0, 22.3, 22.3, 0.0);
(631950.0, 4178850.0, 21.7, 21.7, 0.0); (632050.0, 4178850.0, 21.0, 21.0, 0.0);
(632150.0, 4178850.0, 20.3, 20.3, 0.0); (630250.0, 4178950.0, 31.0, 31.0, 0.0);
(630350.0, 4178950.0, 30.4, 30.4, 0.0); (630450.0, 4178950.0, 29.3, 29.3, 0.0);
(630550.0, 4178950.0, 29.1, 29.1, 0.0); (630650.0, 4178950.0, 27.7, 27.7, 0.0);
(630750.0, 4178950.0, 27.4, 27.4, 0.0); (630850.0, 4178950.0, 26.8, 26.8, 0.0);
(630950.0, 4178950.0, 26.8, 26.8, 0.0); (631050.0, 4178950.0, 25.9, 25.9, 0.0);
(631150.0, 4178950.0, 25.4, 25.4, 0.0); (631250.0, 4178950.0, 24.8, 24.8, 0.0);
(631350.0, 4178950.0, 24.4, 24.4, 0.0); (631450.0, 4178950.0, 23.6, 23.6, 0.0);
(631550.0, 4178950.0, 23.2, 23.2, 0.0); (631650.0, 4178950.0, 23.1, 23.1, 0.0);
(631750.0, 4178950.0, 22.2, 22.2, 0.0); (631850.0, 4178950.0, 21.1, 21.1, 0.0);
(631950.0, 4178950.0, 20.9, 20.9, 0.0); (632050.0, 4178950.0, 20.2, 20.2, 0.0);
(632150.0, 4178950.0, 19.9, 19.9, 0.0); (629950.0, 4179050.0, 32.5, 32.5, 0.0);
(630250.0, 4179050.0, 30.4, 30.4, 0.0); (630350.0, 4179050.0, 29.4, 29.4, 0.0);
(630450.0, 4179050.0, 28.9, 28.9, 0.0); (630550.0, 4179050.0, 28.2, 28.2, 0.0);
(630650.0, 4179050.0, 26.7, 26.7, 0.0); (630750.0, 4179050.0, 26.3, 26.3, 0.0);
(630850.0, 4179050.0, 26.0, 26.0, 0.0); (630950.0, 4179050.0, 26.0, 26.0, 0.0);
(631050.0, 4179050.0, 25.4, 25.4, 0.0); (631150.0, 4179050.0, 24.7, 24.7, 0.0);
(631250.0, 4179050.0, 24.1, 24.1, 0.0); (631350.0, 4179050.0, 23.7, 23.7, 0.0);
(631450.0, 4179050.0, 23.3, 23.3, 0.0); (631550.0, 4179050.0, 22.2, 22.2, 0.0);
(631650.0, 4179050.0, 21.8, 21.8, 0.0); (631750.0,

```
4179050.0,      21.4,      21.4,       0.0);
     ( 631850.0, 4179050.0,      20.4,      20.4,       0.0);         ( 631950.0,
4179050.0,      20.2,      20.2,       0.0);
     ( 632050.0, 4179050.0,      19.5,      19.5,       0.0);         ( 632150.0,
4179050.0,      19.1,      19.1,       0.0);
     ( 629850.0, 4179150.0,      32.0,      32.0,       0.0);         ( 629950.0,
4179150.0,      31.4,      31.4,       0.0);
     ( 630150.0, 4179150.0,      29.9,      29.9,       0.0);         ( 630250.0,
4179150.0,      29.1,      29.1,       0.0);
     ( 630350.0, 4179150.0,      28.3,      28.3,       0.0);         ( 630450.0,
4179150.0,      27.6,      27.6,       0.0);
     ( 630550.0, 4179150.0,      27.3,      27.3,       0.0);         ( 630650.0,
4179150.0,      26.8,      26.8,       0.0);
     ( 630750.0, 4179150.0,      25.8,      25.8,       0.0);         ( 630850.0,
4179150.0,      25.1,      25.1,       0.0);
     ( 630950.0, 4179150.0,      24.7,      24.7,       0.0);         ( 631050.0,
4179150.0,      24.4,      24.4,       0.0);
     ( 631150.0, 4179150.0,      24.0,      24.0,       0.0);         ( 631250.0,
4179150.0,      23.4,      23.4,       0.0);
     ( 631350.0, 4179150.0,      22.7,      22.7,       0.0);         ( 631450.0,
4179150.0,      22.7,      22.7,       0.0);
     ( 631550.0, 4179150.0,      21.7,      21.7,       0.0);         ( 631650.0,
4179150.0,      21.1,      21.1,       0.0);
     ( 631750.0, 4179150.0,      21.1,      21.1,       0.0);         ( 631850.0,
4179150.0,      20.7,      20.7,       0.0);
     ( 631950.0, 4179150.0,      17.8,      17.8,       0.0);         ( 632050.0,
4179150.0,      18.9,      18.9,       0.0);
     ( 632150.0, 4179150.0,      18.2,      18.2,       0.0);         ( 630850.0,
4179250.0,      24.7,      24.7,       0.0);
     ( 630950.0, 4179250.0,      24.0,      24.0,       0.0);         ( 631050.0,
4177625.0,      38.9,      38.9,       0.0);
     ( 631100.0, 4177725.0,      38.0,      38.0,       0.0);         ( 631100.0,
4177825.0,      37.2,      37.2,       0.0);
     ( 631350.0, 4178225.0,      30.7,      30.7,       0.0);         ( 631400.0,
4178225.0,      30.3,      30.3,       0.0);
     ( 631450.0, 4178225.0,      30.1,      30.1,       0.0);         ( 631500.0,
4178225.0,      29.9,      29.9,       0.0);
     ( 631100.0, 4178275.0,      31.7,      31.7,       0.0);         ( 631150.0,
4178275.0,      31.6,      31.6,       0.0);
     ( 631200.0, 4178275.0,      31.1,      31.1,       0.0);         ( 631250.0,
4178275.0,      30.8,      30.8,       0.0);
     ( 631300.0, 4178275.0,      30.5,      30.5,       0.0);         ( 631350.0,
4178275.0,      30.2,      30.2,       0.0);
     ( 631400.0, 4178275.0,      30.1,      30.1,       0.0);         ( 631450.0,
4178275.0,      29.9,      29.9,       0.0);
     ( 631500.0, 4178275.0,      29.6,      29.6,       0.0);         ( 630950.0,
4178325.0,      32.6,      32.6,       0.0);
 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                           ***        01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(631100.0, 4178325.0, 31.4, 31.4, 0.0); (631150.0, 4178325.0, 31.0, 31.0, 0.0);
(631200.0, 4178325.0, 31.0, 31.0, 0.0); (631250.0, 4178325.0, 30.5, 30.5, 0.0);
(631300.0, 4178325.0, 30.5, 30.5, 0.0); (631400.0, 4178325.0, 29.4, 29.4, 0.0);
(631450.0, 4178325.0, 29.4, 29.4, 0.0); (631500.0, 4178325.0, 29.1, 29.1, 0.0);
(630950.0, 4178375.0, 32.1, 32.1, 0.0); (631200.0, 4178375.0, 30.1, 30.1, 0.0);
(631300.0, 4178375.0, 29.6, 29.6, 0.0); (631400.0, 4178375.0, 29.1, 29.1, 0.0);
(631450.0, 4178375.0, 28.6, 28.6, 0.0); (631500.0, 4178375.0, 28.4, 28.4, 0.0);
(630800.0, 4178425.0, 32.3, 32.3, 0.0); (630850.0, 4178425.0, 32.1, 32.1, 0.0);
(631050.0, 4178425.0, 30.7, 30.7, 0.0); (631200.0, 4178425.0, 29.7, 29.7, 0.0);
(631250.0, 4178425.0, 29.6, 29.6, 0.0); (631300.0, 4178425.0, 29.2, 29.2, 0.0);
(630650.0, 4178475.0, 32.6, 32.6, 0.0); (630800.0, 4178475.0, 31.9, 31.9, 0.0);
(630850.0, 4178475.0, 31.3, 31.3, 0.0); (631050.0, 4178475.0, 30.1, 30.1, 0.0);
(631200.0, 4178475.0, 29.3, 29.3, 0.0); (631250.0, 4178475.0, 29.0, 29.0, 0.0);
(631300.0, 4178475.0, 28.6, 28.6, 0.0); (631450.0, 4178475.0, 27.6, 27.6, 0.0);
(631500.0, 4178475.0, 27.2, 27.2, 0.0); (630550.0, 4178525.0, 32.4, 32.4, 0.0);
(630600.0, 4178525.0, 32.3, 32.3, 0.0); (630650.0, 4178525.0, 31.4, 31.4, 0.0);
(630700.0, 4178525.0, 31.6, 31.6, 0.0); (630750.0, 4178525.0, 31.4, 31.4, 0.0);
(630950.0, 4178525.0, 29.8, 29.8, 0.0); (631050.0, 4178525.0, 29.7, 29.7, 0.0);
(631200.0, 4178525.0, 28.9, 28.9, 0.0); (631250.0, 4178525.0, 28.6, 28.6, 0.0);
(631300.0, 4178525.0, 28.2, 28.2, 0.0); (631350.0, 4178525.0, 27.9, 27.9, 0.0);
(631400.0, 4178525.0, 27.5, 27.5, 0.0); (631450.0,

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4178525.0,      27.6,      27.6,       0.0);
     ( 631500.0, 4178525.0,      26.9,      26.9,       0.0);         ( 630500.0,
4178575.0,      32.1,      32.1,       0.0);
     ( 630550.0, 4178575.0,      32.0,      32.0,       0.0);         ( 630600.0,
4178575.0,      31.7,      31.7,       0.0);
     ( 630650.0, 4178575.0,      30.5,      30.5,       0.0);         ( 630700.0,
4178575.0,      30.8,      30.8,       0.0);
     ( 630750.0, 4178575.0,      30.9,      30.9,       0.0);         ( 630800.0,
4178575.0,      30.2,      30.2,       0.0);
     ( 630850.0, 4178575.0,      29.9,      29.9,       0.0);         ( 631000.0,
4178575.0,      29.5,      29.5,       0.0);
     ( 631050.0, 4178575.0,      29.2,      29.2,       0.0);         ( 631200.0,
4178575.0,      28.5,      28.5,       0.0);
     ( 631250.0, 4178575.0,      28.1,      28.1,       0.0);         ( 631300.0,
4178575.0,      27.8,      27.8,       0.0);
     ( 631350.0, 4178575.0,      27.4,      27.4,       0.0);         ( 631400.0,
4178575.0,      27.2,      27.2,       0.0);
     ( 631450.0, 4178575.0,      26.8,      26.8,       0.0);         ( 631500.0,
4178575.0,      26.6,      26.6,       0.0);
     ( 630500.0, 4178625.0,      31.4,      31.4,       0.0);         ( 630550.0,
4178625.0,      31.5,      31.5,       0.0);
     ( 630600.0, 4178625.0,      31.1,      31.1,       0.0);         ( 630650.0,
4178625.0,      30.1,      30.1,       0.0);
     ( 630700.0, 4178625.0,      30.2,      30.2,       0.0);         ( 630750.0,
4178625.0,      30.1,      30.1,       0.0);
     ( 630800.0, 4178625.0,      30.1,      30.1,       0.0);         ( 630850.0,
4178625.0,      29.8,      29.8,       0.0);
     ( 631000.0, 4178625.0,      29.0,      29.0,       0.0);         ( 631050.0,
4178625.0,      28.8,      28.8,       0.0);
     ( 631100.0, 4178625.0,      28.4,      28.4,       0.0);         ( 631150.0,
4178625.0,      28.0,      28.0,       0.0);
     ( 631200.0, 4178625.0,      27.9,      27.9,       0.0);         ( 631250.0,
4178625.0,      27.7,      27.7,       0.0);
     ( 631300.0, 4178625.0,      27.3,      27.3,       0.0);         ( 631350.0,
4178625.0,      27.0,      27.0,       0.0);
     ( 631400.0, 4178625.0,      26.7,      26.7,       0.0);         ( 631450.0,
4178625.0,      26.4,      26.4,       0.0);
     ( 631500.0, 4178625.0,      26.1,      26.1,       0.0);         ( 631100.0,
4175700.0,      56.2,      56.2,       0.0);
     ( 631150.0, 4175700.0,      56.2,      56.2,       0.0);         ( 631200.0,
4175700.0,      56.4,      56.4,       0.0);
     ( 631250.0, 4175700.0,      56.3,      56.3,       0.0);         ( 631100.0,
4175750.0,      55.8,      55.8,       0.0);
     ( 631150.0, 4175750.0,      55.5,      55.5,       0.0);         ( 629400.0,
4179050.0,      37.9,      37.9,       0.0);
     ( 629450.0, 4179050.0,      37.4,      37.4,       0.0);         ( 629500.0,
4179050.0,      36.8,      36.8,       0.0);
     ( 629400.0, 4179100.0,      37.3,      37.3,       0.0);         ( 629450.0,
4179100.0,      36.9,      36.9,       0.0);
```

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(629400.0, 4179150.0, 36.5, 36.5, 0.0); (629500.0, 4179150.0, 35.7, 35.7, 0.0);
(629550.0, 4179150.0, 35.5, 35.5, 0.0); (629600.0, 4179150.0, 35.2, 35.2, 0.0);
(629650.0, 4179150.0, 34.8, 34.8, 0.0); (629700.0, 4179150.0, 34.0, 34.0, 0.0);
(629800.0, 4179200.0, 32.5, 32.5, 0.0); (629400.0, 4179300.0, 34.4, 34.4, 0.0);
(629400.0, 4179350.0, 33.7, 33.7, 0.0); (634375.0, 4175350.0, 35.4, 35.4, 0.0);
(634425.0, 4175350.0, 35.3, 35.3, 0.0); (635425.0, 4175350.0, 31.6, 31.6, 0.0);
(635425.0, 4175400.0, 31.1, 31.1, 0.0); (635475.0, 4175400.0, 31.1, 31.1, 0.0);
(634325.0, 4175450.0, 34.9, 34.9, 0.0); (634475.0, 4175450.0, 34.1, 34.1, 0.0);
(634525.0, 4175450.0, 33.7, 33.7, 0.0); (634525.0, 4175500.0, 33.2, 33.2, 0.0);
(634325.0, 4175550.0, 34.1, 34.1, 0.0); (634525.0, 4175550.0, 32.7, 32.7, 0.0);
(634575.0, 4175550.0, 32.4, 32.4, 0.0); (634775.0, 4175550.0, 31.2, 31.2, 0.0);
(634825.0, 4175550.0, 30.9, 30.9, 0.0); (634625.0, 4175600.0, 31.6, 31.6, 0.0);
(634675.0, 4175600.0, 30.9, 30.9, 0.0); (634725.0, 4175600.0, 31.0, 31.0, 0.0);
(634775.0, 4175600.0, 30.4, 30.4, 0.0); (634825.0, 4175600.0, 30.5, 30.5, 0.0);
(634875.0, 4175600.0, 30.1, 30.1, 0.0); (634925.0, 4175600.0, 30.0, 30.0, 0.0);
(635375.0, 4175600.0, 30.2, 30.2, 0.0); (634275.0, 4175650.0, 33.3, 33.3, 0.0);
(634325.0, 4175650.0, 33.1, 33.1, 0.0); (634575.0, 4175650.0, 31.4, 31.4, 0.0);
(634625.0, 4175650.0, 30.9, 30.9, 0.0); (634675.0, 4175650.0, 30.9, 30.9, 0.0);
(634725.0, 4175650.0, 30.8, 30.8, 0.0); (634775.0, 4175650.0, 30.1, 30.1, 0.0);
(634825.0, 4175650.0, 30.4, 30.4, 0.0); (634875.0,

```
4175650.0,      30.1,      30.1,       0.0);
     ( 634925.0, 4175650.0,      29.5,      29.5,       0.0);         ( 634975.0,
4175650.0,      29.8,      29.8,       0.0);
     ( 635025.0, 4175650.0,      29.2,      29.2,       0.0);         ( 635325.0,
4175650.0,      30.0,      30.0,       0.0);
     ( 635375.0, 4175650.0,      30.2,      30.2,       0.0);         ( 634475.0,
4175700.0,      31.7,      31.7,       0.0);
     ( 634525.0, 4175700.0,      31.2,      31.2,       0.0);         ( 634575.0,
4175700.0,      30.8,      30.8,       0.0);
     ( 634625.0, 4175700.0,      30.0,      30.0,       0.0);         ( 634675.0,
4175700.0,      29.9,      29.9,       0.0);
     ( 634725.0, 4175700.0,      30.8,      30.8,       0.0);         ( 634775.0,
4175700.0,      30.4,      30.4,       0.0);
     ( 634825.0, 4175700.0,      29.6,      29.6,       0.0);         ( 634875.0,
4175700.0,      30.0,      30.0,       0.0);
     ( 634925.0, 4175700.0,      29.1,      29.1,       0.0);         ( 634975.0,
4175700.0,      29.3,      29.3,       0.0);
     ( 635025.0, 4175700.0,      28.5,      28.5,       0.0);         ( 635075.0,
4175700.0,      29.0,      29.0,       0.0);
     ( 635125.0, 4175700.0,      28.9,      28.9,       0.0);         ( 634425.0,
4175750.0,      31.6,      31.6,       0.0);
     ( 634575.0, 4175750.0,      30.9,      30.9,       0.0);         ( 634625.0,
4175750.0,      30.5,      30.5,       0.0);
     ( 634675.0, 4175750.0,      30.1,      30.1,       0.0);         ( 634725.0,
4175750.0,      30.5,      30.5,       0.0);
     ( 634775.0, 4175750.0,      30.0,      30.0,       0.0);         ( 634825.0,
4175750.0,      29.8,      29.8,       0.0);
     ( 634875.0, 4175750.0,      29.0,      29.0,       0.0);         ( 634925.0,
4175750.0,      28.9,      28.9,       0.0);
     ( 634975.0, 4175750.0,      28.7,      28.7,       0.0);         ( 635025.0,
4175750.0,      28.2,      28.2,       0.0);
     ( 635075.0, 4175750.0,      28.5,      28.5,       0.0);         ( 635125.0,
4175750.0,      28.5,      28.5,       0.0);
     ( 635175.0, 4175750.0,      27.6,      27.6,       0.0);         ( 635225.0,
4175750.0,      28.3,      28.3,       0.0);
     ( 634325.0, 4175800.0,      32.1,      32.1,       0.0);         ( 634375.0,
4175800.0,      31.9,      31.9,       0.0);
     ( 634425.0, 4175800.0,      31.0,      31.0,       0.0);         ( 634475.0,
4175800.0,      31.1,      31.1,       0.0);
     ( 634525.0, 4175800.0,      30.8,      30.8,       0.0);         ( 634575.0,
4175800.0,      29.9,      29.9,       0.0);
     ( 634625.0, 4175800.0,      30.7,      30.7,       0.0);         ( 634675.0,
4175800.0,      29.6,      29.6,       0.0);
     ( 634725.0, 4175800.0,      29.9,      29.9,       0.0);         ( 634775.0,
4175800.0,      29.3,      29.3,       0.0);
     ( 634825.0, 4175800.0,      29.8,      29.8,       0.0);         ( 634875.0,
4175800.0,      28.6,      28.6,       0.0);
     ( 634925.0, 4175800.0,      28.9,      28.9,       0.0);         ( 634975.0,
4175800.0,      28.6,      28.6,       0.0);
     ( 635025.0, 4175800.0,      28.2,      28.2,       0.0);         ( 635075.0,
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*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(635125.0, 4175800.0,   27.5,   27.5,   0.0);   (635175.0,
4175800.0,   27.9,   27.9,   0.0);
(635225.0, 4175800.0,   27.6,   27.6,   0.0);   (635275.0,
4175800.0,   27.9,   27.9,   0.0);
(635325.0, 4175800.0,   27.1,   27.1,   0.0);   (634225.0,
4175850.0,   31.4,   31.4,   0.0);
(634325.0, 4175850.0,   31.6,   31.6,   0.0);   (634375.0,
4175850.0,   30.9,   30.9,   0.0);
(634425.0, 4175850.0,   30.7,   30.7,   0.0);   (634475.0,
4175850.0,   30.6,   30.6,   0.0);
(634525.0, 4175850.0,   30.2,   30.2,   0.0);   (634575.0,
4175850.0,   29.7,   29.7,   0.0);
(634625.0, 4175850.0,   30.5,   30.5,   0.0);   (634675.0,
4175850.0,   29.6,   29.6,   0.0);
(634725.0, 4175850.0,   29.0,   29.0,   0.0);   (634775.0,
4175850.0,   29.9,   29.9,   0.0);
(634825.0, 4175850.0,   29.3,   29.3,   0.0);   (634875.0,
4175850.0,   28.8,   28.8,   0.0);
(634925.0, 4175850.0,   28.1,   28.1,   0.0);   (634975.0,
4175850.0,   28.1,   28.1,   0.0);
(635025.0, 4175850.0,   27.5,   27.5,   0.0);   (635075.0,
4175850.0,   27.6,   27.6,   0.0);
(635125.0, 4175850.0,   27.5,   27.5,   0.0);   (635175.0,
4175850.0,   27.5,   27.5,   0.0);
(635225.0, 4175850.0,   26.8,   26.8,   0.0);   (635275.0,
4175850.0,   27.3,   27.3,   0.0);
(635325.0, 4175850.0,   26.9,   26.9,   0.0);   (635375.0,
4175850.0,   25.9,   25.9,   0.0);
(635425.0, 4175850.0,   25.6,   25.6,   0.0);   (634225.0,
4175900.0,   31.2,   31.2,   0.0);
(634325.0, 4175900.0,   31.7,   31.7,   0.0);   (634375.0,
4175900.0,   30.9,   30.9,   0.0);
(634425.0, 4175900.0,   29.9,   29.9,   0.0);   (634475.0,
4175900.0,   29.7,   29.7,   0.0);
(634525.0, 4175900.0,   29.5,   29.5,   0.0);   (634575.0,
4175900.0,   29.2,   29.2,   0.0);
(634625.0, 4175900.0,   29.4,   29.4,   0.0);   (634675.0,

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4175900.0,      30.1,      30.1,       0.0);
     ( 634725.0, 4175900.0,      29.3,      29.3,       0.0);         ( 634775.0,
4175900.0,      29.5,      29.5,       0.0);
     ( 634875.0, 4175900.0,      28.6,      28.6,       0.0);         ( 634925.0,
4175900.0,      27.9,      27.9,       0.0);
     ( 634975.0, 4175900.0,      28.0,      28.0,       0.0);         ( 635025.0,
4175900.0,      27.7,      27.7,       0.0);
     ( 635075.0, 4175900.0,      27.7,      27.7,       0.0);         ( 635125.0,
4175900.0,      26.9,      26.9,       0.0);
     ( 635175.0, 4175900.0,      26.9,      26.9,       0.0);         ( 635225.0,
4175900.0,      26.8,      26.8,       0.0);
     ( 635275.0, 4175900.0,      26.3,      26.3,       0.0);         ( 635325.0,
4175900.0,      26.8,      26.8,       0.0);
     ( 635375.0, 4175900.0,      25.1,      25.1,       0.0);         ( 635425.0,
4175900.0,      25.0,      25.0,       0.0);
     ( 635475.0, 4175900.0,      24.6,      24.6,       0.0);         ( 635525.0,
4175900.0,      24.4,      24.4,       0.0);
     ( 634325.0, 4175950.0,      30.8,      30.8,       0.0);         ( 634375.0,
4175950.0,      30.7,      30.7,       0.0);
     ( 634425.0, 4175950.0,      30.1,      30.1,       0.0);         ( 634475.0,
4175950.0,      30.0,      30.0,       0.0);
     ( 634525.0, 4175950.0,      29.6,      29.6,       0.0);         ( 634575.0,
4175950.0,      29.1,      29.1,       0.0);
     ( 634625.0, 4175950.0,      29.6,      29.6,       0.0);         ( 634675.0,
4175950.0,      29.9,      29.9,       0.0);
     ( 634875.0, 4175950.0,      28.0,      28.0,       0.0);         ( 634925.0,
4175950.0,      27.5,      27.5,       0.0);
     ( 634975.0, 4175950.0,      27.8,      27.8,       0.0);         ( 635025.0,
4175950.0,      27.3,      27.3,       0.0);
     ( 635075.0, 4175950.0,      27.0,      27.0,       0.0);         ( 635125.0,
4175950.0,      27.0,      27.0,       0.0);
     ( 635175.0, 4175950.0,      27.0,      27.0,       0.0);         ( 635225.0,
4175950.0,      26.0,      26.0,       0.0);
     ( 635275.0, 4175950.0,      26.7,      26.7,       0.0);         ( 635325.0,
4175950.0,      25.4,      25.4,       0.0);
     ( 635375.0, 4175950.0,      25.4,      25.4,       0.0);         ( 635425.0,
4175950.0,      25.0,      25.0,       0.0);
     ( 635475.0, 4175950.0,      24.5,      24.5,       0.0);         ( 635525.0,
4175950.0,      23.4,      23.4,       0.0);
     ( 635575.0, 4175950.0,      23.3,      23.3,       0.0);         ( 634725.0,
4176000.0,      29.5,      29.5,       0.0);
     ( 634925.0, 4176000.0,      27.1,      27.1,       0.0);         ( 634975.0,
4176000.0,      27.7,      27.7,       0.0);
     ( 635025.0, 4176000.0,      27.5,      27.5,       0.0);         ( 635075.0,
4176000.0,      26.7,      26.7,       0.0);
     ( 635125.0, 4176000.0,      26.7,      26.7,       0.0);         ( 635175.0,
4176000.0,      26.2,      26.2,       0.0);
     ( 635225.0, 4176000.0,      26.0,      26.0,       0.0);         ( 635275.0,
4176000.0,      26.3,      26.3,       0.0);
     ( 635325.0, 4176000.0,      25.3,      25.3,       0.0);         ( 635375.0,
```

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(635525.0, 4176000.0, 23.6, 23.6, 0.0); (635575.0, 4176000.0, 22.6, 22.6, 0.0);
(634825.0, 4176050.0, 27.2, 27.2, 0.0); (634875.0, 4176050.0, 27.2, 27.2, 0.0);
(634925.0, 4176050.0, 27.3, 27.3, 0.0); (634975.0, 4176050.0, 27.2, 27.2, 0.0);
(635025.0, 4176050.0, 26.7, 26.7, 0.0); (635075.0, 4176050.0, 26.4, 26.4, 0.0);
(635125.0, 4176050.0, 26.6, 26.6, 0.0); (635175.0, 4176050.0, 26.2, 26.2, 0.0);
(635225.0, 4176050.0, 26.0, 26.0, 0.0); (635275.0, 4176050.0, 25.6, 25.6, 0.0);
(635325.0, 4176050.0, 25.1, 25.1, 0.0); (635375.0, 4176050.0, 24.2, 24.2, 0.0);
(635425.0, 4176050.0, 24.4, 24.4, 0.0); (635475.0, 4176050.0, 23.7, 23.7, 0.0);
(635525.0, 4176050.0, 23.2, 23.2, 0.0); (635575.0, 4176050.0, 22.1, 22.1, 0.0);
(634825.0, 4176100.0, 26.8, 26.8, 0.0); (634875.0, 4176100.0, 27.1, 27.1, 0.0);
(634925.0, 4176100.0, 26.4, 26.4, 0.0); (634975.0, 4176100.0, 26.4, 26.4, 0.0);
(635025.0, 4176100.0, 26.7, 26.7, 0.0); (635075.0, 4176100.0, 26.5, 26.5, 0.0);
(635125.0, 4176100.0, 26.1, 26.1, 0.0); (635175.0, 4176100.0, 25.6, 25.6, 0.0);
(635225.0, 4176100.0, 25.5, 25.5, 0.0); (635275.0, 4176100.0, 25.2, 25.2, 0.0);
(635325.0, 4176100.0, 24.9, 24.9, 0.0); (635375.0, 4176100.0, 24.8, 24.8, 0.0);
(635425.0, 4176100.0, 23.3, 23.3, 0.0); (635475.0, 4176100.0, 23.4, 23.4, 0.0);
(635525.0, 4176100.0, 23.0, 23.0, 0.0); (635575.0, 4176100.0, 22.6, 22.6, 0.0);
(634825.0, 4176150.0, 26.5, 26.5, 0.0); (634875.0,

```
4176150.0,      26.9,      26.9,       0.0);
     ( 634925.0, 4176150.0,      26.1,      26.1,       0.0);         ( 634975.0,
4176150.0,      26.2,      26.2,       0.0);
     ( 635025.0, 4176150.0,      26.4,      26.4,       0.0);         ( 635075.0,
4176150.0,      25.8,      25.8,       0.0);
     ( 635125.0, 4176150.0,      26.0,      26.0,       0.0);         ( 635175.0,
4176150.0,      25.5,      25.5,       0.0);
     ( 635225.0, 4176150.0,      24.5,      24.5,       0.0);         ( 635275.0,
4176150.0,      25.0,      25.0,       0.0);
     ( 635325.0, 4176150.0,      24.4,      24.4,       0.0);         ( 635375.0,
4176150.0,      24.2,      24.2,       0.0);
     ( 635425.0, 4176150.0,      23.0,      23.0,       0.0);         ( 635475.0,
4176150.0,      23.1,      23.1,       0.0);
     ( 635525.0, 4176150.0,      22.7,      22.7,       0.0);         ( 635575.0,
4176150.0,      22.4,      22.4,       0.0);
     ( 634875.0, 4176200.0,      26.9,      26.9,       0.0);         ( 634925.0,
4176200.0,      26.2,      26.2,       0.0);
     ( 634975.0, 4176200.0,      25.8,      25.8,       0.0);         ( 635125.0,
4176200.0,      25.2,      25.2,       0.0);
     ( 635175.0, 4176200.0,      25.3,      25.3,       0.0);         ( 635225.0,
4176200.0,      24.5,      24.5,       0.0);
     ( 635525.0, 4176200.0,      22.3,      22.3,       0.0);         ( 635575.0,
4176200.0,      21.5,      21.5,       0.0);
     ( 634325.0, 4176250.0,      27.9,      27.9,       0.0);         ( 634375.0,
4176250.0,      27.7,      27.7,       0.0);
     ( 634875.0, 4176250.0,      26.5,      26.5,       0.0);         ( 634925.0,
4176250.0,      26.4,      26.4,       0.0);
     ( 634975.0, 4176250.0,      26.2,      26.2,       0.0);         ( 635025.0,
4176250.0,      25.9,      25.9,       0.0);
     ( 635075.0, 4176250.0,      25.3,      25.3,       0.0);         ( 635125.0,
4176250.0,      25.2,      25.2,       0.0);
     ( 635175.0, 4176250.0,      24.7,      24.7,       0.0);         ( 635225.0,
4176250.0,      24.9,      24.9,       0.0);
     ( 635275.0, 4176250.0,      24.3,      24.3,       0.0);         ( 635375.0,
4176250.0,      22.8,      22.8,       0.0);
     ( 635425.0, 4176250.0,      22.6,      22.6,       0.0);         ( 635525.0,
4176250.0,      22.1,      22.1,       0.0);
     ( 635575.0, 4176250.0,      21.8,      21.8,       0.0);         ( 634875.0,
4176300.0,      26.0,      26.0,       0.0);
     ( 634925.0, 4176300.0,      25.9,      25.9,       0.0);         ( 634975.0,
4176300.0,      25.8,      25.8,       0.0);
     ( 635025.0, 4176300.0,      25.7,      25.7,       0.0);         ( 635075.0,
4176300.0,      25.3,      25.3,       0.0);
     ( 635125.0, 4176300.0,      25.2,      25.2,       0.0);         ( 635175.0,
4176300.0,      24.4,      24.4,       0.0);
     ( 635225.0, 4176300.0,      24.4,      24.4,       0.0);         ( 635275.0,
4176300.0,      24.6,      24.6,       0.0);
     ( 635375.0, 4176300.0,      22.8,      22.8,       0.0);         ( 635425.0,
4176300.0,      22.5,      22.5,       0.0);
     ( 635525.0, 4176300.0,      21.8,      21.8,       0.0);         ( 635575.0,
```

4176300.0,   20.7,   20.7,   0.0);
     (634875.0, 4176350.0,   25.6,   25.6,   0.0);   (634925.0,
4176350.0,   25.5,   25.5,   0.0);
     (634975.0, 4176350.0,   25.3,   25.3,   0.0);   (635025.0,
4176350.0,   25.2,   25.2,   0.0);

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                                  *** DISCRETE CARTESIAN RECEPTORS ***
                                                (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                          (METERS)

     (635075.0, 4176350.0,   24.8,   24.8,   0.0);   (635125.0,
4176350.0,   24.6,   24.6,   0.0);
     (635175.0, 4176350.0,   24.0,   24.0,   0.0);   (635225.0,
4176350.0,   24.4,   24.4,   0.0);
     (635275.0, 4176350.0,   24.1,   24.1,   0.0);   (635375.0,
4176350.0,   22.6,   22.6,   0.0);
     (635425.0, 4176350.0,   22.4,   22.4,   0.0);   (635525.0,
4176350.0,   21.4,   21.4,   0.0);
     (635575.0, 4176350.0,   20.3,   20.3,   0.0);   (634875.0,
4176400.0,   25.5,   25.5,   0.0);
     (634925.0, 4176400.0,   25.3,   25.3,   0.0);   (634975.0,
4176400.0,   25.1,   25.1,   0.0);
     (635025.0, 4176400.0,   24.8,   24.8,   0.0);   (635075.0,
4176400.0,   24.6,   24.6,   0.0);
     (635125.0, 4176400.0,   24.5,   24.5,   0.0);   (635175.0,
4176400.0,   24.3,   24.3,   0.0);
     (635225.0, 4176400.0,   24.3,   24.3,   0.0);   (635275.0,
4176400.0,   24.2,   24.2,   0.0);
     (635425.0, 4176400.0,   22.4,   22.4,   0.0);   (635525.0,
4176400.0,   20.8,   20.8,   0.0);
     (635575.0, 4176400.0,   20.6,   20.6,   0.0);   (633650.0,
4176200.0,   31.9,   31.9,   0.0);
     (633700.0, 4176200.0,   31.3,   31.3,   0.0);   (633850.0,
4176200.0,   29.9,   29.9,   0.0);
     (633850.0, 4176250.0,   30.2,   30.2,   0.0);   (633950.0,
4176250.0,   29.4,   29.4,   0.0);
     (634350.0, 4176250.0,   28.1,   28.1,   0.0);   (633750.0,
4176300.0,   30.4,   30.4,   0.0);
     (633950.0, 4176300.0,   29.3,   29.3,   0.0);   (634000.0,
4176300.0,   29.0,   29.0,   0.0);
     (634050.0, 4176300.0,   28.1,   28.1,   0.0);   (634050.0,
4176350.0,   28.2,   28.2,   0.0);
     (634050.0, 4176400.0,   28.0,   28.0,   0.0);   (634000.0,

```
4176450.0,      27.9,      27.9,       0.0);
     ( 634050.0, 4176450.0,      27.9,      27.9,       0.0);         ( 634200.0,
4176600.0,      26.3,      26.3,       0.0);
     ( 634100.0, 4176650.0,      26.4,      26.4,       0.0);         ( 634150.0,
4176650.0,      26.5,      26.5,       0.0);
     ( 634200.0, 4176650.0,      25.8,      25.8,       0.0);         ( 634200.0,
4176850.0,      24.5,      24.5,       0.0);
     ( 634200.0, 4176900.0,      24.2,      24.2,       0.0);         ( 634250.0,
4176900.0,      24.0,      24.0,       0.0);
     ( 634300.0, 4176900.0,      23.6,      23.6,       0.0);         ( 634400.0,
4177000.0,      22.2,      22.2,       0.0);
     ( 634450.0, 4177000.0,      21.2,      21.2,       0.0);         ( 634500.0,
4177000.0,      20.9,      20.9,       0.0);
     ( 634550.0, 4177000.0,      20.7,      20.7,       0.0);         ( 634400.0,
4177050.0,      22.3,      22.3,       0.0);
     ( 634450.0, 4177050.0,      20.7,      20.7,       0.0);         ( 634500.0,
4177050.0,      21.5,      21.5,       0.0);
     ( 634550.0, 4177050.0,      21.6,      21.6,       0.0);         ( 633750.0,
4173175.0,      70.4,      70.4,       0.0);
     ( 634450.0, 4173325.0,      61.4,      61.4,       0.0);         ( 634450.0,
4173375.0,      60.4,      60.4,       0.0);
     ( 634350.0, 4173475.0,      60.0,      60.0,       0.0);         ( 634300.0,
4173625.0,      56.8,      56.8,       0.0);
     ( 634300.0, 4173675.0,      55.5,      55.5,       0.0);         ( 634350.0,
4173675.0,      55.2,      55.2,       0.0);
     ( 634250.0, 4173775.0,      54.0,      54.0,       0.0);         ( 633950.0,
4173825.0,      54.3,      54.3,       0.0);
     ( 634050.0, 4173825.0,      54.2,      54.2,       0.0);         ( 634100.0,
4173825.0,      53.9,      53.9,       0.0);
     ( 634250.0, 4173825.0,      53.2,      53.2,       0.0);         ( 634250.0,
4173975.0,      50.6,      50.6,       0.0);
     ( 634150.0, 4174125.0,      47.5,      47.5,       0.0);         ( 634200.0,
4174125.0,      47.7,      47.7,       0.0);
     ( 634250.0, 4174125.0,      48.0,      48.0,       0.0);         ( 634250.0,
4174225.0,      46.2,      46.2,       0.0);
     ( 634350.0, 4174225.0,      46.7,      46.7,       0.0);         ( 634400.0,
4174225.0,      46.8,      46.8,       0.0);
     ( 634200.0, 4174325.0,      45.1,      45.1,       0.0);         ( 634250.0,
4174325.0,      44.8,      44.8,       0.0);
     ( 634200.0, 4174375.0,      45.1,      45.1,       0.0);         ( 634250.0,
4174425.0,      43.9,      43.9,       0.0);
     ( 634000.0, 4174475.0,      45.9,      45.9,       0.0);         ( 634250.0,
4174525.0,      43.1,      43.1,       0.0);
     ( 634100.0, 4174575.0,      44.1,      44.1,       0.0);         ( 634150.0,
4174575.0,      43.7,      43.7,       0.0);
     ( 634200.0, 4174575.0,      43.3,      43.3,       0.0);         ( 634250.0,
4174575.0,      42.8,      42.8,       0.0);
     ( 634250.0, 4174625.0,      42.6,      42.6,       0.0);         ( 634250.0,
4174675.0,      42.2,      42.2,       0.0);
     ( 634250.0, 4174825.0,      40.8,      40.8,       0.0);         ( 634250.0,
```

4174875.0,   40.3,   40.3,   0.0);
     (634200.0, 4174925.0,   40.3,   40.3,   0.0);   (634250.0,
4174925.0,   39.9,   39.9,   0.0);
     (631950.0, 4173950.0,   99.6,   99.6,   0.0);   (631550.0,
4174000.0,   92.0,   92.0,   0.0);
     (631550.0, 4174050.0,   89.9,   89.9,   0.0);   (631750.0,
4174250.0,   84.3,   84.3,   0.0);

                                          *** DISCRETE CARTESIAN RECEPTORS ***
                                        (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                    (METERS)

     (632300.0, 4174300.0,   72.3,   72.3,   0.0);   (632350.0,
4174300.0,   72.1,   72.1,   0.0);
     (632300.0, 4174350.0,   71.3,   71.3,   0.0);   (632350.0,
4174350.0,   71.0,   71.0,   0.0);
     (631600.0, 4174400.0,   78.7,   86.4,   0.0);   (631650.0,
4174400.0,   75.8,   75.8,   0.0);
     (632000.0, 4174400.0,   70.3,   70.3,   0.0);   (632000.0,
4174450.0,   69.2,   69.2,   0.0);
     (631950.0, 4174500.0,   67.2,   67.2,   0.0);   (632150.0,
4174950.0,   57.2,   57.2,   0.0);
     (632200.0, 4174950.0,   57.3,   57.3,   0.0);

                                          *** METEOROLOGICAL DAYS SELECTED FOR
PROCESSING ***
                                                                (1=YES; 0=NO)

           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1

```
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1

                NOTE:  METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON
WHAT IS INCLUDED IN THE DATA FILE.



                                    *** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED
CATEGORIES ***
                                                          (METERS/SEC)

                                                 1.54,   3.09,   5.14,   8.23,
10.80,
 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                             ***        01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                            ***        15:43:26

                                    PAGE  67
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                      *** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL
DATA ***

   Surface file:   C:\Users\swang\Documents\1. Projects\12620 14800 Schulte Road
Industrial 2020.07   Met Version:  18081
   Profile file:   C:\Users\swang\Documents\1. Projects\12620 14800 Schulte Road
Industrial 2020.07
   Surface format: FREE

   Profile format: FREE

   Surface station no.:    99008                 Upper air station no.:    66666
                  Name: UNKNOWN                                   Name: UNKNOWN

                  Year:   2004                                    Year:   2004

 First 24 hours of scalar data
 YR MO DY JDY HR     H0     U*     W*  DT/DZ ZICNV ZIMCH  M-O LEN    Z0  BOWEN
ALBEDO  REF WS   WD     HT  REF TA     HT
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - -
 04 01 01   1 01  -30.2  0.306 -9.000 -9.000 -999.  406.    102.9  0.09   0.77
```

```
1.00    4.10  151.   14.0  282.0    2.0
 04 01 01   1 02  -35.7  0.362 -9.000 -9.000 -999.  523.    144.2  0.11   0.77
1.00    4.60  148.   14.0  282.0    2.0
 04 01 01   1 03  -44.6  0.453 -9.000 -9.000 -999.  731.    225.4  0.11   0.77
1.00    5.70  144.   14.0  281.8    2.0
 04 01 01   1 04  -48.8  0.494 -9.000 -9.000 -999.  833.    268.6  0.11   0.77
1.00    6.20  143.   14.0  281.6    2.0
 04 01 01   1 05  -52.8  0.536 -9.000 -9.000 -999.  940.    315.8  0.11   0.77
1.00    6.70  143.   14.0  281.5    2.0
 04 01 01   1 06  -57.0  0.578 -9.000 -9.000 -999. 1052.    367.0  0.11   0.77
1.00    7.20  142.   14.0  281.4    2.0
 04 01 01   1 07  -61.2  0.619 -9.000 -9.000 -999. 1168.    422.1  0.11   0.77
1.00    7.70  135.   14.0  281.2    2.0
 04 01 01   1 08  -64.0  0.658 -9.000 -9.000 -999. 1279.    476.0  0.11   0.77
0.73    8.20  143.   14.0  281.2    2.0
 04 01 01   1 09    7.0  0.717  0.238  0.005   68. 1454.  -4692.4  0.11   0.77
0.39    8.70  137.   14.0  281.5    2.0
 04 01 01   1 10   43.3  0.655  0.675  0.005  251. 1280.   -574.5  0.09   0.77
0.27    8.20  151.   14.0  282.1    2.0
 04 01 01   1 11   70.4  0.549  0.930  0.005  405.  989.   -207.5  0.09   0.77
0.23    6.70  164.   14.0  283.1    2.0
 04 01 01   1 12   90.7  0.480  1.217  0.005  703.  804.   -107.8  0.09   0.77
0.21    5.70  166.   14.0  284.1    2.0
 04 01 01   1 13   92.9  0.395  1.327  0.005  891.  602.    -58.8  0.08   0.77
0.21    4.60  183.   14.0  284.9    2.0
 04 01 01   1 14   81.1  0.321  1.332  0.005 1031.  440.    -36.0  0.08   0.77
0.22    3.60  189.   14.0  285.2    2.0
 04 01 01   1 15   47.5  0.160  1.139  0.005 1104.  174.     -7.6  0.08   0.77
0.26    1.50  192.   14.0  284.5    2.0
 04 01 01   1 16   19.1  0.076  0.847  0.005 1130.   56.     -2.0  0.12   0.77
0.34    0.50   54.   14.0  283.5    2.0
 04 01 01   1 17   -5.0  0.110 -9.000 -9.000 -999.   88.     23.5  0.10   0.77
0.59    1.50  341.   14.0  283.1    2.0
 04 01 01   1 18   -5.6  0.111 -9.000 -9.000 -999.   89.     21.5  0.11   0.77
1.00    1.50  307.   14.0  282.2    2.0
 04 01 01   1 19  -17.3  0.197 -9.000 -9.000 -999.  209.     42.5  0.10   0.77
1.00    2.60  284.   14.0  281.2    2.0
 04 01 01   1 20  -27.2  0.273 -9.000 -9.000 -999.  342.     81.8  0.10   0.77
1.00    3.60  267.   14.0  280.4    2.0
 04 01 01   1 21  -31.2  0.312 -9.000 -9.000 -999.  419.    107.3  0.10   0.77
1.00    4.10  260.   14.0  279.8    2.0
 04 01 01   1 22  -35.2  0.352 -9.000 -9.000 -999.  501.    136.4  0.10   0.77
1.00    4.60  262.   14.0  279.4    2.0
 04 01 01   1 23  -35.3  0.352 -9.000 -9.000 -999.  501.    136.4  0.10   0.77
1.00    4.60  250.   14.0  279.2    2.0
 04 01 01   1 24  -31.3  0.312 -9.000 -9.000 -999.  420.    107.3  0.10   0.77
1.00    4.10  240.   14.0  279.0    2.0


 First hour of profile data
```

                                *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: IDLING1 ***
                                    INCLUDING SOURCE(S):   L0007039   , L0007040
, L0007041   , L0007042   , L0007043   ,
                   L0007044   , L0007045   , L0007046   , L0007047   , L0007048
, L0007049   , L0007050   , L0007051   ,
                   L0007052   , L0007053   , L0007054   , L0007055   , L0007056
, L0007057   , L0007058   , L0007059   ,
                   L0007060   , L0007061   , L0007062   , L0007063   , L0007064
, L0007065   , L0007066   , . . .   ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                           ** CONC OF HRA   IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 -
- -
         631050.00   4178050.00   0.09957   631150.00
4178250.00   0.09716
         631250.00   4178250.00   0.10103   631350.00
4178250.00   0.10497
         631450.00   4178250.00   0.10898   631550.00
4178250.00   0.11309
         631650.00   4178250.00   0.11718   631750.00
4178250.00   0.12096
         631150.00   4178350.00   0.09355   631450.00
4178350.00   0.10421
         631550.00   4178350.00   0.10789   631650.00
4178350.00   0.11153
         631750.00   4178350.00   0.11466   630650.00
4178450.00   0.07439
         630850.00   4178450.00   0.08065   631050.00
4178450.00   0.08690
         631150.00   4178450.00   0.08999   631250.00

4178450.00 0.09316
631550.00 4178450.00 0.10295 631650.00
4178450.00 0.10599
631750.00 4178450.00 0.10855 631850.00
4178450.00 0.11080
631950.00 4178450.00 0.11301 632050.00
4178450.00 0.11576
632150.00 4178450.00 0.11912 630550.00
4178550.00 0.06969
630650.00 4178550.00 0.07249 630750.00
4178550.00 0.07534
630950.00 4178550.00 0.08096 631050.00
4178550.00 0.08379
631250.00 4178550.00 0.08948 631350.00
4178550.00 0.09245
631450.00 4178550.00 0.09550 631550.00
4178550.00 0.09833
631650.00 4178550.00 0.10085 631750.00
4178550.00 0.10300
631850.00 4178550.00 0.10489 631950.00
4178550.00 0.10700
632050.00 4178550.00 0.10974 632150.00
4178550.00 0.11287
630450.00 4178650.00 0.06547 630550.00
4178650.00 0.06803
630650.00 4178650.00 0.07055 630750.00
4178650.00 0.07313
630850.00 4178650.00 0.07568 630950.00
4178650.00 0.07821
631050.00 4178650.00 0.08077 631150.00
4178650.00 0.08334
631250.00 4178650.00 0.08600 631350.00
4178650.00 0.08872
631450.00 4178650.00 0.09141 631550.00
4178650.00 0.09390
631650.00 4178650.00 0.09602 631750.00
4178650.00 0.09777
631850.00 4178650.00 0.09956 631950.00
4178650.00 0.10156
632050.00 4178650.00 0.10422 632150.00
4178650.00 0.10725
630350.00 4178750.00 0.06168 630450.00
4178750.00 0.06398
630550.00 4178750.00 0.06632 630650.00
4178750.00 0.06861
630750.00 4178750.00 0.07093 630850.00
4178750.00 0.07324
630950.00 4178750.00 0.07554 631050.00
4178750.00 0.07785
631150.00 4178750.00 0.08025 631250.00

```
4178750.00        0.08273
         631350.00    4178750.00        0.08520                      631450.00
4178750.00        0.08756
         631550.00    4178750.00        0.08965                      631650.00
4178750.00        0.09146
         631750.00    4178750.00        0.09295                      631850.00
4178750.00        0.09459
         631950.00    4178750.00        0.09667                      632050.00
4178750.00        0.09918
         632150.00    4178750.00        0.10197                      630250.00
4178850.00        0.05824
         630350.00    4178850.00        0.06035                      630450.00
4178850.00        0.06246
🡅 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                        ***       01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                       ***        15:43:26

                                  PAGE  69
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: IDLING1  ***
                                  INCLUDING SOURCE(S):     L0007039    , L0007040
, L0007041    , L0007042    , L0007043    ,
                L0007044    , L0007045    , L0007046    , L0007047    , L0007048
, L0007049    , L0007050    , L0007051    ,
                L0007052    , L0007053    , L0007054    , L0007055    , L0007056
, L0007057    , L0007058    , L0007059    ,
                L0007060    , L0007061    , L0007062    , L0007063    , L0007064
, L0007065    , L0007066    ,  . . .      ,

                                                 *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                            ** CONC OF HRA      IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                       X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
         630550.00    4178850.00        0.06458                      630650.00
4178850.00        0.06664
         630750.00    4178850.00        0.06877                      630850.00
4178850.00        0.07085
         630950.00    4178850.00        0.07295                      631050.00
4178850.00        0.07508
         631150.00    4178850.00        0.07731                      631250.00
4178850.00        0.07959
```

631350.00 4178850.00 0.08183 631450.00 4178850.00 0.08386
631550.00 4178850.00 0.08562 631650.00 4178850.00 0.08710
631750.00 4178850.00 0.08847 631850.00 4178850.00 0.09010
631950.00 4178850.00 0.09218 632050.00 4178850.00 0.09463
632150.00 4178850.00 0.09716 630250.00 4178950.00 0.05704
630350.00 4178950.00 0.05896 630450.00 4178950.00 0.06088
630550.00 4178950.00 0.06283 630650.00 4178950.00 0.06471
630750.00 4178950.00 0.06662 630850.00 4178950.00 0.06851
630950.00 4178950.00 0.07048 631050.00 4178950.00 0.07246
631150.00 4178950.00 0.07454 631250.00 4178950.00 0.07663
631350.00 4178950.00 0.07862 631450.00 4178950.00 0.08032
631550.00 4178950.00 0.08178 631650.00 4178950.00 0.08309
631750.00 4178950.00 0.08436 631850.00 4178950.00 0.08592
631950.00 4178950.00 0.08804 632050.00 4178950.00 0.09038
632150.00 4178950.00 0.09270 629950.00 4179050.00 0.05050
630250.00 4179050.00 0.05578 630350.00 4179050.00 0.05754
630450.00 4179050.00 0.05932 630550.00 4179050.00 0.06107
630650.00 4179050.00 0.06277 630750.00 4179050.00 0.06451
630850.00 4179050.00 0.06627 630950.00 4179050.00 0.06811
631050.00 4179050.00 0.07000 631150.00 4179050.00 0.07192
631250.00 4179050.00 0.07379 631350.00 4179050.00 0.07552
631450.00 4179050.00 0.07698 631550.00 4179050.00 0.07814
631650.00 4179050.00 0.07928 631750.00 4179050.00 0.08057
631850.00 4179050.00 0.08216 631950.00 4179050.00 0.08424
632050.00 4179050.00 0.08644 632150.00 4179050.00 0.08849

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         629850.00    4179150.00        0.04801                      629950.00
4179150.00        0.04963
         630150.00    4179150.00        0.05286                      630250.00
4179150.00        0.05448
         630350.00    4179150.00        0.05610                      630450.00
4179150.00        0.05772
         630550.00    4179150.00        0.05933                      630650.00
4179150.00        0.06092
         630750.00    4179150.00        0.06249                      630850.00
4179150.00        0.06412
         630950.00    4179150.00        0.06583                      631050.00
4179150.00        0.06762
         631150.00    4179150.00        0.06940                      631250.00
4179150.00        0.07107
         631350.00    4179150.00        0.07251                      631450.00
4179150.00        0.07376
         631550.00    4179150.00        0.07476                      631650.00
4179150.00        0.07580
         631750.00    4179150.00        0.07714                      631850.00
4179150.00        0.07881
         631950.00    4179150.00        0.08050                      632050.00
4179150.00        0.08278
 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                          ***        01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                          ***       15:43:26

                                    PAGE  70
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: IDLING1  ***
                                    INCLUDING SOURCE(S):     L0007039    , L0007040
, L0007041    , L0007042    , L0007043    ,
                   L0007044    , L0007045    , L0007046    , L0007047    , L0007048
, L0007049    , L0007050    , L0007051    ,
                   L0007052    , L0007053    , L0007054    , L0007055    , L0007056
, L0007057    , L0007058    , L0007059    ,
                   L0007060    , L0007061    , L0007062    , L0007063    , L0007064
, L0007065    , L0007066    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                    ** CONC OF HRA      IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                      X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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- - - - - - - - - - - - - - - - - - - - - - - - - -
         632150.00    4179150.00        0.08453                    630850.00
4179250.00        0.06210
         630950.00    4179250.00        0.06371                    631050.00
4177625.00        0.10933
         631100.00    4177725.00        0.11150                    631100.00
4177825.00        0.10900
         631350.00    4178225.00        0.10612                    631400.00
4178225.00        0.10815
         631450.00    4178225.00        0.11022                    631500.00
4178225.00        0.11232
         631100.00    4178275.00        0.09436                    631150.00
4178275.00        0.09627
         631200.00    4178275.00        0.09815                    631250.00
4178275.00        0.10004
         631300.00    4178275.00        0.10194                    631350.00
4178275.00        0.10386
         631400.00    4178275.00        0.10581                    631450.00
4178275.00        0.10778
         631500.00    4178275.00        0.10979                    630950.00
4178325.00        0.08730
         631100.00    4178325.00        0.09267                    631150.00
4178325.00        0.09445
         631200.00    4178325.00        0.09626                    631250.00
4178325.00        0.09804
         631300.00    4178325.00        0.09987                    631400.00
4178325.00        0.10349
         631450.00    4178325.00        0.10540                    631500.00
4178325.00        0.10730
         630950.00    4178375.00        0.08590                    631200.00
4178375.00        0.09434
         631300.00    4178375.00        0.09776                    631400.00
4178375.00        0.10127
         631450.00    4178375.00        0.10304                    631500.00
4178375.00        0.10486
         630800.00    4178425.00        0.07965                    630850.00
4178425.00        0.08127
         631050.00    4178425.00        0.08769                    631200.00
4178425.00        0.09249
         631250.00    4178425.00        0.09412                    631300.00
4178425.00        0.09575
         630650.00    4178475.00        0.07392                    630800.00
4178475.00        0.07851
         630850.00    4178475.00        0.08002                    631050.00
4178475.00        0.08611
         631200.00    4178475.00        0.09068                    631250.00
4178475.00        0.09222
         631300.00    4178475.00        0.09378                    631450.00
4178475.00        0.09861
         631500.00    4178475.00        0.10020                    630550.00
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4178525.00        0.07009
         630600.00    4178525.00        0.07154                        630650.00
4178525.00        0.07295
         630700.00    4178525.00        0.07443                        630750.00
4178525.00        0.07589
         630950.00    4178525.00        0.08165                        631050.00
4178525.00        0.08456
         631200.00    4178525.00        0.08890                        631250.00
4178525.00        0.09038
         631300.00    4178525.00        0.09188                        631350.00
4178525.00        0.09341
         631400.00    4178525.00        0.09495                        631450.00
4178525.00        0.09653
         631500.00    4178525.00        0.09800                        630500.00
4178575.00        0.06791
         630550.00    4178575.00        0.06928                        630600.00
4178575.00        0.07065
         630650.00    4178575.00        0.07198                        630700.00
4178575.00        0.07339
         630750.00    4178575.00        0.07480                        630800.00
4178575.00        0.07615
         630850.00    4178575.00        0.07752                        631000.00
4178575.00        0.08166
         631050.00    4178575.00        0.08302                        631200.00
4178575.00        0.08718
         631250.00    4178575.00        0.08859                        631300.00
4178575.00        0.09003
         631350.00    4178575.00        0.09149                        631400.00
4178575.00        0.09298
         631450.00    4178575.00        0.09442                        631500.00
4178575.00        0.09585
 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                          ***        01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                          ***       15:43:26

                                    PAGE  71
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: IDLING1  ***
                                    INCLUDING SOURCE(S):     L0007039    , L0007040
, L0007041    , L0007042    , L0007043    ,
                  L0007044    , L0007045    , L0007046    , L0007047    , L0007048
, L0007049    , L0007050    , L0007051    ,
                  L0007052    , L0007053    , L0007054    , L0007055    , L0007056
, L0007057    , L0007058    , L0007059    ,
                  L0007060    , L0007061    , L0007062    , L0007063    , L0007064
, L0007065    , L0007066    ,  . . .      ,
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*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF HRA IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
630500.00	4178625.00	0.06713	630550.00	4178625.00	0.06845
630600.00	4178625.00	0.06975	630650.00	4178625.00	0.07102
630700.00	4178625.00	0.07236	630750.00	4178625.00	0.07368
630800.00	4178625.00	0.07501	630850.00	4178625.00	0.07631
631000.00	4178625.00	0.08021	631050.00	4178625.00	0.08151
631100.00	4178625.00	0.08281	631150.00	4178625.00	0.08412
631200.00	4178625.00	0.08548	631250.00	4178625.00	0.08685
631300.00	4178625.00	0.08823	631350.00	4178625.00	0.08964
631400.00	4178625.00	0.09104	631450.00	4178625.00	0.09241
631500.00	4178625.00	0.09373	631100.00	4175700.00	0.07784
631150.00	4175700.00	0.08103	631200.00	4175700.00	0.08419
631250.00	4175700.00	0.08790	631100.00	4175750.00	0.07837
631150.00	4175750.00	0.08182	629400.00	4179050.00	0.04081
629450.00	4179050.00	0.04166	629500.00	4179050.00	0.04253
629400.00	4179100.00	0.04075	629450.00	4179100.00	0.04159
629400.00	4179150.00	0.04067	629500.00	4179150.00	0.04230
629550.00	4179150.00	0.04313	629600.00	4179150.00	0.04395
629650.00	4179150.00	0.04478	629700.00	4179150.00	0.04559
629800.00	4179200.00	0.04686	629400.00	4179300.00	0.04030
629400.00	4179350.00	0.04013	634375.00	4175350.00	0.64127

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         634425.00    4175350.00        0.61988                        635425.00
4175350.00        0.33576
         635425.00    4175400.00        0.34778                        635475.00
4175400.00        0.33828
         634325.00    4175450.00        0.78086                        634475.00
4175450.00        0.69004
         634525.00    4175450.00        0.66296                        634525.00
4175500.00        0.70403
         634325.00    4175550.00        0.89944                        634525.00
4175550.00        0.74350
         634575.00    4175550.00        0.71093                        634775.00
4175550.00        0.60042
         634825.00    4175550.00        0.57693                        634625.00
4175600.00        0.71088
         634675.00    4175600.00        0.67955                        634725.00
4175600.00        0.65077
         634775.00    4175600.00        0.62348                        634825.00
4175600.00        0.59831
         634875.00    4175600.00        0.57448                        634925.00
4175600.00        0.55224
         635375.00    4175600.00        0.40183                        634275.00
4175650.00        1.06476
         634325.00    4175650.00        1.00542                        634575.00
4175650.00        0.77384
         634625.00    4175650.00        0.73748                        634675.00
4175650.00        0.70416
         634725.00    4175650.00        0.67309                        634775.00
4175650.00        0.64384
         634825.00    4175650.00        0.61711                        634875.00
4175650.00        0.59178
         634925.00    4175650.00        0.56794                        634975.00
4175650.00        0.54599
         635025.00    4175650.00        0.52498                        635325.00
4175650.00        0.42373
         635375.00    4175650.00        0.40994                        634475.00
4175700.00        0.88548
         634525.00    4175700.00        0.83994                        634575.00
4175700.00        0.79807
         634625.00    4175700.00        0.75916                        634675.00
4175700.00        0.72369
 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                        ***        01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                        ***       15:43:26

                                  PAGE  72
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: IDLING1  ***
```

INCLUDING SOURCE(S): L0007039 , L0007040
, L0007041 , L0007042 , L0007043 ,
L0007044 , L0007045 , L0007046 , L0007047 , L0007048
, L0007049 , L0007050 , L0007051 ,
L0007052 , L0007053 , L0007054 , L0007055 , L0007056
, L0007057 , L0007058 , L0007059 ,
L0007060 , L0007061 , L0007062 , L0007063 , L0007064
, L0007065 , L0007066 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS
***

** CONC OF HRA IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
634725.00	4175700.00	0.69148	634775.00	4175700.00	0.66077
634825.00	4175700.00	0.63189	634875.00	4175700.00	0.60571
634925.00	4175700.00	0.58050	634975.00	4175700.00	0.55756
635025.00	4175700.00	0.53552	635075.00	4175700.00	0.51541
635125.00	4175700.00	0.49628	634425.00	4175750.00	0.95991
634575.00	4175750.00	0.81629	634625.00	4175750.00	0.77586
634675.00	4175750.00	0.73859	634725.00	4175750.00	0.70462
634775.00	4175750.00	0.67262	634825.00	4175750.00	0.64306
634875.00	4175750.00	0.61518	634925.00	4175750.00	0.58958
634975.00	4175750.00	0.56560	635025.00	4175750.00	0.54301
635075.00	4175750.00	0.52226	635125.00	4175750.00	0.50262
635175.00	4175750.00	0.48375	635225.00	4175750.00	0.46671
634325.00	4175800.00	1.09916	634375.00	4175800.00	1.03393
634425.00	4175800.00	0.97409	634475.00	4175800.00	0.92066
634525.00	4175800.00	0.87141	634575.00	4175800.00	0.82575
634625.00	4175800.00	0.78529	634675.00		

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4175800.00        0.74644
         634725.00    4175800.00        0.71173                    634775.00
4175800.00        0.67885
         634825.00    4175800.00        0.64911                    634875.00
4175800.00        0.62043
         634925.00    4175800.00        0.59456                    634975.00
4175800.00        0.57013
         635025.00    4175800.00        0.54720                    635075.00
4175800.00        0.52565
         635125.00    4175800.00        0.50563                    635175.00
4175800.00        0.48709
         635225.00    4175800.00        0.46934                    635275.00
4175800.00        0.45283
         635325.00    4175800.00        0.43686                    634225.00
4175850.00        1.25529
         634325.00    4175850.00        1.10258                    634375.00
4175850.00        1.03612
         634425.00    4175850.00        0.97657                    634475.00
4175850.00        0.92253
         634525.00    4175850.00        0.87293                    634575.00
4175850.00        0.82728
         634625.00    4175850.00        0.78668                    634675.00
4175850.00        0.74771
         634725.00    4175850.00        0.71207                    634775.00
4175850.00        0.68017
         634825.00    4175850.00        0.64958                    634875.00
4175850.00        0.62119
         634925.00    4175850.00        0.59465                    634975.00
4175850.00        0.57025
         635025.00    4175850.00        0.54716                    635075.00
4175850.00        0.52594
         635125.00    4175850.00        0.50590                    635175.00
4175850.00        0.48711
         635225.00    4175850.00        0.46915                    635275.00
4175850.00        0.45273
         635325.00    4175850.00        0.43684                    635375.00
4175850.00        0.42165
         635425.00    4175850.00        0.40752                    634225.00
4175900.00        1.24017
         634325.00    4175900.00        1.09111                    634375.00
4175900.00        1.02574
         634425.00    4175900.00        0.96616                    634475.00
4175900.00        0.91299
         634525.00    4175900.00        0.86435                    634575.00
4175900.00        0.81976
         634625.00    4175900.00        0.77926                    634675.00
4175900.00        0.74223
         634725.00    4175900.00        0.70686                    634775.00
4175900.00        0.67494
 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
```

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: IDLING1 ***
INCLUDING SOURCE(S): L0007039 , L0007040 , L0007041 , L0007042 , L0007043 ,
L0007044 , L0007045 , L0007046 , L0007047 , L0007048 , L0007049 , L0007050 , L0007051 ,
L0007052 , L0007053 , L0007054 , L0007055 , L0007056 , L0007057 , L0007058 , L0007059 ,
L0007060 , L0007061 , L0007062 , L0007063 , L0007064 , L0007065 , L0007066 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF HRA IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
634875.00	4175900.00	0.61679	634925.00	4175900.00	0.59049
634975.00	4175900.00	0.56651	635025.00	4175900.00	0.54380
635075.00	4175900.00	0.52273	635125.00	4175900.00	0.50256
635175.00	4175900.00	0.48399	635225.00	4175900.00	0.46646
635275.00	4175900.00	0.44976	635325.00	4175900.00	0.43444
635375.00	4175900.00	0.41910	635425.00	4175900.00	0.40521
635475.00	4175900.00	0.39192	635525.00	4175900.00	0.37942
634325.00	4175950.00	1.06322	634375.00	4175950.00	1.00185
634425.00	4175950.00	0.94531	634475.00	4175950.00	0.89435
634525.00	4175950.00	0.84731	634575.00	4175950.00	0.80408
634625.00	4175950.00	0.76527	634675.00	4175950.00	0.72923

634875.00 4175950.00 0.60725 634925.00
4175950.00 0.58189
634975.00 4175950.00 0.55862 635025.00
4175950.00 0.53639
635075.00 4175950.00 0.51570 635125.00
4175950.00 0.49639
635175.00 4175950.00 0.47822 635225.00
4175950.00 0.46069
635275.00 4175950.00 0.44488 635325.00
4175950.00 0.42913
635375.00 4175950.00 0.41475 635425.00
4175950.00 0.40102
635475.00 4175950.00 0.38796 635525.00
4175950.00 0.37532
635575.00 4175950.00 0.36373 634725.00
4176000.00 0.67785
634925.00 4176000.00 0.56912 634975.00
4176000.00 0.54708
635025.00 4176000.00 0.52588 635075.00
4176000.00 0.50559
635125.00 4176000.00 0.48703 635175.00
4176000.00 0.46929
635225.00 4176000.00 0.45267 635275.00
4176000.00 0.43726
635325.00 4176000.00 0.42208 635375.00
4176000.00 0.40814
635425.00 4176000.00 0.39460 635475.00
4176000.00 0.38197
635525.00 4176000.00 0.36996 635575.00
4176000.00 0.35834
634825.00 4176050.00 0.59993 634875.00
4176050.00 0.57580
634925.00 4176050.00 0.55321 634975.00
4176050.00 0.53191
635025.00 4176050.00 0.51165 635075.00
4176050.00 0.49269
635125.00 4176050.00 0.47511 635175.00
4176050.00 0.45823
635225.00 4176050.00 0.44237 635275.00
4176050.00 0.42731
635325.00 4176050.00 0.41299 635375.00
4176050.00 0.39927
635425.00 4176050.00 0.38671 635475.00
4176050.00 0.37440
635525.00 4176050.00 0.36280 635575.00
4176050.00 0.35156
634825.00 4176100.00 0.57732 634875.00
4176100.00 0.55511
634925.00 4176100.00 0.53357 634975.00
4176100.00 0.51378

```
         635025.00    4176100.00        0.49530                      635075.00
4176100.00        0.47757
         635125.00    4176100.00        0.46073                      635175.00
4176100.00        0.44473
         635225.00    4176100.00        0.42984                      635275.00
4176100.00        0.41562
         635325.00    4176100.00        0.40212                      635375.00
4176100.00        0.38941
🡅 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                         ***       01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                       ***        15:43:26

                                  PAGE  74
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: IDLING1  ***
                                  INCLUDING SOURCE(S):     L0007039    , L0007040
, L0007041    , L0007042    , L0007043    ,
                 L0007044    , L0007045    , L0007046    , L0007047    , L0007048
, L0007049    , L0007050    , L0007051    ,
                 L0007052    , L0007053    , L0007054    , L0007055    , L0007056
, L0007057    , L0007058    , L0007059    ,
                 L0007060    , L0007061    , L0007062    , L0007063    , L0007064
, L0007065    , L0007066    ,  . . .      ,

                                             *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                        ** CONC OF HRA      IN MICROGRAMS/M**3
                   **

       X-COORD (M)   Y-COORD (M)        CONC                      X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - -
         635425.00    4176100.00        0.37675                      635475.00
4176100.00        0.36539
         635525.00    4176100.00        0.35434                      635575.00
4176100.00        0.34383
         634825.00    4176150.00        0.55216                      634875.00
4176150.00        0.53196
         634925.00    4176150.00        0.51204                      634975.00
4176150.00        0.49385
         635025.00    4176150.00        0.47673                      635075.00
4176150.00        0.46004
         635125.00    4176150.00        0.44471                      635175.00
4176150.00        0.42981
         635225.00    4176150.00        0.41541                      635275.00
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4176150.00 0.40247
635325.00 4176150.00 0.38968 635375.00
4176150.00 0.37767
635425.00 4176150.00 0.36582 635475.00
4176150.00 0.35508
635525.00 4176150.00 0.34463 635575.00
4176150.00 0.33470
634875.00 4176200.00 0.50730 634925.00
4176200.00 0.48918
634975.00 4176200.00 0.47227 635125.00
4176200.00 0.42699
635175.00 4176200.00 0.41352 635225.00
4176200.00 0.40023
635525.00 4176200.00 0.33396 635575.00
4176200.00 0.32442
634325.00 4176250.00 0.72678 634375.00
4176250.00 0.69739
634875.00 4176250.00 0.48133 634925.00
4176250.00 0.46548
634975.00 4176250.00 0.45028 635025.00
4176250.00 0.43573
635075.00 4176250.00 0.42180 635125.00
4176250.00 0.40873
635175.00 4176250.00 0.39609 635225.00
4176250.00 0.38439
635275.00 4176250.00 0.37283 635375.00
4176250.00 0.35113
635425.00 4176250.00 0.34124 635525.00
4176250.00 0.32266
635575.00 4176250.00 0.31389 634875.00
4176300.00 0.45510
634925.00 4176300.00 0.44089 634975.00
4176300.00 0.42731
635025.00 4176300.00 0.41433 635075.00
4176300.00 0.40183
635125.00 4176300.00 0.38997 635175.00
4176300.00 0.37834
635225.00 4176300.00 0.36755 635275.00
4176300.00 0.35737
635375.00 4176300.00 0.33723 635425.00
4176300.00 0.32808
635525.00 4176300.00 0.31079 635575.00
4176300.00 0.30236
634875.00 4176350.00 0.42925 634925.00
4176350.00 0.41662
634975.00 4176350.00 0.40439 635025.00
4176350.00 0.39277
635075.00 4176350.00 0.38150 635125.00
4176350.00 0.37079
635175.00 4176350.00 0.36030 635225.00

```
4176350.00        0.35076
         635275.00    4176350.00        0.34126                       635375.00
4176350.00        0.32296
         635425.00    4176350.00        0.31459                       635525.00
4176350.00        0.29858
         635575.00    4176350.00        0.29081                       634875.00
4176400.00        0.40457
         634925.00    4176400.00        0.39318                       634975.00
4176400.00        0.38224
         635025.00    4176400.00        0.37173                       635075.00
4176400.00        0.36168
         635125.00    4176400.00        0.35206                       635175.00
4176400.00        0.34282
         635225.00    4176400.00        0.33397                       635275.00
4176400.00        0.32544
         635425.00    4176400.00        0.30108                       635525.00
4176400.00        0.28616
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```
                              *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: IDLING1  ***
                                 INCLUDING SOURCE(S):     L0007039    , L0007040
, L0007041    , L0007042    , L0007043    ,
                L0007044    , L0007045    , L0007046    , L0007047    , L0007048
, L0007049    , L0007050    , L0007051    ,
                L0007052    , L0007053    , L0007054    , L0007055    , L0007056
, L0007057    , L0007058    , L0007059    ,
                L0007060    , L0007061    , L0007062    , L0007063    , L0007064
, L0007065    , L0007066    ,  . . .      ,

                                                 *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF HRA      IN MICROGRAMS/M**3
                   **

       X-COORD (M)   Y-COORD (M)        CONC                       X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - -
         635575.00    4176400.00        0.27935                       633650.00
4176200.00        1.58508
         633700.00    4176200.00        1.49365                       633850.00
4176200.00        1.26109
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633850.00 4176250.00 1.11777 633950.00 4176250.00 1.01460
634350.00 4176250.00 0.71223 633750.00 4176300.00 1.08879
633950.00 4176300.00 0.91001 634000.00 4176300.00 0.87194
634050.00 4176300.00 0.83432 634050.00 4176350.00 0.75681
634050.00 4176400.00 0.68799 634000.00 4176450.00 0.65042
634050.00 4176450.00 0.62840 634200.00 4176600.00 0.45171
634100.00 4176650.00 0.45150 634150.00 4176650.00 0.43694
634200.00 4176650.00 0.42253 634200.00 4176850.00 0.34042
634200.00 4176900.00 0.32459 634250.00 4176900.00 0.31507
634300.00 4176900.00 0.30555 634400.00 4177000.00 0.26477
634450.00 4177000.00 0.25683 634500.00 4177000.00 0.24987
634550.00 4177000.00 0.24332 634400.00 4177050.00 0.25470
634450.00 4177050.00 0.24691 634500.00 4177050.00 0.24118
634550.00 4177050.00 0.23505 633750.00 4173175.00 0.04611
634450.00 4173325.00 0.06154 634450.00 4173375.00 0.06456
634350.00 4173475.00 0.06822 634300.00 4173625.00 0.07852
634300.00 4173675.00 0.08303 634350.00 4173675.00 0.08444
634250.00 4173775.00 0.09103 633950.00 4173825.00 0.08647
634050.00 4173825.00 0.08923 634100.00 4173825.00 0.09106
634250.00 4173825.00 0.09623 634250.00 4173975.00 0.11447
634150.00 4174125.00 0.13500 634200.00 4174125.00 0.13608
634250.00 4174125.00 0.13684 634250.00 4174225.00 0.15413
634350.00 4174225.00 0.15256 634400.00 4174225.00 0.15111
634200.00 4174325.00 0.17322 634250.00 4174325.00 0.17255
634200.00 4174375.00 0.18296 634250.00 4174425.00 0.19338

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         634000.00    4174475.00        0.20701                        634250.00
4174525.00        0.21969
         634100.00    4174575.00        0.23466                        634150.00
4174575.00        0.23557
         634200.00    4174575.00        0.23425                        634250.00
4174575.00        0.23255
         634250.00    4174625.00        0.24553                        634250.00
4174675.00        0.25823
         634250.00    4174825.00        0.30353                        634250.00
4174875.00        0.32251
         634200.00    4174925.00        0.35286                        634250.00
4174925.00        0.34414
         631950.00    4173950.00        0.02592                        631550.00
4174000.00        0.02514
         631550.00    4174050.00        0.02668                        631750.00
4174250.00        0.03392
         632300.00    4174300.00        0.05965                        632350.00
4174300.00        0.06081
         632300.00    4174350.00        0.06303                        632350.00
4174350.00        0.06458
         631600.00    4174400.00        0.03770                        631650.00
4174400.00        0.04078
         632000.00    4174400.00        0.05307                        632000.00
4174450.00        0.05559
         631950.00    4174500.00        0.05788                        632150.00
4174950.00        0.11190
 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                          ***        01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                          ***       15:43:26

                                    PAGE  76
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: IDLING1  ***
                                    INCLUDING SOURCE(S):     L0007039    , L0007040
, L0007041    , L0007042    , L0007043    ,
                  L0007044    , L0007045    , L0007046    , L0007047    , L0007048
, L0007049    , L0007050    , L0007051    ,
                  L0007052    , L0007053    , L0007054    , L0007055    , L0007056
, L0007057    , L0007058    , L0007059    ,
                  L0007060    , L0007061    , L0007062    , L0007063    , L0007064
, L0007065    , L0007066    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                               ** CONC OF HRA      IN MICROGRAMS/M**3
                    **
```

X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
- -
- -
632200.00   4174950.00   0.11684

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: IDLING2 ***
INCLUDING SOURCE(S):   L0007095   , L0007096
, L0007097   , L0007098   , L0007099   ,
L0007100   , L0007101   , L0007102   , L0007103   , L0007104
, L0007105   , L0007106   , L0007107   ,
L0007108   , L0007109   , L0007110   , L0007111   , L0007112
, L0007113   , L0007114   , L0007115   ,
L0007116   , L0007117   , L0007118   , L0007119   , L0007120
, L0007121   , L0007122   , . . .   ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF HRA   IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
631050.00	4178050.00	0.09606	631150.00	4178250.00	0.09303
631250.00	4178250.00	0.09642	631350.00	4178250.00	0.09993
631450.00	4178250.00	0.10352	631550.00	4178250.00	0.10715
631650.00	4178250.00	0.11063	631750.00	4178250.00	0.11367
631150.00	4178350.00	0.08951	631450.00	4178350.00	0.09907
631550.00	4178350.00	0.10227	631650.00	4178350.00	0.10529
631750.00	4178350.00	0.10778	630650.00	4178450.00	0.07228

630850.00 4178450.00 0.07783 631050.00
4178450.00 0.08334
631150.00 4178450.00 0.08609 631250.00
4178450.00 0.08895
631550.00 4178450.00 0.09760 631650.00
4178450.00 0.10007
631750.00 4178450.00 0.10211 631850.00
4178450.00 0.10401
631950.00 4178450.00 0.10611 632050.00
4178450.00 0.10883
632150.00 4178450.00 0.11201 630550.00
4178550.00 0.06780
630650.00 4178550.00 0.07031 630750.00
4178550.00 0.07284
630950.00 4178550.00 0.07781 631050.00
4178550.00 0.08033
631250.00 4178550.00 0.08550 631350.00
4178550.00 0.08820
631450.00 4178550.00 0.09086 631550.00
4178550.00 0.09321
631650.00 4178550.00 0.09523 631750.00
4178550.00 0.09698
631850.00 4178550.00 0.09867 631950.00
4178550.00 0.10074
632050.00 4178550.00 0.10344 632150.00
4178550.00 0.10636
630450.00 4178650.00 0.06377 630550.00
4178650.00 0.06608
630650.00 4178650.00 0.06833 630750.00
4178650.00 0.07062
630850.00 4178650.00 0.07288 630950.00
4178650.00 0.07514
631050.00 4178650.00 0.07745 631150.00
4178650.00 0.07980
631250.00 4178650.00 0.08224 631350.00
4178650.00 0.08468
631450.00 4178650.00 0.08698 631550.00
4178650.00 0.08901
631650.00 4178650.00 0.09071 631750.00
4178650.00 0.09218
631850.00 4178650.00 0.09387 631950.00
4178650.00 0.09588
632050.00 4178650.00 0.09847 632150.00
4178650.00 0.10124
630350.00 4178750.00 0.06016 630450.00
4178750.00 0.06223
630550.00 4178750.00 0.06433 630650.00
4178750.00 0.06638
630750.00 4178750.00 0.06844 630850.00
4178750.00 0.07049

```
         630950.00    4178750.00        0.07256                        631050.00
4178750.00        0.07468
         631150.00    4178750.00        0.07690                        631250.00
4178750.00        0.07916
         631350.00    4178750.00        0.08133                        631450.00
4178750.00        0.08331
         631550.00    4178750.00        0.08499                        631650.00
4178750.00        0.08647
         631750.00    4178750.00        0.08779                        631850.00
4178750.00        0.08940
         631950.00    4178750.00        0.09148                        632050.00
4178750.00        0.09390
         632150.00    4178750.00        0.09640                        630250.00
4178850.00        0.05686
         630350.00    4178850.00        0.05876                        630450.00
4178850.00        0.06067
🡅 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                         ***        01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                       ***        15:43:26

                                  PAGE  78
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: IDLING2  ***
                                  INCLUDING SOURCE(S):     L0007095    , L0007096
, L0007097    , L0007098    , L0007099    ,
                 L0007100    , L0007101    , L0007102    , L0007103    , L0007104
, L0007105    , L0007106    , L0007107    ,
                 L0007108    , L0007109    , L0007110    , L0007111    , L0007112
, L0007113    , L0007114    , L0007115    ,
                 L0007116    , L0007117    , L0007118    , L0007119    , L0007120
, L0007121    , L0007122    ,  . . .      ,

                                             *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                        ** CONC OF HRA      IN MICROGRAMS/M**3
                   **

       X-COORD (M)   Y-COORD (M)        CONC                       X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - -
         630550.00    4178850.00        0.06257                        630650.00
4178850.00        0.06441
         630750.00    4178850.00        0.06631                        630850.00
4178850.00        0.06818
         630950.00    4178850.00        0.07010                        631050.00
```

4178850.00 0.07208
631150.00 4178850.00 0.07413 631250.00
4178850.00 0.07619
631350.00 4178850.00 0.07811 631450.00
4178850.00 0.07978
631550.00 4178850.00 0.08119 631650.00
4178850.00 0.08244
631750.00 4178850.00 0.08372 631850.00
4178850.00 0.08536
631950.00 4178850.00 0.08743 632050.00
4178850.00 0.08975
632150.00 4178850.00 0.09196 630250.00
4178950.00 0.05560
630350.00 4178950.00 0.05735 630450.00
4178950.00 0.05907
630550.00 4178950.00 0.06082 630650.00
4178950.00 0.06250
630750.00 4178950.00 0.06422 630850.00
4178950.00 0.06594
630950.00 4178950.00 0.06777 631050.00
4178950.00 0.06961
631150.00 4178950.00 0.07152 631250.00
4178950.00 0.07336
631350.00 4178950.00 0.07504 631450.00
4178950.00 0.07641
631550.00 4178950.00 0.07759 631650.00
4178950.00 0.07875
631750.00 4178950.00 0.08000 631850.00
4178950.00 0.08158
631950.00 4178950.00 0.08367 632050.00
4178950.00 0.08584
632150.00 4178950.00 0.08784 629950.00
4179050.00 0.04952
630250.00 4179050.00 0.05432 630350.00
4179050.00 0.05591
630450.00 4179050.00 0.05751 630550.00
4179050.00 0.05908
630650.00 4179050.00 0.06060 630750.00
4179050.00 0.06218
630850.00 4179050.00 0.06381 630950.00
4179050.00 0.06554
631050.00 4179050.00 0.06729 631150.00
4179050.00 0.06902
631250.00 4179050.00 0.07064 631350.00
4179050.00 0.07206
631450.00 4179050.00 0.07324 631550.00
4179050.00 0.07420
631650.00 4179050.00 0.07526 631750.00
4179050.00 0.07656
631850.00 4179050.00 0.07818 631950.00

```
4179050.00        0.08020
         632050.00    4179050.00        0.08220                       632150.00
4179050.00        0.08394
         629850.00    4179150.00        0.04711                       629950.00
4179150.00        0.04858
         630150.00    4179150.00        0.05152                       630250.00
4179150.00        0.05300
         630350.00    4179150.00        0.05446                       630450.00
4179150.00        0.05591
         630550.00    4179150.00        0.05736                       630650.00
4179150.00        0.05881
         630750.00    4179150.00        0.06025                       630850.00
4179150.00        0.06178
         630950.00    4179150.00        0.06339                       631050.00
4179150.00        0.06503
         631150.00    4179150.00        0.06661                       631250.00
4179150.00        0.06801
         631350.00    4179150.00        0.06919                       631450.00
4179150.00        0.07021
         631550.00    4179150.00        0.07107                       631650.00
4179150.00        0.07208
         631750.00    4179150.00        0.07346                       631850.00
4179150.00        0.07513
         631950.00    4179150.00        0.07675                       632050.00
4179150.00        0.07880
 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                          ***       01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                          ***      15:43:26

                                   PAGE  79
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: IDLING2  ***
                                   INCLUDING SOURCE(S):     L0007095    , L0007096
, L0007097    , L0007098    , L0007099    ,
                  L0007100    , L0007101    , L0007102    , L0007103    , L0007104
, L0007105    , L0007106    , L0007107    ,
                  L0007108    , L0007109    , L0007110    , L0007111    , L0007112
, L0007113    , L0007114    , L0007115    ,
                  L0007116    , L0007117    , L0007118    , L0007119    , L0007120
, L0007121    , L0007122    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                   ** CONC OF HRA      IN MICROGRAMS/M**3
                    **
```

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
632150.00	4179150.00	0.08025	630850.00	4179250.00	0.05988
630950.00	4179250.00	0.06138	631050.00	4177625.00	0.10765
631100.00	4177725.00	0.10866	631100.00	4177825.00	0.10568
631350.00	4178225.00	0.10101	631400.00	4178225.00	0.10283
631450.00	4178225.00	0.10468	631500.00	4178225.00	0.10655
631100.00	4178275.00	0.09048	631150.00	4178275.00	0.09215
631200.00	4178275.00	0.09380	631250.00	4178275.00	0.09547
631300.00	4178275.00	0.09716	631350.00	4178275.00	0.09888
631400.00	4178275.00	0.10063	631450.00	4178275.00	0.10241
631500.00	4178275.00	0.10419	630950.00	4178325.00	0.08411
631100.00	4178325.00	0.08881	631150.00	4178325.00	0.09038
631200.00	4178325.00	0.09198	631250.00	4178325.00	0.09356
631300.00	4178325.00	0.09521	631400.00	4178325.00	0.09847
631450.00	4178325.00	0.10018	631500.00	4178325.00	0.10186
630950.00	4178375.00	0.08271	631200.00	4178375.00	0.09014
631300.00	4178375.00	0.09322	631400.00	4178375.00	0.09640
631450.00	4178375.00	0.09797	631500.00	4178375.00	0.09957
630800.00	4178425.00	0.07703	630850.00	4178425.00	0.07846
631050.00	4178425.00	0.08411	631200.00	4178425.00	0.08838
631250.00	4178425.00	0.08986	631300.00	4178425.00	0.09134
630650.00	4178475.00	0.07179	630800.00	4178475.00	0.07587
630850.00	4178475.00	0.07720	631050.00	4178475.00	0.08258
631200.00	4178475.00	0.08667	631250.00	4178475.00	0.08807

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         631300.00    4178475.00        0.08949                        631450.00
4178475.00        0.09380
         631500.00    4178475.00        0.09517                        630550.00
4178525.00        0.06823
         630600.00    4178525.00        0.06952                        630650.00
4178525.00        0.07078
         630700.00    4178525.00        0.07210                        630750.00
4178525.00        0.07340
         630950.00    4178525.00        0.07849                        631050.00
4178525.00        0.08107
         631200.00    4178525.00        0.08500                        631250.00
4178525.00        0.08635
         631300.00    4178525.00        0.08771                        631350.00
4178525.00        0.08910
         631400.00    4178525.00        0.09046                        631450.00
4178525.00        0.09184
         631500.00    4178525.00        0.09309                        630500.00
4178575.00        0.06614
         630550.00    4178575.00        0.06737                        630600.00
4178575.00        0.06860
         630650.00    4178575.00        0.06979                        630700.00
4178575.00        0.07104
         630750.00    4178575.00        0.07230                        630800.00
4178575.00        0.07350
         630850.00    4178575.00        0.07471                        631000.00
4178575.00        0.07837
         631050.00    4178575.00        0.07960                        631200.00
4178575.00        0.08337
         631250.00    4178575.00        0.08467                        631300.00
4178575.00        0.08598
         631350.00    4178575.00        0.08729                        631400.00
4178575.00        0.08860
         631450.00    4178575.00        0.08984                        631500.00
4178575.00        0.09104
 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                          ***       01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                          ***      15:43:26

                                   PAGE  80
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: IDLING2  ***
                                   INCLUDING SOURCE(S):     L0007095    , L0007096
, L0007097    , L0007098    , L0007099    ,
                  L0007100    , L0007101    , L0007102    , L0007103    , L0007104
, L0007105    , L0007106    , L0007107    ,
                  L0007108    , L0007109    , L0007110    , L0007111    , L0007112
, L0007113    , L0007114    , L0007115    ,
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L0007116 , L0007117 , L0007118 , L0007119 , L0007120
, L0007121 , L0007122 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS
***

** CONC OF HRA IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
630500.00	4178625.00	0.06532	630550.00	4178625.00	0.06651
630600.00	4178625.00	0.06767	630650.00	4178625.00	0.06881
630700.00	4178625.00	0.07000	630750.00	4178625.00	0.07118
630800.00	4178625.00	0.07235	630850.00	4178625.00	0.07351
631000.00	4178625.00	0.07697	631050.00	4178625.00	0.07815
631100.00	4178625.00	0.07934	631150.00	4178625.00	0.08053
631200.00	4178625.00	0.08178	631250.00	4178625.00	0.08304
631300.00	4178625.00	0.08429	631350.00	4178625.00	0.08554
631400.00	4178625.00	0.08676	631450.00	4178625.00	0.08793
631500.00	4178625.00	0.08903	631100.00	4175700.00	0.07768
631150.00	4175700.00	0.08107	631200.00	4175700.00	0.08438
631250.00	4175700.00	0.08837	631100.00	4175750.00	0.07690
631150.00	4175750.00	0.08046	629400.00	4179050.00	0.04068
629450.00	4179050.00	0.04149	629500.00	4179050.00	0.04230
629400.00	4179100.00	0.04058	629450.00	4179100.00	0.04136
629400.00	4179150.00	0.04045	629500.00	4179150.00	0.04195
629550.00	4179150.00	0.04270	629600.00	4179150.00	0.04345
629650.00	4179150.00	0.04420	629700.00	4179150.00	0.04493
629800.00	4179200.00	0.04599	629400.00		

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4179300.00        0.03991
         629400.00    4179350.00        0.03969                    634375.00
4175350.00        0.76636
         634425.00    4175350.00        0.73464                    635425.00
4175350.00        0.36277
         635425.00    4175400.00        0.37331                    635475.00
4175400.00        0.36231
         634325.00    4175450.00        0.91728                    634475.00
4175450.00        0.79150
         634525.00    4175450.00        0.75532                    634525.00
4175500.00        0.79068
         634325.00    4175550.00        1.01912                    634525.00
4175550.00        0.82151
         634575.00    4175550.00        0.78156                    634775.00
4175550.00        0.64911
         634825.00    4175550.00        0.62156                    634625.00
4175600.00        0.76462
         634675.00    4175600.00        0.72822                    634725.00
4175600.00        0.69505
         634775.00    4175600.00        0.66379                    634825.00
4175600.00        0.63515
         634875.00    4175600.00        0.60819                    634925.00
4175600.00        0.58317
         635375.00    4175600.00        0.41729                    634275.00
4175650.00        1.15590
         634325.00    4175650.00        1.08568                    634575.00
4175650.00        0.81886
         634625.00    4175650.00        0.77796                    634675.00
4175650.00        0.74073
         634725.00    4175650.00        0.70620                    634775.00
4175650.00        0.67384
         634825.00    4175650.00        0.64445                    634875.00
4175650.00        0.61670
         634925.00    4175650.00        0.59068                    634975.00
4175650.00        0.56685
         635025.00    4175650.00        0.54409                    635325.00
4175650.00        0.43564
         635375.00    4175650.00        0.42100                    634475.00
4175700.00        0.92049
         634525.00    4175700.00        0.87100                    634575.00
4175700.00        0.82573
         634625.00    4175700.00        0.78382                    634675.00
4175700.00        0.74582
 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                          ***       01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                          ***      15:43:26

                                  PAGE  81
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*
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*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: IDLING2 ***

INCLUDING SOURCE(S): L0007095 , L0007096 , L0007097 , L0007098 , L0007099 , L0007100 , L0007101 , L0007102 , L0007103 , L0007104 , L0007105 , L0007106 , L0007107 , L0007108 , L0007109 , L0007110 , L0007111 , L0007112 , L0007113 , L0007114 , L0007115 , L0007116 , L0007117 , L0007118 , L0007119 , L0007120 , L0007121 , L0007122 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF HRA IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
634725.00	4175700.00	0.71149	634775.00	4175700.00	0.67880
634825.00	4175700.00	0.64813	634875.00	4175700.00	0.62049
634925.00	4175700.00	0.59386	634975.00	4175700.00	0.56976
635025.00	4175700.00	0.54660	635075.00	4175700.00	0.52558
635125.00	4175700.00	0.50559	634425.00	4175750.00	0.97268
634575.00	4175750.00	0.82457	634625.00	4175750.00	0.78305
634675.00	4175750.00	0.74483	634725.00	4175750.00	0.71013
634775.00	4175750.00	0.67741	634825.00	4175750.00	0.64726
634875.00	4175750.00	0.61882	634925.00	4175750.00	0.59277
634975.00	4175750.00	0.56840	635025.00	4175750.00	0.54544
635075.00	4175750.00	0.52442	635125.00	4175750.00	0.50452
635175.00	4175750.00	0.48539	635225.00	4175750.00	0.46817
634325.00	4175800.00	1.08046	634375.00	4175800.00	1.01691
634425.00	4175800.00	0.95846	634475.00	4175800.00	0.90639

634525.00 4175800.00 0.85829 634575.00
4175800.00 0.81359
634625.00 4175800.00 0.77416 634675.00
4175800.00 0.73604
634725.00 4175800.00 0.70212 634775.00
4175800.00 0.66987
634825.00 4175800.00 0.64078 634875.00
4175800.00 0.61259
634925.00 4175800.00 0.58724 634975.00
4175800.00 0.56327
635025.00 4175800.00 0.54074 635075.00
4175800.00 0.51956
635125.00 4175800.00 0.49989 635175.00
4175800.00 0.48170
635225.00 4175800.00 0.46424 635275.00
4175800.00 0.44802
635325.00 4175800.00 0.43229 634225.00
4175850.00 1.18630
634325.00 4175850.00 1.04841 634375.00
4175850.00 0.98767
634425.00 4175850.00 0.93309 634475.00
4175850.00 0.88338
634525.00 4175850.00 0.83751 634575.00
4175850.00 0.79511
634625.00 4175850.00 0.75748 634675.00
4175850.00 0.72099
634725.00 4175850.00 0.68756 634775.00
4175850.00 0.65773
634825.00 4175850.00 0.62889 634875.00
4175850.00 0.60209
634925.00 4175850.00 0.57695 634975.00
4175850.00 0.55384
635025.00 4175850.00 0.53191 635075.00
4175850.00 0.51175
635125.00 4175850.00 0.49267 635175.00
4175850.00 0.47475
635225.00 4175850.00 0.45757 635275.00
4175850.00 0.44190
635325.00 4175850.00 0.42667 635375.00
4175850.00 0.41207
635425.00 4175850.00 0.39850 634225.00
4175900.00 1.13015
634325.00 4175900.00 1.00494 634375.00
4175900.00 0.94884
634425.00 4175900.00 0.89724 634475.00
4175900.00 0.85102
634525.00 4175900.00 0.80843 634575.00
4175900.00 0.76912
634625.00 4175900.00 0.73327 634675.00
4175900.00 0.70037

                                *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: IDLING2 ***
                                    INCLUDING SOURCE(S):   L0007095   , L0007096
, L0007097   , L0007098   , L0007099   ,
                  L0007100   , L0007101   , L0007102   , L0007103   , L0007104
, L0007105   , L0007106   , L0007107   ,
                  L0007108   , L0007109   , L0007110   , L0007111   , L0007112
, L0007113   , L0007114   , L0007115   ,
                  L0007116   , L0007117   , L0007118   , L0007119   , L0007120
, L0007121   , L0007122   , . . .   ,

                                       *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                    ** CONC OF HRA   IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 -
- -
         634875.00   4175900.00   0.58709   634925.00
4175900.00   0.56306
         634975.00   4175900.00   0.54115   635025.00
4175900.00   0.52028
         635075.00   4175900.00   0.50088   635125.00
4175900.00   0.48222
         635175.00   4175900.00   0.46504   635225.00
4175900.00   0.44876
         635275.00   4175900.00   0.43320   635325.00
4175900.00   0.41894
         635375.00   4175900.00   0.40453   635425.00
4175900.00   0.39152
         635475.00   4175900.00   0.37904   635525.00
4175900.00   0.36729
         634325.00   4175950.00   0.95058   634375.00
4175950.00   0.90122
         634425.00   4175950.00   0.85503   634475.00
4175950.00   0.81308
         634525.00   4175950.00   0.77388   634575.00

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4175950.00        0.73752
         634625.00    4175950.00        0.70478                   634675.00
4175950.00        0.67410
         634875.00    4175950.00        0.56811                   634925.00
4175950.00        0.54575
         634975.00    4175950.00        0.52520                   635025.00
4175950.00        0.50541
         635075.00    4175950.00        0.48692                   635125.00
4175950.00        0.46962
         635175.00    4175950.00        0.45327                   635225.00
4175950.00        0.43739
         635275.00    4175950.00        0.42311                   635325.00
4175950.00        0.40872
         635375.00    4175950.00        0.39561                   635425.00
4175950.00        0.38304
         635475.00    4175950.00        0.37106                   635525.00
4175950.00        0.35939
         635575.00    4175950.00        0.34871                   634725.00
4176000.00        0.61747
         634925.00    4176000.00        0.52561                   634975.00
4176000.00        0.50680
         635025.00    4176000.00        0.48851                   635075.00
4176000.00        0.47085
         635125.00    4176000.00        0.45468                   635175.00
4176000.00        0.43912
         635225.00    4176000.00        0.42449                   635275.00
4176000.00        0.41089
         635325.00    4176000.00        0.39736                   635375.00
4176000.00        0.38496
         635425.00    4176000.00        0.37281                   635475.00
4176000.00        0.36146
         635525.00    4176000.00        0.35064                   635575.00
4176000.00        0.34012
         634825.00    4176050.00        0.54226                   634875.00
4176050.00        0.52252
         634925.00    4176050.00        0.50387                   634975.00
4176050.00        0.48614
         635025.00    4176050.00        0.46912                   635075.00
4176050.00        0.45310
         635125.00    4176050.00        0.43820                   635175.00
4176050.00        0.42376
         635225.00    4176050.00        0.41013                   635275.00
4176050.00        0.39711
         635325.00    4176050.00        0.38467                   635375.00
4176050.00        0.37266
         635425.00    4176050.00        0.36169                   635475.00
4176050.00        0.35084
         635525.00    4176050.00        0.34058                   635575.00
4176050.00        0.33059
         634825.00    4176100.00        0.51503                   634875.00
```

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4176100.00        0.49739
         634925.00    4176100.00        0.47999                       634975.00
4176100.00        0.46396
         635025.00    4176100.00        0.44891                       635075.00
4176100.00        0.43430
         635125.00    4176100.00        0.42031                       635175.00
4176100.00        0.40693
         635225.00    4176100.00        0.39443                       635275.00
4176100.00        0.38241
         635325.00    4176100.00        0.37092                       635375.00
4176100.00        0.36008
🡅 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                         ***       01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                       ***       15:43:26

                                  PAGE  83
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: IDLING2  ***
                                  INCLUDING SOURCE(S):     L0007095    , L0007096
, L0007097    , L0007098    , L0007099    ,
                L0007100    , L0007101    , L0007102    , L0007103    , L0007104
, L0007105    , L0007106    , L0007107    ,
                L0007108    , L0007109    , L0007110    , L0007111    , L0007112
, L0007113    , L0007114    , L0007115    ,
                L0007116    , L0007117    , L0007118    , L0007119    , L0007120
, L0007121    , L0007122    ,  . . .      ,

                                             *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                        ** CONC OF HRA      IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                       X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - -
         635425.00    4176100.00        0.34912                       635475.00
4176100.00        0.33934
         635525.00    4176100.00        0.32976                       635575.00
4176100.00        0.32061
         634825.00    4176150.00        0.48717                       634875.00
4176150.00        0.47153
         634925.00    4176150.00        0.45577                       634975.00
4176150.00        0.44139
         635025.00    4176150.00        0.42774                       635075.00
4176150.00        0.41425
```

635125.00 4176150.00 0.40184 635175.00
4176150.00 0.38963
635225.00 4176150.00 0.37770 635275.00
4176150.00 0.36704
635325.00 4176150.00 0.35635 635375.00
4176150.00 0.34628
635425.00 4176150.00 0.33622 635475.00
4176150.00 0.32714
635525.00 4176150.00 0.31823 635575.00
4176150.00 0.30972
634875.00 4176200.00 0.44577 634925.00
4176200.00 0.43168
634975.00 4176200.00 0.41847 635125.00
4176200.00 0.38264
635175.00 4176200.00 0.37185 635225.00
4176200.00 0.36105
635525.00 4176200.00 0.30625 635575.00
4176200.00 0.29818
634325.00 4176250.00 0.59980 634375.00
4176250.00 0.57913
634875.00 4176250.00 0.42024 634925.00
4176250.00 0.40811
634975.00 4176250.00 0.39636 635025.00
4176250.00 0.38503
635075.00 4176250.00 0.37409 635125.00
4176250.00 0.36381
635175.00 4176250.00 0.35376 635225.00
4176250.00 0.34447
635275.00 4176250.00 0.33515 635375.00
4176250.00 0.31750
635425.00 4176250.00 0.30941 635525.00
4176250.00 0.29409
635575.00 4176250.00 0.28680 634875.00
4176300.00 0.39579
634925.00 4176300.00 0.38489 634975.00
4176300.00 0.37442
635025.00 4176300.00 0.36437 635075.00
4176300.00 0.35461
635125.00 4176300.00 0.34533 635175.00
4176300.00 0.33613
635225.00 4176300.00 0.32760 635275.00
4176300.00 0.31955
635375.00 4176300.00 0.30328 635425.00
4176300.00 0.29589
635525.00 4176300.00 0.28179 635575.00
4176300.00 0.27480
634875.00 4176350.00 0.37280 634925.00
4176350.00 0.36303
634975.00 4176350.00 0.35352 635025.00
4176350.00 0.34447

```
         635075.00    4176350.00        0.33563                      635125.00
4176350.00        0.32723
         635175.00    4176350.00        0.31893                      635225.00
4176350.00        0.31144
         635275.00    4176350.00        0.30390                      635375.00
4176350.00        0.28921
         635425.00    4176350.00        0.28249                      635525.00
4176350.00        0.26952
         635575.00    4176350.00        0.26313                      634875.00
4176400.00        0.35167
         634925.00    4176400.00        0.34274                      634975.00
4176400.00        0.33412
         635025.00    4176400.00        0.32582                      635075.00
4176400.00        0.31788
         635125.00    4176400.00        0.31026                      635175.00
4176400.00        0.30293
         635225.00    4176400.00        0.29590                      635275.00
4176400.00        0.28910
         635425.00    4176400.00        0.26952                      635525.00
4176400.00        0.25741
 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                          ***       01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                          ***       15:43:26

                                    PAGE  84
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: IDLING2  ***
                                    INCLUDING SOURCE(S):     L0007095    , L0007096
, L0007097    , L0007098    , L0007099    ,
                   L0007100    , L0007101    , L0007102    , L0007103    , L0007104
, L0007105    , L0007106    , L0007107    ,
                   L0007108    , L0007109    , L0007110    , L0007111    , L0007112
, L0007113    , L0007114    , L0007115    ,
                   L0007116    , L0007117    , L0007118    , L0007119    , L0007120
, L0007121    , L0007122    ,  . . .      ,

                                       *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                    ** CONC OF HRA      IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                       X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         635575.00    4176400.00        0.25189                      633650.00
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4176200.00 1.15707
633700.00 4176200.00 1.09616 633850.00
4176200.00 0.95082
633850.00 4176250.00 0.85524 633950.00
4176250.00 0.78818
634350.00 4176250.00 0.58969 633750.00
4176300.00 0.84838
633950.00 4176300.00 0.71550 634000.00
4176300.00 0.68943
634050.00 4176300.00 0.66390 634050.00
4176350.00 0.60837
634050.00 4176400.00 0.56073 634000.00
4176450.00 0.53952
634050.00 4176450.00 0.52062 634200.00
4176600.00 0.38978
634100.00 4176650.00 0.39463 634150.00
4176650.00 0.38206
634200.00 4176650.00 0.36912 634200.00
4176850.00 0.30433
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4176900.00 0.28313
634300.00 4176900.00 0.27555 634400.00
4177000.00 0.24091
634450.00 4177000.00 0.23436 634500.00
4177000.00 0.22849
634550.00 4177000.00 0.22274 634400.00
4177050.00 0.23184
634450.00 4177050.00 0.22552 634500.00
4177050.00 0.22094
634550.00 4177050.00 0.21580 633750.00
4173175.00 0.04995
634450.00 4173325.00 0.06843 634450.00
4173375.00 0.07186
634350.00 4173475.00 0.07640 634300.00
4173625.00 0.08846
634300.00 4173675.00 0.09370 634350.00
4173675.00 0.09512
634250.00 4173775.00 0.10329 633950.00
4173825.00 0.09812
634050.00 4173825.00 0.10184 634100.00
4173825.00 0.10397
634250.00 4173825.00 0.10942 634250.00
4173975.00 0.13078
634150.00 4174125.00 0.15581 634200.00
4174125.00 0.15626
634250.00 4174125.00 0.15615 634250.00
4174225.00 0.17501
634350.00 4174225.00 0.17035 634400.00
4174225.00 0.16745
634200.00 4174325.00 0.19715 634250.00

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4174325.00        0.19455
         634200.00    4174375.00        0.20759                        634250.00
4174425.00        0.22667
         634000.00    4174475.00        0.24365                        634250.00
4174525.00        0.24970
         634100.00    4174575.00        0.27847                        634150.00
4174575.00        0.27648
         634200.00    4174575.00        0.26942                        634250.00
4174575.00        0.26247
         634250.00    4174625.00        0.27643                        634250.00
4174675.00        0.29195
         634250.00    4174825.00        0.35188                        634250.00
4174875.00        0.37788
         634200.00    4174925.00        0.41739                        634250.00
4174925.00        0.40768
         631950.00    4173950.00        0.02707                        631550.00
4174000.00        0.02696
         631550.00    4174050.00        0.02846                        631750.00
4174250.00        0.03678
         632300.00    4174300.00        0.06594                        632350.00
4174300.00        0.06754
         632300.00    4174350.00        0.06967                        632350.00
4174350.00        0.07189
         631600.00    4174400.00        0.04158                        631650.00
4174400.00        0.04440
         632000.00    4174400.00        0.05770                        632000.00
4174450.00        0.06094
         631950.00    4174500.00        0.06357                        632150.00
4174950.00        0.12871
 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                          ***       01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                          ***      15:43:26

                                   PAGE  85
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: IDLING2  ***
                                   INCLUDING SOURCE(S):     L0007095    , L0007096
, L0007097    , L0007098    , L0007099    ,
                  L0007100    , L0007101    , L0007102    , L0007103    , L0007104
, L0007105    , L0007106    , L0007107    ,
                  L0007108    , L0007109    , L0007110    , L0007111    , L0007112
, L0007113    , L0007114    , L0007115    ,
                  L0007116    , L0007117    , L0007118    , L0007119    , L0007120
, L0007121    , L0007122    ,  . . .      ,

                                                  *** DISCRETE CARTESIAN RECEPTOR POINTS
***
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                                        ** CONC OF HRA      IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                        X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - -
         632200.00    4174950.00        0.13422

 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                          ***        01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                          ***        15:43:26

                                    PAGE  86
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: IDLING3  ***
                                    INCLUDING SOURCE(S):     L0007152    , L0007153
, L0007154    , L0007155    , L0007156    ,
                  L0007157    , L0007158    , L0007159    , L0007160    , L0007161
, L0007162    , L0007163    , L0007164    ,
                  L0007165    , L0007166    , L0007167    , L0007168    , L0007169
, L0007170    , L0007171    , L0007172    ,
                  L0007173    , L0007174    , L0007175    , L0007176    , L0007177
, L0007178    , L0007179    ,  . . .      ,

                                           *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                        ** CONC OF HRA      IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                        X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - -
         631050.00    4178050.00        0.08930                       631150.00
4178250.00        0.08853
         631250.00    4178250.00        0.09226                       631350.00
4178250.00        0.09602
         631450.00    4178250.00        0.09974                       631550.00
4178250.00        0.10351
         631650.00    4178250.00        0.10739                       631750.00
4178250.00        0.11136
         631150.00    4178350.00        0.08573                       631450.00
4178350.00        0.09575
         631550.00    4178350.00        0.09915                       631650.00
```

4178350.00 0.10275
631750.00 4178350.00 0.10630 630650.00
4178450.00 0.06790
630850.00 4178450.00 0.07387 631050.00
4178450.00 0.07990
631150.00 4178450.00 0.08289 631250.00
4178450.00 0.08590
631550.00 4178450.00 0.09503 631650.00
4178450.00 0.09826
631750.00 4178450.00 0.10138 631850.00
4178450.00 0.10421
631950.00 4178450.00 0.10656 632050.00
4178450.00 0.10864
632150.00 4178450.00 0.11082 630550.00
4178550.00 0.06384
630650.00 4178550.00 0.06653 630750.00
4178550.00 0.06925
630950.00 4178550.00 0.07466 631050.00
4178550.00 0.07741
631250.00 4178550.00 0.08280 631350.00
4178550.00 0.08551
631450.00 4178550.00 0.08834 631550.00
4178550.00 0.09120
631650.00 4178550.00 0.09409 631750.00
4178550.00 0.09682
631850.00 4178550.00 0.09913 631950.00
4178550.00 0.10106
632050.00 4178550.00 0.10292 632150.00
4178550.00 0.10498
630450.00 4178650.00 0.06018 630550.00
4178650.00 0.06264
630650.00 4178650.00 0.06506 630750.00
4178650.00 0.06753
630850.00 4178650.00 0.06999 630950.00
4178650.00 0.07247
631050.00 4178650.00 0.07494 631150.00
4178650.00 0.07737
631250.00 4178650.00 0.07981 631350.00
4178650.00 0.08229
631450.00 4178650.00 0.08489 631550.00
4178650.00 0.08756
631650.00 4178650.00 0.09015 631750.00
4178650.00 0.09243
631850.00 4178650.00 0.09438 631950.00
4178650.00 0.09596
632050.00 4178650.00 0.09766 632150.00
4178650.00 0.09978
630350.00 4178750.00 0.05688 630450.00
4178750.00 0.05909
630550.00 4178750.00 0.06133 630650.00

4178750.00   0.06353
         630750.00   4178750.00   0.06578   630850.00
4178750.00   0.06803
         630950.00   4178750.00   0.07027   631050.00
4178750.00   0.07248
         631150.00   4178750.00   0.07470   631250.00
4178750.00   0.07695
         631350.00   4178750.00   0.07926   631450.00
4178750.00   0.08167
         631550.00   4178750.00   0.08409   631650.00
4178750.00   0.08638
         631750.00   4178750.00   0.08827   631850.00
4178750.00   0.08984
         631950.00   4178750.00   0.09128   632050.00
4178750.00   0.09286
         632150.00   4178750.00   0.09497   630250.00
4178850.00   0.05386
         630350.00   4178850.00   0.05589   630450.00
4178850.00   0.05792

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                               *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: IDLING3 ***
                                   INCLUDING SOURCE(S):   L0007152   , L0007153
, L0007154   , L0007155   , L0007156   ,
                  L0007157   , L0007158   , L0007159   , L0007160   , L0007161
, L0007162   , L0007163   , L0007164   ,
                  L0007165   , L0007166   , L0007167   , L0007168   , L0007169
, L0007170   , L0007171   , L0007172   ,
                  L0007173   , L0007174   , L0007175   , L0007176   , L0007177
, L0007178   , L0007179   , . . .   ,

                                              *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                   ** CONC OF HRA   IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 -
- -
         630550.00   4178850.00   0.05995   630650.00
4178850.00   0.06196

630750.00 4178850.00 0.06403 630850.00
4178850.00 0.06607
630950.00 4178850.00 0.06810 631050.00
4178850.00 0.07009
631150.00 4178850.00 0.07212 631250.00
4178850.00 0.07421
631350.00 4178850.00 0.07639 631450.00
4178850.00 0.07860
631550.00 4178850.00 0.08076 631650.00
4178850.00 0.08270
631750.00 4178850.00 0.08428 631850.00
4178850.00 0.08561
631950.00 4178850.00 0.08694 632050.00
4178850.00 0.08854
632150.00 4178850.00 0.09064 630250.00
4178950.00 0.05296
630350.00 4178950.00 0.05482 630450.00
4178950.00 0.05666
630550.00 4178950.00 0.05855 630650.00
4178950.00 0.06038
630750.00 4178950.00 0.06227 630850.00
4178950.00 0.06411
630950.00 4178950.00 0.06597 631050.00
4178950.00 0.06778
631150.00 4178950.00 0.06967 631250.00
4178950.00 0.07163
631350.00 4178950.00 0.07368 631450.00
4178950.00 0.07568
631550.00 4178950.00 0.07757 631650.00
4178950.00 0.07922
631750.00 4178950.00 0.08051 631850.00
4178950.00 0.08161
631950.00 4178950.00 0.08293 632050.00
4178950.00 0.08456
632150.00 4178950.00 0.08669 629950.00
4179050.00 0.04686
630250.00 4179050.00 0.05199 630350.00
4179050.00 0.05368
630450.00 4179050.00 0.05540 630550.00
4179050.00 0.05711
630650.00 4179050.00 0.05879 630750.00
4179050.00 0.06049
630850.00 4179050.00 0.06218 630950.00
4179050.00 0.06388
631050.00 4179050.00 0.06558 631150.00
4179050.00 0.06735
631250.00 4179050.00 0.06919 631350.00
4179050.00 0.07109
631450.00 4179050.00 0.07291 631550.00
4179050.00 0.07448

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         631650.00    4179050.00        0.07582                      631750.00
4179050.00        0.07693
         631850.00    4179050.00        0.07796                      631950.00
4179050.00        0.07927
         632050.00    4179050.00        0.08092                      632150.00
4179050.00        0.08301
         629850.00    4179150.00        0.04466                      629950.00
4179150.00        0.04625
         630150.00    4179150.00        0.04937                      630250.00
4179150.00        0.05094
         630350.00    4179150.00        0.05250                      630450.00
4179150.00        0.05408
         630550.00    4179150.00        0.05567                      630650.00
4179150.00        0.05724
         630750.00    4179150.00        0.05876                      630850.00
4179150.00        0.06028
         630950.00    4179150.00        0.06184                      631050.00
4179150.00        0.06346
         631150.00    4179150.00        0.06515                      631250.00
4179150.00        0.06688
         631350.00    4179150.00        0.06859                      631450.00
4179150.00        0.07022
         631550.00    4179150.00        0.07153                      631650.00
4179150.00        0.07263
         631750.00    4179150.00        0.07364                      631850.00
4179150.00        0.07467
         631950.00    4179150.00        0.07572                      632050.00
4179150.00        0.07759
 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                          ***        01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                          ***       15:43:26

                                    PAGE  88
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: IDLING3  ***
                                    INCLUDING SOURCE(S):     L0007152    , L0007153
, L0007154    , L0007155    , L0007156    ,
                  L0007157    , L0007158    , L0007159    , L0007160    , L0007161
, L0007162    , L0007163    , L0007164    ,
                  L0007165    , L0007166    , L0007167    , L0007168    , L0007169
, L0007170    , L0007171    , L0007172    ,
                  L0007173    , L0007174    , L0007175    , L0007176    , L0007177
, L0007178    , L0007179    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***
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** CONC OF HRA IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
632150.00	4179150.00	0.07958	630850.00	4179250.00	0.05848
630950.00	4179250.00	0.05993	631050.00	4177625.00	0.09436
631100.00	4177725.00	0.09715	631100.00	4177825.00	0.09596
631350.00	4178225.00	0.09694	631400.00	4178225.00	0.09885
631450.00	4178225.00	0.10077	631500.00	4178225.00	0.10270
631100.00	4178275.00	0.08601	631150.00	4178275.00	0.08784
631200.00	4178275.00	0.08965	631250.00	4178275.00	0.09148
631300.00	4178275.00	0.09330	631350.00	4178275.00	0.09511
631400.00	4178275.00	0.09693	631450.00	4178275.00	0.09875
631500.00	4178275.00	0.10058	630950.00	4178325.00	0.07956
631100.00	4178325.00	0.08471	631150.00	4178325.00	0.08643
631200.00	4178325.00	0.08818	631250.00	4178325.00	0.08989
631300.00	4178325.00	0.09162	631400.00	4178325.00	0.09501
631450.00	4178325.00	0.09675	631500.00	4178325.00	0.09848
630950.00	4178375.00	0.07851	631200.00	4178375.00	0.08665
631300.00	4178375.00	0.08990	631400.00	4178375.00	0.09314
631450.00	4178375.00	0.09476	631500.00	4178375.00	0.09643
630800.00	4178425.00	0.07281	630850.00	4178425.00	0.07434
631050.00	4178425.00	0.08052	631200.00	4178425.00	0.08515
631250.00	4178425.00	0.08670	631300.00	4178425.00	0.08822
630650.00	4178475.00	0.06757	630800.00	4178475.00	0.07195
630850.00	4178475.00	0.07340	631050.00		

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4178475.00        0.07927
         631200.00    4178475.00        0.08367                        631250.00
4178475.00        0.08512
         631300.00    4178475.00        0.08657                        631450.00
4178475.00        0.09098
         631500.00    4178475.00        0.09250                        630550.00
4178525.00        0.06412
         630600.00    4178525.00        0.06551                        630650.00
4178525.00        0.06687
         630700.00    4178525.00        0.06827                        630750.00
4178525.00        0.06966
         630950.00    4178525.00        0.07521                        631050.00
4178525.00        0.07803
         631200.00    4178525.00        0.08219                        631250.00
4178525.00        0.08357
         631300.00    4178525.00        0.08494                        631350.00
4178525.00        0.08634
         631400.00    4178525.00        0.08775                        631450.00
4178525.00        0.08922
         631500.00    4178525.00        0.09065                        630500.00
4178575.00        0.06223
         630550.00    4178575.00        0.06355                        630600.00
4178575.00        0.06487
         630650.00    4178575.00        0.06615                        630700.00
4178575.00        0.06749
         630750.00    4178575.00        0.06883                        630800.00
4178575.00        0.07013
         630850.00    4178575.00        0.07145                        631000.00
4178575.00        0.07547
         631050.00    4178575.00        0.07679                        631200.00
4178575.00        0.08074
         631250.00    4178575.00        0.08204                        631300.00
4178575.00        0.08336
         631350.00    4178575.00        0.08468                        631400.00
4178575.00        0.08606
         631450.00    4178575.00        0.08743                        631500.00
4178575.00        0.08884
 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                          ***        01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                          ***       15:43:26

                                    PAGE  89
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: IDLING3  ***
                                    INCLUDING SOURCE(S):     L0007152    , L0007153
, L0007154    , L0007155    , L0007156    ,
                 L0007157    , L0007158    , L0007159    , L0007160    , L0007161
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, L0007162    , L0007163    , L0007164    ,
                L0007165    , L0007166    , L0007167    , L0007168    , L0007169
, L0007170    , L0007171    , L0007172    ,
                L0007173    , L0007174    , L0007175    , L0007176    , L0007177
, L0007178    , L0007179    ,  . . .      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF HRA      IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                       X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - -
         630500.00    4178625.00        0.06168                      630550.00
4178625.00        0.06295
         630600.00    4178625.00        0.06420                      630650.00
4178625.00        0.06542
         630700.00    4178625.00        0.06669                      630750.00
4178625.00        0.06796
         630800.00    4178625.00        0.06923                      630850.00
4178625.00        0.07050
         631000.00    4178625.00        0.07429                      631050.00
4178625.00        0.07555
         631100.00    4178625.00        0.07680                      631150.00
4178625.00        0.07803
         631200.00    4178625.00        0.07929                      631250.00
4178625.00        0.08054
         631300.00    4178625.00        0.08180                      631350.00
4178625.00        0.08308
         631400.00    4178625.00        0.08439                      631450.00
4178625.00        0.08573
         631500.00    4178625.00        0.08708                      631100.00
4175700.00        0.06641
         631150.00    4175700.00        0.06891                      631200.00
4175700.00        0.07136
         631250.00    4175700.00        0.07424                      631100.00
4175750.00        0.06604
         631150.00    4175750.00        0.06869                      629400.00
4179050.00        0.03760
         629450.00    4179050.00        0.03840                      629500.00
4179050.00        0.03921
         629400.00    4179100.00        0.03760                      629450.00
4179100.00        0.03838
         629400.00    4179150.00        0.03758                      629500.00
4179150.00        0.03912
         629550.00    4179150.00        0.03991                      629600.00
4179150.00        0.04070
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         629650.00    4179150.00        0.04150                    629700.00
4179150.00        0.04229
         629800.00    4179200.00        0.04364                    629400.00
4179300.00        0.03742
         629400.00    4179350.00        0.03733                    634375.00
4175350.00        0.79117
         634425.00    4175350.00        0.76148                    635425.00
4175350.00        0.38561
         635425.00    4175400.00        0.40029                    635475.00
4175400.00        0.38832
         634325.00    4175450.00        0.99209                    634475.00
4175450.00        0.86067
         634525.00    4175450.00        0.82219                    634525.00
4175500.00        0.87952
         634325.00    4175550.00        1.16643                    634525.00
4175550.00        0.93410
         634575.00    4175550.00        0.88705                    634775.00
4175550.00        0.73118
         634825.00    4175550.00        0.69884                    634625.00
4175600.00        0.88355
         634675.00    4175600.00        0.83902                    634725.00
4175600.00        0.79847
         634775.00    4175600.00        0.76045                    634825.00
4175600.00        0.72566
         634875.00    4175600.00        0.69306                    634925.00
4175600.00        0.66287
         635375.00    4175600.00        0.46523                    634275.00
4175650.00        1.41095
         634325.00    4175650.00        1.31757                    634575.00
4175650.00        0.96946
         634625.00    4175650.00        0.91715                    634675.00
4175650.00        0.86969
         634725.00    4175650.00        0.82592                    634775.00
4175650.00        0.78518
         634825.00    4175650.00        0.74825                    634875.00
4175650.00        0.71361
         634925.00    4175650.00        0.68131                    634975.00
4175650.00        0.65177
         635025.00    4175650.00        0.62376                    635325.00
4175650.00        0.49167
         635375.00    4175650.00        0.47407                    634475.00
4175700.00        1.12608
         634525.00    4175700.00        1.05906                    634575.00
4175700.00        0.99825
         634625.00    4175700.00        0.94247                    634675.00
4175700.00        0.89216
 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                          ***        01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                          ***       15:43:26
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: IDLING3 ***

INCLUDING SOURCE(S): L0007152 , L0007153 , L0007154 , L0007155 , L0007156 , L0007157 , L0007158 , L0007159 , L0007160 , L0007161 , L0007162 , L0007163 , L0007164 , L0007165 , L0007166 , L0007167 , L0007168 , L0007169 , L0007170 , L0007171 , L0007172 , L0007173 , L0007174 , L0007175 , L0007176 , L0007177 , L0007178 , L0007179 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF HRA IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
634725.00	4175700.00	0.84688	634775.00	4175700.00	0.80424
634825.00	4175700.00	0.76459	634875.00	4175700.00	0.72890
634925.00	4175700.00	0.69491	634975.00	4175700.00	0.66417
635025.00	4175700.00	0.63492	635075.00	4175700.00	0.60839
635125.00	4175700.00	0.58334	634425.00	4175750.00	1.22668
634575.00	4175750.00	1.01675	634625.00	4175750.00	0.95925
634675.00	4175750.00	0.90683	634725.00	4175750.00	0.85953
634775.00	4175750.00	0.81546	634825.00	4175750.00	0.77514
634875.00	4175750.00	0.73749	634925.00	4175750.00	0.70319
634975.00	4175750.00	0.67133	635025.00	4175750.00	0.64155
635075.00	4175750.00	0.61436	635125.00	4175750.00	0.58881
635175.00	4175750.00	0.56447	635225.00	4175750.00	0.54255
634325.00	4175800.00	1.42175	634375.00		

4175800.00 1.32358
634425.00 4175800.00 1.23504 634475.00
4175800.00 1.15707
634525.00 4175800.00 1.08623 634575.00
4175800.00 1.02144
634625.00 4175800.00 0.96457 634675.00
4175800.00 0.91069
634725.00 4175800.00 0.86294 634775.00
4175800.00 0.81822
634825.00 4175800.00 0.77807 634875.00
4175800.00 0.73978
634925.00 4175800.00 0.70546 634975.00
4175800.00 0.67332
635025.00 4175800.00 0.64339 635075.00
4175800.00 0.61546
635125.00 4175800.00 0.58966 635175.00
4175800.00 0.56590
635225.00 4175800.00 0.54331 635275.00
4175800.00 0.52241
635325.00 4175800.00 0.50233 634225.00
4175850.00 1.63807
634325.00 4175850.00 1.40813 634375.00
4175850.00 1.31059
634425.00 4175850.00 1.22440 634475.00
4175850.00 1.14726
634525.00 4175850.00 1.07736 634575.00
4175850.00 1.01378
634625.00 4175850.00 0.95774 634675.00
4175850.00 0.90461
634725.00 4175850.00 0.85643 634775.00
4175850.00 0.81363
634825.00 4175850.00 0.77300 634875.00
4175850.00 0.73560
634925.00 4175850.00 0.70089 634975.00
4175850.00 0.66920
635025.00 4175850.00 0.63944 635075.00
4175850.00 0.61223
635125.00 4175850.00 0.58670 635175.00
4175850.00 0.56289
635225.00 4175850.00 0.54028 635275.00
4175850.00 0.51969
635325.00 4175850.00 0.49990 635375.00
4175850.00 0.48107
635425.00 4175850.00 0.46363 634225.00
4175900.00 1.58744
634325.00 4175900.00 1.37087 634375.00
4175900.00 1.27789
634425.00 4175900.00 1.19423 634475.00
4175900.00 1.12039
634525.00 4175900.00 1.05358 634575.00

4175900.00 0.99294
634625.00 4175900.00 0.93834 634675.00
4175900.00 0.88882
634725.00 4175900.00 0.84197 634775.00
4175900.00 0.79998

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: IDLING3 ***
INCLUDING SOURCE(S): L0007152 , L0007153 , L0007154 , L0007155 , L0007156 ,
L0007157 , L0007158 , L0007159 , L0007160 , L0007161 , L0007162 , L0007163 , L0007164 ,
L0007165 , L0007166 , L0007167 , L0007168 , L0007169 , L0007170 , L0007171 , L0007172 ,
L0007173 , L0007174 , L0007175 , L0007176 , L0007177 , L0007178 , L0007179 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF HRA IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
634875.00	4175900.00	0.72435	634925.00	4175900.00	0.69052
634975.00	4175900.00	0.65985	635025.00	4175900.00	0.63098
635075.00	4175900.00	0.60433	635125.00	4175900.00	0.57900
635175.00	4175900.00	0.55578	635225.00	4175900.00	0.53396
635275.00	4175900.00	0.51329	635325.00	4175900.00	0.49439
635375.00	4175900.00	0.47559	635425.00	4175900.00	0.45862
635475.00	4175900.00	0.44245	635525.00	4175900.00	0.42730
634325.00	4175950.00	1.31006	634375.00	4175950.00	1.22597

634425.00 4175950.00 1.14926 634475.00 4175950.00 1.08075
634525.00 4175950.00 1.01805 634575.00 4175950.00 0.96090
634625.00 4175950.00 0.90994 634675.00 4175950.00 0.86294
634875.00 4175950.00 0.70642 634925.00 4175950.00 0.67438
634975.00 4175950.00 0.64513 635025.00 4175950.00 0.61735
635075.00 4175950.00 0.59161 635125.00 4175950.00 0.56769
635175.00 4175950.00 0.54530 635225.00 4175950.00 0.52380
635275.00 4175950.00 0.50447 635325.00 4175950.00 0.48531
635375.00 4175950.00 0.46788 635425.00 4175950.00 0.45129
635475.00 4175950.00 0.43558 635525.00 4175950.00 0.42043
635575.00 4175950.00 0.40658 634725.00 4176000.00 0.78871
634925.00 4176000.00 0.65312 634975.00 4176000.00 0.62595
635025.00 4176000.00 0.59993 635075.00 4176000.00 0.57513
635125.00 4176000.00 0.55253 635175.00 4176000.00 0.53101
635225.00 4176000.00 0.51093 635275.00 4176000.00 0.49235
635325.00 4176000.00 0.47414 635375.00 4176000.00 0.45746
635425.00 4176000.00 0.44132 635475.00 4176000.00 0.42630
635525.00 4176000.00 0.41207 635575.00 4176000.00 0.39835
634825.00 4176050.00 0.68496 634875.00 4176050.00 0.65566
634925.00 4176050.00 0.62830 634975.00 4176050.00 0.60260
635025.00 4176050.00 0.57822 635075.00 4176050.00 0.55547
635125.00 4176050.00 0.53444 635175.00 4176050.00 0.51431
635225.00 4176050.00 0.49544 635275.00 4176050.00 0.47759
635325.00 4176050.00 0.46065 635375.00 4176050.00 0.44447
635425.00 4176050.00 0.42968 635475.00 4176050.00 0.41524

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         635525.00    4176050.00        0.40166                         635575.00
4176050.00        0.38853
         634825.00    4176100.00        0.65131                         634875.00
4176100.00        0.62499
         634925.00    4176100.00        0.59949                         634975.00
4176100.00        0.57613
         635025.00    4176100.00        0.55435                         635075.00
4176100.00        0.53349
         635125.00    4176100.00        0.51372                         635175.00
4176100.00        0.49497
         635225.00    4176100.00        0.47757                         635275.00
4176100.00        0.46098
         635325.00    4176100.00        0.44524                         635375.00
4176100.00        0.43048
↑ *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                          ***        01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                        ***       15:43:26

                                  PAGE  92
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: IDLING3  ***
                                  INCLUDING SOURCE(S):     L0007152    , L0007153
, L0007154    , L0007155    , L0007156    ,
                 L0007157    , L0007158    , L0007159    , L0007160    , L0007161
, L0007162    , L0007163    , L0007164    ,
                 L0007165    , L0007166    , L0007167    , L0007168    , L0007169
, L0007170    , L0007171    , L0007172    ,
                 L0007173    , L0007174    , L0007175    , L0007176    , L0007177
, L0007178    , L0007179    ,  . . .      ,

                                             *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                        ** CONC OF HRA      IN MICROGRAMS/M**3
                   **

       X-COORD (M)   Y-COORD (M)        CONC                          X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - -
         635425.00    4176100.00        0.41579                         635475.00
4176100.00        0.40263
         635525.00    4176100.00        0.38986                         635575.00
4176100.00        0.37774
         634825.00    4176150.00        0.61555                         634875.00
4176150.00        0.59219
         634925.00    4176150.00        0.56912                         634975.00
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4176150.00        0.54812
         635025.00    4176150.00        0.52836                   635075.00
4176150.00        0.50912
         635125.00    4176150.00        0.49147                   635175.00
4176150.00        0.47433
         635225.00    4176150.00        0.45777                   635275.00
4176150.00        0.44294
         635325.00    4176150.00        0.42827                   635375.00
4176150.00        0.41452
         635425.00    4176150.00        0.40096                   635475.00
4176150.00        0.38870
         635525.00    4176150.00        0.37678                   635575.00
4176150.00        0.36548
         634875.00    4176200.00        0.55861                   634925.00
4176200.00        0.53805
         634975.00    4176200.00        0.51891                   635125.00
4176200.00        0.46770
         635175.00    4176200.00        0.45250                   635225.00
4176200.00        0.43749
         635525.00    4176200.00        0.36281                   635575.00
4176200.00        0.35209
         634325.00    4176250.00        0.79915                   634375.00
4176250.00        0.76637
         634875.00    4176250.00        0.52469                   634925.00
4176250.00        0.50704
         634975.00    4176250.00        0.49011                   635025.00
4176250.00        0.47392
         635075.00    4176250.00        0.45841                   635125.00
4176250.00        0.44390
         635175.00    4176250.00        0.42985                   635225.00
4176250.00        0.41687
         635275.00    4176250.00        0.40402                   635375.00
4176250.00        0.37992
         635425.00    4176250.00        0.36894                   635525.00
4176250.00        0.34833
         635575.00    4176250.00        0.33861                   634875.00
4176300.00        0.49176
         634925.00    4176300.00        0.47611                   634975.00
4176300.00        0.46117
         635025.00    4176300.00        0.44691                   635075.00
4176300.00        0.43318
         635125.00    4176300.00        0.42017                   635175.00
4176300.00        0.40741
         635225.00    4176300.00        0.39559                   635275.00
4176300.00        0.38446
         635375.00    4176300.00        0.36237                   635425.00
4176300.00        0.35236
         635525.00    4176300.00        0.33344                   635575.00
4176300.00        0.32420
         634875.00    4176350.00        0.46054                   634925.00
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4176350.00        0.44671
         634975.00    4176350.00        0.43333                        635025.00
4176350.00        0.42064
         635075.00    4176350.00        0.40835                        635125.00
4176350.00        0.39670
         635175.00    4176350.00        0.38528                        635225.00
4176350.00        0.37495
         635275.00    4176350.00        0.36465                        635375.00
4176350.00        0.34480
         635425.00    4176350.00        0.33574                        635525.00
4176350.00        0.31841
         635575.00    4176350.00        0.30999                        634875.00
4176400.00        0.43171
         634925.00    4176400.00        0.41928                        634975.00
4176400.00        0.40733
         635025.00    4176400.00        0.39587                        635075.00
4176400.00        0.38494
         635125.00    4176400.00        0.37450                        635175.00
4176400.00        0.36449
         635225.00    4176400.00        0.35493                        635275.00
4176400.00        0.34572
         635425.00    4176400.00        0.31949                        635525.00
4176400.00        0.30345
 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                          ***        01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                          ***       15:43:26

                                    PAGE  93
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: IDLING3  ***
                                    INCLUDING SOURCE(S):     L0007152    , L0007153
, L0007154    , L0007155    , L0007156    ,
                  L0007157    , L0007158    , L0007159    , L0007160    , L0007161
, L0007162    , L0007163    , L0007164    ,
                  L0007165    , L0007166    , L0007167    , L0007168    , L0007169
, L0007170    , L0007171    , L0007172    ,
                  L0007173    , L0007174    , L0007175    , L0007176    , L0007177
, L0007178    , L0007179    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                            ** CONC OF HRA      IN MICROGRAMS/M**3
                    **

       X-COORD (M)   Y-COORD (M)        CONC                         X-COORD (M)
Y-COORD (M)        CONC
```

- -
- -
635575.00 4176400.00 0.29615 633650.00
4176200.00 1.81723
633700.00 4176200.00 1.69342 633850.00
4176200.00 1.40745
633850.00 4176250.00 1.23598 633950.00
4176250.00 1.11478
634350.00 4176250.00 0.78300 633750.00
4176300.00 1.22921
633950.00 4176300.00 0.99306 634000.00
4176300.00 0.94821
634050.00 4176300.00 0.90541 634050.00
4176350.00 0.81722
634050.00 4176400.00 0.74400 634000.00
4176450.00 0.71371
634050.00 4176450.00 0.68371 634200.00
4176600.00 0.49049
634100.00 4176650.00 0.49627 634150.00
4176650.00 0.47910
634200.00 4176650.00 0.46121 634200.00
4176850.00 0.36836
634200.00 4176900.00 0.34966 634250.00
4176900.00 0.33975
634300.00 4176900.00 0.33012 634400.00
4177000.00 0.28433
634450.00 4177000.00 0.27641 634500.00
4177000.00 0.26936
634550.00 4177000.00 0.26241 634400.00
4177050.00 0.27211
634450.00 4177050.00 0.26437 634500.00
4177050.00 0.25894
634550.00 4177050.00 0.25287 633750.00
4173175.00 0.04466
634450.00 4173325.00 0.05887 634450.00
4173375.00 0.06180
634350.00 4173475.00 0.06535 634300.00
4173625.00 0.07538
634300.00 4173675.00 0.07992 634350.00
4173675.00 0.08160
634250.00 4173775.00 0.08780 633950.00
4173825.00 0.08614
634050.00 4173825.00 0.08714 634100.00
4173825.00 0.08818
634250.00 4173825.00 0.09309 634250.00
4173975.00 0.11221
634150.00 4174125.00 0.13295 634200.00
4174125.00 0.13495
634250.00 4174125.00 0.13675 634250.00
4174225.00 0.15704

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         634350.00    4174225.00        0.15935                        634400.00
4174225.00        0.15992
         634200.00    4174325.00        0.17852                        634250.00
4174325.00        0.18046
         634200.00    4174375.00        0.19102                        634250.00
4174425.00        0.20639
         634000.00    4174475.00        0.20871                        634250.00
4174525.00        0.23497
         634100.00    4174575.00        0.25319                        634150.00
4174575.00        0.25370
         634200.00    4174575.00        0.25260                        634250.00
4174575.00        0.24989
         634250.00    4174625.00        0.26540                        634250.00
4174675.00        0.29134
         634250.00    4174825.00        0.35536                        634250.00
4174875.00        0.37831
         634200.00    4174925.00        0.41720                        634250.00
4174925.00        0.40418
         631950.00    4173950.00        0.02293                        631550.00
4174000.00        0.02362
         631550.00    4174050.00        0.02468                        631750.00
4174250.00        0.03145
         632300.00    4174300.00        0.05334                        632350.00
4174300.00        0.05585
         632300.00    4174350.00        0.05528                        632350.00
4174350.00        0.05833
         631600.00    4174400.00        0.03701                        631650.00
4174400.00        0.03933
         632000.00    4174400.00        0.04843                        632000.00
4174450.00        0.05064
         631950.00    4174500.00        0.05212                        632150.00
4174950.00        0.09873
 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                          ***        01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                          ***       15:43:26

                                    PAGE  94
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: IDLING3  ***
                                    INCLUDING SOURCE(S):     L0007152    , L0007153
, L0007154    , L0007155    , L0007156    ,
                 L0007157    , L0007158    , L0007159    , L0007160    , L0007161
, L0007162    , L0007163    , L0007164    ,
                 L0007165    , L0007166    , L0007167    , L0007168    , L0007169
, L0007170    , L0007171    , L0007172    ,
                 L0007173    , L0007174    , L0007175    , L0007176    , L0007177
, L0007178    , L0007179    ,  . . .      ,
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*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF HRA IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
632200.00	4174950.00	0.10233			

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: OFFSITE1 ***
INCLUDING SOURCE(S): L0006118 , L0006119 , L0006120 , L0006121 , L0006122 , L0006123 , L0006124 , L0006125 , L0006126 , L0006127 , L0006128 , L0006129 , L0006130 , L0006131 , L0006132 , L0006133 , L0006134 , L0006135 , L0006136 , L0006137 , L0006138 , L0006139 , L0006140 , L0006141 , L0006142 , L0006143 , L0006144 , L0006145 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF HRA IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
631050.00	4178050.00	0.15071	631150.00	4178250.00	0.13615
631250.00	4178250.00	0.13889	631350.00	4178250.00	0.14150
631450.00	4178250.00	0.14375	631550.00	4178250.00	0.14568
631650.00	4178250.00	0.14727	631750.00	4178250.00	0.14839

631150.00 4178350.00 0.12820 631450.00
4178350.00 0.13479
631550.00 4178350.00 0.13641 631650.00
4178350.00 0.13796
631750.00 4178350.00 0.13887 630650.00
4178450.00 0.10777
630850.00 4178450.00 0.11359 631050.00
4178450.00 0.11860
631150.00 4178450.00 0.12085 631250.00
4178450.00 0.12304
631550.00 4178450.00 0.12800 631650.00
4178450.00 0.12918
631750.00 4178450.00 0.12995 631850.00
4178450.00 0.13045
631950.00 4178450.00 0.13051 632050.00
4178450.00 0.13034
632150.00 4178450.00 0.12988 630550.00
4178550.00 0.09972
630650.00 4178550.00 0.10259 630750.00
4178550.00 0.10532
630950.00 4178550.00 0.10999 631050.00
4178550.00 0.11221
631250.00 4178550.00 0.11611 631350.00
4178550.00 0.11780
631450.00 4178550.00 0.11936 631550.00
4178550.00 0.12050
631650.00 4178550.00 0.12147 631750.00
4178550.00 0.12221
631850.00 4178550.00 0.12256 631950.00
4178550.00 0.12262
632050.00 4178550.00 0.12255 632150.00
4178550.00 0.12202
630450.00 4178650.00 0.09254 630550.00
4178650.00 0.09532
630650.00 4178650.00 0.09779 630750.00
4178650.00 0.10020
630850.00 4178650.00 0.10235 630950.00
4178650.00 0.10439
631050.00 4178650.00 0.10635 631150.00
4178650.00 0.10812
631250.00 4178650.00 0.10977 631350.00
4178650.00 0.11123
631450.00 4178650.00 0.11252 631550.00
4178650.00 0.11365
631650.00 4178650.00 0.11453 631750.00
4178650.00 0.11508
631850.00 4178650.00 0.11553 631950.00
4178650.00 0.11552
632050.00 4178650.00 0.11541 632150.00
4178650.00 0.11504

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: OFFSITE1 ***
INCLUDING SOURCE(S): L0006118 , L0006119 , L0006120 , L0006121 , L0006122 ,
L0006123 , L0006124 , L0006125 , L0006126 , L0006127 , L0006128 , L0006129 , L0006130 ,
L0006131 , L0006132 , L0006133 , L0006134 , L0006135 , L0006136 , L0006137 , L0006138 ,
L0006139 , L0006140 , L0006141 , L0006142 , L0006143 , L0006144 , L0006145 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF HRA IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC

- -
630550.00 4178850.00 0.08726 630650.00
4178850.00 0.08916
630750.00 4178850.00 0.09110 630850.00
4178850.00 0.09281
630950.00 4178850.00 0.09442 631050.00
4178850.00 0.09589
631150.00 4178850.00 0.09728 631250.00
4178850.00 0.09858
631350.00 4178850.00 0.09974 631450.00
4178850.00 0.10072
631550.00 4178850.00 0.10158 631650.00
4178850.00 0.10228
631750.00 4178850.00 0.10274 631850.00
4178850.00 0.10307
631950.00 4178850.00 0.10321 632050.00
4178850.00 0.10309
632150.00 4178850.00 0.10273 630250.00
4178950.00 0.07746
630350.00 4178950.00 0.07956 630450.00
4178950.00 0.08157
630550.00 4178950.00 0.08358 630650.00
4178950.00 0.08530
630750.00 4178950.00 0.08700 630850.00
4178950.00 0.08849
630950.00 4178950.00 0.08999 631050.00
4178950.00 0.09127
631150.00 4178950.00 0.09251 631250.00
4178950.00 0.09366
631350.00 4178950.00 0.09471 631450.00
4178950.00 0.09554
631550.00 4178950.00 0.09630 631650.00
4178950.00 0.09697
631750.00 4178950.00 0.09734 631850.00
4178950.00 0.09752
631950.00 4178950.00 0.09776 632050.00
4178950.00 0.09767
632150.00 4178950.00 0.09742 629950.00
4179050.00 0.06892
630250.00 4179050.00 0.07458 630350.00
4179050.00 0.07646
630450.00 4179050.00 0.07834 630550.00
4179050.00 0.08009
630650.00 4179050.00 0.08162 630750.00
4179050.00 0.08311
630850.00 4179050.00 0.08450 630950.00
4179050.00 0.08583
631050.00 4179050.00 0.08701 631150.00
4179050.00 0.08811
631250.00 4179050.00 0.08911 631350.00

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4179050.00        0.09005
         631450.00    4179050.00        0.09085                        631550.00
4179050.00        0.09140
         631650.00    4179050.00        0.09194                        631750.00
4179050.00        0.09235
         631850.00    4179050.00        0.09256                        631950.00
4179050.00        0.09277
         632050.00    4179050.00        0.09270                        632150.00
4179050.00        0.09247
         629850.00    4179150.00        0.06490                        629950.00
4179150.00        0.06661
         630150.00    4179150.00        0.07004                        630250.00
4179150.00        0.07179
         630350.00    4179150.00        0.07351                        630450.00
4179150.00        0.07520
         630550.00    4179150.00        0.07681                        630650.00
4179150.00        0.07829
         630750.00    4179150.00        0.07956                        630850.00
4179150.00        0.08075
         630950.00    4179150.00        0.08190                        631050.00
4179150.00        0.08300
         631150.00    4179150.00        0.08402                        631250.00
4179150.00        0.08492
         631350.00    4179150.00        0.08570                        631450.00
4179150.00        0.08646
         631550.00    4179150.00        0.08696                        631650.00
4179150.00        0.08740
         631750.00    4179150.00        0.08786                        631850.00
4179150.00        0.08814
         631950.00    4179150.00        0.08786                        632050.00
4179150.00        0.08814
 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                          ***        01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                          ***       15:43:26

                                    PAGE  97
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: OFFSITE1 ***
                                    INCLUDING SOURCE(S):     L0006118    , L0006119
, L0006120    , L0006121    , L0006122    ,
                  L0006123    , L0006124    , L0006125    , L0006126    , L0006127
, L0006128    , L0006129    , L0006130    ,
                  L0006131    , L0006132    , L0006133    , L0006134    , L0006135
, L0006136    , L0006137    , L0006138    ,
                  L0006139    , L0006140    , L0006141    , L0006142    , L0006143
, L0006144    , L0006145    ,  . . .      ,
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*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF HRA IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
632150.00	4179150.00	0.08787	630850.00	4179250.00	0.07732
630950.00	4179250.00	0.07832	631050.00	4177625.00	0.20000
631100.00	4177725.00	0.19004	631100.00	4177825.00	0.17735
631350.00	4178225.00	0.14383	631400.00	4178225.00	0.14501
631450.00	4178225.00	0.14615	631500.00	4178225.00	0.14720
631100.00	4178275.00	0.13266	631150.00	4178275.00	0.13414
631200.00	4178275.00	0.13548	631250.00	4178275.00	0.13681
631300.00	4178275.00	0.13808	631350.00	4178275.00	0.13927
631400.00	4178275.00	0.14043	631450.00	4178275.00	0.14150
631500.00	4178275.00	0.14248	630950.00	4178325.00	0.12459
631100.00	4178325.00	0.12881	631150.00	4178325.00	0.13013
631200.00	4178325.00	0.13150	631250.00	4178325.00	0.13270
631300.00	4178325.00	0.13395	631400.00	4178325.00	0.13597
631450.00	4178325.00	0.13702	631500.00	4178325.00	0.13791
630950.00	4178375.00	0.12114	631200.00	4178375.00	0.12751
631300.00	4178375.00	0.12978	631400.00	4178375.00	0.13179
631450.00	4178375.00	0.13264	631500.00	4178375.00	0.13351
630800.00	4178425.00	0.11371	630850.00	4178425.00	0.11513
631050.00	4178425.00	0.12030	631200.00	4178425.00	0.12379
631250.00	4178425.00	0.12491	631300.00	4178425.00	0.12591

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         630650.00    4178475.00        0.10645                        630800.00
4178475.00        0.11080
         630850.00    4178475.00        0.11208                        631050.00
4178475.00        0.11695
         631200.00    4178475.00        0.12025                        631250.00
4178475.00        0.12126
         631300.00    4178475.00        0.12220                        631450.00
4178475.00        0.12470
         631500.00    4178475.00        0.12539                        630550.00
4178525.00        0.10087
         630600.00    4178525.00        0.10242                        630650.00
4178525.00        0.10379
         630700.00    4178525.00        0.10528                        630750.00
4178525.00        0.10666
         630950.00    4178525.00        0.11146                        631050.00
4178525.00        0.11377
         631200.00    4178525.00        0.11685                        631250.00
4178525.00        0.11779
         631300.00    4178525.00        0.11867                        631350.00
4178525.00        0.11952
         631400.00    4178525.00        0.12030                        631450.00
4178525.00        0.12113
         631500.00    4178525.00        0.12170                        630500.00
4178575.00        0.09711
         630550.00    4178575.00        0.09860                        630600.00
4178575.00        0.10003
         630650.00    4178575.00        0.10128                        630700.00
4178575.00        0.10269
         630750.00    4178575.00        0.10403                        630800.00
4178575.00        0.10518
         630850.00    4178575.00        0.10632                        631000.00
4178575.00        0.10968
         631050.00    4178575.00        0.11070                        631200.00
4178575.00        0.11360
         631250.00    4178575.00        0.11447                        631300.00
4178575.00        0.11531
         631350.00    4178575.00        0.11608                        631400.00
4178575.00        0.11686
         631450.00    4178575.00        0.11751                        631500.00
4178575.00        0.11816
 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                          ***       01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                          ***      15:43:26

                                   PAGE  98
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: OFFSITE1 ***
```

INCLUDING SOURCE(S): L0006118 , L0006119
, L0006120 , L0006121 , L0006122 ,
L0006123 , L0006124 , L0006125 , L0006126 , L0006127
, L0006128 , L0006129 , L0006130 ,
L0006131 , L0006132 , L0006133 , L0006134 , L0006135
, L0006136 , L0006137 , L0006138 ,
L0006139 , L0006140 , L0006141 , L0006142 , L0006143
, L0006144 , L0006145 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS
***

** CONC OF HRA IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
630500.00	4178625.00	0.09495	630550.00	4178625.00	0.09639
630600.00	4178625.00	0.09772	630650.00	4178625.00	0.09891
630700.00	4178625.00	0.10023	630750.00	4178625.00	0.10144
630800.00	4178625.00	0.10262	630850.00	4178625.00	0.10371
631000.00	4178625.00	0.10678	631050.00	4178625.00	0.10777
631100.00	4178625.00	0.10868	631150.00	4178625.00	0.10955
631200.00	4178625.00	0.11046	631250.00	4178625.00	0.11130
631300.00	4178625.00	0.11207	631350.00	4178625.00	0.11282
631400.00	4178625.00	0.11351	631450.00	4178625.00	0.11417
631500.00	4178625.00	0.11475	631100.00	4175700.00	0.55926
631150.00	4175700.00	0.63750	631200.00	4175700.00	0.69984
631250.00	4175700.00	0.79383	631100.00	4175750.00	0.71495
631150.00	4175750.00	0.84395	629400.00	4179050.00	0.05836
629450.00	4179050.00	0.05935	629500.00	4179050.00	0.06033
629400.00	4179100.00	0.05769	629450.00	4179100.00	0.05864
629400.00	4179150.00	0.05700	629500.00		

```
4179150.00        0.05882
         629550.00    4179150.00        0.05973                   629600.00
4179150.00        0.06063
         629650.00    4179150.00        0.06152                   629700.00
4179150.00        0.06238
         629800.00    4179200.00        0.06309                   629400.00
4179300.00        0.05493
         629400.00    4179350.00        0.05424                   634375.00
4175350.00        0.33935
         634425.00    4175350.00        0.33141                   635425.00
4175350.00        0.21294
         635425.00    4175400.00        0.21954                   635475.00
4175400.00        0.21500
         634325.00    4175450.00        0.39109                   634475.00
4175450.00        0.36013
         634525.00    4175450.00        0.35052                   634525.00
4175500.00        0.36801
         634325.00    4175550.00        0.43709                   634525.00
4175550.00        0.38542
         634575.00    4175550.00        0.37390                   634775.00
4175550.00        0.33268
         634825.00    4175550.00        0.32345                   634625.00
4175600.00        0.37768
         634675.00    4175600.00        0.36606                   634725.00
4175600.00        0.35520
         634775.00    4175600.00        0.34466                   634825.00
4175600.00        0.33476
         634875.00    4175600.00        0.32520                   634925.00
4175600.00        0.31613
         635375.00    4175600.00        0.25014                   634275.00
4175650.00        0.50103
         634325.00    4175650.00        0.48271                   634575.00
4175650.00        0.40495
         634625.00    4175650.00        0.39170                   634675.00
4175650.00        0.37932
         634725.00    4175650.00        0.36751                   634775.00
4175650.00        0.35613
         634825.00    4175650.00        0.34557                   634875.00
4175650.00        0.33534
         634925.00    4175650.00        0.32553                   634975.00
4175650.00        0.31638
         635025.00    4175650.00        0.30743                   635325.00
4175650.00        0.26225
         635375.00    4175650.00        0.25578                   634475.00
4175700.00        0.45020
         634525.00    4175700.00        0.43419                   634575.00
4175700.00        0.41911
         634625.00    4175700.00        0.40473                   634675.00
4175700.00        0.39136
 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: OFFSITE1 ***
INCLUDING SOURCE(S): L0006118 , L0006119 , L0006120 , L0006121 , L0006122 ,
L0006123 , L0006124 , L0006125 , L0006126 , L0006127 , L0006128 , L0006129 , L0006130 ,
L0006131 , L0006132 , L0006133 , L0006134 , L0006135 , L0006136 , L0006137 , L0006138 ,
L0006139 , L0006140 , L0006141 , L0006142 , L0006143 , L0006144 , L0006145 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF HRA IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
634725.00	4175700.00	0.37901	634775.00	4175700.00	0.36693
634825.00	4175700.00	0.35532	634875.00	4175700.00	0.34466
634925.00	4175700.00	0.33415	634975.00	4175700.00	0.32447
635025.00	4175700.00	0.31497	635075.00	4175700.00	0.30621
635125.00	4175700.00	0.29773	634425.00	4175750.00	0.48366
634575.00	4175750.00	0.43215	634625.00	4175750.00	0.41692
634675.00	4175750.00	0.40256	634725.00	4175750.00	0.38924
634775.00	4175750.00	0.37641	634825.00	4175750.00	0.36433
634875.00	4175750.00	0.35271	634925.00	4175750.00	0.34188
634975.00	4175750.00	0.33156	635025.00	4175750.00	0.32167
635075.00	4175750.00	0.31247	635125.00	4175750.00	0.30363

635175.00 4175750.00 0.29498 635225.00 4175750.00 0.28711
634325.00 4175800.00 0.54160 634375.00 4175800.00 0.51916
634425.00 4175800.00 0.49797 634475.00 4175800.00 0.47862
634525.00 4175800.00 0.46034 634575.00 4175800.00 0.44297
634625.00 4175800.00 0.42731 634675.00 4175800.00 0.41189
634725.00 4175800.00 0.39788 634775.00 4175800.00 0.38433
634825.00 4175800.00 0.37189 634875.00 4175800.00 0.35963
634925.00 4175800.00 0.34842 634975.00 4175800.00 0.33766
635025.00 4175800.00 0.32740 635075.00 4175800.00 0.31760
635125.00 4175800.00 0.30838 635175.00 4175800.00 0.29974
635225.00 4175800.00 0.29135 635275.00 4175800.00 0.28345
635325.00 4175800.00 0.27570 634225.00 4175850.00 0.60878
634325.00 4175850.00 0.55568 634375.00 4175850.00 0.53162
634425.00 4175850.00 0.50955 634475.00 4175850.00 0.48907
634525.00 4175850.00 0.46985 634575.00 4175850.00 0.45178
634625.00 4175850.00 0.43544 634675.00 4175850.00 0.41940
634725.00 4175850.00 0.40447 634775.00 4175850.00 0.39091
634825.00 4175850.00 0.37766 634875.00 4175850.00 0.36516
634925.00 4175850.00 0.35329 634975.00 4175850.00 0.34223
635025.00 4175850.00 0.33160 635075.00 4175850.00 0.32171
635125.00 4175850.00 0.31224 635175.00 4175850.00 0.30325
635225.00 4175850.00 0.29454 635275.00 4175850.00 0.28650
635325.00 4175850.00 0.27861 635375.00 4175850.00 0.27098
635425.00 4175850.00 0.26381 634225.00 4175900.00 0.62137
634325.00 4175900.00 0.56593 634375.00 4175900.00 0.54079

634425.00 4175900.00 0.51740 634475.00
4175900.00 0.49611
634525.00 4175900.00 0.47627 634575.00
4175900.00 0.45775
634625.00 4175900.00 0.44064 634675.00
4175900.00 0.42474
634725.00 4175900.00 0.40930 634775.00
4175900.00 0.39516

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: OFFSITE1 ***
INCLUDING SOURCE(S): L0006118 , L0006119 , L0006120 , L0006121 , L0006122 ,
L0006123 , L0006124 , L0006125 , L0006126 , L0006127 , L0006128 , L0006129 , L0006130 ,
L0006131 , L0006132 , L0006133 , L0006134 , L0006135 , L0006136 , L0006137 , L0006138 ,
L0006139 , L0006140 , L0006141 , L0006142 , L0006143 , L0006144 , L0006145 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF HRA IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
634875.00	4175900.00	0.36880	634925.00	4175900.00	0.35662
634975.00	4175900.00	0.34538	635025.00	4175900.00	0.33459
635075.00	4175900.00	0.32445	635125.00	4175900.00	0.31462
635175.00	4175900.00	0.30548	635225.00	4175900.00	0.29674
635275.00	4175900.00	0.28832	635325.00	4175900.00	0.28053
635375.00	4175900.00	0.27262	635425.00	4175900.00	0.26540
635475.00	4175900.00	0.25842	635525.00		

4175900.00 0.25180
634325.00 4175950.00 0.57072 634375.00
4175950.00 0.54541
634425.00 4175950.00 0.52172 634475.00
4175950.00 0.50003
634525.00 4175950.00 0.47969 634575.00
4175950.00 0.46072
634625.00 4175950.00 0.44344 634675.00
4175950.00 0.42717
634875.00 4175950.00 0.37031 634925.00
4175950.00 0.35809
634975.00 4175950.00 0.34676 635025.00
4175950.00 0.33581
635075.00 4175950.00 0.32550 635125.00
4175950.00 0.31578
635175.00 4175950.00 0.30653 635225.00
4175950.00 0.29752
635275.00 4175950.00 0.28932 635325.00
4175950.00 0.28105
635375.00 4175950.00 0.27344 635425.00
4175950.00 0.26611
635475.00 4175950.00 0.25907 635525.00
4175950.00 0.25219
635575.00 4175950.00 0.24584 634725.00
4176000.00 0.41131
634925.00 4176000.00 0.35757 634975.00
4176000.00 0.34639
635025.00 4176000.00 0.33553 635075.00
4176000.00 0.32503
635125.00 4176000.00 0.31534 635175.00
4176000.00 0.30599
635225.00 4176000.00 0.29716 635275.00
4176000.00 0.28889
635325.00 4176000.00 0.28068 635375.00
4176000.00 0.27308
635425.00 4176000.00 0.26564 635475.00
4176000.00 0.25864
635525.00 4176000.00 0.25193 635575.00
4176000.00 0.24539
634825.00 4176050.00 0.37979 634875.00
4176050.00 0.36720
634925.00 4176050.00 0.35531 634975.00
4176050.00 0.34402
635025.00 4176050.00 0.33321 635075.00
4176050.00 0.32300
635125.00 4176050.00 0.31346 635175.00
4176050.00 0.30424
635225.00 4176050.00 0.29550 635275.00
4176050.00 0.28715
635325.00 4176050.00 0.27915 635375.00

4176050.00   0.27143
         635425.00   4176050.00   0.26430   635475.00
4176050.00   0.25728
         635525.00   4176050.00   0.25061   635575.00
4176050.00   0.24411
         634825.00   4176100.00   0.37481   634875.00
4176100.00   0.36263
         634925.00   4176100.00   0.35077   634975.00
4176100.00   0.33979
         635025.00   4176100.00   0.32947   635075.00
4176100.00   0.31952
         635125.00   4176100.00   0.31002   635175.00
4176100.00   0.30094
         635225.00   4176100.00   0.29243   635275.00
4176100.00   0.28426
         635325.00   4176100.00   0.27645   635375.00
4176100.00   0.26906

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                               *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: OFFSITE1 ***
                                  INCLUDING SOURCE(S):   L0006118   , L0006119
, L0006120   , L0006121   , L0006122   ,
                  L0006123   , L0006124   , L0006125   , L0006126   , L0006127
, L0006128   , L0006129   , L0006130   ,
                  L0006131   , L0006132   , L0006133   , L0006134   , L0006135
, L0006136   , L0006137   , L0006138   ,
                  L0006139   , L0006140   , L0006141   , L0006142   , L0006143
, L0006144   , L0006145   , . . .   ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF HRA   IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 -
- -
         635425.00   4176100.00   0.26167   635475.00
4176100.00   0.25497
         635525.00   4176100.00   0.24843   635575.00
4176100.00   0.24218

634825.00 4176150.00 0.36782 634875.00
4176150.00 0.35615
634925.00 4176150.00 0.34466 634975.00
4176150.00 0.33409
635025.00 4176150.00 0.32409 635075.00
4176150.00 0.31434
635125.00 4176150.00 0.30532 635175.00
4176150.00 0.29653
635225.00 4176150.00 0.28800 635275.00
4176150.00 0.28027
635325.00 4176150.00 0.27262 635375.00
4176150.00 0.26539
635425.00 4176150.00 0.25825 635475.00
4176150.00 0.25172
635525.00 4176150.00 0.24534 635575.00
4176150.00 0.23926
634875.00 4176200.00 0.34809 634925.00
4176200.00 0.33713
634975.00 4176200.00 0.32686 635125.00
4176200.00 0.29918
635175.00 4176200.00 0.29090 635225.00
4176200.00 0.28273
635525.00 4176200.00 0.24144 635575.00
4176200.00 0.23543
634325.00 4176250.00 0.49564 634375.00
4176250.00 0.47666
634875.00 4176250.00 0.33843 634925.00
4176250.00 0.32834
634975.00 4176250.00 0.31866 635025.00
4176250.00 0.30941
635075.00 4176250.00 0.30054 635125.00
4176250.00 0.29220
635175.00 4176250.00 0.28413 635225.00
4176250.00 0.27662
635275.00 4176250.00 0.26922 635375.00
4176250.00 0.25529
635425.00 4176250.00 0.24890 635525.00
4176250.00 0.23686
635575.00 4176250.00 0.23116 634875.00
4176300.00 0.32766
634925.00 4176300.00 0.31819 634975.00
4176300.00 0.30916
635025.00 4176300.00 0.30053 635075.00
4176300.00 0.29223
635125.00 4176300.00 0.28434 635175.00
4176300.00 0.27664
635225.00 4176300.00 0.26945 635275.00
4176300.00 0.26266
635375.00 4176300.00 0.24929 635425.00
4176300.00 0.24318

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         635525.00    4176300.00        0.23163                      635575.00
4176300.00        0.22600
         634875.00    4176350.00        0.31607                      634925.00
4176350.00        0.30731
         634975.00    4176350.00        0.29886                      635025.00
4176350.00        0.29082
         635075.00    4176350.00        0.28304                      635125.00
4176350.00        0.27564
         635175.00    4176350.00        0.26843                      635225.00
4176350.00        0.26181
         635275.00    4176350.00        0.25526                      635375.00
4176350.00        0.24268
         635425.00    4176350.00        0.23690                      635525.00
4176350.00        0.22586
         635575.00    4176350.00        0.22052                      634875.00
4176400.00        0.30407
         634925.00    4176400.00        0.29595                      634975.00
4176400.00        0.28814
         635025.00    4176400.00        0.28064                      635075.00
4176400.00        0.27346
         635125.00    4176400.00        0.26658                      635175.00
4176400.00        0.25998
         635225.00    4176400.00        0.25366                      635275.00
4176400.00        0.24756
         635425.00    4176400.00        0.23026                      635525.00
4176400.00        0.21967
 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                          ***        01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                         ***        15:43:26

                                    PAGE 102
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: OFFSITE1 ***
                                    INCLUDING SOURCE(S):     L0006118    , L0006119
, L0006120    , L0006121    , L0006122    ,
                  L0006123    , L0006124    , L0006125    , L0006126    , L0006127
, L0006128    , L0006129    , L0006130    ,
                  L0006131    , L0006132    , L0006133    , L0006134    , L0006135
, L0006136    , L0006137    , L0006138    ,
                  L0006139    , L0006140    , L0006141    , L0006142    , L0006143
, L0006144    , L0006145    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                               ** CONC OF HRA      IN MICROGRAMS/M**3
                    **
```

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
635575.00	4176400.00	0.21481	633650.00	4176200.00	1.05017
633700.00	4176200.00	0.98321	633850.00	4176200.00	0.81969
633850.00	4176250.00	0.76058	633950.00	4176250.00	0.68770
634350.00	4176250.00	0.48617	633750.00	4176300.00	0.77206
633950.00	4176300.00	0.64009	634000.00	4176300.00	0.61244
634050.00	4176300.00	0.58596	634050.00	4176350.00	0.54767
634050.00	4176400.00	0.51064	634000.00	4176450.00	0.49211
634050.00	4176450.00	0.47581	634200.00	4176600.00	0.35593
634100.00	4176650.00	0.35251	634150.00	4176650.00	0.34353
634200.00	4176650.00	0.33440	634200.00	4176850.00	0.26624
634200.00	4176900.00	0.25297	634250.00	4176900.00	0.24731
634300.00	4176900.00	0.24179	634400.00	4177000.00	0.21080
634450.00	4177000.00	0.20621	634500.00	4177000.00	0.20222
634550.00	4177000.00	0.19843	634400.00	4177050.00	0.20188
634450.00	4177050.00	0.19726	634500.00	4177050.00	0.19395
634550.00	4177050.00	0.19044	633750.00	4173175.00	0.05080
634450.00	4173325.00	0.05857	634450.00	4173375.00	0.06039
634350.00	4173475.00	0.06422	634300.00	4173625.00	0.07132
634300.00	4173675.00	0.07433	634350.00	4173675.00	0.07418
634250.00	4173775.00	0.08004	633950.00	4173825.00	0.08412
634050.00	4173825.00	0.08372	634100.00	4173825.00	0.08360
634250.00	4173825.00	0.08297	634250.00	4173975.00	0.09288
634150.00	4174125.00	0.10627	634200.00		

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4174125.00        0.10540
         634250.00    4174125.00        0.10449                        634250.00
4174225.00        0.11355
         634350.00    4174225.00        0.11101                        634400.00
4174225.00        0.10985
         634200.00    4174325.00        0.12466                        634250.00
4174325.00        0.12364
         634200.00    4174375.00        0.12979                        634250.00
4174425.00        0.13468
         634000.00    4174475.00        0.14657                        634250.00
4174525.00        0.14704
         634100.00    4174575.00        0.15892                        634150.00
4174575.00        0.15730
         634200.00    4174575.00        0.15558                        634250.00
4174575.00        0.15374
         634250.00    4174625.00        0.16092                        634250.00
4174675.00        0.16865
         634250.00    4174825.00        0.19597                        634250.00
4174875.00        0.20629
         634200.00    4174925.00        0.22128                        634250.00
4174925.00        0.21751
         631950.00    4173950.00        0.03745                        631550.00
4174000.00        0.03687
         631550.00    4174050.00        0.03933                        631750.00
4174250.00        0.05406
         632300.00    4174300.00        0.08467                        632350.00
4174300.00        0.08647
         632300.00    4174350.00        0.09034                        632350.00
4174350.00        0.09247
         631600.00    4174400.00        0.06219                        631650.00
4174400.00        0.06698
         632000.00    4174400.00        0.08480                        632000.00
4174450.00        0.09064
         631950.00    4174500.00        0.09597                        632150.00
4174950.00        0.22248
 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                        ***        01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                       ***        15:43:26

                                  PAGE 103
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: OFFSITE1 ***
                                  INCLUDING SOURCE(S):     L0006118    , L0006119
, L0006120    , L0006121    , L0006122    ,
                  L0006123    , L0006124    , L0006125    , L0006126    , L0006127
, L0006128    , L0006129    , L0006130    ,
                  L0006131    , L0006132    , L0006133    , L0006134    , L0006135
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, L0006136    , L0006137    , L0006138    ,
                L0006139    , L0006140    , L0006141    , L0006142    , L0006143
, L0006144    , L0006145    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                            ** CONC OF HRA      IN MICROGRAMS/M**3
                   **

       X-COORD (M)   Y-COORD (M)        CONC                       X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
         632200.00    4174950.00        0.22608

↑ *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                         ***       01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                       ***        15:43:26

                                   PAGE 104
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: OFFSITE2 ***
                                   INCLUDING SOURCE(S):     L0006345    , L0006346
, L0006347    , L0006348    , L0006349    ,
                L0006350    , L0006351    , L0006352    , L0006353    , L0006354
, L0006355    , L0006356    , L0006357    ,
                L0006358    , L0006359    , L0006360    , L0006361    , L0006362
, L0006363    , L0006364    , L0006365    ,
                L0006366    , L0006367    , L0006368    , L0006369    , L0006370
, L0006371    , L0006372    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                            ** CONC OF HRA      IN MICROGRAMS/M**3
                   **

       X-COORD (M)   Y-COORD (M)        CONC                       X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
         631050.00    4178050.00       13.47313                      631150.00
4178250.00        1.36668
         631250.00    4178250.00        1.13965                      631350.00
4178250.00        0.97355
         631450.00    4178250.00        0.84380                      631550.00
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4178250.00 0.74210
631650.00 4178250.00 0.66077 631750.00
4178250.00 0.59390
631150.00 4178350.00 0.89790 631450.00
4178350.00 0.64562
631550.00 4178350.00 0.58563 631650.00
4178350.00 0.53644
631750.00 4178350.00 0.49178 630650.00
4178450.00 0.56778
630850.00 4178450.00 0.70667 631050.00
4178450.00 0.71324
631150.00 4178450.00 0.66396 631250.00
4178450.00 0.61529
631550.00 4178450.00 0.47923 631650.00
4178450.00 0.44407
631750.00 4178450.00 0.41247 631850.00
4178450.00 0.38510
631950.00 4178450.00 0.36056 632050.00
4178450.00 0.33923
632150.00 4178450.00 0.31987 630550.00
4178550.00 0.43498
630650.00 4178550.00 0.48245 630750.00
4178550.00 0.52562
630950.00 4178550.00 0.55658 631050.00
4178550.00 0.55301
631250.00 4178550.00 0.49547 631350.00
4178550.00 0.46571
631450.00 4178550.00 0.43620 631550.00
4178550.00 0.40639
631650.00 4178550.00 0.37962 631750.00
4178550.00 0.35580
631850.00 4178550.00 0.33401 631950.00
4178550.00 0.31481
632050.00 4178550.00 0.29831 632150.00
4178550.00 0.28262
630450.00 4178650.00 0.34978 630550.00
4178650.00 0.38293
630650.00 4178650.00 0.41284 630750.00
4178650.00 0.43801
630850.00 4178650.00 0.45144 630950.00
4178650.00 0.45106
631050.00 4178650.00 0.45009 631150.00
4178650.00 0.43557
631250.00 4178650.00 0.41298 631350.00
4178650.00 0.39222
631450.00 4178650.00 0.37198 631550.00
4178650.00 0.35157
631650.00 4178650.00 0.33170 631750.00
4178650.00 0.31239
631850.00 4178650.00 0.29544 631950.00

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4178650.00        0.27920
         632050.00    4178650.00        0.26541                        632150.00
4178650.00        0.25291
         630350.00    4178750.00        0.29074                        630450.00
4178750.00        0.31450
         630550.00    4178750.00        0.33791                        630650.00
4178750.00        0.35773
         630750.00    4178750.00        0.37305                        630850.00
4178750.00        0.37956
         630950.00    4178750.00        0.37790                        631050.00
4178750.00        0.37759
         631150.00    4178750.00        0.36954                        631250.00
4178750.00        0.35366
         631350.00    4178750.00        0.33714                        631450.00
4178750.00        0.32275
         631550.00    4178750.00        0.30804                        631650.00
4178750.00        0.29356
         631750.00    4178750.00        0.27831                        631850.00
4178750.00        0.26419
         631950.00    4178750.00        0.25118                        632050.00
4178750.00        0.23897
         632150.00    4178750.00        0.22823                        630250.00
4178850.00        0.24715
         630350.00    4178850.00        0.26539                        630450.00
4178850.00        0.28328
 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                          ***       01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                          ***      15:43:26

                                   PAGE 105
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: OFFSITE2 ***
                                   INCLUDING SOURCE(S):     L0006345    , L0006346
, L0006347    , L0006348    , L0006349    ,
                  L0006350    , L0006351    , L0006352    , L0006353    , L0006354
, L0006355    , L0006356    , L0006357    ,
                  L0006358    , L0006359    , L0006360    , L0006361    , L0006362
, L0006363    , L0006364    , L0006365    ,
                  L0006366    , L0006367    , L0006368    , L0006369    , L0006370
, L0006371    , L0006372    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                   ** CONC OF HRA      IN MICROGRAMS/M**3
                    **
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X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
630550.00	4178850.00	0.30006	630650.00	4178850.00	0.31323
630750.00	4178850.00	0.32366	630850.00	4178850.00	0.32591
630950.00	4178850.00	0.32420	631050.00	4178850.00	0.32429
631150.00	4178850.00	0.31914	631250.00	4178850.00	0.30795
631350.00	4178850.00	0.29475	631450.00	4178850.00	0.28328
631550.00	4178850.00	0.27270	631650.00	4178850.00	0.26149
631750.00	4178850.00	0.24978	631850.00	4178850.00	0.23859
631950.00	4178850.00	0.22788	632050.00	4178850.00	0.21765
632150.00	4178850.00	0.20824	630250.00	4178950.00	0.22807
630350.00	4178950.00	0.24226	630450.00	4178950.00	0.25568
630550.00	4178950.00	0.26830	630650.00	4178950.00	0.27777
630750.00	4178950.00	0.28436	630850.00	4178950.00	0.28416
630950.00	4178950.00	0.28309	631050.00	4178950.00	0.28333
631150.00	4178950.00	0.28011	631250.00	4178950.00	0.27217
631350.00	4178950.00	0.26184	631450.00	4178950.00	0.25163
631550.00	4178950.00	0.24334	631650.00	4178950.00	0.23525
631750.00	4178950.00	0.22586	631850.00	4178950.00	0.21628
631950.00	4178950.00	0.20784	632050.00	4178950.00	0.19929
632150.00	4178950.00	0.19148	629950.00	4179050.00	0.17660
630250.00	4179050.00	0.21041	630350.00	4179050.00	0.22151
630450.00	4179050.00	0.23219	630550.00	4179050.00	0.24146
630650.00	4179050.00	0.24836	630750.00	4179050.00	0.25219
630850.00	4179050.00	0.25112	630950.00	4179050.00	0.25031

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         631050.00    4179050.00        0.25103                      631150.00
4179050.00        0.24886
         631250.00    4179050.00        0.24304                      631350.00
4179050.00        0.23504
         631450.00    4179050.00        0.22650                      631550.00
4179050.00        0.21870
         631650.00    4179050.00        0.21221                      631750.00
4179050.00        0.20525
         631850.00    4179050.00        0.19758                      631950.00
4179050.00        0.19050
         632050.00    4179050.00        0.18329                      632150.00
4179050.00        0.17669
         629850.00    4179150.00        0.15741                      629950.00
4179150.00        0.16652
         630150.00    4179150.00        0.18493                      630250.00
4179150.00        0.19418
         630350.00    4179150.00        0.20310                      630450.00
4179150.00        0.21142
         630550.00    4179150.00        0.21882                      630650.00
4179150.00        0.22449
         630750.00    4179150.00        0.22611                      630850.00
4179150.00        0.22419
         630950.00    4179150.00        0.22340                      631050.00
4179150.00        0.22442
         631150.00    4179150.00        0.22321                      631250.00
4179150.00        0.21897
         631350.00    4179150.00        0.21261                      631450.00
4179150.00        0.20559
         631550.00    4179150.00        0.19853                      631650.00
4179150.00        0.19281
         631750.00    4179150.00        0.18772                      631850.00
4179150.00        0.18189
         631950.00    4179150.00        0.17430                      632050.00
4179150.00        0.16930
 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                          ***       01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                          ***      15:43:26

                                   PAGE 106
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: OFFSITE2 ***
                                   INCLUDING SOURCE(S):     L0006345    , L0006346
, L0006347    , L0006348    , L0006349    ,
                  L0006350    , L0006351    , L0006352    , L0006353    , L0006354
, L0006355    , L0006356    , L0006357    ,
                  L0006358    , L0006359    , L0006360    , L0006361    , L0006362
, L0006363    , L0006364    , L0006365    ,
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L0006366 , L0006367 , L0006368 , L0006369 , L0006370
, L0006371 , L0006372 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS
***

** CONC OF HRA IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
632150.00	4179150.00	0.16350	630850.00	4179250.00	0.20229
630950.00	4179250.00	0.20159	631050.00	4177625.00	17.98099
631100.00	4177725.00	9.10062	631100.00	4177825.00	8.75313
631350.00	4178225.00	1.06537	631400.00	4178225.00	0.98093
631450.00	4178225.00	0.90865	631500.00	4178225.00	0.84570
631100.00	4178275.00	1.31514	631150.00	4178275.00	1.21048
631200.00	4178275.00	1.11370	631250.00	4178275.00	1.03133
631300.00	4178275.00	0.95892	631350.00	4178275.00	0.89454
631400.00	4178275.00	0.83770	631450.00	4178275.00	0.78658
631500.00	4178275.00	0.74042	630950.00	4178325.00	1.15876
631100.00	4178325.00	1.04672	631150.00	4178325.00	0.98285
631200.00	4178325.00	0.92431	631250.00	4178325.00	0.86600
631300.00	4178325.00	0.81609	631400.00	4178325.00	0.72490
631450.00	4178325.00	0.68780	631500.00	4178325.00	0.65263
630950.00	4178375.00	0.93606	631200.00	4178375.00	0.78508
631300.00	4178375.00	0.70735	631400.00	4178375.00	0.63919
631450.00	4178375.00	0.60839	631500.00	4178375.00	0.58109
630800.00	4178425.00	0.72290	630850.00	4178425.00	0.75758
631050.00	4178425.00	0.76858	631200.00		

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4178425.00        0.68227
         631250.00    4178425.00        0.65430                        631300.00
4178425.00        0.62530
         630650.00    4178475.00        0.54518                        630800.00
4178475.00        0.64039
         630850.00    4178475.00        0.66134                        631050.00
4178475.00        0.66529
         631200.00    4178475.00        0.60231                        631250.00
4178475.00        0.58092
         631300.00    4178475.00        0.55902                        631450.00
4178475.00        0.49598
         631500.00    4178475.00        0.47659                        630550.00
4178525.00        0.44898
         630600.00    4178525.00        0.47596                        630650.00
4178525.00        0.50170
         630700.00    4178525.00        0.52824                        630750.00
4178525.00        0.55210
         630950.00    4178525.00        0.59079                        631050.00
4178525.00        0.58632
         631200.00    4178525.00        0.53832                        631250.00
4178525.00        0.52130
         631300.00    4178525.00        0.50441                        631350.00
4178525.00        0.48761
         631400.00    4178525.00        0.47051                        631450.00
4178525.00        0.45491
         631500.00    4178525.00        0.43790                        630500.00
4178575.00        0.39959
         630550.00    4178575.00        0.42141                        630600.00
4178575.00        0.44309
         630650.00    4178575.00        0.46278                        630700.00
4178575.00        0.48322
         630750.00    4178575.00        0.50143                        630800.00
4178575.00        0.51456
         630850.00    4178575.00        0.52358                        631000.00
4178575.00        0.52632
         631050.00    4178575.00        0.52338                        631200.00
4178575.00        0.48642
         631250.00    4178575.00        0.47196                        631300.00
4178575.00        0.45861
         631350.00    4178575.00        0.44501                        631400.00
4178575.00        0.43176
         631450.00    4178575.00        0.41775                        631500.00
4178575.00        0.40445
 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                          ***       01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                          ***      15:43:26

                                  PAGE 107
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*
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*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: OFFSITE2 ***

INCLUDING SOURCE(S): L0006345 , L0006346 , L0006347 , L0006348 , L0006349 , L0006350 , L0006351 , L0006352 , L0006353 , L0006354 , L0006355 , L0006356 , L0006357 , L0006358 , L0006359 , L0006360 , L0006361 , L0006362 , L0006363 , L0006364 , L0006365 , L0006366 , L0006367 , L0006368 , L0006369 , L0006370 , L0006371 , L0006372 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF HRA IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
630500.00	4178625.00	0.37692	630550.00	4178625.00	0.39529
630600.00	4178625.00	0.41268	630650.00	4178625.00	0.42835
630700.00	4178625.00	0.44417	630750.00	4178625.00	0.45741
630800.00	4178625.00	0.46801	630850.00	4178625.00	0.47416
631000.00	4178625.00	0.47381	631050.00	4178625.00	0.47217
631100.00	4178625.00	0.46573	631150.00	4178625.00	0.45503
631200.00	4178625.00	0.44314	631250.00	4178625.00	0.43096
631300.00	4178625.00	0.41947	631350.00	4178625.00	0.40874
631400.00	4178625.00	0.39763	631450.00	4178625.00	0.38642
631500.00	4178625.00	0.37504	631100.00	4175700.00	0.35938
631150.00	4175700.00	0.39519	631200.00	4175700.00	0.42315
631250.00	4175700.00	0.44617	631100.00	4175750.00	0.44804
631150.00	4175750.00	0.49755	629400.00	4179050.00	0.12319
629450.00	4179050.00	0.12736	629500.00	4179050.00	0.13166

629400.00 4179100.00 0.12152 629450.00 4179100.00 0.12551
629400.00 4179150.00 0.11979 629500.00 4179150.00 0.12753
629550.00 4179150.00 0.13160 629600.00 4179150.00 0.13575
629650.00 4179150.00 0.13999 629700.00 4179150.00 0.14426
629800.00 4179200.00 0.14925 629400.00 4179300.00 0.11436
629400.00 4179350.00 0.11249 634375.00 4175350.00 0.10579
634425.00 4175350.00 0.10460 635425.00 4175350.00 0.08468
635425.00 4175400.00 0.08688 635475.00 4175400.00 0.08600
634325.00 4175450.00 0.11439 634475.00 4175450.00 0.11027
634525.00 4175450.00 0.10895 634525.00 4175500.00 0.11241
634325.00 4175550.00 0.12217 634525.00 4175550.00 0.11596
634575.00 4175550.00 0.11449 634775.00 4175550.00 0.10892
634825.00 4175550.00 0.10760 634625.00 4175600.00 0.11648
634675.00 4175600.00 0.11496 634725.00 4175600.00 0.11352
634775.00 4175600.00 0.11207 634825.00 4175600.00 0.11069
634875.00 4175600.00 0.10931 634925.00 4175600.00 0.10798
635375.00 4175600.00 0.09713 634275.00 4175650.00 0.13213
634325.00 4175650.00 0.13027 634575.00 4175650.00 0.12157
634625.00 4175650.00 0.11993 634675.00 4175650.00 0.11837
634725.00 4175650.00 0.11683 634775.00 4175650.00 0.11529
634825.00 4175650.00 0.11385 634875.00 4175650.00 0.11239
634925.00 4175650.00 0.11095 634975.00 4175650.00 0.10959
635025.00 4175650.00 0.10820 635325.00 4175650.00 0.10070
635375.00 4175650.00 0.09953 634475.00 4175700.00 0.12876
634525.00 4175700.00 0.12694 634575.00 4175700.00 0.12517

634625.00   4175700.00   0.12342   634675.00
4175700.00   0.12175

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: OFFSITE2 ***

INCLUDING SOURCE(S):   L0006345   , L0006346   , L0006347   , L0006348   , L0006349   ,
L0006350   , L0006351   , L0006352   , L0006353   , L0006354   , L0006355   , L0006356   , L0006357   ,
L0006358   , L0006359   , L0006360   , L0006361   , L0006362   , L0006363   , L0006364   , L0006365   ,
L0006366   , L0006367   , L0006368   , L0006369   , L0006370   , L0006371   , L0006372   , . . .   ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF HRA   IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
634725.00	4175700.00	0.12020	634775.00	4175700.00	0.11859
634825.00	4175700.00	0.11698	634875.00	4175700.00	0.11549
634925.00	4175700.00	0.11394	634975.00	4175700.00	0.11251
635025.00	4175700.00	0.11103	635075.00	4175700.00	0.10967
635125.00	4175700.00	0.10830	634425.00	4175750.00	0.13458
634575.00	4175750.00	0.12886	634625.00	4175750.00	0.12704
634675.00	4175750.00	0.12525	634725.00	4175750.00	0.12357
634775.00	4175750.00	0.12186	634825.00	4175750.00	0.12021
634875.00	4175750.00	0.11855	634925.00	4175750.00	0.11698
634975.00	4175750.00	0.11543	635025.00		

4175750.00 0.11389
635075.00 4175750.00 0.11245 635125.00
4175750.00 0.11102
635175.00 4175750.00 0.10955 635225.00
4175750.00 0.10823
634325.00 4175800.00 0.14292 634375.00
4175800.00 0.14074
634425.00 4175800.00 0.13856 634475.00
4175800.00 0.13653
634525.00 4175800.00 0.13450 634575.00
4175800.00 0.13248
634625.00 4175800.00 0.13065 634675.00
4175800.00 0.12871
634725.00 4175800.00 0.12693 634775.00
4175800.00 0.12511
634825.00 4175800.00 0.12343 634875.00
4175800.00 0.12165
634925.00 4175800.00 0.12002 634975.00
4175800.00 0.11840
635025.00 4175800.00 0.11679 635075.00
4175800.00 0.11521
635125.00 4175800.00 0.11369 635175.00
4175800.00 0.11224
635225.00 4175800.00 0.11078 635275.00
4175800.00 0.10939
635325.00 4175800.00 0.10795 634225.00
4175850.00 0.15191
634325.00 4175850.00 0.14718 634375.00
4175850.00 0.14482
634425.00 4175850.00 0.14258 634475.00
4175850.00 0.14041
634525.00 4175850.00 0.13827 634575.00
4175850.00 0.13617
634625.00 4175850.00 0.13424 634675.00
4175850.00 0.13221
634725.00 4175850.00 0.13025 634775.00
4175850.00 0.12847
634825.00 4175850.00 0.12661 634875.00
4175850.00 0.12480
634925.00 4175850.00 0.12301 634975.00
4175850.00 0.12131
635025.00 4175850.00 0.11962 635075.00
4175850.00 0.11801
635125.00 4175850.00 0.11643 635175.00
4175850.00 0.11488
635225.00 4175850.00 0.11332 635275.00
4175850.00 0.11188
635325.00 4175850.00 0.11040 635375.00
4175850.00 0.10891
635425.00 4175850.00 0.10750 634225.00

4175900.00 0.15646
  634325.00 4175900.00 0.15149 634375.00
4175900.00 0.14899
  634425.00 4175900.00 0.14655 634475.00
4175900.00 0.14425
  634525.00 4175900.00 0.14201 634575.00
4175900.00 0.13982
  634625.00 4175900.00 0.13774 634675.00
4175900.00 0.13574
  634725.00 4175900.00 0.13367 634775.00
4175900.00 0.13174

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: OFFSITE2 ***
INCLUDING SOURCE(S): L0006345 , L0006346 , L0006347 , L0006348 , L0006349 ,
  L0006350 , L0006351 , L0006352 , L0006353 , L0006354 , L0006355 , L0006356 , L0006357 ,
  L0006358 , L0006359 , L0006360 , L0006361 , L0006362 , L0006363 , L0006364 , L0006365 ,
  L0006366 , L0006367 , L0006368 , L0006369 , L0006370 , L0006371 , L0006372 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF HRA IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
634875.00	4175900.00	0.12790	634925.00	4175900.00	0.12602
634975.00	4175900.00	0.12426	635025.00	4175900.00	0.12250
635075.00	4175900.00	0.12081	635125.00	4175900.00	0.11910
635175.00	4175900.00	0.11748	635225.00	4175900.00	0.11589
635275.00	4175900.00	0.11431	635325.00	4175900.00	0.11283

635375.00 4175900.00 0.11124 635425.00
4175900.00 0.10979
635475.00 4175900.00 0.10834 635525.00
4175900.00 0.10694
634325.00 4175950.00 0.15567 634375.00
4175950.00 0.15313
634425.00 4175950.00 0.15059 634475.00
4175950.00 0.14818
634525.00 4175950.00 0.14580 634575.00
4175950.00 0.14348
634625.00 4175950.00 0.14132 634675.00
4175950.00 0.13919
634875.00 4175950.00 0.13093 634925.00
4175950.00 0.12899
634975.00 4175950.00 0.12716 635025.00
4175950.00 0.12530
635075.00 4175950.00 0.12352 635125.00
4175950.00 0.12179
635175.00 4175950.00 0.12010 635225.00
4175950.00 0.11838
635275.00 4175950.00 0.11681 635325.00
4175950.00 0.11515
635375.00 4175950.00 0.11360 635425.00
4175950.00 0.11207
635475.00 4175950.00 0.11056 635525.00
4175950.00 0.10904
635575.00 4175950.00 0.10763 634725.00
4176000.00 0.14037
634925.00 4176000.00 0.13191 634975.00
4176000.00 0.13003
635025.00 4176000.00 0.12812 635075.00
4176000.00 0.12620
635125.00 4176000.00 0.12441 635175.00
4176000.00 0.12261
635225.00 4176000.00 0.12088 635275.00
4176000.00 0.11922
635325.00 4176000.00 0.11751 635375.00
4176000.00 0.11590
635425.00 4176000.00 0.11427 635475.00
4176000.00 0.11271
635525.00 4176000.00 0.11118 635575.00
4176000.00 0.10965
634825.00 4176050.00 0.13900 634875.00
4176050.00 0.13689
634925.00 4176050.00 0.13482 634975.00
4176050.00 0.13280
635025.00 4176050.00 0.13079 635075.00
4176050.00 0.12884
635125.00 4176050.00 0.12699 635175.00
4176050.00 0.12513

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         635225.00    4176050.00        0.12333                      635275.00
4176050.00        0.12156
         635325.00    4176050.00        0.11981                      635375.00
4176050.00        0.11808
         635425.00    4176050.00        0.11647                      635475.00
4176050.00        0.11483
         635525.00    4176050.00        0.11324                      635575.00
4176050.00        0.11165
         634825.00    4176100.00        0.14197                      634875.00
4176100.00        0.13979
         634925.00    4176100.00        0.13757                      634975.00
4176100.00        0.13548
         635025.00    4176100.00        0.13346                      635075.00
4176100.00        0.13145
         635125.00    4176100.00        0.12948                      635175.00
4176100.00        0.12753
         635225.00    4176100.00        0.12568                      635275.00
4176100.00        0.12385
         635325.00    4176100.00        0.12206                      635375.00
4176100.00        0.12033
 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                          ***       01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                          ***      15:43:26

                                   PAGE 110
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: OFFSITE2 ***
                                   INCLUDING SOURCE(S):     L0006345    , L0006346
, L0006347    , L0006348    , L0006349    ,
                  L0006350    , L0006351    , L0006352    , L0006353    , L0006354
, L0006355    , L0006356    , L0006357    ,
                  L0006358    , L0006359    , L0006360    , L0006361    , L0006362
, L0006363    , L0006364    , L0006365    ,
                  L0006366    , L0006367    , L0006368    , L0006369    , L0006370
, L0006371    , L0006372    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                   ** CONC OF HRA      IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                         X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         635425.00    4176100.00        0.11853                      635475.00
```

4176100.00 0.11690
635525.00 4176100.00 0.11526 635575.00
4176100.00 0.11366
634825.00 4176150.00 0.14485 634875.00
4176150.00 0.14260
634925.00 4176150.00 0.14029 634975.00
4176150.00 0.13813
635025.00 4176150.00 0.13603 635075.00
4176150.00 0.13391
635125.00 4176150.00 0.13192 635175.00
4176150.00 0.12991
635225.00 4176150.00 0.12791 635275.00
4176150.00 0.12608
635325.00 4176150.00 0.12421 635375.00
4176150.00 0.12241
635425.00 4176150.00 0.12058 635475.00
4176150.00 0.11889
635525.00 4176150.00 0.11720 635575.00
4176150.00 0.11555
634875.00 4176200.00 0.14533 634925.00
4176200.00 0.14295
634975.00 4176200.00 0.14066 635125.00
4176200.00 0.13421
635175.00 4176200.00 0.13219 635225.00
4176200.00 0.13014
635525.00 4176200.00 0.11905 635575.00
4176200.00 0.11732
634325.00 4176250.00 0.17927 634375.00
4176250.00 0.17596
634875.00 4176250.00 0.14791 634925.00
4176250.00 0.14552
634975.00 4176250.00 0.14317 635025.00
4176250.00 0.14088
635075.00 4176250.00 0.13863 635125.00
4176250.00 0.13647
635175.00 4176250.00 0.13433 635225.00
4176250.00 0.13231
635275.00 4176250.00 0.13027 635375.00
4176250.00 0.12631
635425.00 4176250.00 0.12445 635525.00
4176250.00 0.12085
635575.00 4176250.00 0.11910 634875.00
4176300.00 0.15035
634925.00 4176300.00 0.14789 634975.00
4176300.00 0.14549
635025.00 4176300.00 0.14314 635075.00
4176300.00 0.14084
635125.00 4176300.00 0.13862 635175.00
4176300.00 0.13640
635225.00 4176300.00 0.13430 635275.00

```
4176300.00        0.13228
         635375.00    4176300.00        0.12817                        635425.00
4176300.00        0.12625
         635525.00    4176300.00        0.12253                        635575.00
4176300.00        0.12067
         634875.00    4176350.00        0.15266                        634925.00
4176350.00        0.15014
         634975.00    4176350.00        0.14765                        635025.00
4176350.00        0.14525
         635075.00    4176350.00        0.14289                        635125.00
4176350.00        0.14060
         635175.00    4176350.00        0.13833                        635225.00
4176350.00        0.13622
         635275.00    4176350.00        0.13409                        635375.00
4176350.00        0.12991
         635425.00    4176350.00        0.12795                        635525.00
4176350.00        0.12411
         635575.00    4176350.00        0.12221                        634875.00
4176400.00        0.15486
         634925.00    4176400.00        0.15226                        634975.00
4176400.00        0.14972
         635025.00    4176400.00        0.14724                        635075.00
4176400.00        0.14483
         635125.00    4176400.00        0.14249                        635175.00
4176400.00        0.14022
         635225.00    4176400.00        0.13801                        635275.00
4176400.00        0.13585
         635425.00    4176400.00        0.12955                        635525.00
4176400.00        0.12557
 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                          ***       01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                         ***       15:43:26

                                   PAGE 111
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: OFFSITE2 ***
                                   INCLUDING SOURCE(S):     L0006345    , L0006346
, L0006347    , L0006348    , L0006349    ,
                  L0006350    , L0006351    , L0006352    , L0006353    , L0006354
, L0006355    , L0006356    , L0006357    ,
                  L0006358    , L0006359    , L0006360    , L0006361    , L0006362
, L0006363    , L0006364    , L0006365    ,
                  L0006366    , L0006367    , L0006368    , L0006369    , L0006370
, L0006371    , L0006372    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***
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** CONC OF HRA IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
635575.00	4176400.00	0.12371	633650.00	4176200.00	0.23116
633700.00	4176200.00	0.22597	633850.00	4176200.00	0.21167
633850.00	4176250.00	0.21678	633950.00	4176250.00	0.20777
634350.00	4176250.00	0.17764	633750.00	4176300.00	0.23155
633950.00	4176300.00	0.21226	634000.00	4176300.00	0.20785
634050.00	4176300.00	0.20350	634050.00	4176350.00	0.20750
634050.00	4176400.00	0.21120	634000.00	4176450.00	0.21922
634050.00	4176450.00	0.21464	634200.00	4176600.00	0.20950
634100.00	4176650.00	0.22069	634150.00	4176650.00	0.21610
634200.00	4176650.00	0.21152	634200.00	4176850.00	0.21697
634200.00	4176900.00	0.21762	634250.00	4176900.00	0.21307
634300.00	4176900.00	0.20863	634400.00	4177000.00	0.20052
634450.00	4177000.00	0.19634	634500.00	4177000.00	0.19245
634550.00	4177000.00	0.18869	634400.00	4177050.00	0.20037
634450.00	4177050.00	0.19610	634500.00	4177050.00	0.19241
634550.00	4177050.00	0.18869	633750.00	4173175.00	0.03547
634450.00	4173325.00	0.03678	634450.00	4173375.00	0.03744
634350.00	4173475.00	0.03921	634300.00	4173625.00	0.04202
634300.00	4173675.00	0.04298	634350.00	4173675.00	0.04270
634250.00	4173775.00	0.04518	633950.00	4173825.00	0.04801
634050.00	4173825.00	0.04735	634100.00	4173825.00	0.04710

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         634250.00    4173825.00        0.04627                        634250.00
4173975.00        0.04946
         634150.00    4174125.00        0.05395                        634200.00
4174125.00        0.05344
         634250.00    4174125.00        0.05293                        634250.00
4174225.00        0.05561
         634350.00    4174225.00        0.05457                        634400.00
4174225.00        0.05410
         634200.00    4174325.00        0.05888                        634250.00
4174325.00        0.05842
         634200.00    4174375.00        0.06029                        634250.00
4174425.00        0.06144
         634000.00    4174475.00        0.06553                        634250.00
4174525.00        0.06477
         634100.00    4174575.00        0.06813                        634150.00
4174575.00        0.06759
         634200.00    4174575.00        0.06707                        634250.00
4174575.00        0.06653
         634250.00    4174625.00        0.06840                        634250.00
4174675.00        0.07038
         634250.00    4174825.00        0.07700                        634250.00
4174875.00        0.07945
         634200.00    4174925.00        0.08276                        634250.00
4174925.00        0.08203
         631950.00    4173950.00        0.03287                        631550.00
4174000.00        0.03327
         631550.00    4174050.00        0.03510                        631750.00
4174250.00        0.04486
         632300.00    4174300.00        0.05786                        632350.00
4174300.00        0.05856
         632300.00    4174350.00        0.06071                        632350.00
4174350.00        0.06149
         631600.00    4174400.00        0.05084                        631650.00
4174400.00        0.05317
         632000.00    4174400.00        0.05952                        632000.00
4174450.00        0.06263
         631950.00    4174500.00        0.06572                        632150.00
4174950.00        0.11584
 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                          ***       01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                          ***      15:43:26

                                   PAGE 112
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: OFFSITE2 ***
                                   INCLUDING SOURCE(S):     L0006345    , L0006346
, L0006347    , L0006348    , L0006349    ,
```

```
                 L0006350    , L0006351    , L0006352    , L0006353    , L0006354
, L0006355    , L0006356    , L0006357    ,
                 L0006358    , L0006359    , L0006360    , L0006361    , L0006362
, L0006363    , L0006364    , L0006365    ,
                 L0006366    , L0006367    , L0006368    , L0006369    , L0006370
, L0006371    , L0006372    ,  . . .      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF HRA      IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                        X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - -
         632200.00    4174950.00        0.11536

 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                          ***        01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                       ***        15:43:26

                                   PAGE 113
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: OFFSITE3 ***
                                   INCLUDING SOURCE(S):     L0006575    , L0006576
, L0006577    , L0006578    , L0006579    ,
                 L0006580    , L0006581    , L0006582    , L0006583    , L0006584
, L0006585    , L0006586    , L0006587    ,
                 L0006588    , L0006589    , L0006590    , L0006591    , L0006592
, L0006593    , L0006594    , L0006595    ,
                 L0006596    , L0006597    , L0006598    , L0006599    , L0006600
, L0006601    , L0006602    ,  . . .      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF HRA      IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                        X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - -
         631050.00    4178050.00        0.15543                      631150.00
4178250.00        0.13218
```

631250.00 4178250.00 0.12931 631350.00
4178250.00 0.12651
631450.00 4178250.00 0.12350 631550.00
4178250.00 0.12047
631650.00 4178250.00 0.11750 631750.00
4178250.00 0.11456
631150.00 4178350.00 0.12393 631450.00
4178350.00 0.11635
631550.00 4178350.00 0.11357 631650.00
4178350.00 0.11107
631750.00 4178350.00 0.10831 630650.00
4178450.00 0.12507
630850.00 4178450.00 0.12165 631050.00
4178450.00 0.11826
631150.00 4178450.00 0.11629 631250.00
4178450.00 0.11433
631550.00 4178450.00 0.10724 631650.00
4178450.00 0.10479
631750.00 4178450.00 0.10226 631850.00
4178450.00 0.09995
631950.00 4178450.00 0.09776 632050.00
4178450.00 0.09586
632150.00 4178450.00 0.09401 630550.00
4178550.00 0.11895
630650.00 4178550.00 0.11721 630750.00
4178550.00 0.11572
630950.00 4178550.00 0.11259 631050.00
4178550.00 0.11119
631250.00 4178550.00 0.10775 631350.00
4178550.00 0.10582
631450.00 4178550.00 0.10387 631550.00
4178550.00 0.10158
631650.00 4178550.00 0.09932 631750.00
4178550.00 0.09711
631850.00 4178550.00 0.09486 631950.00
4178550.00 0.09281
632050.00 4178550.00 0.09110 632150.00
4178550.00 0.08932
630450.00 4178650.00 0.11335 630550.00
4178650.00 0.11202
630650.00 4178650.00 0.11028 630750.00
4178650.00 0.10887
630850.00 4178650.00 0.10745 630950.00
4178650.00 0.10611
631050.00 4178650.00 0.10482 631150.00
4178650.00 0.10330
631250.00 4178650.00 0.10172 631350.00
4178650.00 0.09998
631450.00 4178650.00 0.09818 631550.00
4178650.00 0.09633

```
         631650.00    4178650.00        0.09437                      631750.00
4178650.00        0.09226
         631850.00    4178650.00        0.09034                      631950.00
4178650.00        0.08832
         632050.00    4178650.00        0.08665                      632150.00
4178650.00        0.08511
         630350.00    4178750.00        0.10809                      630450.00
4178750.00        0.10694
         630550.00    4178750.00        0.10572                      630650.00
4178750.00        0.10414
         630750.00    4178750.00        0.10277                      630850.00
4178750.00        0.10150
         630950.00    4178750.00        0.10025                      631050.00
4178750.00        0.09895
         631150.00    4178750.00        0.09764                      631250.00
4178750.00        0.09623
         631350.00    4178750.00        0.09467                      631450.00
4178750.00        0.09306
         631550.00    4178750.00        0.09142                      631650.00
4178750.00        0.08979
         631750.00    4178750.00        0.08786                      631850.00
4178750.00        0.08601
         631950.00    4178750.00        0.08426                      632050.00
4178750.00        0.08256
         632150.00    4178750.00        0.08108                      630250.00
4178850.00        0.10278
         630350.00    4178850.00        0.10214                      630450.00
4178850.00        0.10116
 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                          ***        01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                         ***        15:43:26

                                    PAGE 114
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: OFFSITE3 ***
                                    INCLUDING SOURCE(S):     L0006575    , L0006576
, L0006577    , L0006578    , L0006579    ,
                  L0006580    , L0006581    , L0006582    , L0006583    , L0006584
, L0006585    , L0006586    , L0006587    ,
                  L0006588    , L0006589    , L0006590    , L0006591    , L0006592
, L0006593    , L0006594    , L0006595    ,
                  L0006596    , L0006597    , L0006598    , L0006599    , L0006600
, L0006601    , L0006602    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
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** CONC OF HRA IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
630550.00	4178850.00	0.10001	630650.00	4178850.00	0.09847
630750.00	4178850.00	0.09734	630850.00	4178850.00	0.09611
630950.00	4178850.00	0.09494	631050.00	4178850.00	0.09366
631150.00	4178850.00	0.09239	631250.00	4178850.00	0.09109
631350.00	4178850.00	0.08973	631450.00	4178850.00	0.08831
631550.00	4178850.00	0.08687	631650.00	4178850.00	0.08537
631750.00	4178850.00	0.08372	631850.00	4178850.00	0.08207
631950.00	4178850.00	0.08045	632050.00	4178850.00	0.07888
632150.00	4178850.00	0.07745	630250.00	4178950.00	0.09728
630350.00	4178950.00	0.09666	630450.00	4178950.00	0.09570
630550.00	4178950.00	0.09477	630650.00	4178950.00	0.09343
630750.00	4178950.00	0.09234	630850.00	4178950.00	0.09114
630950.00	4178950.00	0.09013	631050.00	4178950.00	0.08886
631150.00	4178950.00	0.08766	631250.00	4178950.00	0.08645
631350.00	4178950.00	0.08526	631450.00	4178950.00	0.08392
631550.00	4178950.00	0.08264	631650.00	4178950.00	0.08138
631750.00	4178950.00	0.07987	631850.00	4178950.00	0.07827
631950.00	4178950.00	0.07687	632050.00	4178950.00	0.07540
632150.00	4178950.00	0.07411	629950.00	4179050.00	0.09257
630250.00	4179050.00	0.09221	630350.00	4179050.00	0.09157
630450.00	4179050.00	0.09085	630550.00	4179050.00	0.08991
630650.00	4179050.00	0.08870	630750.00		

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4179050.00        0.08766
         630850.00    4179050.00        0.08663                        630950.00
4179050.00        0.08566
         631050.00    4179050.00        0.08452                        631150.00
4179050.00        0.08336
         631250.00    4179050.00        0.08219                        631350.00
4179050.00        0.08109
         631450.00    4179050.00        0.07997                        631550.00
4179050.00        0.07868
         631650.00    4179050.00        0.07749                        631750.00
4179050.00        0.07623
         631850.00    4179050.00        0.07483                        631950.00
4179050.00        0.07355
         632050.00    4179050.00        0.07217                        632150.00
4179050.00        0.07096
         629850.00    4179150.00        0.08759                        629950.00
4179150.00        0.08786
         630150.00    4179150.00        0.08775                        630250.00
4179150.00        0.08741
         630350.00    4179150.00        0.08686                        630450.00
4179150.00        0.08618
         630550.00    4179150.00        0.08544                        630650.00
4179150.00        0.08457
         630750.00    4179150.00        0.08350                        630850.00
4179150.00        0.08246
         630950.00    4179150.00        0.08146                        631050.00
4179150.00        0.08045
         631150.00    4179150.00        0.07940                        631250.00
4179150.00        0.07830
         631350.00    4179150.00        0.07721                        631450.00
4179150.00        0.07624
         631550.00    4179150.00        0.07508                        631650.00
4179150.00        0.07396
         631750.00    4179150.00        0.07293                        631850.00
4179150.00        0.07176
         631950.00    4179150.00        0.07011                        632050.00
4179150.00        0.06918
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: OFFSITE3 ***
                                  INCLUDING SOURCE(S):     L0006575    , L0006576
, L0006577    , L0006578    , L0006579    ,
                 L0006580    , L0006581    , L0006582    , L0006583    , L0006584
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, L0006585    , L0006586    , L0006587    ,
                L0006588    , L0006589    , L0006590    , L0006591    , L0006592
, L0006593    , L0006594    , L0006595    ,
                L0006596    , L0006597    , L0006598    , L0006599    , L0006600
, L0006601    , L0006602    ,  . . .      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                      ** CONC OF HRA      IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                       X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
         632150.00    4179150.00        0.06799                      630850.00
4179250.00        0.07873
         630950.00    4179250.00        0.07773                      631050.00
4177625.00        0.21728
         631100.00    4177725.00        0.19702                      631100.00
4177825.00        0.18197
         631350.00    4178225.00        0.12853                      631400.00
4178225.00        0.12696
         631450.00    4178225.00        0.12542                      631500.00
4178225.00        0.12387
         631100.00    4178275.00        0.13128                      631150.00
4178275.00        0.13012
         631200.00    4178275.00        0.12874                      631250.00
4178275.00        0.12740
         631300.00    4178275.00        0.12602                      631350.00
4178275.00        0.12459
         631400.00    4178275.00        0.12318                      631450.00
4178275.00        0.12175
         631500.00    4178275.00        0.12028                      630950.00
4178325.00        0.13033
         631100.00    4178325.00        0.12711                      631150.00
4178325.00        0.12593
         631200.00    4178325.00        0.12487                      631250.00
4178325.00        0.12353
         631300.00    4178325.00        0.12235                      631400.00
4178325.00        0.11945
         631450.00    4178325.00        0.11817                      631500.00
4178325.00        0.11676
         630950.00    4178375.00        0.12607                      631200.00
4178375.00        0.12083
         631300.00    4178375.00        0.11849                      631400.00
4178375.00        0.11597
         631450.00    4178375.00        0.11460                      631500.00
4178375.00        0.11332
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         630800.00    4178425.00        0.12447                    630850.00
4178425.00        0.12365
         631050.00    4178425.00        0.12016                    631200.00
4178425.00        0.11715
         631250.00    4178425.00        0.11613                    631300.00
4178425.00        0.11497
         630650.00    4178475.00        0.12303                    630800.00
4178475.00        0.12056
         630850.00    4178475.00        0.11966                    631050.00
4178475.00        0.11642
         631200.00    4178475.00        0.11366                    631250.00
4178475.00        0.11265
         631300.00    4178475.00        0.11157                    631450.00
4178475.00        0.10817
         631500.00    4178475.00        0.10696                    630550.00
4178525.00        0.12082
         630600.00    4178525.00        0.12002                    630650.00
4178525.00        0.11895
         630700.00    4178525.00        0.11829                    630750.00
4178525.00        0.11754
         630950.00    4178525.00        0.11432                    631050.00
4178525.00        0.11291
         631200.00    4178525.00        0.11030                    631250.00
4178525.00        0.10935
         631300.00    4178525.00        0.10833                    631350.00
4178525.00        0.10733
         631400.00    4178525.00        0.10626                    631450.00
4178525.00        0.10532
         631500.00    4178525.00        0.10408                    630500.00
4178575.00        0.11792
         630550.00    4178575.00        0.11716                    630600.00
4178575.00        0.11635
         630650.00    4178575.00        0.11523                    630700.00
4178575.00        0.11461
         630750.00    4178575.00        0.11399                    630800.00
4178575.00        0.11310
         630850.00    4178575.00        0.11233                    631000.00
4178575.00        0.11030
         631050.00    4178575.00        0.10954                    631200.00
4178575.00        0.10710
         631250.00    4178575.00        0.10618                    631300.00
4178575.00        0.10526
         631350.00    4178575.00        0.10428                    631400.00
4178575.00        0.10336
         631450.00    4178575.00        0.10231                    631500.00
4178575.00        0.10129
 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                          ***        01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                          ***       15:43:26
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: OFFSITE3 ***
INCLUDING SOURCE(S): L0006575 , L0006576 , L0006577 , L0006578 , L0006579 ,
L0006580 , L0006581 , L0006582 , L0006583 , L0006584 , L0006585 , L0006586 , L0006587 ,
L0006588 , L0006589 , L0006590 , L0006591 , L0006592 , L0006593 , L0006594 , L0006595 ,
L0006596 , L0006597 , L0006598 , L0006599 , L0006600 , L0006601 , L0006602 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF HRA IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
630500.00	4178625.00	0.11431	630550.00	4178625.00	0.11368
630600.00	4178625.00	0.11285	630650.00	4178625.00	0.11183
630700.00	4178625.00	0.11121	630750.00	4178625.00	0.11051
630800.00	4178625.00	0.10986	630850.00	4178625.00	0.10916
631000.00	4178625.00	0.10704	631050.00	4178625.00	0.10634
631100.00	4178625.00	0.10556	631150.00	4178625.00	0.10473
631200.00	4178625.00	0.10399	631250.00	4178625.00	0.10317
631300.00	4178625.00	0.10228	631350.00	4178625.00	0.10141
631400.00	4178625.00	0.10048	631450.00	4178625.00	0.09956
631500.00	4178625.00	0.09858	631100.00	4175700.00	1.89104
631150.00	4175700.00	1.79922	631200.00	4175700.00	1.69755
631250.00	4175700.00	1.59097	631100.00	4175750.00	2.31117
631150.00	4175750.00	2.16704	629400.00		

4179050.00 0.08981
629450.00 4179050.00 0.09019 629500.00
4179050.00 0.09051
629400.00 4179100.00 0.08756 629450.00
4179100.00 0.08794
629400.00 4179150.00 0.08539 629500.00
4179150.00 0.08605
629550.00 4179150.00 0.08640 629600.00
4179150.00 0.08670
629650.00 4179150.00 0.08697 629700.00
4179150.00 0.08715
629800.00 4179200.00 0.08536 629400.00
4179300.00 0.07935
629400.00 4179350.00 0.07749 634375.00
4175350.00 0.15312
634425.00 4175350.00 0.15055 635425.00
4175350.00 0.11045
635425.00 4175400.00 0.11201 635475.00
4175400.00 0.11043
634325.00 4175450.00 0.16217 634475.00
4175450.00 0.15372
634525.00 4175450.00 0.15104 634525.00
4175500.00 0.15359
634325.00 4175550.00 0.16794 634525.00
4175550.00 0.15597
634575.00 4175550.00 0.15319 634775.00
4175550.00 0.14285
634825.00 4175550.00 0.14044 634625.00
4175600.00 0.15252
634675.00 4175600.00 0.14978 634725.00
4175600.00 0.14721
634775.00 4175600.00 0.14463 634825.00
4175600.00 0.14219
634875.00 4175600.00 0.13977 634925.00
4175600.00 0.13744
635375.00 4175600.00 0.11916 634275.00
4175650.00 0.17623
634325.00 4175650.00 0.17282 634575.00
4175650.00 0.15719
634625.00 4175650.00 0.15431 634675.00
4175650.00 0.15158
634725.00 4175650.00 0.14892 634775.00
4175650.00 0.14626
634825.00 4175650.00 0.14380 634875.00
4175650.00 0.14133
634925.00 4175650.00 0.13889 634975.00
4175650.00 0.13662
635025.00 4175650.00 0.13431 635325.00
4175650.00 0.12211
635375.00 4175650.00 0.12026 634475.00

4175700.00 0.16496
  634525.00 4175700.00 0.16184 634575.00
4175700.00 0.15882
  634625.00 4175700.00 0.15584 634675.00
4175700.00 0.15304

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: OFFSITE3 ***
INCLUDING SOURCE(S): L0006575 , L0006576 , L0006577 , L0006578 , L0006579 ,
  L0006580 , L0006581 , L0006582 , L0006583 , L0006584 , L0006585 , L0006586 , L0006587 ,
  L0006588 , L0006589 , L0006590 , L0006591 , L0006592 , L0006593 , L0006594 , L0006595 ,
  L0006596 , L0006597 , L0006598 , L0006599 , L0006600 , L0006601 , L0006602 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF HRA IN MICROGRAMS/M**3
  **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
634725.00	4175700.00	0.15044	634775.00	4175700.00	0.14776
634825.00	4175700.00	0.14510	634875.00	4175700.00	0.14267
634925.00	4175700.00	0.14015	634975.00	4175700.00	0.13783
635025.00	4175700.00	0.13546	635075.00	4175700.00	0.13328
635125.00	4175700.00	0.13111	634425.00	4175750.00	0.16973
634575.00	4175750.00	0.16027	634625.00	4175750.00	0.15729
634675.00	4175750.00	0.15440	634725.00	4175750.00	0.15168
634775.00	4175750.00	0.14895	634825.00	4175750.00	0.14633

634875.00 4175750.00 0.14370 634925.00 4175750.00 0.14123
634975.00 4175750.00 0.13882 635025.00 4175750.00 0.13644
635075.00 4175750.00 0.13422 635125.00 4175750.00 0.13202
635175.00 4175750.00 0.12979 635225.00 4175750.00 0.12778
634325.00 4175800.00 0.17799 634375.00 4175800.00 0.17446
634425.00 4175800.00 0.17095 634475.00 4175800.00 0.16770
634525.00 4175800.00 0.16449 634575.00 4175800.00 0.16129
634625.00 4175800.00 0.15843 634675.00 4175800.00 0.15539
634725.00 4175800.00 0.15264 634775.00 4175800.00 0.14984
634825.00 4175800.00 0.14726 634875.00 4175800.00 0.14456
634925.00 4175800.00 0.14210 634975.00 4175800.00 0.13966
635025.00 4175800.00 0.13726 635075.00 4175800.00 0.13491
635125.00 4175800.00 0.13267 635175.00 4175800.00 0.13055
635225.00 4175800.00 0.12841 635275.00 4175800.00 0.12639
635325.00 4175800.00 0.12432 634225.00 4175850.00 0.18634
634325.00 4175850.00 0.17895 634375.00 4175850.00 0.17530
634425.00 4175850.00 0.17185 634475.00 4175850.00 0.16853
634525.00 4175850.00 0.16528 634575.00 4175850.00 0.16210
634625.00 4175850.00 0.15921 634675.00 4175850.00 0.15616
634725.00 4175850.00 0.15326 634775.00 4175850.00 0.15062
634825.00 4175850.00 0.14789 634875.00 4175850.00 0.14524
634925.00 4175850.00 0.14265 634975.00 4175850.00 0.14020
635025.00 4175850.00 0.13776 635075.00 4175850.00 0.13547
635125.00 4175850.00 0.13322 635175.00 4175850.00 0.13103
635225.00 4175850.00 0.12884 635275.00 4175850.00 0.12682

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         635325.00    4175850.00        0.12476                       635375.00
4175850.00        0.12271
         635425.00    4175850.00        0.12076                       634225.00
4175900.00        0.18699
         634325.00    4175900.00        0.17960                       634375.00
4175900.00        0.17591
         634425.00    4175900.00        0.17230                       634475.00
4175900.00        0.16895
         634525.00    4175900.00        0.16569                       634575.00
4175900.00        0.16253
         634625.00    4175900.00        0.15954                       634675.00
4175900.00        0.15669
         634725.00    4175900.00        0.15374                       634775.00
4175900.00        0.15101
 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                          ***       01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                          ***       15:43:26

                                    PAGE 118
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: OFFSITE3 ***
                                    INCLUDING SOURCE(S):     L0006575    , L0006576
, L0006577    , L0006578    , L0006579    ,
                  L0006580    , L0006581    , L0006582    , L0006583    , L0006584
, L0006585    , L0006586    , L0006587    ,
                  L0006588    , L0006589    , L0006590    , L0006591    , L0006592
, L0006593    , L0006594    , L0006595    ,
                  L0006596    , L0006597    , L0006598    , L0006599    , L0006600
, L0006601    , L0006602    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                    ** CONC OF HRA      IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                       X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         634875.00    4175900.00        0.14561                       634925.00
4175900.00        0.14299
         634975.00    4175900.00        0.14055                       635025.00
4175900.00        0.13813
         635075.00    4175900.00        0.13581                       635125.00
4175900.00        0.13347
         635175.00    4175900.00        0.13128                       635225.00
```

4175900.00 0.12913
635275.00 4175900.00 0.12700 635325.00
4175900.00 0.12502
635375.00 4175900.00 0.12289 635425.00
4175900.00 0.12097
635475.00 4175900.00 0.11905 635525.00
4175900.00 0.11722
634325.00 4175950.00 0.17966 634375.00
4175950.00 0.17608
634425.00 4175950.00 0.17253 634475.00
4175950.00 0.16917
634525.00 4175950.00 0.16587 634575.00
4175950.00 0.16267
634625.00 4175950.00 0.15970 634675.00
4175950.00 0.15680
634875.00 4175950.00 0.14564 634925.00
4175950.00 0.14305
634975.00 4175950.00 0.14063 635025.00
4175950.00 0.13818
635075.00 4175950.00 0.13583 635125.00
4175950.00 0.13356
635175.00 4175950.00 0.13136 635225.00
4175950.00 0.12912
635275.00 4175950.00 0.12711 635325.00
4175950.00 0.12496
635375.00 4175950.00 0.12298 635425.00
4175950.00 0.12102
635475.00 4175950.00 0.11911 635525.00
4175950.00 0.11717
635575.00 4175950.00 0.11539 634725.00
4176000.00 0.15371
634925.00 4176000.00 0.14282 634975.00
4176000.00 0.14045
635025.00 4176000.00 0.13804 635075.00
4176000.00 0.13562
635125.00 4176000.00 0.13337 635175.00
4176000.00 0.13113
635225.00 4176000.00 0.12897 635275.00
4176000.00 0.12693
635325.00 4176000.00 0.12480 635375.00
4176000.00 0.12283
635425.00 4176000.00 0.12082 635475.00
4176000.00 0.11892
635525.00 4176000.00 0.11706 635575.00
4176000.00 0.11520
634825.00 4176050.00 0.14747 634875.00
4176050.00 0.14489
634925.00 4176050.00 0.14239 634975.00
4176050.00 0.13994
635025.00 4176050.00 0.13752 635075.00

```
4176050.00        0.13517
         635125.00    4176050.00        0.13296                        635175.00
4176050.00        0.13073
         635225.00    4176050.00        0.12859                        635275.00
4176050.00        0.12649
         635325.00    4176050.00        0.12442                        635375.00
4176050.00        0.12238
         635425.00    4176050.00        0.12049                        635475.00
4176050.00        0.11856
         635525.00    4176050.00        0.11671                        635575.00
4176050.00        0.11484
         634825.00    4176100.00        0.14663                        634875.00
4176100.00        0.14411
         634925.00    4176100.00        0.14154                        634975.00
4176100.00        0.13913
         635025.00    4176100.00        0.13682                        635075.00
4176100.00        0.13452
         635125.00    4176100.00        0.13226                        635175.00
4176100.00        0.13004
         635225.00    4176100.00        0.12793                        635275.00
4176100.00        0.12586
         635325.00    4176100.00        0.12383                        635375.00
4176100.00        0.12188
 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                          ***        01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                         ***        15:43:26

                                    PAGE 119
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: OFFSITE3 ***
                                    INCLUDING SOURCE(S):     L0006575    , L0006576
, L0006577    , L0006578    , L0006579    ,
                  L0006580    , L0006581    , L0006582    , L0006583    , L0006584
, L0006585    , L0006586    , L0006587    ,
                  L0006588    , L0006589    , L0006590    , L0006591    , L0006592
, L0006593    , L0006594    , L0006595    ,
                  L0006596    , L0006597    , L0006598    , L0006599    , L0006600
, L0006601    , L0006602    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                    ** CONC OF HRA      IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                        X-COORD (M)
Y-COORD (M)        CONC
```

- -
635425.00 4176100.00 0.11984 635475.00
4176100.00 0.11802
635525.00 4176100.00 0.11619 635575.00
4176100.00 0.11440
634825.00 4176150.00 0.14550 634875.00
4176150.00 0.14304
634925.00 4176150.00 0.14048 634975.00
4176150.00 0.13812
635025.00 4176150.00 0.13583 635075.00
4176150.00 0.13351
635125.00 4176150.00 0.13135 635175.00
4176150.00 0.12917
635225.00 4176150.00 0.12699 635275.00
4176150.00 0.12502
635325.00 4176150.00 0.12300 635375.00
4176150.00 0.12106
635425.00 4176150.00 0.11908 635475.00
4176150.00 0.11727
635525.00 4176150.00 0.11546 635575.00
4176150.00 0.11370
634875.00 4176200.00 0.14172 634925.00
4176200.00 0.13921
634975.00 4176200.00 0.13683 635125.00
4176200.00 0.13014
635175.00 4176200.00 0.12806 635225.00
4176200.00 0.12593
635525.00 4176200.00 0.11455 635575.00
4176200.00 0.11277
634325.00 4176250.00 0.17117 634375.00
4176250.00 0.16787
634875.00 4176250.00 0.14007 634925.00
4176250.00 0.13772
634975.00 4176250.00 0.13540 635025.00
4176250.00 0.13314
635075.00 4176250.00 0.13091 635125.00
4176250.00 0.12879
635175.00 4176250.00 0.12668 635225.00
4176250.00 0.12471
635275.00 4176250.00 0.12270 635375.00
4176250.00 0.11881
635425.00 4176250.00 0.11699 635525.00
4176250.00 0.11348
635575.00 4176250.00 0.11178 634875.00
4176300.00 0.13817
634925.00 4176300.00 0.13588 634975.00
4176300.00 0.13364
635025.00 4176300.00 0.13145 635075.00
4176300.00 0.12930

```
         635125.00    4176300.00        0.12723                      635175.00
4176300.00        0.12515
         635225.00    4176300.00        0.12319                      635275.00
4176300.00        0.12132
         635375.00    4176300.00        0.11747                      635425.00
4176300.00        0.11569
         635525.00    4176300.00        0.11223                      635575.00
4176300.00        0.11049
         634875.00    4176350.00        0.13606                      634925.00
4176350.00        0.13384
         634975.00    4176350.00        0.13165                      635025.00
4176350.00        0.12953
         635075.00    4176350.00        0.12744                      635125.00
4176350.00        0.12542
         635175.00    4176350.00        0.12340                      635225.00
4176350.00        0.12155
         635275.00    4176350.00        0.11967                      635375.00
4176350.00        0.11595
         635425.00    4176350.00        0.11422                      635525.00
4176350.00        0.11082
         635575.00    4176350.00        0.10912                      634875.00
4176400.00        0.13380
         634925.00    4176400.00        0.13163                      634975.00
4176400.00        0.12951
         635025.00    4176400.00        0.12744                      635075.00
4176400.00        0.12544
         635125.00    4176400.00        0.12348                      635175.00
4176400.00        0.12158
         635225.00    4176400.00        0.11974                      635275.00
4176400.00        0.11793
         635425.00    4176400.00        0.11262                      635525.00
4176400.00        0.10924
 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                          ***        01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                       ***        15:43:26

                                   PAGE 120
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: OFFSITE3 ***
                                   INCLUDING SOURCE(S):     L0006575    , L0006576
, L0006577    , L0006578    , L0006579    ,
                L0006580    , L0006581    , L0006582    , L0006583    , L0006584
, L0006585    , L0006586    , L0006587    ,
                L0006588    , L0006589    , L0006590    , L0006591    , L0006592
, L0006593    , L0006594    , L0006595    ,
                L0006596    , L0006597    , L0006598    , L0006599    , L0006600
, L0006601    , L0006602    ,  . . .      ,
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*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF HRA IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
635575.00	4176400.00	0.10768	633650.00	4176200.00	0.23292
633700.00	4176200.00	0.22735	633850.00	4176200.00	0.21200
633850.00	4176250.00	0.20856	633950.00	4176250.00	0.19956
634350.00	4176250.00	0.16955	633750.00	4176300.00	0.21372
633950.00	4176300.00	0.19587	634000.00	4176300.00	0.19178
634050.00	4176300.00	0.18769	634050.00	4176350.00	0.18399
634050.00	4176400.00	0.17992	634000.00	4176450.00	0.17903
634050.00	4176450.00	0.17562	634200.00	4176600.00	0.15352
634100.00	4176650.00	0.15444	634150.00	4176650.00	0.15188
634200.00	4176650.00	0.14923	634200.00	4176850.00	0.13228
634200.00	4176900.00	0.12814	634250.00	4176900.00	0.12632
634300.00	4176900.00	0.12451	634400.00	4177000.00	0.11381
634450.00	4177000.00	0.11220	634500.00	4177000.00	0.11074
634550.00	4177000.00	0.10933	634400.00	4177050.00	0.11037
634450.00	4177050.00	0.10877	634500.00	4177050.00	0.10757
634550.00	4177050.00	0.10628	633750.00	4173175.00	0.04888
634450.00	4173325.00	0.04883	634450.00	4173375.00	0.05007
634350.00	4173475.00	0.05311	634300.00	4173625.00	0.05751
634300.00	4173675.00	0.05900	634350.00	4173675.00	0.05865
634250.00	4173775.00	0.06259	633950.00		

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4173825.00        0.06683
         634050.00    4173825.00        0.06597                        634100.00
4173825.00        0.06555
         634250.00    4173825.00        0.06433                        634250.00
4173975.00        0.07007
         634150.00    4174125.00        0.07772                        634200.00
4174125.00        0.07722
         634250.00    4174125.00        0.07671                        634250.00
4174225.00        0.08169
         634350.00    4174225.00        0.08057                        634400.00
4174225.00        0.08001
         634200.00    4174325.00        0.08783                        634250.00
4174325.00        0.08715
         634200.00    4174375.00        0.09083                        634250.00
4174425.00        0.09313
         634000.00    4174475.00        0.10060                        634250.00
4174525.00        0.09958
         634100.00    4174575.00        0.10596                        634150.00
4174575.00        0.10496
         634200.00    4174575.00        0.10396                        634250.00
4174575.00        0.10298
         634250.00    4174625.00        0.10647                        634250.00
4174675.00        0.11004
         634250.00    4174825.00        0.12107                        634250.00
4174875.00        0.12481
         634200.00    4174925.00        0.13032                        634250.00
4174925.00        0.12858
         631950.00    4173950.00        0.08217                        631550.00
4174000.00        0.08781
         631550.00    4174050.00        0.09295                        631750.00
4174250.00        0.11535
         632300.00    4174300.00        0.11838                        632350.00
4174300.00        0.11713
         632300.00    4174350.00        0.12352                        632350.00
4174350.00        0.12220
         631600.00    4174400.00        0.13706                        631650.00
4174400.00        0.13870
         632000.00    4174400.00        0.13761                        632000.00
4174450.00        0.14452
         631950.00    4174500.00        0.15541                        632150.00
4174950.00        0.23738
 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                          ***        01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                          ***       15:43:26

                                   PAGE 121
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
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VALUES FOR SOURCE GROUP: OFFSITE3 ***
INCLUDING SOURCE(S): L0006575 , L0006576
, L0006577 , L0006578 , L0006579 ,
L0006580 , L0006581 , L0006582 , L0006583 , L0006584
, L0006585 , L0006586 , L0006587 ,
L0006588 , L0006589 , L0006590 , L0006591 , L0006592
, L0006593 , L0006594 , L0006595 ,
L0006596 , L0006597 , L0006598 , L0006599 , L0006600
, L0006601 , L0006602 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS
***

** CONC OF HRA IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
632200.00	4174950.00	0.23332			

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: OFFSITE4 ***
INCLUDING SOURCE(S): L0006750 , L0006751
, L0006752 , L0006753 , L0006754 ,
L0006755 , L0006756 , L0006757 , L0006758 , L0006759
, L0006760 , L0006761 , L0006762 ,
L0006763 , L0006764 , L0006765 , L0006766 , L0006767
, L0006768 , L0006769 , L0006770 ,
L0006771 , L0006772 , L0006773 , L0006774 , L0006775
, L0006776 , L0006777 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS
***

** CONC OF HRA IN MICROGRAMS/M**3
**

X-COORD (M) Y-COORD (M) CONC X-COORD (M)
Y-COORD (M) CONC
- -

- -
631050.00 4178050.00 0.38160 631150.00
4178250.00 0.30647
631250.00 4178250.00 0.28801 631350.00
4178250.00 0.27185
631450.00 4178250.00 0.25711 631550.00
4178250.00 0.24375
631650.00 4178250.00 0.23158 631750.00
4178250.00 0.22031
631150.00 4178350.00 0.28110 631450.00
4178350.00 0.23805
631550.00 4178350.00 0.22619 631650.00
4178350.00 0.21573
631750.00 4178350.00 0.20565 630650.00
4178450.00 0.34765
630850.00 4178450.00 0.30555 631050.00
4178450.00 0.27107
631150.00 4178450.00 0.25603 631250.00
4178450.00 0.24273
631550.00 4178450.00 0.20884 631650.00
4178450.00 0.19946
631750.00 4178450.00 0.19064 631850.00
4178450.00 0.18258
631950.00 4178450.00 0.17501 632050.00
4178450.00 0.16808
632150.00 4178450.00 0.16158 630550.00
4178550.00 0.32503
630650.00 4178550.00 0.30593 630750.00
4178550.00 0.28906
630950.00 4178550.00 0.25836 631050.00
4178550.00 0.24528
631250.00 4178550.00 0.22154 631350.00
4178550.00 0.21108
631450.00 4178550.00 0.20163 631550.00
4178550.00 0.19254
631650.00 4178550.00 0.18431 631750.00
4178550.00 0.17675
631850.00 4178550.00 0.16957 631950.00
4178550.00 0.16292
632050.00 4178550.00 0.15689 632150.00
4178550.00 0.15100
630450.00 4178650.00 0.30184 630550.00
4178650.00 0.28611
630650.00 4178650.00 0.27064 630750.00
4178650.00 0.25732
630850.00 4178650.00 0.24464 630950.00
4178650.00 0.23294
631050.00 4178650.00 0.22218 631150.00
4178650.00 0.21182
631250.00 4178650.00 0.20224 631350.00

```
4178650.00        0.19323
         631450.00    4178650.00        0.18497                        631550.00
4178650.00        0.17738
         631650.00    4178650.00        0.17031                        631750.00
4178650.00        0.16357
         631850.00    4178650.00        0.15751                        631950.00
4178650.00        0.15155
         632050.00    4178650.00        0.14618                        632150.00
4178650.00        0.14112
         630350.00    4178750.00        0.28162                        630450.00
4178750.00        0.26692
         630550.00    4178750.00        0.25426                        630650.00
4178750.00        0.24179
         630750.00    4178750.00        0.23080                        630850.00
4178750.00        0.22062
         630950.00    4178750.00        0.21098                        631050.00
4178750.00        0.20182
         631150.00    4178750.00        0.19327                        631250.00
4178750.00        0.18515
         631350.00    4178750.00        0.17737                        631450.00
4178750.00        0.17019
         631550.00    4178750.00        0.16357                        631650.00
4178750.00        0.15758
         631750.00    4178750.00        0.15161                        631850.00
4178750.00        0.14617
         631950.00    4178750.00        0.14110                        632050.00
4178750.00        0.13621
         632150.00    4178750.00        0.13171                        630250.00
4178850.00        0.26477
         630350.00    4178850.00        0.25147                        630450.00
4178850.00        0.23927
 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                          ***        01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                         ***        15:43:26

                                    PAGE 123
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: OFFSITE4 ***
                                    INCLUDING SOURCE(S):     L0006750    , L0006751
, L0006752    , L0006753    , L0006754    ,
                  L0006755    , L0006756    , L0006757    , L0006758    , L0006759
, L0006760    , L0006761    , L0006762    ,
                  L0006763    , L0006764    , L0006765    , L0006766    , L0006767
, L0006768    , L0006769    , L0006770    ,
                  L0006771    , L0006772    , L0006773    , L0006774    , L0006775
, L0006776    , L0006777    ,  . . .      ,
```

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF HRA IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
630550.00	4178850.00	0.22846	630650.00	4178850.00	0.21770
630750.00	4178850.00	0.20900	630850.00	4178850.00	0.20040
630950.00	4178850.00	0.19235	631050.00	4178850.00	0.18446
631150.00	4178850.00	0.17703	631250.00	4178850.00	0.17001
631350.00	4178850.00	0.16337	631450.00	4178850.00	0.15709
631550.00	4178850.00	0.15130	631650.00	4178850.00	0.14591
631750.00	4178850.00	0.14074	631850.00	4178850.00	0.13597
631950.00	4178850.00	0.13149	632050.00	4178850.00	0.12720
632150.00	4178850.00	0.12315	630250.00	4178950.00	0.23849
630350.00	4178950.00	0.22716	630450.00	4178950.00	0.21638
630550.00	4178950.00	0.20736	630650.00	4178950.00	0.19820
630750.00	4178950.00	0.19060	630850.00	4178950.00	0.18317
630950.00	4178950.00	0.17656	631050.00	4178950.00	0.16964
631150.00	4178950.00	0.16322	631250.00	4178950.00	0.15708
631350.00	4178950.00	0.15132	631450.00	4178950.00	0.14567
631550.00	4178950.00	0.14052	631650.00	4178950.00	0.13581
631750.00	4178950.00	0.13112	631850.00	4178950.00	0.12665
631950.00	4178950.00	0.12278	632050.00	4178950.00	0.11894
632150.00	4178950.00	0.11540	629950.00	4179050.00	0.24604
630250.00	4179050.00	0.21642	630350.00	4179050.00	0.20674

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         630450.00    4179050.00        0.19801                    630550.00
4179050.00        0.18973
         630650.00    4179050.00        0.18167                    630750.00
4179050.00        0.17488
         630850.00    4179050.00        0.16864                    630950.00
4179050.00        0.16289
         631050.00    4179050.00        0.15701                    631150.00
4179050.00        0.15133
         631250.00    4179050.00        0.14587                    631350.00
4179050.00        0.14078
         631450.00    4179050.00        0.13591                    631550.00
4179050.00        0.13103
         631650.00    4179050.00        0.12669                    631750.00
4179050.00        0.12257
         631850.00    4179050.00        0.11857                    631950.00
4179050.00        0.11503
         632050.00    4179050.00        0.11153                    632150.00
4179050.00        0.10833
         629850.00    4179150.00        0.22777                    629950.00
4179150.00        0.22051
         630150.00    4179150.00        0.20499                    630250.00
4179150.00        0.19701
         630350.00    4179150.00        0.18911                    630450.00
4179150.00        0.18166
         630550.00    4179150.00        0.17479                    630650.00
4179150.00        0.16830
         630750.00    4179150.00        0.16193                    630850.00
4179150.00        0.15617
         630950.00    4179150.00        0.15090                    631050.00
4179150.00        0.14588
         631150.00    4179150.00        0.14097                    631250.00
4179150.00        0.13614
         631350.00    4179150.00        0.13147                    631450.00
4179150.00        0.12723
         631550.00    4179150.00        0.12285                    631650.00
4179150.00        0.11882
         631750.00    4179150.00        0.11522                    631850.00
4179150.00        0.11168
         631950.00    4179150.00        0.10768                    632050.00
4179150.00        0.10497
 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                          ***        01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                          ***       15:43:26

                                    PAGE 124
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: OFFSITE4 ***
```

INCLUDING SOURCE(S): L0006750 , L0006751
, L0006752 , L0006753 , L0006754 ,
L0006755 , L0006756 , L0006757 , L0006758 , L0006759
, L0006760 , L0006761 , L0006762 ,
L0006763 , L0006764 , L0006765 , L0006766 , L0006767
, L0006768 , L0006769 , L0006770 ,
L0006771 , L0006772 , L0006773 , L0006774 , L0006775
, L0006776 , L0006777 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS
***

** CONC OF HRA IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
632150.00	4179150.00	0.10196	630850.00	4179250.00	0.14569
630950.00	4179250.00	0.14084	631050.00	4177625.00	0.45894
631100.00	4177725.00	0.43017	631100.00	4177825.00	0.41464
631350.00	4178225.00	0.27709	631400.00	4178225.00	0.26926
631450.00	4178225.00	0.26188	631500.00	4178225.00	0.25485
631100.00	4178275.00	0.30974	631150.00	4178275.00	0.30027
631200.00	4178275.00	0.29106	631250.00	4178275.00	0.28249
631300.00	4178275.00	0.27438	631350.00	4178275.00	0.26667
631400.00	4178275.00	0.25942	631450.00	4178275.00	0.25250
631500.00	4178275.00	0.24588	630950.00	4178325.00	0.32669
631100.00	4178325.00	0.29644	631150.00	4178325.00	0.28746
631200.00	4178325.00	0.27927	631250.00	4178325.00	0.27112
631300.00	4178325.00	0.26372	631400.00	4178325.00	0.24932
631450.00	4178325.00	0.24296	631500.00	4178325.00	0.23671
630950.00	4178375.00	0.31081	631200.00	4178375.00	0.26693
631300.00	4178375.00	0.25252	631400.00		

```
4178375.00        0.23942
         631450.00    4178375.00        0.23321                   631500.00
4178375.00        0.22746
         630800.00    4178425.00        0.32439                   630850.00
4178425.00        0.31418
         631050.00    4178425.00        0.27788                   631200.00
4178425.00        0.25510
         631250.00    4178425.00        0.24836                   631300.00
4178425.00        0.24176
         630650.00    4178475.00        0.33674                   630800.00
4178475.00        0.30648
         630850.00    4178475.00        0.29704                   631050.00
4178475.00        0.26440
         631200.00    4178475.00        0.24365                   631250.00
4178475.00        0.23732
         631300.00    4178475.00        0.23123                   631450.00
4178475.00        0.21460
         631500.00    4178475.00        0.20949                   630550.00
4178525.00        0.33603
         630600.00    4178525.00        0.32588                   630650.00
4178525.00        0.31533
         630700.00    4178525.00        0.30654                   630750.00
4178525.00        0.29777
         630950.00    4178525.00        0.26524                   631050.00
4178525.00        0.25154
         631200.00    4178525.00        0.23254                   631250.00
4178525.00        0.22670
         631300.00    4178525.00        0.22107                   631350.00
4178525.00        0.21576
         631400.00    4178525.00        0.21062                   631450.00
4178525.00        0.20594
         631500.00    4178525.00        0.20103                   630500.00
4178575.00        0.32400
         630550.00    4178575.00        0.31463                   630600.00
4178575.00        0.30558
         630650.00    4178575.00        0.29593                   630700.00
4178575.00        0.28826
         630750.00    4178575.00        0.28081                   630800.00
4178575.00        0.27279
         630850.00    4178575.00        0.26539                   631000.00
4178575.00        0.24551
         631050.00    4178575.00        0.23925                   631200.00
4178575.00        0.22191
         631250.00    4178575.00        0.21651                   631300.00
4178575.00        0.21137
         631350.00    4178575.00        0.20639                   631400.00
4178575.00        0.20176
         631450.00    4178575.00        0.19715                   631500.00
4178575.00        0.19283
 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
```

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: OFFSITE4 ***
INCLUDING SOURCE(S): L0006750 , L0006751 , L0006752 , L0006753 , L0006754 ,
L0006755 , L0006756 , L0006757 , L0006758 , L0006759 , L0006760 , L0006761 , L0006762 ,
L0006763 , L0006764 , L0006765 , L0006766 , L0006767 , L0006768 , L0006769 , L0006770 ,
L0006771 , L0006772 , L0006773 , L0006774 , L0006775 , L0006776 , L0006777 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF HRA IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
630500.00	4178625.00	0.30296	630550.00	4178625.00	0.29511
630600.00	4178625.00	0.28694	630650.00	4178625.00	0.27852
630700.00	4178625.00	0.27167	630750.00	4178625.00	0.26474
630800.00	4178625.00	0.25817	630850.00	4178625.00	0.25162
631000.00	4178625.00	0.23328	631050.00	4178625.00	0.22766
631100.00	4178625.00	0.22211	631150.00	4178625.00	0.21670
631200.00	4178625.00	0.21174	631250.00	4178625.00	0.20686
631300.00	4178625.00	0.20207	631350.00	4178625.00	0.19754
631400.00	4178625.00	0.19315	631450.00	4178625.00	0.18897
631500.00	4178625.00	0.18491	631100.00	4175700.00	0.22838
631150.00	4175700.00	0.22345	631200.00	4175700.00	0.21866

631250.00 4175700.00 0.21406 631100.00
4175750.00 0.24138
631150.00 4175750.00 0.23588 629400.00
4179050.00 0.29483
629450.00 4179050.00 0.29412 629500.00
4179050.00 0.29168
629400.00 4179100.00 0.27557 629450.00
4179100.00 0.27522
629400.00 4179150.00 0.25839 629500.00
4179150.00 0.25675
629550.00 4179150.00 0.25452 629600.00
4179150.00 0.25120
629650.00 4179150.00 0.24706 629700.00
4179150.00 0.24205
629800.00 4179200.00 0.22054 629400.00
4179300.00 0.21679
629400.00 4179350.00 0.20554 634375.00
4175350.00 0.07281
634425.00 4175350.00 0.07215 635425.00
4175350.00 0.06057
635425.00 4175400.00 0.06168 635475.00
4175400.00 0.06117
634325.00 4175450.00 0.07691 634475.00
4175450.00 0.07470
634525.00 4175450.00 0.07398 634525.00
4175500.00 0.07557
634325.00 4175550.00 0.08039 634525.00
4175550.00 0.07718
634575.00 4175550.00 0.07641 634775.00
4175550.00 0.07345
634825.00 4175550.00 0.07274 634625.00
4175600.00 0.07720
634675.00 4175600.00 0.07640 634725.00
4175600.00 0.07566
634775.00 4175600.00 0.07489 634825.00
4175600.00 0.07416
634875.00 4175600.00 0.07343 634925.00
4175600.00 0.07272
635375.00 4175600.00 0.06682 634275.00
4175650.00 0.08481
634325.00 4175650.00 0.08390 634575.00
4175650.00 0.07957
634625.00 4175650.00 0.07873 634675.00
4175650.00 0.07794
634725.00 4175650.00 0.07715 634775.00
4175650.00 0.07635
634825.00 4175650.00 0.07561 634875.00
4175650.00 0.07485
634925.00 4175650.00 0.07408 634975.00
4175650.00 0.07337

635025.00 4175650.00 0.07263 635325.00
4175650.00 0.06861
635375.00 4175650.00 0.06798 634475.00
4175700.00 0.08292
634525.00 4175700.00 0.08202 634575.00
4175700.00 0.08114
634625.00 4175700.00 0.08026 634675.00
4175700.00 0.07942

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: OFFSITE4 ***
INCLUDING SOURCE(S): L0006750 , L0006751 , L0006752 , L0006753 , L0006754 ,
L0006755 , L0006756 , L0006757 , L0006758 , L0006759 , L0006760 , L0006761 , L0006762 ,
L0006763 , L0006764 , L0006765 , L0006766 , L0006767 , L0006768 , L0006769 , L0006770 ,
L0006771 , L0006772 , L0006773 , L0006774 , L0006775 , L0006776 , L0006777 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF HRA IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
634725.00	4175700.00	0.07866	634775.00	4175700.00	0.07784
634825.00	4175700.00	0.07701	634875.00	4175700.00	0.07625
634925.00	4175700.00	0.07544	634975.00	4175700.00	0.07471
635025.00	4175700.00	0.07393	635075.00	4175700.00	0.07322
635125.00	4175700.00	0.07250	634425.00	4175750.00	0.08551
634575.00	4175750.00	0.08275	634625.00	4175750.00	0.08185
634675.00	4175750.00	0.08097	634725.00		

4175750.00 0.08014
634775.00 4175750.00 0.07929 634825.00
4175750.00 0.07846
634875.00 4175750.00 0.07761 634925.00
4175750.00 0.07682
634975.00 4175750.00 0.07603 635025.00
4175750.00 0.07523
635075.00 4175750.00 0.07450 635125.00
4175750.00 0.07375
635175.00 4175750.00 0.07298 635225.00
4175750.00 0.07230
634325.00 4175800.00 0.08921 634375.00
4175800.00 0.08820
634425.00 4175800.00 0.08718 634475.00
4175800.00 0.08622
634525.00 4175800.00 0.08526 634575.00
4175800.00 0.08429
634625.00 4175800.00 0.08342 634675.00
4175800.00 0.08247
634725.00 4175800.00 0.08161 634775.00
4175800.00 0.08071
634825.00 4175800.00 0.07989 634875.00
4175800.00 0.07899
634925.00 4175800.00 0.07818 634975.00
4175800.00 0.07736
635025.00 4175800.00 0.07655 635075.00
4175800.00 0.07574
635125.00 4175800.00 0.07496 635175.00
4175800.00 0.07423
635225.00 4175800.00 0.07347 635275.00
4175800.00 0.07275
635325.00 4175800.00 0.07199 634225.00
4175850.00 0.09307
634325.00 4175850.00 0.09096 634375.00
4175850.00 0.08987
634425.00 4175850.00 0.08885 634475.00
4175850.00 0.08785
634525.00 4175850.00 0.08685 634575.00
4175850.00 0.08585
634625.00 4175850.00 0.08496 634675.00
4175850.00 0.08398
634725.00 4175850.00 0.08303 634775.00
4175850.00 0.08219
634825.00 4175850.00 0.08128 634875.00
4175850.00 0.08039
634925.00 4175850.00 0.07950 634975.00
4175850.00 0.07866
635025.00 4175850.00 0.07781 635075.00
4175850.00 0.07701
635125.00 4175850.00 0.07621 635175.00

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4175850.00        0.07542
         635225.00    4175850.00        0.07462                       635275.00
4175850.00        0.07389
         635325.00    4175850.00        0.07312                       635375.00
4175850.00        0.07234
         635425.00    4175850.00        0.07160                       634225.00
4175900.00        0.09489
         634325.00    4175900.00        0.09272                       634375.00
4175900.00        0.09159
         634425.00    4175900.00        0.09047                       634475.00
4175900.00        0.08943
         634525.00    4175900.00        0.08840                       634575.00
4175900.00        0.08739
         634625.00    4175900.00        0.08643                       634675.00
4175900.00        0.08550
         634725.00    4175900.00        0.08451                       634775.00
4175900.00        0.08360
🡅 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                        ***       01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                       ***       15:43:26

                                  PAGE 127
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: OFFSITE4 ***
                                  INCLUDING SOURCE(S):     L0006750    , L0006751
, L0006752    , L0006753    , L0006754    ,
                L0006755    , L0006756    , L0006757    , L0006758    , L0006759
, L0006760    , L0006761    , L0006762    ,
                L0006763    , L0006764    , L0006765    , L0006766    , L0006767
, L0006768    , L0006769    , L0006770    ,
                L0006771    , L0006772    , L0006773    , L0006774    , L0006775
, L0006776    , L0006777    ,  . . .      ,

                                                 *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF HRA      IN MICROGRAMS/M**3
                   **

       X-COORD (M)   Y-COORD (M)        CONC                       X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - -
         634875.00    4175900.00        0.08174                       634925.00
4175900.00        0.08082
         634975.00    4175900.00        0.07997                       635025.00
4175900.00        0.07910
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635075.00 4175900.00 0.07826 635125.00 4175900.00 0.07740
635175.00 4175900.00 0.07659 635225.00 4175900.00 0.07579
635275.00 4175900.00 0.07498 635325.00 4175900.00 0.07424
635375.00 4175900.00 0.07340 635425.00 4175900.00 0.07266
635475.00 4175900.00 0.07190 635525.00 4175900.00 0.07117
634325.00 4175950.00 0.09440 634375.00 4175950.00 0.09328
634425.00 4175950.00 0.09214 634475.00 4175950.00 0.09107
634525.00 4175950.00 0.08999 634575.00 4175950.00 0.08892
634625.00 4175950.00 0.08794 634675.00 4175950.00 0.08696
634875.00 4175950.00 0.08305 634925.00 4175950.00 0.08212
634975.00 4175950.00 0.08124 635025.00 4175950.00 0.08034
635075.00 4175950.00 0.07946 635125.00 4175950.00 0.07861
635175.00 4175950.00 0.07777 635225.00 4175950.00 0.07691
635275.00 4175950.00 0.07613 635325.00 4175950.00 0.07528
635375.00 4175950.00 0.07449 635425.00 4175950.00 0.07371
635475.00 4175950.00 0.07293 635525.00 4175950.00 0.07214
635575.00 4175950.00 0.07140 634725.00 4176000.00 0.08738
634925.00 4176000.00 0.08339 634975.00 4176000.00 0.08250
635025.00 4176000.00 0.08158 635075.00 4176000.00 0.08065
635125.00 4176000.00 0.07977 635175.00 4176000.00 0.07889
635225.00 4176000.00 0.07803 635275.00 4176000.00 0.07722
635325.00 4176000.00 0.07635 635375.00 4176000.00 0.07554
635425.00 4176000.00 0.07471 635475.00 4176000.00 0.07392
635525.00 4176000.00 0.07313 635575.00 4176000.00 0.07234
634825.00 4176050.00 0.08660 634875.00 4176050.00 0.08562

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         634925.00    4176050.00        0.08466                      634975.00
4176050.00        0.08370
         635025.00    4176050.00        0.08274                      635075.00
4176050.00        0.08181
         635125.00    4176050.00        0.08092                      635175.00
4176050.00        0.08001
         635225.00    4176050.00        0.07913                      635275.00
4176050.00        0.07826
         635325.00    4176050.00        0.07739                      635375.00
4176050.00        0.07652
         635425.00    4176050.00        0.07572                      635475.00
4176050.00        0.07488
         635525.00    4176050.00        0.07407                      635575.00
4176050.00        0.07325
         634825.00    4176100.00        0.08786                      634875.00
4176100.00        0.08687
         634925.00    4176100.00        0.08583                      634975.00
4176100.00        0.08485
         635025.00    4176100.00        0.08391                      635075.00
4176100.00        0.08296
         635125.00    4176100.00        0.08201                      635175.00
4176100.00        0.08107
         635225.00    4176100.00        0.08017                      635275.00
4176100.00        0.07928
         635325.00    4176100.00        0.07840                      635375.00
4176100.00        0.07755
 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                          ***        01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                          ***       15:43:26

                                    PAGE 128
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: OFFSITE4 ***
                                    INCLUDING SOURCE(S):     L0006750    , L0006751
, L0006752    , L0006753    , L0006754    ,
                  L0006755    , L0006756    , L0006757    , L0006758    , L0006759
, L0006760    , L0006761    , L0006762    ,
                  L0006763    , L0006764    , L0006765    , L0006766    , L0006767
, L0006768    , L0006769    , L0006770    ,
                  L0006771    , L0006772    , L0006773    , L0006774    , L0006775
, L0006776    , L0006777    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                            ** CONC OF HRA      IN MICROGRAMS/M**3
                    **
```

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
635425.00	4176100.00	0.07664	635475.00	4176100.00	0.07583
635525.00	4176100.00	0.07500	635575.00	4176100.00	0.07419
634825.00	4176150.00	0.08909	634875.00	4176150.00	0.08807
634925.00	4176150.00	0.08700	634975.00	4176150.00	0.08600
635025.00	4176150.00	0.08502	635075.00	4176150.00	0.08402
635125.00	4176150.00	0.08308	635175.00	4176150.00	0.08212
635225.00	4176150.00	0.08115	635275.00	4176150.00	0.08028
635325.00	4176150.00	0.07936	635375.00	4176150.00	0.07848
635425.00	4176150.00	0.07756	635475.00	4176150.00	0.07673
635525.00	4176150.00	0.07588	635575.00	4176150.00	0.07506
634875.00	4176200.00	0.08924	634925.00	4176200.00	0.08815
634975.00	4176200.00	0.08709	635125.00	4176200.00	0.08408
635175.00	4176200.00	0.08313	635225.00	4176200.00	0.08214
635525.00	4176200.00	0.07673	635575.00	4176200.00	0.07586
634325.00	4176250.00	0.10378	634375.00	4176250.00	0.10242
634875.00	4176250.00	0.09034	634925.00	4176250.00	0.08926
634975.00	4176250.00	0.08819	635025.00	4176250.00	0.08713
635075.00	4176250.00	0.08608	635125.00	4176250.00	0.08507
635175.00	4176250.00	0.08407	635225.00	4176250.00	0.08312
635275.00	4176250.00	0.08214	635375.00	4176250.00	0.08022
635425.00	4176250.00	0.07932	635525.00	4176250.00	0.07755
635575.00	4176250.00	0.07668	634875.00	4176300.00	0.09138
634925.00	4176300.00	0.09027	634975.00		

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4176300.00        0.08918
         635025.00    4176300.00        0.08811                        635075.00
4176300.00        0.08705
         635125.00    4176300.00        0.08602                        635175.00
4176300.00        0.08498
         635225.00    4176300.00        0.08399                        635275.00
4176300.00        0.08304
         635375.00    4176300.00        0.08106                        635425.00
4176300.00        0.08013
         635525.00    4176300.00        0.07832                        635575.00
4176300.00        0.07739
         634875.00    4176350.00        0.09236                        634925.00
4176350.00        0.09123
         634975.00    4176350.00        0.09011                        635025.00
4176350.00        0.08902
         635075.00    4176350.00        0.08794                        635125.00
4176350.00        0.08689
         635175.00    4176350.00        0.08583                        635225.00
4176350.00        0.08485
         635275.00    4176350.00        0.08385                        635375.00
4176350.00        0.08185
         635425.00    4176350.00        0.08090                        635525.00
4176350.00        0.07904
         635575.00    4176350.00        0.07810                        634875.00
4176400.00        0.09331
         634925.00    4176400.00        0.09215                        634975.00
4176400.00        0.09101
         635025.00    4176400.00        0.08989                        635075.00
4176400.00        0.08879
         635125.00    4176400.00        0.08772                        635175.00
4176400.00        0.08667
         635225.00    4176400.00        0.08565                        635275.00
4176400.00        0.08464
         635425.00    4176400.00        0.08164                        635525.00
4176400.00        0.07971
 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                          ***       01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                          ***       15:43:26

                                    PAGE 129
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: OFFSITE4 ***
                                    INCLUDING SOURCE(S):     L0006750    , L0006751
, L0006752    , L0006753    , L0006754    ,
                  L0006755    , L0006756    , L0006757    , L0006758    , L0006759
, L0006760    , L0006761    , L0006762    ,
                  L0006763    , L0006764    , L0006765    , L0006766    , L0006767
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, L0006768    , L0006769    , L0006770    ,
                L0006771    , L0006772    , L0006773    , L0006774    , L0006775
, L0006776    , L0006777    ,  . . .      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                      ** CONC OF HRA      IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                       X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - -
         635575.00    4176400.00        0.07880                      633650.00
4176200.00        0.12335
         633700.00    4176200.00        0.12153                      633850.00
4176200.00        0.11636
         633850.00    4176250.00        0.11826                      633950.00
4176250.00        0.11492
         634350.00    4176250.00        0.10312                      633750.00
4176300.00        0.12360
         633950.00    4176300.00        0.11662                      634000.00
4176300.00        0.11497
         634050.00    4176300.00        0.11330                      634050.00
4176350.00        0.11486
         634050.00    4176400.00        0.11629                      634000.00
4176450.00        0.11934
         634050.00    4176450.00        0.11764                      634200.00
4176600.00        0.11584
         634100.00    4176650.00        0.12016                      634150.00
4176650.00        0.11843
         634200.00    4176650.00        0.11667                      634200.00
4176850.00        0.11902
         634200.00    4176900.00        0.11935                      634250.00
4176900.00        0.11759
         634300.00    4176900.00        0.11585                      634400.00
4177000.00        0.11281
         634450.00    4177000.00        0.11112                      634500.00
4177000.00        0.10954
         634550.00    4177000.00        0.10801                      634400.00
4177050.00        0.11286
         634450.00    4177050.00        0.11111                      634500.00
4177050.00        0.10964
         634550.00    4177050.00        0.10812                      633750.00
4173175.00        0.03110
         634450.00    4173325.00        0.03058                      634450.00
4173375.00        0.03108
         634350.00    4173475.00        0.03243                      634300.00
4173625.00        0.03443
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         634300.00    4173675.00        0.03509                    634350.00
4173675.00        0.03491
         634250.00    4173775.00        0.03661                    633950.00
4173825.00        0.03856
         634050.00    4173825.00        0.03812                    634100.00
4173825.00        0.03791
         634250.00    4173825.00        0.03732                    634250.00
4173975.00        0.03954
         634150.00    4174125.00        0.04243                    634200.00
4174125.00        0.04220
         634250.00    4174125.00        0.04198                    634250.00
4174225.00        0.04378
         634350.00    4174225.00        0.04333                    634400.00
4174225.00        0.04311
         634200.00    4174325.00        0.04599                    634250.00
4174325.00        0.04573
         634200.00    4174375.00        0.04705                    634250.00
4174425.00        0.04786
         634000.00    4174475.00        0.05048                    634250.00
4174525.00        0.05014
         634100.00    4174575.00        0.05231                    634150.00
4174575.00        0.05198
         634200.00    4174575.00        0.05166                    634250.00
4174575.00        0.05134
         634250.00    4174625.00        0.05258                    634250.00
4174675.00        0.05386
         634250.00    4174825.00        0.05791                    634250.00
4174875.00        0.05934
         634200.00    4174925.00        0.06125                    634250.00
4174925.00        0.06080
         631950.00    4173950.00        0.04570                    631550.00
4174000.00        0.04882
         631550.00    4174050.00        0.05068                    631750.00
4174250.00        0.05729
         632300.00    4174300.00        0.05685                    632350.00
4174300.00        0.05645
         632300.00    4174350.00        0.05841                    632350.00
4174350.00        0.05802
         631600.00    4174400.00        0.06418                    631650.00
4174400.00        0.06439
         632000.00    4174400.00        0.06286                    632000.00
4174450.00        0.06477
         631950.00    4174500.00        0.06753                    632150.00
4174950.00        0.08788
 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                        ***        01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                        ***       15:43:26
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: OFFSITE4 ***
                                  INCLUDING SOURCE(S):     L0006750    , L0006751
, L0006752    , L0006753    , L0006754    ,
                  L0006755    , L0006756    , L0006757    , L0006758    , L0006759
, L0006760    , L0006761    , L0006762    ,
                  L0006763    , L0006764    , L0006765    , L0006766    , L0006767
, L0006768    , L0006769    , L0006770    ,
                  L0006771    , L0006772    , L0006773    , L0006774    , L0006775
, L0006776    , L0006777    ,  . . .      ,

                                             *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF HRA      IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                        X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -
         632200.00    4174950.00        0.08697

 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                        ***        01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                       ***        15:43:26

                                  PAGE 131
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: OFFSITE5 ***
                                  INCLUDING SOURCE(S):     L0006998    , L0006999
, L0007000    , L0007001    , L0007002    ,
                  L0007003    , L0007004    , L0007005    , L0007006    , L0007007
, L0007008    , L0007009    , L0007010    ,
                  L0007011    , L0007012    , L0007013    , L0007014    , L0007015
, L0007016    , L0007017    , L0007018    ,
                  L0007019    , L0007020    , L0007021    , L0007022    , L0007023
, L0007024    , L0007025    ,  . . .      ,

                                             *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF HRA      IN MICROGRAMS/M**3
                  **
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X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
631050.00	4178050.00	0.10898	631150.00	4178250.00	0.09776
631250.00	4178250.00	0.09149	631350.00	4178250.00	0.08708
631450.00	4178250.00	0.08497	631550.00	4178250.00	0.08433
631650.00	4178250.00	0.08425	631750.00	4178250.00	0.08402
631150.00	4178350.00	0.09544	631450.00	4178350.00	0.08087
631550.00	4178350.00	0.07913	631650.00	4178350.00	0.07876
631750.00	4178350.00	0.07864	630650.00	4178450.00	0.09749
630850.00	4178450.00	0.09625	631050.00	4178450.00	0.09309
631150.00	4178450.00	0.09172	631250.00	4178450.00	0.08837
631550.00	4178450.00	0.07527	631650.00	4178450.00	0.07389
631750.00	4178450.00	0.07345	631850.00	4178450.00	0.07342
631950.00	4178450.00	0.07331	632050.00	4178450.00	0.07275
632150.00	4178450.00	0.07128	630550.00	4178550.00	0.08820
630650.00	4178550.00	0.09029	630750.00	4178550.00	0.09198
630950.00	4178550.00	0.08924	631050.00	4178550.00	0.08774
631250.00	4178550.00	0.08559	631350.00	4178550.00	0.08202
631450.00	4178550.00	0.07735	631550.00	4178550.00	0.07302
631650.00	4178550.00	0.07037	631750.00	4178550.00	0.06925
631850.00	4178550.00	0.06889	631950.00	4178550.00	0.06886
632050.00	4178550.00	0.06889	632150.00	4178550.00	0.06837
630450.00	4178650.00	0.08171	630550.00	4178650.00	0.08222
630650.00	4178650.00	0.08381	630750.00	4178650.00	0.08582
630850.00	4178650.00	0.08658	630950.00	4178650.00	0.08530

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         631050.00    4178650.00        0.08330                        631150.00
4178650.00        0.08227
         631250.00    4178650.00        0.08175                        631350.00
4178650.00        0.07988
         631450.00    4178650.00        0.07626                        631550.00
4178650.00        0.07190
         631650.00    4178650.00        0.06822                        631750.00
4178650.00        0.06596
         631850.00    4178650.00        0.06509                        631950.00
4178650.00        0.06477
         632050.00    4178650.00        0.06483                        632150.00
4178650.00        0.06485
         630350.00    4178750.00        0.08163                        630450.00
4178750.00        0.07756
         630550.00    4178750.00        0.07705                        630650.00
4178750.00        0.07815
         630750.00    4178750.00        0.08000                        630850.00
4178750.00        0.08154
         630950.00    4178750.00        0.08144                        631050.00
4178750.00        0.07965
         631150.00    4178750.00        0.07799                        631250.00
4178750.00        0.07746
         631350.00    4178750.00        0.07680                        631450.00
4178750.00        0.07468
         631550.00    4178750.00        0.07112                        631650.00
4178750.00        0.06717
         631750.00    4178750.00        0.06388                        631850.00
4178750.00        0.06202
         631950.00    4178750.00        0.06128                        632050.00
4178750.00        0.06106
         632150.00    4178750.00        0.06111                        630250.00
4178850.00        0.08579
         630350.00    4178850.00        0.07936                        630450.00
4178850.00        0.07433
 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                        ***        01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                       ***        15:43:26

                                  PAGE 132
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: OFFSITE5 ***
                                  INCLUDING SOURCE(S):     L0006998    , L0006999
, L0007000    , L0007001    , L0007002    ,
                  L0007003    , L0007004    , L0007005    , L0007006    , L0007007
, L0007008    , L0007009    , L0007010    ,
                  L0007011    , L0007012    , L0007013    , L0007014    , L0007015
, L0007016    , L0007017    , L0007018    ,
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L0007019 , L0007020 , L0007021 , L0007022 , L0007023
, L0007024 , L0007025 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS
***

** CONC OF HRA IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
630550.00	4178850.00	0.07269	630650.00	4178850.00	0.07310
630750.00	4178850.00	0.07474	630850.00	4178850.00	0.07646
630950.00	4178850.00	0.07736	631050.00	4178850.00	0.07642
631150.00	4178850.00	0.07449	631250.00	4178850.00	0.07330
631350.00	4178850.00	0.07302	631450.00	4178850.00	0.07220
631550.00	4178850.00	0.06994	631650.00	4178850.00	0.06648
631750.00	4178850.00	0.06280	631850.00	4178850.00	0.06001
631950.00	4178850.00	0.05848	632050.00	4178850.00	0.05785
632150.00	4178850.00	0.05770	630250.00	4178950.00	0.08302
630350.00	4178950.00	0.07737	630450.00	4178950.00	0.07171
630550.00	4178950.00	0.06906	630650.00	4178950.00	0.06879
630750.00	4178950.00	0.06998	630850.00	4178950.00	0.07157
630950.00	4178950.00	0.07306	631050.00	4178950.00	0.07311
631150.00	4178950.00	0.07165	631250.00	4178950.00	0.06993
631350.00	4178950.00	0.06925	631450.00	4178950.00	0.06901
631550.00	4178950.00	0.06801	631650.00	4178950.00	0.06566
631750.00	4178950.00	0.06226	631850.00	4178950.00	0.05887
631950.00	4178950.00	0.05652	632050.00	4178950.00	0.05521
632150.00	4178950.00	0.05474	629950.00		

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4179050.00        0.08213
         630250.00    4179050.00        0.08007                    630350.00
4179050.00        0.07543
         630450.00    4179050.00        0.06978                    630550.00
4179050.00        0.06608
         630650.00    4179050.00        0.06501                    630750.00
4179050.00        0.06570
         630850.00    4179050.00        0.06709                    630950.00
4179050.00        0.06870
         631050.00    4179050.00        0.06957                    631150.00
4179050.00        0.06896
         631250.00    4179050.00        0.06725                    631350.00
4179050.00        0.06593
         631450.00    4179050.00        0.06563                    631550.00
4179050.00        0.06532
         631650.00    4179050.00        0.06409                    631750.00
4179050.00        0.06161
         631850.00    4179050.00        0.05838                    631950.00
4179050.00        0.05545
         632050.00    4179050.00        0.05334                    632150.00
4179050.00        0.05228
         629850.00    4179150.00        0.07983                    629950.00
4179150.00        0.07825
         630150.00    4179150.00        0.07747                    630250.00
4179150.00        0.07685
         630350.00    4179150.00        0.07341                    630450.00
4179150.00        0.06807
         630550.00    4179150.00        0.06373                    630650.00
4179150.00        0.06195
         630750.00    4179150.00        0.06202                    630850.00
4179150.00        0.06304
         630950.00    4179150.00        0.06447                    631050.00
4179150.00        0.06578
         631150.00    4179150.00        0.06608                    631250.00
4179150.00        0.06495
         631350.00    4179150.00        0.06327                    631450.00
4179150.00        0.06244
         631550.00    4179150.00        0.06228                    631650.00
4179150.00        0.06191
         631750.00    4179150.00        0.06054                    631850.00
4179150.00        0.05804
         631950.00    4179150.00        0.05475                    632050.00
4179150.00        0.05229
 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                          ***        01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                          ***       15:43:26

                                  PAGE 133
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*
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*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: OFFSITE5 ***

INCLUDING SOURCE(S): L0006998 , L0006999 , L0007000 , L0007001 , L0007002 , L0007003 , L0007004 , L0007005 , L0007006 , L0007007 , L0007008 , L0007009 , L0007010 , L0007011 , L0007012 , L0007013 , L0007014 , L0007015 , L0007016 , L0007017 , L0007018 , L0007019 , L0007020 , L0007021 , L0007022 , L0007023 , L0007024 , L0007025 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF HRA IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
632150.00	4179150.00	0.05047	630850.00	4179250.00	0.05949
630950.00	4179250.00	0.06067	631050.00	4177625.00	0.14090
631100.00	4177725.00	0.12876	631100.00	4177825.00	0.11858
631350.00	4178225.00	0.08801	631400.00	4178225.00	0.08690
631450.00	4178225.00	0.08627	631500.00	4178225.00	0.08595
631100.00	4178275.00	0.10006	631150.00	4178275.00	0.09733
631200.00	4178275.00	0.09420	631250.00	4178275.00	0.09115
631300.00	4178275.00	0.08846	631350.00	4178275.00	0.08631
631400.00	4178275.00	0.08481	631450.00	4178275.00	0.08384
631500.00	4178275.00	0.08328	630950.00	4178325.00	0.10148
631100.00	4178325.00	0.09839	631150.00	4178325.00	0.09614
631200.00	4178325.00	0.09351	631250.00	4178325.00	0.09050
631300.00	4178325.00	0.08770	631400.00	4178325.00	0.08311
631450.00	4178325.00	0.08179	631500.00	4178325.00	0.08089

630950.00 4178375.00 0.09835 631200.00 4178375.00 0.09240
631300.00 4178375.00 0.08693 631400.00 4178375.00 0.08192
631450.00 4178375.00 0.08009 631500.00 4178375.00 0.07885
630800.00 4178425.00 0.09870 630850.00 4178425.00 0.09748
631050.00 4178425.00 0.09450 631200.00 4178425.00 0.09112
631250.00 4178425.00 0.08892 631300.00 4178425.00 0.08630
630650.00 4178475.00 0.09565 630800.00 4178475.00 0.09612
630850.00 4178475.00 0.09503 631050.00 4178475.00 0.09169
631200.00 4178475.00 0.08955 631250.00 4178475.00 0.08780
631300.00 4178475.00 0.08554 631450.00 4178475.00 0.07806
631500.00 4178475.00 0.07606 630550.00 4178525.00 0.08985
630600.00 4178525.00 0.09098 630650.00 4178525.00 0.09192
630700.00 4178525.00 0.09298 630750.00 4178525.00 0.09353
630950.00 4178525.00 0.09031 631050.00 4178525.00 0.08902
631200.00 4178525.00 0.08765 631250.00 4178525.00 0.08640
631300.00 4178525.00 0.08459 631350.00 4178525.00 0.08239
631400.00 4178525.00 0.07993 631450.00 4178525.00 0.07758
631500.00 4178525.00 0.07528 630500.00 4178575.00 0.08585
630550.00 4178575.00 0.08663 630600.00 4178575.00 0.08762
630650.00 4178575.00 0.08847 630700.00 4178575.00 0.08962
630750.00 4178575.00 0.09047 630800.00 4178575.00 0.09060
630850.00 4178575.00 0.09022 631000.00 4178575.00 0.08727
631050.00 4178575.00 0.08654 631200.00 4178575.00 0.08553
631250.00 4178575.00 0.08471 631300.00 4178575.00 0.08339
631350.00 4178575.00 0.08155 631400.00 4178575.00 0.07941

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: OFFSITE5 ***
INCLUDING SOURCE(S): L0006998 , L0006999 , L0007000 , L0007001 , L0007002 ,
L0007003 , L0007004 , L0007005 , L0007006 , L0007007 , L0007008 , L0007009 , L0007010 ,
L0007011 , L0007012 , L0007013 , L0007014 , L0007015 , L0007016 , L0007017 , L0007018 ,
L0007019 , L0007020 , L0007021 , L0007022 , L0007023 , L0007024 , L0007025 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF HRA IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
630500.00	4178625.00	0.08296	630550.00	4178625.00	0.08363
630600.00	4178625.00	0.08445	630650.00	4178625.00	0.08528
630700.00	4178625.00	0.08643	630750.00	4178625.00	0.08734
630800.00	4178625.00	0.08792	630850.00	4178625.00	0.08791
631000.00	4178625.00	0.08521	631050.00	4178625.00	0.08431
631100.00	4178625.00	0.08372	631150.00	4178625.00	0.08340
631200.00	4178625.00	0.08322	631250.00	4178625.00	0.08278
631300.00	4178625.00	0.08188	631350.00	4178625.00	0.08052
631400.00	4178625.00	0.07869	631450.00	4178625.00	0.07656
631500.00	4178625.00	0.07429	631100.00		

4175700.00 0.67741
631150.00 4175700.00 0.65035 631200.00
4175700.00 0.62523
631250.00 4175700.00 0.60127 631100.00
4175750.00 0.70235
631150.00 4175750.00 0.67315 629400.00
4179050.00 0.08503
629450.00 4179050.00 0.08438 629500.00
4179050.00 0.08385
629400.00 4179100.00 0.08283 629450.00
4179100.00 0.08221
629400.00 4179150.00 0.08070 629500.00
4179150.00 0.07957
629550.00 4179150.00 0.07942 629600.00
4179150.00 0.07958
629650.00 4179150.00 0.07997 629700.00
4179150.00 0.08034
629800.00 4179200.00 0.07850 629400.00
4179300.00 0.07482
629400.00 4179350.00 0.07303 634375.00
4175350.00 0.12086
634425.00 4175350.00 0.11913 635425.00
4175350.00 0.09104
635425.00 4175400.00 0.09204 635475.00
4175400.00 0.09090
634325.00 4175450.00 0.12641 634475.00
4175450.00 0.12081
634525.00 4175450.00 0.11902 634525.00
4175500.00 0.12055
634325.00 4175550.00 0.12980 634525.00
4175550.00 0.12203
634575.00 4175550.00 0.12020 634775.00
4175550.00 0.11333
634825.00 4175550.00 0.11170 634625.00
4175600.00 0.11979
634675.00 4175600.00 0.11799 634725.00
4175600.00 0.11629
634775.00 4175600.00 0.11457 634825.00
4175600.00 0.11295
634875.00 4175600.00 0.11133 634925.00
4175600.00 0.10977
635375.00 4175600.00 0.09723 634275.00
4175650.00 0.13509
634325.00 4175650.00 0.13295 634575.00
4175650.00 0.12298
634625.00 4175650.00 0.12110 634675.00
4175650.00 0.11933
634725.00 4175650.00 0.11758 634775.00
4175650.00 0.11583
634825.00 4175650.00 0.11421 634875.00

4175650.00 0.11256
634925.00 4175650.00 0.11094 634975.00
4175650.00 0.10941
635025.00 4175650.00 0.10785 635325.00
4175650.00 0.09952
635375.00 4175650.00 0.09824 634475.00
4175700.00 0.12819
634525.00 4175700.00 0.12620 634575.00
4175700.00 0.12427
634625.00 4175700.00 0.12234 634675.00
4175700.00 0.12053

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: OFFSITE5 ***
INCLUDING SOURCE(S): L0006998 , L0006999 , L0007000 , L0007001 , L0007002 ,
L0007003 , L0007004 , L0007005 , L0007006 , L0007007 , L0007008 , L0007009 , L0007010 ,
L0007011 , L0007012 , L0007013 , L0007014 , L0007015 , L0007016 , L0007017 , L0007018 ,
L0007019 , L0007020 , L0007021 , L0007022 , L0007023 , L0007024 , L0007025 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF HRA IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
634725.00	4175700.00	0.11884	634775.00	4175700.00	0.11709
634825.00	4175700.00	0.11534	634875.00	4175700.00	0.11374
634925.00	4175700.00	0.11205	634975.00	4175700.00	0.11051
635025.00	4175700.00	0.10891	635075.00	4175700.00	0.10745
635125.00	4175700.00	0.10598	634425.00	4175750.00	0.13150

634575.00 4175750.00 0.12551 634625.00 4175750.00 0.12360
634675.00 4175750.00 0.12173 634725.00 4175750.00 0.11998
634775.00 4175750.00 0.11819 634825.00 4175750.00 0.11648
634875.00 4175750.00 0.11474 634925.00 4175750.00 0.11311
634975.00 4175750.00 0.11150 635025.00 4175750.00 0.10991
635075.00 4175750.00 0.10842 635125.00 4175750.00 0.10694
635175.00 4175750.00 0.10542 635225.00 4175750.00 0.10406
634325.00 4175800.00 0.13694 634375.00 4175800.00 0.13476
634425.00 4175800.00 0.13257 634475.00 4175800.00 0.13054
634525.00 4175800.00 0.12851 634575.00 4175800.00 0.12648
634625.00 4175800.00 0.12466 634675.00 4175800.00 0.12270
634725.00 4175800.00 0.12093 634775.00 4175800.00 0.11911
634825.00 4175800.00 0.11743 634875.00 4175800.00 0.11565
634925.00 4175800.00 0.11403 634975.00 4175800.00 0.11241
635025.00 4175800.00 0.11080 635075.00 4175800.00 0.10923
635125.00 4175800.00 0.10772 635175.00 4175800.00 0.10628
635225.00 4175800.00 0.10483 635275.00 4175800.00 0.10345
635325.00 4175800.00 0.10202 634225.00 4175850.00 0.14226
634325.00 4175850.00 0.13778 634375.00 4175850.00 0.13552
634425.00 4175850.00 0.13339 634475.00 4175850.00 0.13132
634525.00 4175850.00 0.12928 634575.00 4175850.00 0.12727
634625.00 4175850.00 0.12544 634675.00 4175850.00 0.12349
634725.00 4175850.00 0.12161 634775.00 4175850.00 0.11992
634825.00 4175850.00 0.11813 634875.00 4175850.00 0.11640
634925.00 4175850.00 0.11468 634975.00 4175850.00 0.11306

```
         635025.00    4175850.00        0.11144                      635075.00
4175850.00        0.10991
         635125.00    4175850.00        0.10839                      635175.00
4175850.00        0.10692
         635225.00    4175850.00        0.10542                      635275.00
4175850.00        0.10405
         635325.00    4175850.00        0.10264                      635375.00
4175850.00        0.10121
         635425.00    4175850.00        0.09987                      634225.00
4175900.00        0.14276
         634325.00    4175900.00        0.13830                      634375.00
4175900.00        0.13604
         634425.00    4175900.00        0.13381                      634475.00
4175900.00        0.13173
         634525.00    4175900.00        0.12970                      634575.00
4175900.00        0.12771
         634625.00    4175900.00        0.12582                      634675.00
4175900.00        0.12402
         634725.00    4175900.00        0.12211                      634775.00
4175900.00        0.12036
 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                          ***       01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                          ***       15:43:26

                                    PAGE 136
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: OFFSITE5 ***
                                    INCLUDING SOURCE(S):     L0006998    , L0006999
, L0007000    , L0007001    , L0007002    ,
                   L0007003    , L0007004    , L0007005    , L0007006    , L0007007
, L0007008    , L0007009    , L0007010    ,
                   L0007011    , L0007012    , L0007013    , L0007014    , L0007015
, L0007016    , L0007017    , L0007018    ,
                   L0007019    , L0007020    , L0007021    , L0007022    , L0007023
, L0007024    , L0007025    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                    ** CONC OF HRA      IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                         X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -
         634875.00    4175900.00        0.11684                      634925.00
```

4175900.00 0.11512
634975.00 4175900.00 0.11351 635025.00
4175900.00 0.11190
635075.00 4175900.00 0.11035 635125.00
4175900.00 0.10878
635175.00 4175900.00 0.10730 635225.00
4175900.00 0.10585
635275.00 4175900.00 0.10439 635325.00
4175900.00 0.10305
635375.00 4175900.00 0.10157 635425.00
4175900.00 0.10024
635475.00 4175900.00 0.09891 635525.00
4175900.00 0.09763
634325.00 4175950.00 0.13827 634375.00
4175950.00 0.13610
634425.00 4175950.00 0.13392 634475.00
4175950.00 0.13185
634525.00 4175950.00 0.12980 634575.00
4175950.00 0.12780
634625.00 4175950.00 0.12594 634675.00
4175950.00 0.12411
634875.00 4175950.00 0.11692 634925.00
4175950.00 0.11523
634975.00 4175950.00 0.11364 635025.00
4175950.00 0.11202
635075.00 4175950.00 0.11045 635125.00
4175950.00 0.10894
635175.00 4175950.00 0.10747 635225.00
4175950.00 0.10595
635275.00 4175950.00 0.10459 635325.00
4175950.00 0.10311
635375.00 4175950.00 0.10176 635425.00
4175950.00 0.10041
635475.00 4175950.00 0.09908 635525.00
4175950.00 0.09773
635575.00 4175950.00 0.09649 634725.00
4176000.00 0.12198
634925.00 4176000.00 0.11497 634975.00
4176000.00 0.11343
635025.00 4176000.00 0.11185 635075.00
4176000.00 0.11024
635125.00 4176000.00 0.10875 635175.00
4176000.00 0.10725
635225.00 4176000.00 0.10580 635275.00
4176000.00 0.10443
635325.00 4176000.00 0.10298 635375.00
4176000.00 0.10163
635425.00 4176000.00 0.10026 635475.00
4176000.00 0.09895
635525.00 4176000.00 0.09766 635575.00

```
4176000.00        0.09636
         634825.00    4176050.00        0.11762                        634875.00
4176050.00        0.11598
         634925.00    4176050.00        0.11438                        634975.00
4176050.00        0.11280
         635025.00    4176050.00        0.11122                        635075.00
4176050.00        0.10968
         635125.00    4176050.00        0.10823                        635175.00
4176050.00        0.10676
         635225.00    4176050.00        0.10533                        635275.00
4176050.00        0.10392
         635325.00    4176050.00        0.10253                        635375.00
4176050.00        0.10114
         635425.00    4176050.00        0.09987                        635475.00
4176050.00        0.09854
         635525.00    4176050.00        0.09727                        635575.00
4176050.00        0.09598
         634825.00    4176100.00        0.11649                        634875.00
4176100.00        0.11491
         634925.00    4176100.00        0.11328                        634975.00
4176100.00        0.11174
         635025.00    4176100.00        0.11027                        635075.00
4176100.00        0.10878
         635125.00    4176100.00        0.10731                        635175.00
4176100.00        0.10585
         635225.00    4176100.00        0.10447                        635275.00
4176100.00        0.10310
         635325.00    4176100.00        0.10175                        635375.00
4176100.00        0.10045
 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                          ***       01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                          ***       15:43:26

                                    PAGE 137
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: OFFSITE5 ***
                                    INCLUDING SOURCE(S):     L0006998    , L0006999
, L0007000    , L0007001    , L0007002    ,
                  L0007003    , L0007004    , L0007005    , L0007006    , L0007007
, L0007008    , L0007009    , L0007010    ,
                  L0007011    , L0007012    , L0007013    , L0007014    , L0007015
, L0007016    , L0007017    , L0007018    ,
                  L0007019    , L0007020    , L0007021    , L0007022    , L0007023
, L0007024    , L0007025    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***
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** CONC OF HRA IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
635425.00	4176100.00	0.09907	635475.00	4176100.00	0.09784
635525.00	4176100.00	0.09659	635575.00	4176100.00	0.09537
634825.00	4176150.00	0.11491	634875.00	4176150.00	0.11340
634925.00	4176150.00	0.11180	634975.00	4176150.00	0.11033
635025.00	4176150.00	0.10889	635075.00	4176150.00	0.10741
635125.00	4176150.00	0.10604	635175.00	4176150.00	0.10463
635225.00	4176150.00	0.10321	635275.00	4176150.00	0.10194
635325.00	4176150.00	0.10061	635375.00	4176150.00	0.09934
635425.00	4176150.00	0.09801	635475.00	4176150.00	0.09682
635525.00	4176150.00	0.09560	635575.00	4176150.00	0.09442
634875.00	4176200.00	0.11147	634925.00	4176200.00	0.10994
634975.00	4176200.00	0.10848	635125.00	4176200.00	0.10433
635175.00	4176200.00	0.10303	635225.00	4176200.00	0.10167
635525.00	4176200.00	0.09429	635575.00	4176200.00	0.09311
634325.00	4176250.00	0.12649	634375.00	4176250.00	0.12472
634875.00	4176250.00	0.10907	634925.00	4176250.00	0.10769
634975.00	4176250.00	0.10631	635025.00	4176250.00	0.10495
635075.00	4176250.00	0.10360	635125.00	4176250.00	0.10231
635175.00	4176250.00	0.10101	635225.00	4176250.00	0.09980
635275.00	4176250.00	0.09855	635375.00	4176250.00	0.09609
635425.00	4176250.00	0.09494	635525.00	4176250.00	0.09269

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         635575.00    4176250.00        0.09159                        634875.00
4176300.00        0.10628
         634925.00    4176300.00        0.10496                        634975.00
4176300.00        0.10368
         635025.00    4176300.00        0.10241                        635075.00
4176300.00        0.10115
         635125.00    4176300.00        0.09993                        635175.00
4176300.00        0.09868
         635225.00    4176300.00        0.09751                        635275.00
4176300.00        0.09639
         635375.00    4176300.00        0.09403                        635425.00
4176300.00        0.09293
         635525.00    4176300.00        0.09078                        635575.00
4176300.00        0.08967
         634875.00    4176350.00        0.10314                        634925.00
4176350.00        0.10191
         634975.00    4176350.00        0.10070                        635025.00
4176350.00        0.09951
         635075.00    4176350.00        0.09833                        635125.00
4176350.00        0.09718
         635175.00    4176350.00        0.09601                        635225.00
4176350.00        0.09496
         635275.00    4176350.00        0.09386                        635375.00
4176350.00        0.09165
         635425.00    4176350.00        0.09062                        635525.00
4176350.00        0.08857
         635575.00    4176350.00        0.08753                        634875.00
4176400.00        0.09978
         634925.00    4176400.00        0.09862                        634975.00
4176400.00        0.09749
         635025.00    4176400.00        0.09637                        635075.00
4176400.00        0.09528
         635125.00    4176400.00        0.09421                        635175.00
4176400.00        0.09316
         635225.00    4176400.00        0.09213                        635275.00
4176400.00        0.09112
         635425.00    4176400.00        0.08807                        635525.00
4176400.00        0.08610
 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                          ***       01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                          ***      15:43:26

                                   PAGE 138
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: OFFSITE5 ***
                                   INCLUDING SOURCE(S):     L0006998    , L0006999
, L0007000    , L0007001    , L0007002    ,
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                 L0007003    , L0007004    , L0007005    , L0007006    , L0007007
, L0007008    , L0007009    , L0007010    ,
                 L0007011    , L0007012    , L0007013    , L0007014    , L0007015
, L0007016    , L0007017    , L0007018    ,
                 L0007019    , L0007020    , L0007021    , L0007022    , L0007023
, L0007024    , L0007025    ,  . . .      ,

                                              *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF HRA      IN MICROGRAMS/M**3
                   **

       X-COORD (M)   Y-COORD (M)        CONC                       X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - -
         635575.00    4176400.00        0.08519                      633650.00
4176200.00        0.16023
         633700.00    4176200.00        0.15756                      633850.00
4176200.00        0.15002
         633850.00    4176250.00        0.14546                      633950.00
4176250.00        0.14106
         634350.00    4176250.00        0.12563                      633750.00
4176300.00        0.14456
         633950.00    4176300.00        0.13624                      634000.00
4176300.00        0.13428
         634050.00    4176300.00        0.13228                      634050.00
4176350.00        0.12746
         634050.00    4176400.00        0.12252                      634000.00
4176450.00        0.11934
         634050.00    4176450.00        0.11777                      634200.00
4176600.00        0.10215
         634100.00    4176650.00        0.10236                      634150.00
4176650.00        0.10096
         634200.00    4176650.00        0.09952                      634200.00
4176850.00        0.09173
         634200.00    4176900.00        0.08976                      634250.00
4176900.00        0.08867
         634300.00    4176900.00        0.08756                      634400.00
4177000.00        0.08169
         634450.00    4177000.00        0.08072                      634500.00
4177000.00        0.07984
         634550.00    4177000.00        0.07897                      634400.00
4177050.00        0.07964
         634450.00    4177050.00        0.07871                      634500.00
4177050.00        0.07801
         634550.00    4177050.00        0.07724                      633750.00
4173175.00        0.04352
         634450.00    4173325.00        0.04294                      634450.00
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4173375.00        0.04399
         634350.00    4173475.00        0.04660                    634300.00
4173625.00        0.05039
         634300.00    4173675.00        0.05162                    634350.00
4173675.00        0.05133
         634250.00    4173775.00        0.05455                    633950.00
4173825.00        0.05799
         634050.00    4173825.00        0.05731                    634100.00
4173825.00        0.05697
         634250.00    4173825.00        0.05596                    634250.00
4173975.00        0.06078
         634150.00    4174125.00        0.06737                    634200.00
4174125.00        0.06702
         634250.00    4174125.00        0.06668                    634250.00
4174225.00        0.07112
         634350.00    4174225.00        0.07032                    634400.00
4174225.00        0.06991
         634200.00    4174325.00        0.07638                    634250.00
4174325.00        0.07587
         634200.00    4174375.00        0.07893                    634250.00
4174425.00        0.08085
         634000.00    4174475.00        0.08684                    634250.00
4174525.00        0.08590
         634100.00    4174575.00        0.09092                    634150.00
4174575.00        0.09008
         634200.00    4174575.00        0.08925                    634250.00
4174575.00        0.08842
         634250.00    4174625.00        0.09089                    634250.00
4174675.00        0.09331
         634250.00    4174825.00        0.10036                    634250.00
4174875.00        0.10271
         634200.00    4174925.00        0.10643                    634250.00
4174925.00        0.10511
         631950.00    4173950.00        0.08143                    631550.00
4174000.00        0.09163
         631550.00    4174050.00        0.09469                    631750.00
4174250.00        0.10547
         632300.00    4174300.00        0.09908                    632350.00
4174300.00        0.09826
         632300.00    4174350.00        0.10298                    632350.00
4174350.00        0.10212
         631600.00    4174400.00        0.12285                    631650.00
4174400.00        0.12185
         632000.00    4174400.00        0.11308                    632000.00
4174450.00        0.11781
         631950.00    4174500.00        0.12407                    632150.00
4174950.00        0.18594
 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                          ***       01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
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                            *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: OFFSITE5 ***
                                INCLUDING SOURCE(S):   L0006998   , L0006999
, L0007000   , L0007001   , L0007002   ,
                  L0007003   , L0007004   , L0007005   , L0007006   , L0007007
, L0007008   , L0007009   , L0007010   ,
                  L0007011   , L0007012   , L0007013   , L0007014   , L0007015
, L0007016   , L0007017   , L0007018   ,
                  L0007019   , L0007020   , L0007021   , L0007022   , L0007023
, L0007024   , L0007025   , . . .   ,

                                            *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                         ** CONC OF HRA   IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 -
- -
         632200.00   4174950.00   0.18369

                            *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ONSITE   ***
                                INCLUDING SOURCE(S):   L0007410   , L0007411
, L0007412   , L0007413   , L0007414   ,
                  L0007415   , L0007416   , L0007417   , L0007418   , L0007419
, L0007420   , L0007421   , L0007422   ,
                  L0007423   , L0007424   , L0007425   , L0007426   , L0007427
, L0007428   , L0007429   , L0007430   ,
                  L0007431   , L0007432   , L0007433   , L0007434   , L0007435
, L0007436   , L0007437   , . . .   ,

                                            *** DISCRETE CARTESIAN RECEPTOR POINTS
***

** CONC OF HRA IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
631050.00	4178050.00	0.09506	631150.00	4178250.00	0.09330
631250.00	4178250.00	0.09708	631350.00	4178250.00	0.10090
631450.00	4178250.00	0.10475	631550.00	4178250.00	0.10866
631650.00	4178250.00	0.11260	631750.00	4178250.00	0.11639
631150.00	4178350.00	0.09002	631450.00	4178350.00	0.10031
631550.00	4178350.00	0.10382	631650.00	4178350.00	0.10738
631750.00	4178350.00	0.11063	630650.00	4178450.00	0.07156
630850.00	4178450.00	0.07765	631050.00	4178450.00	0.08375
631150.00	4178450.00	0.08677	631250.00	4178450.00	0.08983
631550.00	4178450.00	0.09923	631650.00	4178450.00	0.10230
631750.00	4178450.00	0.10505	631850.00	4178450.00	0.10750
631950.00	4178450.00	0.10971	632050.00	4178450.00	0.11210
632150.00	4178450.00	0.11491	630550.00	4178550.00	0.06714
630650.00	4178550.00	0.06988	630750.00	4178550.00	0.07265
630950.00	4178550.00	0.07813	631050.00	4178550.00	0.08089
631250.00	4178550.00	0.08640	631350.00	4178550.00	0.08923
631450.00	4178550.00	0.09214	631550.00	4178550.00	0.09494
631650.00	4178550.00	0.09758	631750.00	4178550.00	0.09994
631850.00	4178550.00	0.10195	631950.00	4178550.00	0.10391
632050.00	4178550.00	0.10622	632150.00	4178550.00	0.10888
630450.00	4178650.00	0.06316	630550.00	4178650.00	0.06567
630650.00	4178650.00	0.06813	630750.00		

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4178650.00        0.07063
         630850.00    4178650.00        0.07312                        630950.00
4178650.00        0.07560
         631050.00    4178650.00        0.07810                        631150.00
4178650.00        0.08058
         631250.00    4178650.00        0.08312                        631350.00
4178650.00        0.08571
         631450.00    4178650.00        0.08833                        631550.00
4178650.00        0.09086
         631650.00    4178650.00        0.09314                        631750.00
4178650.00        0.09507
         631850.00    4178650.00        0.09687                        631950.00
4178650.00        0.09862
         632050.00    4178650.00        0.10083                        632150.00
4178650.00        0.10349
         630350.00    4178750.00        0.05959                        630450.00
4178750.00        0.06184
         630550.00    4178750.00        0.06411                        630650.00
4178750.00        0.06635
         630750.00    4178750.00        0.06861                        630850.00
4178750.00        0.07087
         630950.00    4178750.00        0.07312                        631050.00
4178750.00        0.07537
         631150.00    4178750.00        0.07767                        631250.00
4178750.00        0.08002
         631350.00    4178750.00        0.08240                        631450.00
4178750.00        0.08475
         631550.00    4178750.00        0.08695                        631650.00
4178750.00        0.08892
         631750.00    4178750.00        0.09053                        631850.00
4178750.00        0.09208
         631950.00    4178750.00        0.09383                        632050.00
4178750.00        0.09592
         632150.00    4178750.00        0.09846                        630250.00
4178850.00        0.05633
         630350.00    4178850.00        0.05839                        630450.00
4178850.00        0.06045
 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                          ***        01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                          ***       15:43:26

                                    PAGE 141
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ONSITE   ***
                                    INCLUDING SOURCE(S):     L0007410    , L0007411
, L0007412    , L0007413    , L0007414    ,
                 L0007415    , L0007416    , L0007417    , L0007418    , L0007419
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, L0007420    , L0007421    , L0007422    ,
                L0007423    , L0007424    , L0007425    , L0007426    , L0007427
, L0007428    , L0007429    , L0007430    ,
                L0007431    , L0007432    , L0007433    , L0007434    , L0007435
, L0007436    , L0007437    ,  . . .      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF HRA      IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                       X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
         630550.00    4178850.00        0.06252                      630650.00
4178850.00        0.06454
         630750.00    4178850.00        0.06661                      630850.00
4178850.00        0.06866
         630950.00    4178850.00        0.07070                      631050.00
4178850.00        0.07276
         631150.00    4178850.00        0.07487                      631250.00
4178850.00        0.07705
         631350.00    4178850.00        0.07924                      631450.00
4178850.00        0.08133
         631550.00    4178850.00        0.08322                      631650.00
4178850.00        0.08485
         631750.00    4178850.00        0.08626                      631850.00
4178850.00        0.08770
         631950.00    4178850.00        0.08941                      632050.00
4178850.00        0.09151
         632150.00    4178850.00        0.09391                      630250.00
4178950.00        0.05525
         630350.00    4178950.00        0.05713                      630450.00
4178950.00        0.05900
         630550.00    4178950.00        0.06090                      630650.00
4178950.00        0.06274
         630750.00    4178950.00        0.06462                      630850.00
4178950.00        0.06647
         630950.00    4178950.00        0.06837                      631050.00
4178950.00        0.07026
         631150.00    4178950.00        0.07224                      631250.00
4178950.00        0.07425
         631350.00    4178950.00        0.07625                      631450.00
4178950.00        0.07805
         631550.00    4178950.00        0.07966                      631650.00
4178950.00        0.08107
         631750.00    4178950.00        0.08229                      631850.00
4178950.00        0.08360
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         631950.00    4178950.00        0.08535                    632050.00
4178950.00        0.08741
         632150.00    4178950.00        0.08972                    629950.00
4179050.00        0.04892
         630250.00    4179050.00        0.05410                    630350.00
4179050.00        0.05582
         630450.00    4179050.00        0.05755                    630550.00
4179050.00        0.05927
         630650.00    4179050.00        0.06094                    630750.00
4179050.00        0.06264
         630850.00    4179050.00        0.06435                    630950.00
4179050.00        0.06612
         631050.00    4179050.00        0.06790                    631150.00
4179050.00        0.06974
         631250.00    4179050.00        0.07159                    631350.00
4179050.00        0.07337
         631450.00    4179050.00        0.07496                    631550.00
4179050.00        0.07625
         631650.00    4179050.00        0.07743                    631750.00
4179050.00        0.07858
         631850.00    4179050.00        0.07989                    631950.00
4179050.00        0.08164
         632050.00    4179050.00        0.08364                    632150.00
4179050.00        0.08579
         629850.00    4179150.00        0.04655                    629950.00
4179150.00        0.04815
         630150.00    4179150.00        0.05131                    630250.00
4179150.00        0.05290
         630350.00    4179150.00        0.05448                    630450.00
4179150.00        0.05606
         630550.00    4179150.00        0.05765                    630650.00
4179150.00        0.05921
         630750.00    4179150.00        0.06074                    630850.00
4179150.00        0.06231
         630950.00    4179150.00        0.06394                    631050.00
4179150.00        0.06564
         631150.00    4179150.00        0.06737                    631250.00
4179150.00        0.06904
         631350.00    4179150.00        0.07058                    631450.00
4179150.00        0.07196
         631550.00    4179150.00        0.07305                    631650.00
4179150.00        0.07406
         631750.00    4179150.00        0.07521                    631850.00
4179150.00        0.07658
         631950.00    4179150.00        0.07802                    632050.00
4179150.00        0.08017
 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                          ***        01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                          ***       15:43:26
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ONSITE ***

INCLUDING SOURCE(S): L0007410 , L0007411 , L0007412 , L0007413 , L0007414 , L0007415 , L0007416 , L0007417 , L0007418 , L0007419 , L0007420 , L0007421 , L0007422 , L0007423 , L0007424 , L0007425 , L0007426 , L0007427 , L0007428 , L0007429 , L0007430 , L0007431 , L0007432 , L0007433 , L0007434 , L0007435 , L0007436 , L0007437 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF HRA IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
632150.00	4179150.00	0.08210	630850.00	4179250.00	0.06038
630950.00	4179250.00	0.06190	631050.00	4177625.00	0.10275
631100.00	4177725.00	0.10518	631100.00	4177825.00	0.10327
631350.00	4178225.00	0.10195	631400.00	4178225.00	0.10392
631450.00	4178225.00	0.10590	631500.00	4178225.00	0.10791
631100.00	4178275.00	0.09064	631150.00	4178275.00	0.09249
631200.00	4178275.00	0.09432	631250.00	4178275.00	0.09617
631300.00	4178275.00	0.09802	631350.00	4178275.00	0.09987
631400.00	4178275.00	0.10175	631450.00	4178275.00	0.10364
631500.00	4178275.00	0.10554	630950.00	4178325.00	0.08388
631100.00	4178325.00	0.08911	631150.00	4178325.00	0.09084
631200.00	4178325.00	0.09261	631250.00	4178325.00	0.09434
631300.00	4178325.00	0.09611	631400.00		

4178325.00 0.09960
631450.00 4178325.00 0.10142 631500.00
4178325.00 0.10322
630950.00 4178375.00 0.08262 631200.00
4178375.00 0.09085
631300.00 4178375.00 0.09417 631400.00
4178375.00 0.09753
631450.00 4178375.00 0.09921 631500.00
4178375.00 0.10094
630800.00 4178425.00 0.07664 630850.00
4178425.00 0.07821
631050.00 4178425.00 0.08447 631200.00
4178425.00 0.08915
631250.00 4178425.00 0.09073 631300.00
4178425.00 0.09230
630650.00 4178475.00 0.07115 630800.00
4178475.00 0.07561
630850.00 4178475.00 0.07709 631050.00
4178475.00 0.08303
631200.00 4178475.00 0.08747 631250.00
4178475.00 0.08896
631300.00 4178475.00 0.09046 631450.00
4178475.00 0.09505
631500.00 4178475.00 0.09659 630550.00
4178525.00 0.06749
630600.00 4178525.00 0.06890 630650.00
4178525.00 0.07029
630700.00 4178525.00 0.07172 630750.00
4178525.00 0.07314
630950.00 4178525.00 0.07876 631050.00
4178525.00 0.08160
631200.00 4178525.00 0.08582 631250.00
4178525.00 0.08724
631300.00 4178525.00 0.08867 631350.00
4178525.00 0.09013
631400.00 4178525.00 0.09159 631450.00
4178525.00 0.09311
631500.00 4178525.00 0.09454 630500.00
4178575.00 0.06543
630550.00 4178575.00 0.06678 630600.00
4178575.00 0.06812
630650.00 4178575.00 0.06942 630700.00
4178575.00 0.07079
630750.00 4178575.00 0.07215 630800.00
4178575.00 0.07348
630850.00 4178575.00 0.07481 631000.00
4178575.00 0.07885
631050.00 4178575.00 0.08019 631200.00
4178575.00 0.08421
631250.00 4178575.00 0.08556 631300.00

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ONSITE ***
INCLUDING SOURCE(S): L0007410 , L0007411 , L0007412 , L0007413 , L0007414 ,
L0007415 , L0007416 , L0007417 , L0007418 , L0007419 , L0007420 , L0007421 , L0007422 ,
L0007423 , L0007424 , L0007425 , L0007426 , L0007427 , L0007428 , L0007429 , L0007430 ,
L0007431 , L0007432 , L0007433 , L0007434 , L0007435 , L0007436 , L0007437 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF HRA IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
630500.00	4178625.00	0.06475	630550.00	4178625.00	0.06604
630600.00	4178625.00	0.06731	630650.00	4178625.00	0.06856
630700.00	4178625.00	0.06985	630750.00	4178625.00	0.07114
630800.00	4178625.00	0.07243	630850.00	4178625.00	0.07370
631000.00	4178625.00	0.07751	631050.00	4178625.00	0.07879
631100.00	4178625.00	0.08005	631150.00	4178625.00	0.08131
631200.00	4178625.00	0.08262	631250.00	4178625.00	0.08392
631300.00	4178625.00	0.08524	631350.00	4178625.00	0.08658

631400.00 4178625.00 0.08792 631450.00
4178625.00 0.08926
631500.00 4178625.00 0.09057 631100.00
4175700.00 0.07340
631150.00 4175700.00 0.07634 631200.00
4175700.00 0.07923
631250.00 4175700.00 0.08265 631100.00
4175750.00 0.07338
631150.00 4175750.00 0.07653 629400.00
4179050.00 0.03933
629450.00 4179050.00 0.04018 629500.00
4179050.00 0.04103
629400.00 4179100.00 0.03931 629450.00
4179100.00 0.04014
629400.00 4179150.00 0.03927 629500.00
4179150.00 0.04088
629550.00 4179150.00 0.04170 629600.00
4179150.00 0.04252
629650.00 4179150.00 0.04333 629700.00
4179150.00 0.04414
629800.00 4179200.00 0.04545 629400.00
4179300.00 0.03902
629400.00 4179350.00 0.03890 634375.00
4175350.00 0.69789
634425.00 4175350.00 0.67334 635425.00
4175350.00 0.35622
635425.00 4175400.00 0.36958 635475.00
4175400.00 0.35914
634325.00 4175450.00 0.85973 634475.00
4175450.00 0.75455
634525.00 4175450.00 0.72348 634525.00
4175500.00 0.77108
634325.00 4175550.00 0.99904 634525.00
4175550.00 0.81674
634575.00 4175550.00 0.77909 634775.00
4175550.00 0.65242
634825.00 4175550.00 0.62572 634625.00
4175600.00 0.77855
634675.00 4175600.00 0.74250 634725.00
4175600.00 0.70947
634775.00 4175600.00 0.67829 634825.00
4175600.00 0.64959
634875.00 4175600.00 0.62254 634925.00
4175600.00 0.59736
635375.00 4175600.00 0.42897 634275.00
4175650.00 1.19321
634325.00 4175650.00 1.12234 634575.00
4175650.00 0.85024
634625.00 4175650.00 0.80819 634675.00
4175650.00 0.76978

634725.00   4175650.00   0.73410   634775.00
4175650.00   0.70067
634825.00   4175650.00   0.67018   634875.00
4175650.00   0.64140
634925.00   4175650.00   0.61441   634975.00
4175650.00   0.58961
635025.00   4175650.00   0.56597   635325.00
4175650.00   0.45285
635375.00   4175650.00   0.43756   634475.00
4175700.00   0.97821
634525.00   4175700.00   0.92510   634575.00
4175700.00   0.87651
634625.00   4175700.00   0.83156   634675.00
4175700.00   0.79073

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ONSITE   ***
INCLUDING SOURCE(S):   L0007410   , L0007411   , L0007412   , L0007413   , L0007414   ,
L0007415   , L0007416   , L0007417   , L0007418   , L0007419   , L0007420   , L0007421   , L0007422   ,
L0007423   , L0007424   , L0007425   , L0007426   , L0007427   , L0007428   , L0007429   , L0007430   ,
L0007431   , L0007432   , L0007433   , L0007434   , L0007435   , L0007436   , L0007437   , . . .   ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF HRA   IN MICROGRAMS/M**3 **

X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)   Y-COORD (M)   CONC
- -
634725.00   4175700.00   0.75374   634775.00
4175700.00   0.71866
634825.00   4175700.00   0.68582   634875.00
4175700.00   0.65610
634925.00   4175700.00   0.62761   634975.00
4175700.00   0.60172
635025.00   4175700.00   0.57696   635075.00

4175700.00 0.55440
635125.00 4175700.00 0.53300 634425.00
4175750.00 1.06211
634575.00 4175750.00 0.89505 634625.00
4175750.00 0.84849
634675.00 4175750.00 0.80573 634725.00
4175750.00 0.76689
634775.00 4175750.00 0.73045 634825.00
4175750.00 0.69691
634875.00 4175750.00 0.66539 634925.00
4175750.00 0.63653
634975.00 4175750.00 0.60957 635025.00
4175750.00 0.58425
635075.00 4175750.00 0.56103 635125.00
4175750.00 0.53911
635175.00 4175750.00 0.51813 635225.00
4175750.00 0.49918
634325.00 4175800.00 1.22088 634375.00
4175800.00 1.14427
634425.00 4175800.00 1.07444 634475.00
4175800.00 1.01234
634525.00 4175800.00 0.95541 634575.00
4175800.00 0.90292
634625.00 4175800.00 0.85650 634675.00
4175800.00 0.81220
634725.00 4175800.00 0.77269 634775.00
4175800.00 0.73545
634825.00 4175800.00 0.70182 634875.00
4175800.00 0.66956
634925.00 4175800.00 0.64050 634975.00
4175800.00 0.61314
635025.00 4175800.00 0.58755 635075.00
4175800.00 0.56355
635125.00 4175800.00 0.54130 635175.00
4175800.00 0.52072
635225.00 4175800.00 0.50109 635275.00
4175800.00 0.48285
635325.00 4175800.00 0.46526 634225.00
4175850.00 1.39804
634325.00 4175850.00 1.21865 634375.00
4175850.00 1.14133
634425.00 4175850.00 1.07236 634475.00
4175850.00 1.01008
634525.00 4175850.00 0.95319 634575.00
4175850.00 0.90106
634625.00 4175850.00 0.85481 634675.00
4175850.00 0.81067
634725.00 4175850.00 0.77041 634775.00
4175850.00 0.73443
634825.00 4175850.00 0.70010 634875.00

4175850.00   0.66833
         634925.00   4175850.00   0.63871   634975.00
4175850.00   0.61153
         635025.00   4175850.00   0.58590   635075.00
4175850.00   0.56237
         635125.00   4175850.00   0.54020   635175.00
4175850.00   0.51946
         635225.00   4175850.00   0.49969   635275.00
4175850.00   0.48162
         635325.00   4175850.00   0.46419   635375.00
4175850.00   0.44756
         635425.00   4175850.00   0.43212   634225.00
4175900.00   1.37132
         634325.00   4175900.00   1.19829   634375.00
4175900.00   1.12307
         634425.00   4175900.00   1.05486   634475.00
4175900.00   0.99420
         634525.00   4175900.00   0.93894   634575.00
4175900.00   0.88847
         634625.00   4175900.00   0.84276   634675.00
4175900.00   0.80109
         634725.00   4175900.00   0.76148   634775.00
4175900.00   0.72578

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ONSITE   ***
                                    INCLUDING SOURCE(S):   L0007410   , L0007411
, L0007412   , L0007413   , L0007414   ,
                  L0007415   , L0007416   , L0007417   , L0007418   , L0007419
, L0007420   , L0007421   , L0007422   ,
                  L0007423   , L0007424   , L0007425   , L0007426   , L0007427
, L0007428   , L0007429   , L0007430   ,
                  L0007431   , L0007432   , L0007433   , L0007434   , L0007435
, L0007436   , L0007437   , . . .   ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                            ** CONC OF HRA   IN MICROGRAMS/M**3
                    **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC

- -

634875.00	4175900.00	0.66106	634925.00	4175900.00	0.63192
634975.00	4175900.00	0.60538	635025.00	4175900.00	0.58031
635075.00	4175900.00	0.55709	635125.00	4175900.00	0.53494
635175.00	4175900.00	0.51456	635225.00	4175900.00	0.49535
635275.00	4175900.00	0.47710	635325.00	4175900.00	0.46036
635375.00	4175900.00	0.44367	635425.00	4175900.00	0.42855
635475.00	4175900.00	0.41411	635525.00	4175900.00	0.40054
634325.00	4175950.00	1.15876	634375.00	4175950.00	1.08901
634425.00	4175950.00	1.02505	634475.00	4175950.00	0.96759
634525.00	4175950.00	0.91475	634575.00	4175950.00	0.86637
634625.00	4175950.00	0.82301	634675.00	4175950.00	0.78286
634875.00	4175950.00	0.64792	634925.00	4175950.00	0.62002
634975.00	4175950.00	0.59447	635025.00	4175950.00	0.57012
635075.00	4175950.00	0.54749	635125.00	4175950.00	0.52640
635175.00	4175950.00	0.50660	635225.00	4175950.00	0.48753
635275.00	4175950.00	0.47034	635325.00	4175950.00	0.45326
635375.00	4175950.00	0.43768	635425.00	4175950.00	0.42282
635475.00	4175950.00	0.40872	635525.00	4175950.00	0.39508
635575.00	4175950.00	0.38258	634725.00	4176000.00	0.72232
634925.00	4176000.00	0.60347	634975.00	4176000.00	0.57947
635025.00	4176000.00	0.55643	635075.00	4176000.00	0.53443
635125.00	4176000.00	0.51432	635175.00	4176000.00	0.49513
635225.00	4176000.00	0.47718	635275.00	4176000.00	0.46054
635325.00	4176000.00	0.44419	635375.00	4176000.00	0.42919

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         635425.00    4176000.00        0.41463                        635475.00
4176000.00        0.40106
         635525.00    4176000.00        0.38818                        635575.00
4176000.00        0.37574
         634825.00    4176050.00        0.63400                        634875.00
4176050.00        0.60792
         634925.00    4176050.00        0.58352                        634975.00
4176050.00        0.56055
         635025.00    4176050.00        0.53875                        635075.00
4176050.00        0.51835
         635125.00    4176050.00        0.49946                        635175.00
4176050.00        0.48135
         635225.00    4176050.00        0.46434                        635275.00
4176050.00        0.44822
         635325.00    4176050.00        0.43291                        635375.00
4176050.00        0.41825
         635425.00    4176050.00        0.40483                        635475.00
4176050.00        0.39170
         635525.00    4176050.00        0.37933                        635575.00
4176050.00        0.36736
         634825.00    4176100.00        0.60647                        634875.00
4176100.00        0.58271
         634925.00    4176100.00        0.55971                        634975.00
4176100.00        0.53858
         635025.00    4176100.00        0.51886                        635075.00
4176100.00        0.49997
         635125.00    4176100.00        0.48204                        635175.00
4176100.00        0.46503
         635225.00    4176100.00        0.44920                        635275.00
4176100.00        0.43410
         635325.00    4176100.00        0.41975                        635375.00
4176100.00        0.40628
 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                          ***        01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                          ***       15:43:26

                                    PAGE 146
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ONSITE   ***
                                    INCLUDING SOURCE(S):     L0007410    , L0007411
, L0007412    , L0007413    , L0007414    ,
                 L0007415    , L0007416    , L0007417    , L0007418    , L0007419
, L0007420    , L0007421    , L0007422    ,
                 L0007423    , L0007424    , L0007425    , L0007426    , L0007427
, L0007428    , L0007429    , L0007430    ,
                 L0007431    , L0007432    , L0007433    , L0007434    , L0007435
, L0007436    , L0007437    ,  . . .      ,
```

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF HRA IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
635425.00	4176100.00	0.39286	635475.00	4176100.00	0.38082
635525.00	4176100.00	0.36912	635575.00	4176100.00	0.35800
634825.00	4176150.00	0.57650	634875.00	4176150.00	0.55514
634925.00	4176150.00	0.53408	634975.00	4176150.00	0.51488
635025.00	4176150.00	0.49679	635075.00	4176150.00	0.47919
635125.00	4176150.00	0.46302	635175.00	4176150.00	0.44731
635225.00	4176150.00	0.43214	635275.00	4176150.00	0.41851
635325.00	4176150.00	0.40504	635375.00	4176150.00	0.39239
635425.00	4176150.00	0.37993	635475.00	4176150.00	0.36863
635525.00	4176150.00	0.35764	635575.00	4176150.00	0.34720
634875.00	4176200.00	0.52630	634925.00	4176200.00	0.50735
634975.00	4176200.00	0.48968	635125.00	4176200.00	0.44237
635175.00	4176200.00	0.42830	635225.00	4176200.00	0.41443
635525.00	4176200.00	0.34524	635575.00	4176200.00	0.33529
634325.00	4176250.00	0.75304	634375.00	4176250.00	0.72209
634875.00	4176250.00	0.49655	634925.00	4176250.00	0.48013
634975.00	4176250.00	0.46438	635025.00	4176250.00	0.44932
635075.00	4176250.00	0.43490	635125.00	4176250.00	0.42138
635175.00	4176250.00	0.40830	635225.00	4176250.00	0.39619
635275.00	4176250.00	0.38422	635375.00		

4176250.00 0.36177
635425.00 4176250.00 0.35152 635525.00
4176250.00 0.33228
635575.00 4176250.00 0.32320 634875.00
4176300.00 0.46705
634925.00 4176300.00 0.45243 634975.00
4176300.00 0.43847
635025.00 4176300.00 0.42514 635075.00
4176300.00 0.41230
635125.00 4176300.00 0.40013 635175.00
4176300.00 0.38819
635225.00 4176300.00 0.37712 635275.00
4176300.00 0.36667
635375.00 4176300.00 0.34599 635425.00
4176300.00 0.33659
635525.00 4176300.00 0.31883 635575.00
4176300.00 0.31016
634875.00 4176350.00 0.43853 634925.00
4176350.00 0.42559
634975.00 4176350.00 0.41308 635025.00
4176350.00 0.40120
635075.00 4176350.00 0.38969 635125.00
4176350.00 0.37876
635175.00 4176350.00 0.36806 635225.00
4176350.00 0.35834
635275.00 4176350.00 0.34866 635375.00
4176350.00 0.33001
635425.00 4176350.00 0.32147 635525.00
4176350.00 0.30514
635575.00 4176350.00 0.29721 634875.00
4176400.00 0.41179
634925.00 4176400.00 0.40015 634975.00
4176400.00 0.38896
635025.00 4176400.00 0.37824 635075.00
4176400.00 0.36801
635125.00 4176400.00 0.35822 635175.00
4176400.00 0.34883
635225.00 4176400.00 0.33985 635275.00
4176400.00 0.33119
635425.00 4176400.00 0.30651 635525.00
4176400.00 0.29138

VALUES FOR SOURCE GROUP: ONSITE ***
INCLUDING SOURCE(S): L0007410 , L0007411
, L0007412 , L0007413 , L0007414 ,
L0007415 , L0007416 , L0007417 , L0007418 , L0007419
, L0007420 , L0007421 , L0007422 ,
L0007423 , L0007424 , L0007425 , L0007426 , L0007427
, L0007428 , L0007429 , L0007430 ,
L0007431 , L0007432 , L0007433 , L0007434 , L0007435
, L0007436 , L0007437 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS
***

** CONC OF HRA IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
635575.00	4176400.00	0.28447	633650.00	4176200.00	1.71054
633700.00	4176200.00	1.59945	633850.00	4176200.00	1.33237
633850.00	4176250.00	1.17105	633950.00	4176250.00	1.05785
634350.00	4176250.00	0.73772	633750.00	4176300.00	1.14921
633950.00	4176300.00	0.94280	634000.00	4176300.00	0.90159
634050.00	4176300.00	0.86153	634050.00	4176350.00	0.77771
634050.00	4176400.00	0.70558	634000.00	4176450.00	0.67044
634050.00	4176450.00	0.64494	634200.00	4176600.00	0.46181
634100.00	4176650.00	0.46610	634150.00	4176650.00	0.44975
634200.00	4176650.00	0.43336	634200.00	4176850.00	0.34977
634200.00	4176900.00	0.33281	634250.00	4176900.00	0.32322
634300.00	4176900.00	0.31355	634400.00	4177000.00	0.27105
634450.00	4177000.00	0.26295	634500.00	4177000.00	0.25570
634550.00	4177000.00	0.24869	634400.00	4177050.00	0.26025
634450.00	4177050.00	0.25248	634500.00	4177050.00	0.24671

634550.00 4177050.00 0.24037 633750.00 4173175.00 0.04598
634450.00 4173325.00 0.06100 634450.00 4173375.00 0.06402
634350.00 4173475.00 0.06772 634300.00 4173625.00 0.07808
634300.00 4173675.00 0.08269 634350.00 4173675.00 0.08423
634250.00 4173775.00 0.09081 633950.00 4173825.00 0.08744
634050.00 4173825.00 0.08952 634100.00 4173825.00 0.09105
634250.00 4173825.00 0.09614 634250.00 4173975.00 0.11504
634150.00 4174125.00 0.13614 634200.00 4174125.00 0.13744
634250.00 4174125.00 0.13842 634250.00 4174225.00 0.15685
634350.00 4174225.00 0.15627 634400.00 4174225.00 0.15539
634200.00 4174325.00 0.17701 634250.00 4174325.00 0.17707
634200.00 4174375.00 0.18770 634250.00 4174425.00 0.20040
634000.00 4174475.00 0.21081 634250.00 4174525.00 0.22733
634100.00 4174575.00 0.24387 634150.00 4174575.00 0.24549
634200.00 4174575.00 0.24380 634250.00 4174575.00 0.24012
634250.00 4174625.00 0.25410 634250.00 4174675.00 0.26935
634250.00 4174825.00 0.32347 634250.00 4174875.00 0.34413
634200.00 4174925.00 0.37799 634250.00 4174925.00 0.36758
631950.00 4173950.00 0.02503 631550.00 4174000.00 0.02499
631550.00 4174050.00 0.02633 631750.00 4174250.00 0.03356
632300.00 4174300.00 0.05864 632350.00 4174300.00 0.06029
632300.00 4174350.00 0.06153 632350.00 4174350.00 0.06375
631600.00 4174400.00 0.03781 631650.00 4174400.00 0.04035
632000.00 4174400.00 0.05171 632000.00 4174450.00 0.05436
631950.00 4174500.00 0.05650 632150.00 4174950.00 0.10885

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ONSITE   ***
                                   INCLUDING SOURCE(S):   L0007410   , L0007411
, L0007412   , L0007413   , L0007414   ,
                  L0007415   , L0007416   , L0007417   , L0007418   , L0007419
, L0007420   , L0007421   , L0007422   ,
                  L0007423   , L0007424   , L0007425   , L0007426   , L0007427
, L0007428   , L0007429   , L0007430   ,
                  L0007431   , L0007432   , L0007433   , L0007434   , L0007435
, L0007436   , L0007437   , . . .   ,

                                        *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                   ** CONC OF HRA   IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 -
- -
         632200.00   4174950.00   0.11315

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: PUMP   ***
                                   INCLUDING SOURCE(S):   PUMP   ,

                                        *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                   ** CONC OF HRA   IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)

Y-COORD (M)   CONC

- -

```
         631050.00    4178050.00         0.09910                      631150.00
4178250.00         0.09441
         631250.00    4178250.00         0.09699                      631350.00
4178250.00         0.09973
         631450.00    4178250.00         0.10231                      631550.00
4178250.00         0.10476
         631650.00    4178250.00         0.10697                      631750.00
4178250.00         0.10881
         631150.00    4178350.00         0.09054                      631450.00
4178350.00         0.09751
         631550.00    4178350.00         0.09949                      631650.00
4178350.00         0.10162
         631750.00    4178350.00         0.10316                      630650.00
4178450.00         0.07490
         630850.00    4178450.00         0.08002                      631050.00
4178450.00         0.08462
         631150.00    4178450.00         0.08669                      631250.00
4178450.00         0.08891
         631550.00    4178450.00         0.09450                      631650.00
4178450.00         0.09605
         631750.00    4178450.00         0.09746                      631850.00
4178450.00         0.09940
         631950.00    4178450.00         0.10191                      632050.00
4178450.00         0.10517
         632150.00    4178450.00         0.10830                      630550.00
4178550.00         0.07024
         630650.00    4178550.00         0.07259                      630750.00
4178550.00         0.07501
         630950.00    4178550.00         0.07918                      631050.00
4178550.00         0.08130
         631250.00    4178550.00         0.08516                      631350.00
4178550.00         0.08699
         631450.00    4178550.00         0.08880                      631550.00
4178550.00         0.09007
         631650.00    4178550.00         0.09134                      631750.00
4178550.00         0.09287
         631850.00    4178550.00         0.09473                      631950.00
4178550.00         0.09727
         632050.00    4178550.00         0.10047                      632150.00
4178550.00         0.10303
         630450.00    4178650.00         0.06610                      630550.00
4178650.00         0.06839
         630650.00    4178650.00         0.07037                      630750.00
4178650.00         0.07248
         630850.00    4178650.00         0.07439                      630950.00
4178650.00         0.07626
         631050.00    4178650.00         0.07816                      631150.00
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4178650.00        0.07989
         631250.00    4178650.00        0.08162                      631350.00
4178650.00        0.08317
         631450.00    4178650.00        0.08458                      631550.00
4178650.00        0.08589
         631650.00    4178650.00        0.08716                      631750.00
4178650.00        0.08854
         631850.00    4178650.00        0.09074                      631950.00
4178650.00        0.09311
         632050.00    4178650.00        0.09598                      632150.00
4178650.00        0.09841
         630350.00    4178750.00        0.06250                      630450.00
4178750.00        0.06446
         630550.00    4178750.00        0.06651                      630650.00
4178750.00        0.06826
         630750.00    4178750.00        0.07005                      630850.00
4178750.00        0.07178
         630950.00    4178750.00        0.07346                      631050.00
4178750.00        0.07509
         631150.00    4178750.00        0.07675                      631250.00
4178750.00        0.07832
         631350.00    4178750.00        0.07963                      631450.00
4178750.00        0.08080
         631550.00    4178750.00        0.08193                      631650.00
4178750.00        0.08334
         631750.00    4178750.00        0.08476                      631850.00
4178750.00        0.08684
         631950.00    4178750.00        0.08941                      632050.00
4178750.00        0.09180
         632150.00    4178750.00        0.09381                      630250.00
4178850.00        0.05918
         630350.00    4178850.00        0.06105                      630450.00
4178850.00        0.06286
 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                          ***        01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                          ***       15:43:26

                                    PAGE 150
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: PUMP       ***
                                    INCLUDING SOURCE(S):     PUMP        ,

                                              *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                           ** CONC OF HRA      IN MICROGRAMS/M**3
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```

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
630550.00	4178850.00	0.06463	630650.00	4178850.00	0.06606
630750.00	4178850.00	0.06776	630850.00	4178850.00	0.06927
630950.00	4178850.00	0.07081	631050.00	4178850.00	0.07224
631150.00	4178850.00	0.07368	631250.00	4178850.00	0.07503
631350.00	4178850.00	0.07622	631450.00	4178850.00	0.07723
631550.00	4178850.00	0.07830	631650.00	4178850.00	0.07960
631750.00	4178850.00	0.08122	631850.00	4178850.00	0.08340
631950.00	4178850.00	0.08587	632050.00	4178850.00	0.08810
632150.00	4178850.00	0.08971	630250.00	4178950.00	0.05787
630350.00	4178950.00	0.05956	630450.00	4178950.00	0.06110
630550.00	4178950.00	0.06274	630650.00	4178950.00	0.06401
630750.00	4178950.00	0.06547	630850.00	4178950.00	0.06679
630950.00	4178950.00	0.06831	631050.00	4178950.00	0.06956
631150.00	4178950.00	0.07085	631250.00	4178950.00	0.07202
631350.00	4178950.00	0.07309	631450.00	4178950.00	0.07391
631550.00	4178950.00	0.07495	631650.00	4178950.00	0.07640
631750.00	4178950.00	0.07803	631850.00	4178950.00	0.07999
631950.00	4178950.00	0.08249	632050.00	4178950.00	0.08447
632150.00	4178950.00	0.08594	629950.00	4179050.00	0.05182
630250.00	4179050.00	0.05653	630350.00	4179050.00	0.05799
630450.00	4179050.00	0.05946	630550.00	4179050.00	0.06080
630650.00	4179050.00	0.06190	630750.00	4179050.00	0.06317
630850.00	4179050.00	0.06447	630950.00		

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4179050.00        0.06586
         631050.00    4179050.00        0.06708                        631150.00
4179050.00        0.06818
         631250.00    4179050.00        0.06915                        631350.00
4179050.00        0.07008
         631450.00    4179050.00        0.07097                        631550.00
4179050.00        0.07181
         631650.00    4179050.00        0.07322                        631750.00
4179050.00        0.07504
         631850.00    4179050.00        0.07704                        631950.00
4179050.00        0.07934
         632050.00    4179050.00        0.08106                        632150.00
4179050.00        0.08225
         629850.00    4179150.00        0.04930                        629950.00
4179150.00        0.05077
         630150.00    4179150.00        0.05365                        630250.00
4179150.00        0.05506
         630350.00    4179150.00        0.05637                        630450.00
4179150.00        0.05764
         630550.00    4179150.00        0.05889                        630650.00
4179150.00        0.06007
         630750.00    4179150.00        0.06111                        630850.00
4179150.00        0.06222
         630950.00    4179150.00        0.06342                        631050.00
4179150.00        0.06459
         631150.00    4179150.00        0.06562                        631250.00
4179150.00        0.06646
         631350.00    4179150.00        0.06720                        631450.00
4179150.00        0.06815
         631550.00    4179150.00        0.06907                        631650.00
4179150.00        0.07046
         631750.00    4179150.00        0.07248                        631850.00
4179150.00        0.07459
         631950.00    4179150.00        0.07577                        632050.00
4179150.00        0.07790
 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                          ***       01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                          ***      15:43:26

                                   PAGE 151
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: PUMP      ***
                                   INCLUDING SOURCE(S):     PUMP        ,

                                              *** DISCRETE CARTESIAN RECEPTOR POINTS
***
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** CONC OF HRA IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
632150.00	4179150.00	0.07873	630850.00	4179250.00	0.06022
630950.00	4179250.00	0.06124	631050.00	4177625.00	0.11274
631100.00	4177725.00	0.11295	631100.00	4177825.00	0.10952
631350.00	4178225.00	0.10094	631400.00	4178225.00	0.10225
631450.00	4178225.00	0.10359	631500.00	4178225.00	0.10490
631100.00	4178275.00	0.09208	631150.00	4178275.00	0.09350
631200.00	4178275.00	0.09474	631250.00	4178275.00	0.09605
631300.00	4178275.00	0.09734	631350.00	4178275.00	0.09861
631400.00	4178275.00	0.09992	631450.00	4178275.00	0.10120
631500.00	4178275.00	0.10242	630950.00	4178325.00	0.08641
631100.00	4178325.00	0.09028	631150.00	4178325.00	0.09151
631200.00	4178325.00	0.09288	631250.00	4178325.00	0.09402
631300.00	4178325.00	0.09536	631400.00	4178325.00	0.09751
631450.00	4178325.00	0.09880	631500.00	4178325.00	0.09989
630950.00	4178375.00	0.08482	631200.00	4178375.00	0.09072
631300.00	4178375.00	0.09305	631400.00	4178375.00	0.09529
631450.00	4178375.00	0.09627	631500.00	4178375.00	0.09734
630800.00	4178425.00	0.07944	630850.00	4178425.00	0.08074
631050.00	4178425.00	0.08549	631200.00	4178425.00	0.08879
631250.00	4178425.00	0.08995	631300.00	4178425.00	0.09099
630650.00	4178475.00	0.07433	630800.00	4178475.00	0.07816
630850.00	4178475.00	0.07928	631050.00		

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4178475.00        0.08377
         631200.00    4178475.00        0.08695                        631250.00
4178475.00        0.08797
         631300.00    4178475.00        0.08896                        631450.00
4178475.00        0.09176
         631500.00    4178475.00        0.09256                        630550.00
4178525.00        0.07071
         630600.00    4178525.00        0.07199                        630650.00
4178525.00        0.07305
         630700.00    4178525.00        0.07440                        630750.00
4178525.00        0.07564
         630950.00    4178525.00        0.07993                        631050.00
4178525.00        0.08213
         631200.00    4178525.00        0.08512                        631250.00
4178525.00        0.08609
         631300.00    4178525.00        0.08701                        631350.00
4178525.00        0.08796
         631400.00    4178525.00        0.08882                        631450.00
4178525.00        0.08983
         631500.00    4178525.00        0.09043                        630500.00
4178575.00        0.06857
         630550.00    4178575.00        0.06979                        630600.00
4178575.00        0.07097
         630650.00    4178575.00        0.07189                        630700.00
4178575.00        0.07318
         630750.00    4178575.00        0.07442                        630800.00
4178575.00        0.07538
         630850.00    4178575.00        0.07640                        631000.00
4178575.00        0.07954
         631050.00    4178575.00        0.08050                        631200.00
4178575.00        0.08336
         631250.00    4178575.00        0.08425                        631300.00
4178575.00        0.08514
         631350.00    4178575.00        0.08598                        631400.00
4178575.00        0.08687
         631450.00    4178575.00        0.08759                        631500.00
4178575.00        0.08833
 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                          ***        01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                          ***       15:43:26

                                    PAGE 152
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: PUMP       ***
                                    INCLUDING SOURCE(S):     PUMP        ,

                                              *** DISCRETE CARTESIAN RECEPTOR POINTS
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***

** CONC OF HRA IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
630500.00	4178625.00	0.06762	630550.00	4178625.00	0.06885
630600.00	4178625.00	0.06993	630650.00	4178625.00	0.07084
630700.00	4178625.00	0.07203	630750.00	4178625.00	0.07310
630800.00	4178625.00	0.07418	630850.00	4178625.00	0.07517
631000.00	4178625.00	0.07798	631050.00	4178625.00	0.07892
631100.00	4178625.00	0.07979	631150.00	4178625.00	0.08063
631200.00	4178625.00	0.08159	631250.00	4178625.00	0.08248
631300.00	4178625.00	0.08329	631350.00	4178625.00	0.08412
631400.00	4178625.00	0.08487	631450.00	4178625.00	0.08560
631500.00	4178625.00	0.08625	631100.00	4175700.00	0.06610
631150.00	4175700.00	0.06858	631200.00	4175700.00	0.07101
631250.00	4175700.00	0.07390	631100.00	4175750.00	0.06654
631150.00	4175750.00	0.06922	629400.00	4179050.00	0.04368
629450.00	4179050.00	0.04441	629500.00	4179050.00	0.04512
629400.00	4179100.00	0.04343	629450.00	4179100.00	0.04414
629400.00	4179150.00	0.04315	629500.00	4179150.00	0.04452
629550.00	4179150.00	0.04523	629600.00	4179150.00	0.04593
629650.00	4179150.00	0.04663	629700.00	4179150.00	0.04729
629800.00	4179200.00	0.04821	629400.00	4179300.00	0.04223
629400.00	4179350.00	0.04191	634375.00	4175350.00	0.75018
634425.00	4175350.00	0.71144	635425.00		

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4175350.00        0.33868
         635425.00    4175400.00        0.34818                        635475.00
4175400.00        0.33884
         634325.00    4175450.00        0.90686                        634475.00
4175450.00        0.75106
         634525.00    4175450.00        0.71037                        634525.00
4175500.00        0.73764
         634325.00    4175550.00        0.98239                        634525.00
4175550.00        0.75600
         634575.00    4175550.00        0.71525                        634775.00
4175550.00        0.58774
         634825.00    4175550.00        0.56276                        634625.00
4175600.00        0.68695
         634675.00    4175600.00        0.65335                        634725.00
4175600.00        0.62414
         634775.00    4175600.00        0.59616                        634825.00
4175600.00        0.57106
         634875.00    4175600.00        0.54775                        634925.00
4175600.00        0.52651
         635375.00    4175600.00        0.38789                        634275.00
4175650.00        1.04674
         634325.00    4175650.00        0.97610                        634575.00
4175650.00        0.72581
         634625.00    4175650.00        0.68986                        634675.00
4175650.00        0.65722
         634725.00    4175650.00        0.62828                        634775.00
4175650.00        0.60067
         634825.00    4175650.00        0.57683                        634875.00
4175650.00        0.55365
         634925.00    4175650.00        0.53168                        634975.00
4175650.00        0.51241
         635025.00    4175650.00        0.49313                        635325.00
4175650.00        0.40415
         635375.00    4175650.00        0.39203                        634475.00
4175700.00        0.80158
         634525.00    4175700.00        0.76033                        634575.00
4175700.00        0.72294
         634625.00    4175700.00        0.68798                        634675.00
4175700.00        0.65728
 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                          ***       01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                          ***      15:43:26

                                   PAGE 153
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: PUMP      ***
                                   INCLUDING SOURCE(S):     PUMP        ,
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*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF HRA IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
634725.00	4175700.00	0.63089	634775.00	4175700.00	0.60417
634825.00	4175700.00	0.57850	634875.00	4175700.00	0.55680
634925.00	4175700.00	0.53428	634975.00	4175700.00	0.51509
635025.00	4175700.00	0.49552	635075.00	4175700.00	0.47881
635125.00	4175700.00	0.46239	634425.00	4175750.00	0.83546
634575.00	4175750.00	0.71963	634625.00	4175750.00	0.68674
634675.00	4175750.00	0.65636	634725.00	4175750.00	0.62963
634775.00	4175750.00	0.60325	634825.00	4175750.00	0.57915
634875.00	4175750.00	0.55557	634925.00	4175750.00	0.53462
634975.00	4175750.00	0.51478	635025.00	4175750.00	0.49569
635075.00	4175750.00	0.47893	635125.00	4175750.00	0.46265
635175.00	4175750.00	0.44614	635225.00	4175750.00	0.43258
634325.00	4175800.00	0.91480	634375.00	4175800.00	0.86724
634425.00	4175800.00	0.82194	634475.00	4175800.00	0.78314
634525.00	4175800.00	0.74619	634575.00	4175800.00	0.71064
634625.00	4175800.00	0.68168	634675.00	4175800.00	0.65046
634725.00	4175800.00	0.62457	634775.00	4175800.00	0.59837
634825.00	4175800.00	0.57599	634875.00	4175800.00	0.55216
634925.00	4175800.00	0.53213	634975.00	4175800.00	0.51253
635025.00	4175800.00	0.49383	635075.00		

4175800.00 0.47600
635125.00 4175800.00 0.45969 635175.00
4175800.00 0.44504
635225.00 4175800.00 0.43030 635275.00
4175800.00 0.41698
635325.00 4175800.00 0.40319 634225.00
4175850.00 0.99085
634325.00 4175850.00 0.89223 634375.00
4175850.00 0.84597
634425.00 4175850.00 0.80508 634475.00
4175850.00 0.76771
634525.00 4175850.00 0.73240 634575.00
4175850.00 0.69904
634625.00 4175850.00 0.67148 634675.00
4175850.00 0.64156
634725.00 4175850.00 0.61453 634775.00
4175850.00 0.59213
634825.00 4175850.00 0.56842 634875.00
4175850.00 0.54630
634925.00 4175850.00 0.52522 634975.00
4175850.00 0.50638
635025.00 4175850.00 0.48788 635075.00
4175850.00 0.47147
635125.00 4175850.00 0.45560 635175.00
4175850.00 0.44066
635225.00 4175850.00 0.42573 635275.00
4175850.00 0.41296
635325.00 4175850.00 0.39973 635375.00
4175850.00 0.38664
635425.00 4175850.00 0.37486 634225.00
4175900.00 0.95442
634325.00 4175900.00 0.86480 634375.00
4175900.00 0.82127
634425.00 4175900.00 0.78047 634475.00
4175900.00 0.74519
634525.00 4175900.00 0.71225 634575.00
4175900.00 0.68151
634625.00 4175900.00 0.65399 634675.00
4175900.00 0.62909
634725.00 4175900.00 0.60268 634775.00
4175900.00 0.58013

VALUES FOR SOURCE GROUP: PUMP ***
INCLUDING SOURCE(S): PUMP ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF HRA IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
634875.00	4175900.00	0.53632	634925.00	4175900.00	0.51585
634975.00	4175900.00	0.49804	635025.00	4175900.00	0.48046
635075.00	4175900.00	0.46438	635125.00	4175900.00	0.44811
635175.00	4175900.00	0.43371	635225.00	4175900.00	0.41988
635275.00	4175900.00	0.40629	635325.00	4175900.00	0.39453
635375.00	4175900.00	0.38103	635425.00	4175900.00	0.36983
635475.00	4175900.00	0.35880	635525.00	4175900.00	0.34854
634325.00	4175950.00	0.82641	634375.00	4175950.00	0.78893
634425.00	4175950.00	0.75241	634475.00	4175950.00	0.71998
634525.00	4175950.00	0.68877	634575.00	4175950.00	0.65953
634625.00	4175950.00	0.63455	634675.00	4175950.00	0.61062
634875.00	4175950.00	0.52223	634925.00	4175950.00	0.50333
634975.00	4175950.00	0.48661	635025.00	4175950.00	0.46961
635075.00	4175950.00	0.45390	635125.00	4175950.00	0.43930
635175.00	4175950.00	0.42545	635225.00	4175950.00	0.41116
635275.00	4175950.00	0.39949	635325.00	4175950.00	0.38618
635375.00	4175950.00	0.37488	635425.00	4175950.00	0.36377
635475.00	4175950.00	0.35307	635525.00	4175950.00	0.34220
635575.00	4175950.00	0.33287	634725.00		

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4176000.00        0.56672
         634925.00    4176000.00        0.48799                    634975.00
4176000.00        0.47302
         635025.00    4176000.00        0.45744                    635075.00
4176000.00        0.44163
         635125.00    4176000.00        0.42796                    635175.00
4176000.00        0.41427
         635225.00    4176000.00        0.40154                    635275.00
4176000.00        0.39012
         635325.00    4176000.00        0.37762                    635375.00
4176000.00        0.36683
         635425.00    4176000.00        0.35564                    635475.00
4176000.00        0.34551
         635525.00    4176000.00        0.33578                    635575.00
4176000.00        0.32599
         634825.00    4176050.00        0.50359                    634875.00
4176050.00        0.48721
         634925.00    4176050.00        0.47167                    634975.00
4176050.00        0.45665
         635025.00    4176050.00        0.44174                    635075.00
4176050.00        0.42779
         635125.00    4176050.00        0.41523                    635175.00
4176050.00        0.40248
         635225.00    4176050.00        0.39052                    635275.00
4176050.00        0.37895
         635325.00    4176050.00        0.36773                    635375.00
4176050.00        0.35662
         635425.00    4176050.00        0.34714                    635475.00
4176050.00        0.33712
         635525.00    4176050.00        0.32776                    635575.00
4176050.00        0.31832
         634825.00    4176100.00        0.48220                    634875.00
4176100.00        0.46756
         634925.00    4176100.00        0.45202                    634975.00
4176100.00        0.43841
         635025.00    4176100.00        0.42585                    635075.00
4176100.00        0.41311
         635125.00    4176100.00        0.40070                    635175.00
4176100.00        0.38863
         635225.00    4176100.00        0.37774                    635275.00
4176100.00        0.36702
         635325.00    4176100.00        0.35668                    635375.00
4176100.00        0.34709
 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                          ***       01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                          ***      15:43:26

                                  PAGE 155
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*
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*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: PUMP ***

INCLUDING SOURCE(S): PUMP ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF HRA IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
635425.00	4176100.00	0.33641	635475.00	4176100.00	0.32786
635525.00	4176100.00	0.31909	635575.00	4176100.00	0.31072
634825.00	4176150.00	0.46051	634875.00	4176150.00	0.44729
634925.00	4176150.00	0.43265	634975.00	4176150.00	0.42028
635025.00	4176150.00	0.40865	635075.00	4176150.00	0.39633
635125.00	4176150.00	0.38575	635175.00	4176150.00	0.37466
635225.00	4176150.00	0.36337	635275.00	4176150.00	0.35442
635325.00	4176150.00	0.34456	635375.00	4176150.00	0.33547
635425.00	4176150.00	0.32574	635475.00	4176150.00	0.31773
635525.00	4176150.00	0.30952	635575.00	4176150.00	0.30173
634875.00	4176200.00	0.42763	634925.00	4176200.00	0.41397
634975.00	4176200.00	0.40170	635125.00	4176200.00	0.36942
635175.00	4176200.00	0.35996	635225.00	4176200.00	0.34971
635525.00	4176200.00	0.29938	635575.00	4176200.00	0.29166
634325.00	4176250.00	0.63655	634375.00	4176250.00	0.60358
634875.00	4176250.00	0.40807	634925.00	4176250.00	0.39599
634975.00	4176250.00	0.38475	635025.00	4176250.00	0.37393
635075.00	4176250.00	0.36343	635125.00		

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4176250.00        0.35399
         635175.00    4176250.00        0.34450                    635225.00
4176250.00        0.33633
         635275.00    4176250.00        0.32747                    635375.00
4176250.00        0.31057
         635425.00    4176250.00        0.30319                    635525.00
4176250.00        0.28907
         635575.00    4176250.00        0.28225                    634875.00
4176300.00        0.38903
         634925.00    4176300.00        0.37755                    634975.00
4176300.00        0.36716
         635025.00    4176300.00        0.35733                    635075.00
4176300.00        0.34751
         635125.00    4176300.00        0.33874                    635175.00
4176300.00        0.32963
         635225.00    4176300.00        0.32178                    635275.00
4176300.00        0.31465
         635375.00    4176300.00        0.29850                    635425.00
4176300.00        0.29164
         635525.00    4176300.00        0.27840                    635575.00
4176300.00        0.27139
         634875.00    4176350.00        0.37025                    634925.00
4176350.00        0.35999
         634975.00    4176350.00        0.34977                    635025.00
4176350.00        0.34065
         635075.00    4176350.00        0.33167                    635125.00
4176350.00        0.32327
         635175.00    4176350.00        0.31491                    635225.00
4176350.00        0.30825
         635275.00    4176350.00        0.30090                    635375.00
4176350.00        0.28630
         635425.00    4176350.00        0.28002                    635525.00
4176350.00        0.26756
         635575.00    4176350.00        0.26113                    634875.00
4176400.00        0.35245
         634925.00    4176400.00        0.34272                    634975.00
4176400.00        0.33348
         635025.00    4176400.00        0.32446                    635075.00
4176400.00        0.31641
         635125.00    4176400.00        0.30884                    635175.00
4176400.00        0.30154
         635225.00    4176400.00        0.29481                    635275.00
4176400.00        0.28833
         635425.00    4176400.00        0.26878                    635525.00
4176400.00        0.25662
 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                          ***       01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                          ***      15:43:26
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: PUMP ***
INCLUDING SOURCE(S): PUMP ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF HRA IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
635575.00	4176400.00	0.25147	633650.00	4176200.00	1.32210
633700.00	4176200.00	1.31982	633850.00	4176200.00	1.19171
633850.00	4176250.00	1.06573	633950.00	4176250.00	0.97933
634350.00	4176250.00	0.61967	633750.00	4176300.00	0.90972
633950.00	4176300.00	0.87902	634000.00	4176300.00	0.84787
634050.00	4176300.00	0.80820	634050.00	4176350.00	0.73255
634050.00	4176400.00	0.65411	634000.00	4176450.00	0.58079
634050.00	4176450.00	0.57968	634200.00	4176600.00	0.39352
634100.00	4176650.00	0.34229	634150.00	4176650.00	0.34841
634200.00	4176650.00	0.35052	634200.00	4176850.00	0.24090
634200.00	4176900.00	0.22825	634250.00	4176900.00	0.22644
634300.00	4176900.00	0.22483	634400.00	4177000.00	0.19908
634450.00	4177000.00	0.19626	634500.00	4177000.00	0.19451
634550.00	4177000.00	0.19326	634400.00	4177050.00	0.19132
634450.00	4177050.00	0.18719	634500.00	4177050.00	0.18645
634550.00	4177050.00	0.18503	633750.00	4173175.00	0.04401
634450.00	4173325.00	0.06395	634450.00		

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4173375.00        0.06700
         634350.00    4173475.00        0.07095                        634300.00
4173625.00        0.08155
         634300.00    4173675.00        0.08619                        634350.00
4173675.00        0.08750
         634250.00    4173775.00        0.09460                        633950.00
4173825.00        0.08887
         634050.00    4173825.00        0.09290                        634100.00
4173825.00        0.09494
         634250.00    4173825.00        0.10002                        634250.00
4173975.00        0.11842
         634150.00    4174125.00        0.14075                        634200.00
4174125.00        0.14035
         634250.00    4174125.00        0.13945                        634250.00
4174225.00        0.15533
         634350.00    4174225.00        0.15050                        634400.00
4174225.00        0.14808
         634200.00    4174325.00        0.17504                        634250.00
4174325.00        0.17265
         634200.00    4174375.00        0.18407                        634250.00
4174425.00        0.19583
         634000.00    4174475.00        0.21973                        634250.00
4174525.00        0.21798
         634100.00    4174575.00        0.24055                        634150.00
4174575.00        0.24063
         634200.00    4174575.00        0.23540                        634250.00
4174575.00        0.23059
         634250.00    4174625.00        0.24528                        634250.00
4174675.00        0.26201
         634250.00    4174825.00        0.32985                        634250.00
4174875.00        0.36009
         634200.00    4174925.00        0.40247                        634250.00
4174925.00        0.39367
         631950.00    4173950.00        0.02705                        631550.00
4174000.00        0.02501
         631550.00    4174050.00        0.02648                        631750.00
4174250.00        0.03534
         632300.00    4174300.00        0.06204                        632350.00
4174300.00        0.06337
         632300.00    4174350.00        0.06575                        632350.00
4174350.00        0.06753
         631600.00    4174400.00        0.03857                        631650.00
4174400.00        0.04078
         632000.00    4174400.00        0.05464                        632000.00
4174450.00        0.05678
         631950.00    4174500.00        0.05735                        632150.00
4174950.00        0.11376
 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                           ***        01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
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*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION ***
VALUES FOR SOURCE GROUP: PUMP
INCLUDING SOURCE(S): PUMP ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF HRA IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
632200.00	4174950.00	0.12097			

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION ***
VALUES FOR SOURCE GROUP: YARD
INCLUDING SOURCE(S): L0007191 , L0007192 , L0007193 , L0007194 , L0007195 , L0007196 , L0007197 , L0007198 , L0007199 , L0007200 , L0007201 , L0007202 , L0007203 , L0007204 , L0007205 , L0007206 , L0007207 , L0007208 , L0007209 , L0007210 , L0007211 , L0007212 , L0007213 , L0007214 , L0007215 , L0007216 , L0007217 , L0007218 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF HRA IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC

631050.00 4178050.00 0.09471 631150.00 4178250.00 0.09269
631250.00 4178250.00 0.09634 631350.00 4178250.00 0.10004
631450.00 4178250.00 0.10376 631550.00 4178250.00 0.10759
631650.00 4178250.00 0.11146 631750.00 4178250.00 0.11514
631150.00 4178350.00 0.08939 631450.00 4178350.00 0.09936
631550.00 4178350.00 0.10281 631650.00 4178350.00 0.10630
631750.00 4178350.00 0.10943 630650.00 4178450.00 0.07134
630850.00 4178450.00 0.07727 631050.00 4178450.00 0.08319
631150.00 4178450.00 0.08611 631250.00 4178450.00 0.08908
631550.00 4178450.00 0.09829 631650.00 4178450.00 0.10128
631750.00 4178450.00 0.10388 631850.00 4178450.00 0.10614
631950.00 4178450.00 0.10818 632050.00 4178450.00 0.11051
632150.00 4178450.00 0.11337 630550.00 4178550.00 0.06694
630650.00 4178550.00 0.06961 630750.00 4178550.00 0.07230
630950.00 4178550.00 0.07764 631050.00 4178550.00 0.08032
631250.00 4178550.00 0.08566 631350.00 4178550.00 0.08844
631450.00 4178550.00 0.09131 631550.00 4178550.00 0.09405
631650.00 4178550.00 0.09660 631750.00 4178550.00 0.09879
631850.00 4178550.00 0.10064 631950.00 4178550.00 0.10249
632050.00 4178550.00 0.10478 632150.00 4178550.00 0.10752
630450.00 4178650.00 0.06298 630550.00 4178650.00 0.06542
630650.00 4178650.00 0.06782 630750.00 4178650.00 0.07027
630850.00 4178650.00 0.07269 630950.00 4178650.00 0.07510
631050.00 4178650.00 0.07752 631150.00 4178650.00 0.07993
631250.00 4178650.00 0.08242 631350.00 4178650.00 0.08497

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         631450.00    4178650.00        0.08755                        631550.00
4178650.00        0.09001
         631650.00    4178650.00        0.09218                        631750.00
4178650.00        0.09395
         631850.00    4178650.00        0.09562                        631950.00
4178650.00        0.09731
         632050.00    4178650.00        0.09955                        632150.00
4178650.00        0.10228
         630350.00    4178750.00        0.05943                        630450.00
4178750.00        0.06162
         630550.00    4178750.00        0.06384                        630650.00
4178750.00        0.06602
         630750.00    4178750.00        0.06823                        630850.00
4178750.00        0.07043
         630950.00    4178750.00        0.07261                        631050.00
4178750.00        0.07479
         631150.00    4178750.00        0.07703                        631250.00
4178750.00        0.07935
         631350.00    4178750.00        0.08170                        631450.00
4178750.00        0.08401
         631550.00    4178750.00        0.08613                        631650.00
4178750.00        0.08798
         631750.00    4178750.00        0.08945                        631850.00
4178750.00        0.09090
         631950.00    4178750.00        0.09263                        632050.00
4178750.00        0.09478
         632150.00    4178750.00        0.09738                        630250.00
4178850.00        0.05619
         630350.00    4178850.00        0.05820                        630450.00
4178850.00        0.06020
 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                        ***        01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                       ***        15:43:26

                                  PAGE 159
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: YARD     ***
                                  INCLUDING SOURCE(S):     L0007191    , L0007192
, L0007193    , L0007194    , L0007195    ,
                  L0007196    , L0007197    , L0007198    , L0007199    , L0007200
, L0007201    , L0007202    , L0007203    ,
                  L0007204    , L0007205    , L0007206    , L0007207    , L0007208
, L0007209    , L0007210    , L0007211    ,
                  L0007212    , L0007213    , L0007214    , L0007215    , L0007216
, L0007217    , L0007218    ,  . . .      ,

                                             *** DISCRETE CARTESIAN RECEPTOR POINTS
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** CONC OF HRA IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
630550.00	4178850.00	0.06222	630650.00	4178850.00	0.06419
630750.00	4178850.00	0.06622	630850.00	4178850.00	0.06820
630950.00	4178850.00	0.07019	631050.00	4178850.00	0.07219
631150.00	4178850.00	0.07427	631250.00	4178850.00	0.07642
631350.00	4178850.00	0.07859	631450.00	4178850.00	0.08062
631550.00	4178850.00	0.08242	631650.00	4178850.00	0.08393
631750.00	4178850.00	0.08522	631850.00	4178850.00	0.08661
631950.00	4178850.00	0.08833	632050.00	4178850.00	0.09049
632150.00	4178850.00	0.09293	630250.00	4178950.00	0.05507
630350.00	4178950.00	0.05690	630450.00	4178950.00	0.05873
630550.00	4178950.00	0.06059	630650.00	4178950.00	0.06239
630750.00	4178950.00	0.06422	630850.00	4178950.00	0.06601
630950.00	4178950.00	0.06786	631050.00	4178950.00	0.06972
631150.00	4178950.00	0.07167	631250.00	4178950.00	0.07367
631350.00	4178950.00	0.07563	631450.00	4178950.00	0.07737
631550.00	4178950.00	0.07887	631650.00	4178950.00	0.08016
631750.00	4178950.00	0.08130	631850.00	4178950.00	0.08259
631950.00	4178950.00	0.08438	632050.00	4178950.00	0.08650
632150.00	4178950.00	0.08883	629950.00	4179050.00	0.04884
630250.00	4179050.00	0.05390	630350.00	4179050.00	0.05558
630450.00	4179050.00	0.05727	630550.00		

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4179050.00        0.05895
         630650.00    4179050.00        0.06058                        630750.00
4179050.00        0.06223
         630850.00    4179050.00        0.06390                        630950.00
4179050.00        0.06562
         631050.00    4179050.00        0.06739                        631150.00
4179050.00        0.06921
         631250.00    4179050.00        0.07103                        631350.00
4179050.00        0.07277
         631450.00    4179050.00        0.07428                        631550.00
4179050.00        0.07547
         631650.00    4179050.00        0.07656                        631750.00
4179050.00        0.07766
         631850.00    4179050.00        0.07897                        631950.00
4179050.00        0.08076
         632050.00    4179050.00        0.08281                        632150.00
4179050.00        0.08496
         629850.00    4179150.00        0.04648                        629950.00
4179150.00        0.04804
         630150.00    4179150.00        0.05113                        630250.00
4179150.00        0.05268
         630350.00    4179150.00        0.05423                        630450.00
4179150.00        0.05578
         630550.00    4179150.00        0.05732                        630650.00
4179150.00        0.05884
         630750.00    4179150.00        0.06033                        630850.00
4179150.00        0.06186
         630950.00    4179150.00        0.06347                        631050.00
4179150.00        0.06515
         631150.00    4179150.00        0.06687                        631250.00
4179150.00        0.06852
         631350.00    4179150.00        0.07000                        631450.00
4179150.00        0.07129
         631550.00    4179150.00        0.07229                        631650.00
4179150.00        0.07323
         631750.00    4179150.00        0.07435                        631850.00
4179150.00        0.07574
         631950.00    4179150.00        0.07723                        632050.00
4179150.00        0.07941
 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                          ***       01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                          ***      15:43:26

                                   PAGE 160
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: YARD      ***
                                   INCLUDING SOURCE(S):     L0007191    , L0007192
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, L0007193    , L0007194    , L0007195    ,
                L0007196    , L0007197    , L0007198    , L0007199    , L0007200
, L0007201    , L0007202    , L0007203    ,
                L0007204    , L0007205    , L0007206    , L0007207    , L0007208
, L0007209    , L0007210    , L0007211    ,
                L0007212    , L0007213    , L0007214    , L0007215    , L0007216
, L0007217    , L0007218    ,  . . .      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                     ** CONC OF HRA      IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                       X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - -
         632150.00    4179150.00        0.08133                      630850.00
4179250.00        0.05994
         630950.00    4179250.00        0.06145                      631050.00
4177625.00        0.10297
         631100.00    4177725.00        0.10524                      631100.00
4177825.00        0.10315
         631350.00    4178225.00        0.10109                      631400.00
4178225.00        0.10298
         631450.00    4178225.00        0.10491                      631500.00
4178225.00        0.10686
         631100.00    4178275.00        0.09008                      631150.00
4178275.00        0.09187
         631200.00    4178275.00        0.09365                      631250.00
4178275.00        0.09543
         631300.00    4178275.00        0.09722                      631350.00
4178275.00        0.09901
         631400.00    4178275.00        0.10082                      631450.00
4178275.00        0.10266
         631500.00    4178275.00        0.10452                      630950.00
4178325.00        0.08346
         631100.00    4178325.00        0.08853                      631150.00
4178325.00        0.09021
         631200.00    4178325.00        0.09192                      631250.00
4178325.00        0.09359
         631300.00    4178325.00        0.09531                      631400.00
4178325.00        0.09869
         631450.00    4178325.00        0.10046                      631500.00
4178325.00        0.10223
         630950.00    4178375.00        0.08218                      631200.00
4178375.00        0.09016
         631300.00    4178375.00        0.09336                      631400.00
4178375.00        0.09663
```

631450.00 4178375.00 0.09828 631500.00
4178375.00 0.09998
630800.00 4178425.00 0.07631 630850.00
4178425.00 0.07784
631050.00 4178425.00 0.08392 631200.00
4178425.00 0.08845
631250.00 4178425.00 0.08998 631300.00
4178425.00 0.09150
630650.00 4178475.00 0.07092 630800.00
4178475.00 0.07526
630850.00 4178475.00 0.07669 631050.00
4178475.00 0.08247
631200.00 4178475.00 0.08677 631250.00
4178475.00 0.08822
631300.00 4178475.00 0.08967 631450.00
4178475.00 0.09418
631500.00 4178475.00 0.09570 630550.00
4178525.00 0.06731
630600.00 4178525.00 0.06868 630650.00
4178525.00 0.07003
630700.00 4178525.00 0.07142 630750.00
4178525.00 0.07281
630950.00 4178525.00 0.07828 631050.00
4178525.00 0.08103
631200.00 4178525.00 0.08512 631250.00
4178525.00 0.08650
631300.00 4178525.00 0.08790 631350.00
4178525.00 0.08933
631400.00 4178525.00 0.09077 631450.00
4178525.00 0.09226
631500.00 4178525.00 0.09367 630500.00
4178575.00 0.06526
630550.00 4178575.00 0.06657 630600.00
4178575.00 0.06787
630650.00 4178575.00 0.06914 630700.00
4178575.00 0.07047
630750.00 4178575.00 0.07180 630800.00
4178575.00 0.07309
630850.00 4178575.00 0.07439 631000.00
4178575.00 0.07832
631050.00 4178575.00 0.07961 631200.00
4178575.00 0.08351
631250.00 4178575.00 0.08483 631300.00
4178575.00 0.08618
631350.00 4178575.00 0.08754 631400.00
4178575.00 0.08894
631450.00 4178575.00 0.09032 631500.00
4178575.00 0.09170

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YARD ***
INCLUDING SOURCE(S): L0007191 , L0007192 , L0007193 , L0007194 , L0007195 ,
L0007196 , L0007197 , L0007198 , L0007199 , L0007200 , L0007201 , L0007202 , L0007203 ,
L0007204 , L0007205 , L0007206 , L0007207 , L0007208 , L0007209 , L0007210 , L0007211 ,
L0007212 , L0007213 , L0007214 , L0007215 , L0007216 , L0007217 , L0007218 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF HRA IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
630500.00	4178625.00	0.06455	630550.00	4178625.00	0.06581
630600.00	4178625.00	0.06704	630650.00	4178625.00	0.06825
630700.00	4178625.00	0.06952	630750.00	4178625.00	0.07077
630800.00	4178625.00	0.07203	630850.00	4178625.00	0.07328
631000.00	4178625.00	0.07698	631050.00	4178625.00	0.07821
631100.00	4178625.00	0.07943	631150.00	4178625.00	0.08066
631200.00	4178625.00	0.08193	631250.00	4178625.00	0.08321
631300.00	4178625.00	0.08450	631350.00	4178625.00	0.08582
631400.00	4178625.00	0.08714	631450.00	4178625.00	0.08847
631500.00	4178625.00	0.08976	631100.00	4175700.00	0.07406
631150.00	4175700.00	0.07708	631200.00	4175700.00	0.08006
631250.00	4175700.00	0.08357	631100.00		

4175750.00 0.07361
631150.00 4175750.00 0.07682 629400.00
4179050.00 0.03941
629450.00 4179050.00 0.04025 629500.00
4179050.00 0.04109
629400.00 4179100.00 0.03938 629450.00
4179100.00 0.04020
629400.00 4179150.00 0.03933 629500.00
4179150.00 0.04093
629550.00 4179150.00 0.04173 629600.00
4179150.00 0.04254
629650.00 4179150.00 0.04334 629700.00
4179150.00 0.04413
629800.00 4179200.00 0.04539 629400.00
4179300.00 0.03905
629400.00 4179350.00 0.03891 634375.00
4175350.00 0.72795
634425.00 4175350.00 0.70130 635425.00
4175350.00 0.36302
635425.00 4175400.00 0.37614 635475.00
4175400.00 0.36531
634325.00 4175450.00 0.89618 634475.00
4175450.00 0.78207
634525.00 4175450.00 0.74858 634525.00
4175500.00 0.79571
634325.00 4175550.00 1.03530 634525.00
4175550.00 0.84019
634575.00 4175550.00 0.80027 634775.00
4175550.00 0.66687
634825.00 4175550.00 0.63893 634625.00
4175600.00 0.79594
634675.00 4175600.00 0.75821 634725.00
4175600.00 0.72371
634775.00 4175600.00 0.69122 634825.00
4175600.00 0.66138
634875.00 4175600.00 0.63330 634925.00
4175600.00 0.60720
635375.00 4175600.00 0.43377 634275.00
4175650.00 1.22764
634325.00 4175650.00 1.15251 634575.00
4175650.00 0.86681
634625.00 4175650.00 0.82304 634675.00
4175650.00 0.78313
634725.00 4175650.00 0.74615 634775.00
4175650.00 0.71155
634825.00 4175650.00 0.68005 634875.00
4175650.00 0.65037
634925.00 4175650.00 0.62258 634975.00
4175650.00 0.59707
635025.00 4175650.00 0.57278 635325.00

4175650.00 0.45701
  635375.00 4175650.00 0.44141 634475.00
4175700.00 0.99459
  634525.00 4175700.00 0.93957 634575.00
4175700.00 0.88934
  634625.00 4175700.00 0.84297 634675.00
4175700.00 0.80093

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YARD ***
INCLUDING SOURCE(S): L0007191 , L0007192 , L0007193 , L0007194 , L0007195 ,
  L0007196 , L0007197 , L0007198 , L0007199 , L0007200 , L0007201 , L0007202 , L0007203 ,
  L0007204 , L0007205 , L0007206 , L0007207 , L0007208 , L0007209 , L0007210 , L0007211 ,
  L0007212 , L0007213 , L0007214 , L0007215 , L0007216 , L0007217 , L0007218 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF HRA IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
634725.00	4175700.00	0.76290	634775.00	4175700.00	0.72689
634825.00	4175700.00	0.69322	634875.00	4175700.00	0.66279
634925.00	4175700.00	0.63366	634975.00	4175700.00	0.60722
635025.00	4175700.00	0.58195	635075.00	4175700.00	0.55895
635125.00	4175700.00	0.53716	634425.00	4175750.00	1.07423
634575.00	4175750.00	0.90315	634625.00	4175750.00	0.85562
634675.00	4175750.00	0.81203	634725.00	4175750.00	0.77248

634775.00 4175750.00 0.73541 634825.00 4175750.00 0.70133
634875.00 4175750.00 0.66933 634925.00 4175750.00 0.64005
634975.00 4175750.00 0.61273 635025.00 4175750.00 0.58709
635075.00 4175750.00 0.56359 635125.00 4175750.00 0.54143
635175.00 4175750.00 0.52022 635225.00 4175750.00 0.50108
634325.00 4175800.00 1.22706 634375.00 4175800.00 1.14940
634425.00 4175800.00 1.07868 634475.00 4175800.00 1.01589
634525.00 4175800.00 0.95838 634575.00 4175800.00 0.90538
634625.00 4175800.00 0.85859 634675.00 4175800.00 0.81392
634725.00 4175800.00 0.77414 634775.00 4175800.00 0.73665
634825.00 4175800.00 0.70283 634875.00 4175800.00 0.67038
634925.00 4175800.00 0.64117 634975.00 4175800.00 0.61370
635025.00 4175800.00 0.58799 635075.00 4175800.00 0.56390
635125.00 4175800.00 0.54156 635175.00 4175800.00 0.52093
635225.00 4175800.00 0.50123 635275.00 4175800.00 0.48295
635325.00 4175800.00 0.46531 634225.00 4175850.00 1.39198
634325.00 4175850.00 1.21346 634375.00 4175850.00 1.13648
634425.00 4175850.00 1.06784 634475.00 4175850.00 1.00588
634525.00 4175850.00 0.94927 634575.00 4175850.00 0.89739
634625.00 4175850.00 0.85140 634675.00 4175850.00 0.80746
634725.00 4175850.00 0.76739 634775.00 4175850.00 0.73162
634825.00 4175850.00 0.69745 634875.00 4175850.00 0.66583
634925.00 4175850.00 0.63634 634975.00 4175850.00 0.60930
635025.00 4175850.00 0.58379 635075.00 4175850.00 0.56037
635125.00 4175850.00 0.53832 635175.00 4175850.00 0.51767

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         635225.00    4175850.00        0.49798                       635275.00
4175850.00        0.48001
         635325.00    4175850.00        0.46266                       635375.00
4175850.00        0.44610
         635425.00    4175850.00        0.43072                       634225.00
4175900.00        1.34982
         634325.00    4175900.00        1.18152                       634375.00
4175900.00        1.10811
         634425.00    4175900.00        1.04144                       634475.00
4175900.00        0.98213
         634525.00    4175900.00        0.92804                       634575.00
4175900.00        0.87859
         634625.00    4175900.00        0.83378                       634675.00
4175900.00        0.79290
         634725.00    4175900.00        0.75397                       634775.00
4175900.00        0.71890
🡅 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                         ***       01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                       ***        15:43:26

                                  PAGE 163
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: YARD     ***
                                  INCLUDING SOURCE(S):     L0007191    , L0007192
, L0007193    , L0007194    , L0007195    ,
                L0007196    , L0007197    , L0007198    , L0007199    , L0007200
, L0007201    , L0007202    , L0007203    ,
                L0007204    , L0007205    , L0007206    , L0007207    , L0007208
, L0007209    , L0007210    , L0007211    ,
                L0007212    , L0007213    , L0007214    , L0007215    , L0007216
, L0007217    , L0007218    ,  . . .      ,

                                             *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                        ** CONC OF HRA      IN MICROGRAMS/M**3
                   **

       X-COORD (M)   Y-COORD (M)        CONC                       X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - -
         634875.00    4175900.00        0.65521                       634925.00
4175900.00        0.62650
         634975.00    4175900.00        0.60036                       635025.00
4175900.00        0.57565
         635075.00    4175900.00        0.55275                       635125.00
```

4175900.00 0.53088
635175.00 4175900.00 0.51077 635225.00
4175900.00 0.49181
635275.00 4175900.00 0.47378 635325.00
4175900.00 0.45724
635375.00 4175900.00 0.44073 635425.00
4175900.00 0.42578
635475.00 4175900.00 0.41150 635525.00
4175900.00 0.39807
634325.00 4175950.00 1.13129 634375.00
4175950.00 1.06469
634425.00 4175950.00 1.00339 634475.00
4175950.00 0.94823
634525.00 4175950.00 0.89736 634575.00
4175950.00 0.85068
634625.00 4175950.00 0.80882 634675.00
4175950.00 0.76998
634875.00 4175950.00 0.63889 634925.00
4175950.00 0.61170
634975.00 4175950.00 0.58680 635025.00
4175950.00 0.56302
635075.00 4175950.00 0.54091 635125.00
4175950.00 0.52028
635175.00 4175950.00 0.50090 635225.00
4175950.00 0.48222
635275.00 4175950.00 0.46538 635325.00
4175950.00 0.44862
635375.00 4175950.00 0.43333 635425.00
4175950.00 0.41874
635475.00 4175950.00 0.40488 635525.00
4175950.00 0.39146
635575.00 4175950.00 0.37917 634725.00
4176000.00 0.70687
634925.00 4176000.00 0.59257 634975.00
4176000.00 0.56941
635025.00 4176000.00 0.54714 635075.00
4176000.00 0.52582
635125.00 4176000.00 0.50633 635175.00
4176000.00 0.48770
635225.00 4176000.00 0.47026 635275.00
4176000.00 0.45408
635325.00 4176000.00 0.43815 635375.00
4176000.00 0.42353
635425.00 4176000.00 0.40933 635475.00
4176000.00 0.39608
635525.00 4176000.00 0.38350 635575.00
4176000.00 0.37133
634825.00 4176050.00 0.61854 634875.00
4176050.00 0.59372
634925.00 4176050.00 0.57045 634975.00

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4176050.00        0.54849
         635025.00    4176050.00        0.52759                        635075.00
4176050.00        0.50802
         635125.00    4176050.00        0.48986                        635175.00
4176050.00        0.47242
         635225.00    4176050.00        0.45603                        635275.00
4176050.00        0.44046
         635325.00    4176050.00        0.42565                        635375.00
4176050.00        0.41145
         635425.00    4176050.00        0.39845                        635475.00
4176050.00        0.38572
         635525.00    4176050.00        0.37370                        635575.00
4176050.00        0.36206
         634825.00    4176100.00        0.58910                        634875.00
4176100.00        0.56673
         634925.00    4176100.00        0.54496                        634975.00
4176100.00        0.52496
         635025.00    4176100.00        0.50624                        635075.00
4176100.00        0.48826
         635125.00    4176100.00        0.47116                        635175.00
4176100.00        0.45489
         635225.00    4176100.00        0.43975                        635275.00
4176100.00        0.42526
         635325.00    4176100.00        0.41149                        635375.00
4176100.00        0.39853
 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                          ***       01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                          ***       15:43:26

                                    PAGE 164
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: YARD     ***
                                    INCLUDING SOURCE(S):     L0007191    , L0007192
, L0007193    , L0007194    , L0007195    ,
                  L0007196    , L0007197    , L0007198    , L0007199    , L0007200
, L0007201    , L0007202    , L0007203    ,
                  L0007204    , L0007205    , L0007206    , L0007207    , L0007208
, L0007209    , L0007210    , L0007211    ,
                  L0007212    , L0007213    , L0007214    , L0007215    , L0007216
, L0007217    , L0007218    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                    ** CONC OF HRA      IN MICROGRAMS/M**3
                    **
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X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
635425.00	4176100.00	0.38559	635475.00	4176100.00	0.37399
635525.00	4176100.00	0.36269	635575.00	4176100.00	0.35195
634825.00	4176150.00	0.55786	634875.00	4176150.00	0.53794
634925.00	4176150.00	0.51818	634975.00	4176150.00	0.50014
635025.00	4176150.00	0.48312	635075.00	4176150.00	0.46648
635125.00	4176150.00	0.45119	635175.00	4176150.00	0.43627
635225.00	4176150.00	0.42182	635275.00	4176150.00	0.40886
635325.00	4176150.00	0.39600	635375.00	4176150.00	0.38391
635425.00	4176150.00	0.37196	635475.00	4176150.00	0.36113
635525.00	4176150.00	0.35058	635575.00	4176150.00	0.34054
634875.00	4176200.00	0.50843	634925.00	4176200.00	0.49078
634975.00	4176200.00	0.47428	635125.00	4176200.00	0.42991
635175.00	4176200.00	0.41666	635225.00	4176200.00	0.40353
635525.00	4176200.00	0.33771	635575.00	4176200.00	0.32819
634325.00	4176250.00	0.71078	634375.00	4176250.00	0.68321
634875.00	4176250.00	0.47852	634925.00	4176250.00	0.46333
634975.00	4176250.00	0.44872	635025.00	4176250.00	0.43471
635075.00	4176250.00	0.42124	635125.00	4176250.00	0.40860
635175.00	4176250.00	0.39632	635225.00	4176250.00	0.38496
635275.00	4176250.00	0.37367	635375.00	4176250.00	0.35243
635425.00	4176250.00	0.34272	635525.00	4176250.00	0.32444
635575.00	4176250.00	0.31579	634875.00	4176300.00	0.44933
634925.00	4176300.00	0.43584	634975.00	4176300.00	0.42293

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         635025.00    4176300.00        0.41056                        635075.00
4176300.00        0.39863
         635125.00    4176300.00        0.38729                        635175.00
4176300.00        0.37613
         635225.00    4176300.00        0.36577                        635275.00
4176300.00        0.35599
         635375.00    4176300.00        0.33649                        635425.00
4176300.00        0.32763
         635525.00    4176300.00        0.31081                        635575.00
4176300.00        0.30257
         634875.00    4176350.00        0.42153                        634925.00
4176350.00        0.40957
         634975.00    4176350.00        0.39799                        635025.00
4176350.00        0.38698
         635075.00    4176350.00        0.37628                        635125.00
4176350.00        0.36612
         635175.00    4176350.00        0.35614                        635225.00
4176350.00        0.34708
         635275.00    4176350.00        0.33802                        635375.00
4176350.00        0.32050
         635425.00    4176350.00        0.31247                        635525.00
4176350.00        0.29707
         635575.00    4176350.00        0.28955                        634875.00
4176400.00        0.39581
         634925.00    4176400.00        0.38500                        634975.00
4176400.00        0.37461
         635025.00    4176400.00        0.36464                        635075.00
4176400.00        0.35512
         635125.00    4176400.00        0.34600                        635175.00
4176400.00        0.33724
         635225.00    4176400.00        0.32886                        635275.00
4176400.00        0.32077
         635425.00    4176400.00        0.29760                        635525.00
4176400.00        0.28334
 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                          ***       01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                          ***       15:43:26

                                    PAGE 165
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: YARD     ***
                                    INCLUDING SOURCE(S):     L0007191    , L0007192
, L0007193    , L0007194    , L0007195    ,
                  L0007196    , L0007197    , L0007198    , L0007199    , L0007200
, L0007201    , L0007202    , L0007203    ,
                  L0007204    , L0007205    , L0007206    , L0007207    , L0007208
, L0007209    , L0007210    , L0007211    ,
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L0007212 , L0007213 , L0007214 , L0007215 , L0007216 , L0007217 , L0007218 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF HRA IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
635575.00	4176400.00	0.27683	633650.00	4176200.00	1.52063
633700.00	4176200.00	1.42844	633850.00	4176200.00	1.20981
633850.00	4176250.00	1.06963	633950.00	4176250.00	0.97391
634350.00	4176250.00	0.69718	633750.00	4176300.00	1.05550
633950.00	4176300.00	0.87207	634000.00	4176300.00	0.83631
634050.00	4176300.00	0.80151	634050.00	4176350.00	0.72629
634050.00	4176400.00	0.66224	634000.00	4176450.00	0.63298
634050.00	4176450.00	0.60888	634200.00	4176600.00	0.44244
634100.00	4176650.00	0.44807	634150.00	4176650.00	0.43256
634200.00	4176650.00	0.41681	634200.00	4176850.00	0.33868
634200.00	4176900.00	0.32246	634250.00	4176900.00	0.31350
634300.00	4176900.00	0.30448	634400.00	4177000.00	0.26395
634450.00	4177000.00	0.25632	634500.00	4177000.00	0.24944
634550.00	4177000.00	0.24273	634400.00	4177050.00	0.25348
634450.00	4177050.00	0.24617	634500.00	4177050.00	0.24077
634550.00	4177050.00	0.23478	633750.00	4173175.00	0.04676
634450.00	4173325.00	0.06237	634450.00	4173375.00	0.06551
634350.00	4173475.00	0.06929	634300.00	4173625.00	0.08005
634300.00	4173675.00	0.08484	634350.00		

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4173675.00        0.08642
         634250.00    4173775.00        0.09326                        633950.00
4173825.00        0.08932
         634050.00    4173825.00        0.09165                        634100.00
4173825.00        0.09335
         634250.00    4173825.00        0.09880                        634250.00
4173975.00        0.11841
         634150.00    4174125.00        0.14044                        634200.00
4174125.00        0.14175
         634250.00    4174125.00        0.14272                        634250.00
4174225.00        0.16186
         634350.00    4174225.00        0.16088                        634400.00
4174225.00        0.15970
         634200.00    4174325.00        0.18293                        634250.00
4174325.00        0.18271
         634200.00    4174375.00        0.19398                        634250.00
4174425.00        0.20551
         634000.00    4174475.00        0.21901                        634250.00
4174525.00        0.23468
         634100.00    4174575.00        0.25263                        634150.00
4174575.00        0.25332
         634200.00    4174575.00        0.25168                        634250.00
4174575.00        0.24786
         634250.00    4174625.00        0.26265                        634250.00
4174675.00        0.27838
         634250.00    4174825.00        0.33167                        634250.00
4174875.00        0.35328
         634200.00    4174925.00        0.38863                        634250.00
4174925.00        0.37800
         631950.00    4173950.00        0.02527                        631550.00
4174000.00        0.02531
         631550.00    4174050.00        0.02663                        631750.00
4174250.00        0.03406
         632300.00    4174300.00        0.05969                        632350.00
4174300.00        0.06145
         632300.00    4174350.00        0.06264                        632350.00
4174350.00        0.06498
         631600.00    4174400.00        0.03866                        631650.00
4174400.00        0.04118
         632000.00    4174400.00        0.05269                        632000.00
4174450.00        0.05540
         631950.00    4174500.00        0.05751                        632150.00
4174950.00        0.11182
 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                          ***        01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                          ***       15:43:26

                                   PAGE 166
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*
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*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YARD ***

INCLUDING SOURCE(S): L0007191 , L0007192 , L0007193 , L0007194 , L0007195 , L0007196 , L0007197 , L0007198 , L0007199 , L0007200 , L0007201 , L0007202 , L0007203 , L0007204 , L0007205 , L0007206 , L0007207 , L0007208 , L0007209 , L0007210 , L0007211 , L0007212 , L0007213 , L0007214 , L0007215 , L0007216 , L0007217 , L0007218 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF HRA IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
632200.00	4174950.00	0.11624			

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TANK ***

INCLUDING SOURCE(S): TANK ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF HRA IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
631050.00	4178050.00	0.10253	631150.00	4178250.00	0.09808
631250.00	4178250.00	0.10142	631350.00	4178250.00	0.10503

631450.00 4178250.00 0.10902 631550.00
4178250.00 0.11311
631650.00 4178250.00 0.11619 631750.00
4178250.00 0.11825
631150.00 4178350.00 0.09393 631450.00
4178350.00 0.10419
631550.00 4178350.00 0.10743 631650.00
4178350.00 0.10979
631750.00 4178350.00 0.11119 630650.00
4178450.00 0.07629
630850.00 4178450.00 0.08197 631050.00
4178450.00 0.08730
631150.00 4178450.00 0.09002 631250.00
4178450.00 0.09301
631550.00 4178450.00 0.10193 631650.00
4178450.00 0.10359
631750.00 4178450.00 0.10465 631850.00
4178450.00 0.10626
631950.00 4178450.00 0.10913 632050.00
4178450.00 0.11323
632150.00 4178450.00 0.11802 630550.00
4178550.00 0.07142
630650.00 4178550.00 0.07399 630750.00
4178550.00 0.07656
630950.00 4178550.00 0.08140 631050.00
4178550.00 0.08384
631250.00 4178550.00 0.08929 631350.00
4178550.00 0.09230
631450.00 4178550.00 0.09495 631550.00
4178550.00 0.09676
631650.00 4178550.00 0.09790 631750.00
4178550.00 0.09894
631850.00 4178550.00 0.10075 631950.00
4178550.00 0.10380
632050.00 4178550.00 0.10784 632150.00
4178550.00 0.11194
630450.00 4178650.00 0.06704 630550.00
4178650.00 0.06939
630650.00 4178650.00 0.07169 630750.00
4178650.00 0.07397
630850.00 4178650.00 0.07615 630950.00
4178650.00 0.07831
631050.00 4178650.00 0.08060 631150.00
4178650.00 0.08311
631250.00 4178650.00 0.08583 631350.00
4178650.00 0.08842
631450.00 4178650.00 0.09046 631550.00
4178650.00 0.09181
631650.00 4178650.00 0.09269 631750.00
4178650.00 0.09378

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         631850.00    4178650.00        0.09591                       631950.00
4178650.00        0.09900
         632050.00    4178650.00        0.10278                       632150.00
4178650.00        0.10628
         630350.00    4178750.00        0.06312                       630450.00
4178750.00        0.06523
         630550.00    4178750.00        0.06737                       630650.00
4178750.00        0.06942
         630750.00    4178750.00        0.07142                       630850.00
4178750.00        0.07337
         630950.00    4178750.00        0.07539                       631050.00
4178750.00        0.07759
         631150.00    4178750.00        0.08003                       631250.00
4178750.00        0.08252
         631350.00    4178750.00        0.08465                       631450.00
4178750.00        0.08618
         631550.00    4178750.00        0.08713                       631650.00
4178750.00        0.08797
         631750.00    4178750.00        0.08923                       631850.00
4178750.00        0.09150
         631950.00    4178750.00        0.09466                       632050.00
4178750.00        0.09807
         632150.00    4178750.00        0.10084                       630250.00
4178850.00        0.05956
         630350.00    4178850.00        0.06149                       630450.00
4178850.00        0.06343
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: TANK     ***
                                  INCLUDING SOURCE(S):     TANK        ,

                                            *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                        ** CONC OF HRA      IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                       X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - -
         630550.00    4178850.00        0.06535                       630650.00
4178850.00        0.06714
```

630750.00 4178850.00 0.06895 630850.00
4178850.00 0.07074
630950.00 4178850.00 0.07268 631050.00
4178850.00 0.07482
631150.00 4178850.00 0.07711 631250.00
4178850.00 0.07927
631350.00 4178850.00 0.08097 631450.00
4178850.00 0.08207
631550.00 4178850.00 0.08278 631650.00
4178850.00 0.08362
631750.00 4178850.00 0.08511 631850.00
4178850.00 0.08754
631950.00 4178850.00 0.09063 632050.00
4178850.00 0.09370
632150.00 4178850.00 0.09581 630250.00
4178950.00 0.05808
630350.00 4178950.00 0.05986 630450.00
4178950.00 0.06161
630550.00 4178950.00 0.06333 630650.00
4178950.00 0.06492
630750.00 4178950.00 0.06656 630850.00
4178950.00 0.06825
630950.00 4178950.00 0.07018 631050.00
4178950.00 0.07223
631150.00 4178950.00 0.07432 631250.00
4178950.00 0.07611
631350.00 4178950.00 0.07741 631450.00
4178950.00 0.07816
631550.00 4178950.00 0.07877 631650.00
4178950.00 0.07976
631750.00 4178950.00 0.08143 631850.00
4178950.00 0.08386
631950.00 4178950.00 0.08684 632050.00
4178950.00 0.08951
632150.00 4178950.00 0.09114 629950.00
4179050.00 0.05179
630250.00 4179050.00 0.05661 630350.00
4179050.00 0.05823
630450.00 4179050.00 0.05981 630550.00
4179050.00 0.06132
630650.00 4179050.00 0.06275 630750.00
4179050.00 0.06427
630850.00 4179050.00 0.06595 630950.00
4179050.00 0.06783
631050.00 4179050.00 0.06979 631150.00
4179050.00 0.07160
631250.00 4179050.00 0.07302 631350.00
4179050.00 0.07396
631450.00 4179050.00 0.07454 631550.00
4179050.00 0.07510

```
         631650.00    4179050.00        0.07621                      631750.00
4179050.00        0.07807
         631850.00    4179050.00        0.08054                      631950.00
4179050.00        0.08330
         632050.00    4179050.00        0.08555                      632150.00
4179050.00        0.08673
         629850.00    4179150.00        0.04920                      629950.00
4179150.00        0.05065
         630150.00    4179150.00        0.05362                      630250.00
4179150.00        0.05512
         630350.00    4179150.00        0.05658                      630450.00
4179150.00        0.05799
         630550.00    4179150.00        0.05935                      630650.00
4179150.00        0.06072
         630750.00    4179150.00        0.06217                      630850.00
4179150.00        0.06380
         630950.00    4179150.00        0.06560                      631050.00
4179150.00        0.06740
         631150.00    4179150.00        0.06893                      631250.00
4179150.00        0.07001
         631350.00    4179150.00        0.07065                      631450.00
4179150.00        0.07115
         631550.00    4179150.00        0.07179                      631650.00
4179150.00        0.07305
         631750.00    4179150.00        0.07507                      631850.00
4179150.00        0.07754
         631950.00    4179150.00        0.07973                      632050.00
4179150.00        0.08181
 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                          ***        01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                          ***       15:43:26

                                    PAGE 169
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: TANK     ***
                                    INCLUDING SOURCE(S):     TANK        ,

                                              *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                              ** CONC OF HRA      IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                         X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
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632150.00 4179150.00 0.08261 630850.00 4179250.00 0.06183
630950.00 4179250.00 0.06350 631050.00 4177625.00 0.11799
631100.00 4177725.00 0.11813 631100.00 4177825.00 0.11403
631350.00 4178225.00 0.10625 631400.00 4178225.00 0.10819
631450.00 4178225.00 0.11028 631500.00 4178225.00 0.11245
631100.00 4178275.00 0.09543 631150.00 4178275.00 0.09703
631200.00 4178275.00 0.09864 631250.00 4178275.00 0.10032
631300.00 4178275.00 0.10206 631350.00 4178275.00 0.10385
631400.00 4178275.00 0.10576 631450.00 4178275.00 0.10781
631500.00 4178275.00 0.10985 630950.00 4178325.00 0.08886
631100.00 4178325.00 0.09343 631150.00 4178325.00 0.09495
631200.00 4178325.00 0.09653 631250.00 4178325.00 0.09814
631300.00 4178325.00 0.09985 631400.00 4178325.00 0.10345
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630950.00 4178375.00 0.08718 631200.00 4178375.00 0.09444
631300.00 4178375.00 0.09767 631400.00 4178375.00 0.10122
631450.00 4178375.00 0.10299 631500.00 4178375.00 0.10464
630800.00 4178425.00 0.08125 630850.00 4178425.00 0.08270
631050.00 4178425.00 0.08821 631200.00 4178425.00 0.09245
631250.00 4178425.00 0.09400 631300.00 4178425.00 0.09561
630650.00 4178475.00 0.07572 630800.00 4178475.00 0.07989
630850.00 4178475.00 0.08123 631050.00 4178475.00 0.08642
631200.00 4178475.00 0.09055 631250.00 4178475.00 0.09206
631300.00 4178475.00 0.09362 631450.00 4178475.00 0.09831
631500.00 4178475.00 0.09957 630550.00 4178525.00 0.07193

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         630600.00    4178525.00        0.07325                        630650.00
4178525.00        0.07454
         630700.00    4178525.00        0.07589                        630750.00
4178525.00        0.07721
         630950.00    4178525.00        0.08220                        631050.00
4178525.00        0.08469
         631200.00    4178525.00        0.08872                        631250.00
4178525.00        0.09020
         631300.00    4178525.00        0.09173                        631350.00
4178525.00        0.09328
         631400.00    4178525.00        0.09473                        631450.00
4178525.00        0.09607
         631500.00    4178525.00        0.09713                        630500.00
4178575.00        0.06966
         630550.00    4178575.00        0.07091                        630600.00
4178575.00        0.07217
         630650.00    4178575.00        0.07339                        630700.00
4178575.00        0.07466
         630750.00    4178575.00        0.07592                        630800.00
4178575.00        0.07711
         630850.00    4178575.00        0.07829                        631000.00
4178575.00        0.08181
         631050.00    4178575.00        0.08301                        631200.00
4178575.00        0.08697
         631250.00    4178575.00        0.08841                        631300.00
4178575.00        0.08988
         631350.00    4178575.00        0.09131                        631400.00
4178575.00        0.09265
         631450.00    4178575.00        0.09378                        631500.00
4178575.00        0.09473
 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                        ***        01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                        ***        15:43:26

                                   PAGE 170
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: TANK      ***
                                   INCLUDING SOURCE(S):     TANK        ,

                                             *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF HRA      IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                          X-COORD (M)
Y-COORD (M)        CONC
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- -

630500.00	4178625.00	0.06868	630550.00	4178625.00	0.06990
630600.00	4178625.00	0.07109	630650.00	4178625.00	0.07225
630700.00	4178625.00	0.07345	630750.00	4178625.00	0.07462
630800.00	4178625.00	0.07576	630850.00	4178625.00	0.07688
631000.00	4178625.00	0.08021	631050.00	4178625.00	0.08139
631100.00	4178625.00	0.08261	631150.00	4178625.00	0.08389
631200.00	4178625.00	0.08527	631250.00	4178625.00	0.08668
631300.00	4178625.00	0.08806	631350.00	4178625.00	0.08939
631400.00	4178625.00	0.09056	631450.00	4178625.00	0.09156
631500.00	4178625.00	0.09238	631100.00	4175700.00	0.08800
631150.00	4175700.00	0.09210	631200.00	4175700.00	0.09616
631250.00	4175700.00	0.10101	631100.00	4175750.00	0.08618
631150.00	4175750.00	0.09042	629400.00	4179050.00	0.04261
629450.00	4179050.00	0.04352	629500.00	4179050.00	0.04441
629400.00	4179100.00	0.04253	629450.00	4179100.00	0.04340
629400.00	4179150.00	0.04241	629500.00	4179150.00	0.04403
629550.00	4179150.00	0.04482	629600.00	4179150.00	0.04559
629650.00	4179150.00	0.04634	629700.00	4179150.00	0.04707
629800.00	4179200.00	0.04801	629400.00	4179300.00	0.04181
629400.00	4179350.00	0.04155	634375.00	4175350.00	0.80150
634425.00	4175350.00	0.75685	635425.00	4175350.00	0.34222
635425.00	4175400.00	0.35385	635475.00	4175400.00	0.34380
634325.00	4175450.00	0.98925	634475.00	4175450.00	0.81075
634525.00	4175450.00	0.76444	634525.00	4175500.00	0.80684

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         634325.00    4175550.00        1.11499                      634525.00
4175550.00        0.83679
         634575.00    4175550.00        0.78670                      634775.00
4175550.00        0.63168
         634825.00    4175550.00        0.60201                      634625.00
4175600.00        0.74668
         634675.00    4175600.00        0.70668                      634725.00
4175600.00        0.67111
         634775.00    4175600.00        0.63851                      634825.00
4175600.00        0.60852
         634875.00    4175600.00        0.58169                      634925.00
4175600.00        0.55717
         635375.00    4175600.00        0.40101                      634275.00
4175650.00        1.16641
         634325.00    4175650.00        1.07943                      634575.00
4175650.00        0.78086
         634625.00    4175650.00        0.73989                      634675.00
4175650.00        0.70173
         634725.00    4175650.00        0.66871                      634775.00
4175650.00        0.63823
         634825.00    4175650.00        0.61073                      634875.00
4175650.00        0.58505
         634925.00    4175650.00        0.56115                      634975.00
4175650.00        0.53928
         635025.00    4175650.00        0.51853                      635325.00
4175650.00        0.41950
         635375.00    4175650.00        0.40607                      634475.00
4175700.00        0.85728
         634525.00    4175700.00        0.81244                      634575.00
4175700.00        0.77176
         634625.00    4175700.00        0.73436                      634675.00
4175700.00        0.70049
 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                          ***       01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                          ***       15:43:26

                                    PAGE 171
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: TANK     ***
                                    INCLUDING SOURCE(S):     TANK        ,

                                              *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                              ** CONC OF HRA      IN MICROGRAMS/M**3
                  **
```

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
634725.00	4175700.00	0.66982	634775.00	4175700.00	0.64076
634825.00	4175700.00	0.61353	634875.00	4175700.00	0.58881
634925.00	4175700.00	0.56507	634975.00	4175700.00	0.54340
635025.00	4175700.00	0.52261	635075.00	4175700.00	0.50358
635125.00	4175700.00	0.48547	634425.00	4175750.00	0.89748
634575.00	4175750.00	0.77074	634625.00	4175750.00	0.73481
634675.00	4175750.00	0.70153	634725.00	4175750.00	0.67105
634775.00	4175750.00	0.64222	634825.00	4175750.00	0.61548
634875.00	4175750.00	0.59016	634925.00	4175750.00	0.56680
634975.00	4175750.00	0.54485	635025.00	4175750.00	0.52409
635075.00	4175750.00	0.50493	635125.00	4175750.00	0.48675
635175.00	4175750.00	0.46926	635225.00	4175750.00	0.45336
634325.00	4175800.00	0.99319	634375.00	4175800.00	0.93990
634425.00	4175800.00	0.89051	634475.00	4175800.00	0.84592
634525.00	4175800.00	0.80446	634575.00	4175800.00	0.76572
634625.00	4175800.00	0.73104	634675.00	4175800.00	0.69756
634725.00	4175800.00	0.66738	634775.00	4175800.00	0.63865
634825.00	4175800.00	0.61247	634875.00	4175800.00	0.58713
634925.00	4175800.00	0.56412	634975.00	4175800.00	0.54229
635025.00	4175800.00	0.52172	635075.00	4175800.00	0.50232
635125.00	4175800.00	0.48420	635175.00	4175800.00	0.46734
635225.00	4175800.00	0.45117	635275.00	4175800.00	0.43607
635325.00	4175800.00	0.42143	634225.00	4175850.00	1.09026

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         634325.00    4175850.00        0.97313                       634375.00
4175850.00        0.92104
         634425.00    4175850.00        0.87373                       634475.00
4175850.00        0.83031
         634525.00    4175850.00        0.79003                       634575.00
4175850.00        0.75260
         634625.00    4175850.00        0.71896                       634675.00
4175850.00        0.68645
         634725.00    4175850.00        0.65647                       634775.00
4175850.00        0.62940
         634825.00    4175850.00        0.60330                       634875.00
4175850.00        0.57893
         634925.00    4175850.00        0.55601                       634975.00
4175850.00        0.53480
         635025.00    4175850.00        0.51464                       635075.00
4175850.00        0.49600
         635125.00    4175850.00        0.47833                       635175.00
4175850.00        0.46167
         635225.00    4175850.00        0.44570                       635275.00
4175850.00        0.43102
         635325.00    4175850.00        0.41678                       635375.00
4175850.00        0.40312
         635425.00    4175850.00        0.39036                       634225.00
4175900.00        1.04829
         634325.00    4175900.00        0.93907                       634375.00
4175900.00        0.89001
         634425.00    4175900.00        0.84467                       634475.00
4175900.00        0.80366
         634525.00    4175900.00        0.76570                       634575.00
4175900.00        0.73052
         634625.00    4175900.00        0.69823                       634675.00
4175900.00        0.66841
         634725.00    4175900.00        0.63971                       634775.00
4175900.00        0.61356
 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                          ***       01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                          ***      15:43:26

                                   PAGE 172
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: TANK      ***
                                   INCLUDING SOURCE(S):     TANK        ,

                                              *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF HRA      IN MICROGRAMS/M**3
```

**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
634875.00	4175900.00	0.56540	634925.00	4175900.00	0.54339
634975.00	4175900.00	0.52318	635025.00	4175900.00	0.50392
635075.00	4175900.00	0.48594	635125.00	4175900.00	0.46865
635175.00	4175900.00	0.45264	635225.00	4175900.00	0.43744
635275.00	4175900.00	0.42290	635325.00	4175900.00	0.40948
635375.00	4175900.00	0.39602	635425.00	4175900.00	0.38376
635475.00	4175900.00	0.37199	635525.00	4175900.00	0.36087
634325.00	4175950.00	0.89242	634375.00	4175950.00	0.84843
634425.00	4175950.00	0.80726	634475.00	4175950.00	0.76962
634525.00	4175950.00	0.73441	634575.00	4175950.00	0.70166
634625.00	4175950.00	0.67190	634675.00	4175950.00	0.64398
634875.00	4175950.00	0.54726	634925.00	4175950.00	0.52670
634975.00	4175950.00	0.50770	635025.00	4175950.00	0.48942
635075.00	4175950.00	0.47228	635125.00	4175950.00	0.45618
635175.00	4175950.00	0.44095	635225.00	4175950.00	0.42617
635275.00	4175950.00	0.41276	635325.00	4175950.00	0.39933
635375.00	4175950.00	0.38701	635425.00	4175950.00	0.37519
635475.00	4175950.00	0.36389	635525.00	4175950.00	0.35291
635575.00	4175950.00	0.34280	634725.00	4176000.00	0.59102
634925.00	4176000.00	0.50681	634975.00	4176000.00	0.48935
635025.00	4176000.00	0.47242	635075.00	4176000.00	0.45610
635125.00	4176000.00	0.44106	635175.00	4176000.00	0.42659

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         635225.00    4176000.00        0.41294                      635275.00
4176000.00        0.40021
         635325.00    4176000.00        0.38759                      635375.00
4176000.00        0.37595
         635425.00    4176000.00        0.36457                      635475.00
4176000.00        0.35390
         635525.00    4176000.00        0.34370                      635575.00
4176000.00        0.33380
         634825.00    4176050.00        0.52064                      634875.00
4176050.00        0.50239
         634925.00    4176050.00        0.48513                      634975.00
4176050.00        0.46872
         635025.00    4176050.00        0.45297                      635075.00
4176050.00        0.43811
         635125.00    4176050.00        0.42423                      635175.00
4176050.00        0.41080
         635225.00    4176050.00        0.39809                      635275.00
4176050.00        0.38595
         635325.00    4176050.00        0.37433                      635375.00
4176050.00        0.36313
         635425.00    4176050.00        0.35281                      635475.00
4176050.00        0.34265
         635525.00    4176050.00        0.33302                      635575.00
4176050.00        0.32363
         634825.00    4176100.00        0.49403                      634875.00
4176100.00        0.47767
         634925.00    4176100.00        0.46161                      634975.00
4176100.00        0.44673
         635025.00    4176100.00        0.43271                      635075.00
4176100.00        0.41913
         635125.00    4176100.00        0.40613                      635175.00
4176100.00        0.39368
         635225.00    4176100.00        0.38202                      635275.00
4176100.00        0.37079
         635325.00    4176100.00        0.36006                      635375.00
4176100.00        0.34990
 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                          ***       01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                          ***       15:43:26

                                    PAGE 173
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: TANK       ***
                                    INCLUDING SOURCE(S):     TANK        ,

                                              *** DISCRETE CARTESIAN RECEPTOR POINTS
***
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** CONC OF HRA IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
635425.00	4176100.00	0.33970	635475.00	4176100.00	0.33051
635525.00	4176100.00	0.32152	635575.00	4176100.00	0.31292
634825.00	4176150.00	0.46680	634875.00	4176150.00	0.45230
634925.00	4176150.00	0.43778	634975.00	4176150.00	0.42442
635025.00	4176150.00	0.41171	635075.00	4176150.00	0.39920
635125.00	4176150.00	0.38761	635175.00	4176150.00	0.37624
635225.00	4176150.00	0.36515	635275.00	4176150.00	0.35515
635325.00	4176150.00	0.34516	635375.00	4176150.00	0.33572
635425.00	4176150.00	0.32634	635475.00	4176150.00	0.31780
635525.00	4176150.00	0.30944	635575.00	4176150.00	0.30145
634875.00	4176200.00	0.42684	634925.00	4176200.00	0.41395
634975.00	4176200.00	0.40179	635125.00	4176200.00	0.36857
635175.00	4176200.00	0.35850	635225.00	4176200.00	0.34846
635525.00	4176200.00	0.29712	635575.00	4176200.00	0.28955
634325.00	4176250.00	0.56028	634375.00	4176250.00	0.54183
634875.00	4176250.00	0.40130	634925.00	4176250.00	0.39031
634975.00	4176250.00	0.37963	635025.00	4176250.00	0.36930
635075.00	4176250.00	0.35927	635125.00	4176250.00	0.34979
635175.00	4176250.00	0.34052	635225.00	4176250.00	0.33187
635275.00	4176250.00	0.32322	635375.00	4176250.00	0.30678
635425.00	4176250.00	0.29920	635525.00	4176250.00	0.28481

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         635575.00    4176250.00        0.27795                        634875.00
4176300.00        0.37640
         634925.00    4176300.00        0.36673                        634975.00
4176300.00        0.35739
         635025.00    4176300.00        0.34837                        635075.00
4176300.00        0.33957
         635125.00    4176300.00        0.33115                        635175.00
4176300.00        0.32278
         635225.00    4176300.00        0.31496                        635275.00
4176300.00        0.30752
         635375.00    4176300.00        0.29252                        635425.00
4176300.00        0.28563
         635525.00    4176300.00        0.27246                        635575.00
4176300.00        0.26594
         634875.00    4176350.00        0.35272                        634925.00
4176350.00        0.34419
         634975.00    4176350.00        0.33587                        635025.00
4176350.00        0.32791
         635075.00    4176350.00        0.32011                        635125.00
4176350.00        0.31264
         635175.00    4176350.00        0.30524                        635225.00
4176350.00        0.29848
         635275.00    4176350.00        0.29166                        635375.00
4176350.00        0.27830
         635425.00    4176350.00        0.27212                        635525.00
4176350.00        0.26012
         635575.00    4176350.00        0.25422                        634875.00
4176400.00        0.33099
         634925.00    4176400.00        0.32322                        634975.00
4176400.00        0.31574
         635025.00    4176400.00        0.30853                        635075.00
4176400.00        0.30163
         635125.00    4176400.00        0.29498                        635175.00
4176400.00        0.28856
         635225.00    4176400.00        0.28237                        635275.00
4176400.00        0.27635
         635425.00    4176400.00        0.25883                        635525.00
4176400.00        0.24784
 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                          ***       01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                          ***      15:43:26

                                   PAGE 174
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: TANK      ***
                                   INCLUDING SOURCE(S):     TANK        ,
```

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF HRA IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
635575.00	4176400.00	0.24278	633650.00	4176200.00	1.04540
633700.00	4176200.00	1.00216	633850.00	4176200.00	0.88409
633850.00	4176250.00	0.79333	633950.00	4176250.00	0.73585
634350.00	4176250.00	0.55118	633750.00	4176300.00	0.76423
633950.00	4176300.00	0.66708	634000.00	4176300.00	0.64487
634050.00	4176300.00	0.62216	634050.00	4176350.00	0.56956
634050.00	4176400.00	0.52210	634000.00	4176450.00	0.49440
634050.00	4176450.00	0.48072	634200.00	4176600.00	0.35895
634100.00	4176650.00	0.35953	634150.00	4176650.00	0.34899
634200.00	4176650.00	0.33847	634200.00	4176850.00	0.28230
634200.00	4176900.00	0.27210	634250.00	4176900.00	0.26395
634300.00	4176900.00	0.25628	634400.00	4177000.00	0.22592
634450.00	4177000.00	0.21911	634500.00	4177000.00	0.21295
634550.00	4177000.00	0.20711	634400.00	4177050.00	0.21903
634450.00	4177050.00	0.21235	634500.00	4177050.00	0.20717
634550.00	4177050.00	0.20161	633750.00	4173175.00	0.05057
634450.00	4173325.00	0.06934	634450.00	4173375.00	0.07266
634350.00	4173475.00	0.07754	634300.00	4173625.00	0.08958
634300.00	4173675.00	0.09482	634350.00	4173675.00	0.09620
634250.00	4173775.00	0.10474	633950.00	4173825.00	0.10057

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         634050.00    4173825.00        0.10473                        634100.00
4173825.00        0.10649
         634250.00    4173825.00        0.11114                        634250.00
4173975.00        0.13306
         634150.00    4174125.00        0.16014                        634200.00
4174125.00        0.15871
         634250.00    4174125.00        0.15659                        634250.00
4174225.00        0.17406
         634350.00    4174225.00        0.16673                        634400.00
4174225.00        0.16286
         634200.00    4174325.00        0.19787                        634250.00
4174325.00        0.19424
         634200.00    4174375.00        0.20864                        634250.00
4174425.00        0.22217
         634000.00    4174475.00        0.25580                        634250.00
4174525.00        0.24433
         634100.00    4174575.00        0.27852                        634150.00
4174575.00        0.27708
         634200.00    4174575.00        0.26663                        634250.00
4174575.00        0.25667
         634250.00    4174625.00        0.27112                        634250.00
4174675.00        0.28757
         634250.00    4174825.00        0.35442                        634250.00
4174875.00        0.38490
         634200.00    4174925.00        0.43453                        634250.00
4174925.00        0.41869
         631950.00    4173950.00        0.03200                        631550.00
4174000.00        0.02789
         631550.00    4174050.00        0.02989                        631750.00
4174250.00        0.03957
         632300.00    4174300.00        0.07677                        632350.00
4174300.00        0.07911
         632300.00    4174350.00        0.08236                        632350.00
4174350.00        0.08513
         631600.00    4174400.00        0.04452                        631650.00
4174400.00        0.04948
         632000.00    4174400.00        0.07124                        632000.00
4174450.00        0.07295
         631950.00    4174500.00        0.07164                        632150.00
4174950.00        0.16845
 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                          ***        01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                          ***       15:43:26

                                    PAGE 175
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: TANK     ***
```

INCLUDING SOURCE(S): TANK ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF HRA IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
632200.00	4174950.00	0.18080			

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: FORK ***

INCLUDING SOURCE(S): L0011492 , L0011493 , L0011494 , L0011495 , L0011496 , L0011497 , L0011498 , L0011499 , L0011500 , L0011501 , L0011502 , L0011503 , L0011504 , L0011505 , L0011506 , L0011507 , L0011508 , L0011509 , L0011510 , L0011511 , L0011512 , L0011513 , L0011514 , L0011515 , L0011516 , L0011517 , L0011518 , L0011519 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF HRA IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
631050.00	4178050.00	0.09508	631150.00	4178250.00	0.09289
631250.00	4178250.00	0.09648	631350.00	4178250.00	0.10007
631450.00	4178250.00	0.10370	631550.00	4178250.00	0.10747
631650.00	4178250.00	0.11136	631750.00		

4178250.00 0.11506
631150.00 4178350.00 0.08951 631450.00
4178350.00 0.09924
631550.00 4178350.00 0.10269 631650.00
4178350.00 0.10622
631750.00 4178350.00 0.10933 630650.00
4178450.00 0.07159
630850.00 4178450.00 0.07745 631050.00
4178450.00 0.08331
631150.00 4178450.00 0.08617 631250.00
4178450.00 0.08905
631550.00 4178450.00 0.09818 631650.00
4178450.00 0.10120
631750.00 4178450.00 0.10373 631850.00
4178450.00 0.10576
631950.00 4178450.00 0.10752 632050.00
4178450.00 0.10966
632150.00 4178450.00 0.11258 630550.00
4178550.00 0.06717
630650.00 4178550.00 0.06981 630750.00
4178550.00 0.07247
630950.00 4178550.00 0.07775 631050.00
4178550.00 0.08038
631250.00 4178550.00 0.08556 631350.00
4178550.00 0.08829
631450.00 4178550.00 0.09117 631550.00
4178550.00 0.09397
631650.00 4178550.00 0.09650 631750.00
4178550.00 0.09856
631850.00 4178550.00 0.10016 631950.00
4178550.00 0.10176
632050.00 4178550.00 0.10395 632150.00
4178550.00 0.10683
630450.00 4178650.00 0.06320 630550.00
4178650.00 0.06560
630650.00 4178650.00 0.06797 630750.00
4178650.00 0.07039
630850.00 4178650.00 0.07279 630950.00
4178650.00 0.07516
631050.00 4178650.00 0.07751 631150.00
4178650.00 0.07985
631250.00 4178650.00 0.08227 631350.00
4178650.00 0.08482
631450.00 4178650.00 0.08744 631550.00
4178650.00 0.08993
631650.00 4178650.00 0.09204 631750.00
4178650.00 0.09363
631850.00 4178650.00 0.09504 631950.00
4178650.00 0.09655
632050.00 4178650.00 0.09877 632150.00

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4178650.00        0.10170
         630350.00    4178750.00        0.05962                        630450.00
4178750.00        0.06178
         630550.00    4178750.00        0.06397                        630650.00
4178750.00        0.06614
         630750.00    4178750.00        0.06832                        630850.00
4178750.00        0.07049
         630950.00    4178750.00        0.07262                        631050.00
4178750.00        0.07473
         631150.00    4178750.00        0.07690                        631250.00
4178750.00        0.07919
         631350.00    4178750.00        0.08157                        631450.00
4178750.00        0.08392
         631550.00    4178750.00        0.08604                        631650.00
4178750.00        0.08778
         631750.00    4178750.00        0.08904                        631850.00
4178750.00        0.09026
         631950.00    4178750.00        0.09187                        632050.00
4178750.00        0.09408
         632150.00    4178750.00        0.09692                        630250.00
4178850.00        0.05637
         630350.00    4178850.00        0.05835                        630450.00
4178850.00        0.06032
 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                          ***        01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                          ***       15:43:26

                                    PAGE 177
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: FORK     ***
                                    INCLUDING SOURCE(S):     L0011492    , L0011493
, L0011494    , L0011495    , L0011496    ,
                  L0011497    , L0011498    , L0011499    , L0011500    , L0011501
, L0011502    , L0011503    , L0011504    ,
                  L0011505    , L0011506    , L0011507    , L0011508    , L0011509
, L0011510    , L0011511    , L0011512    ,
                  L0011513    , L0011514    , L0011515    , L0011516    , L0011517
, L0011518    , L0011519    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                            ** CONC OF HRA      IN MICROGRAMS/M**3
                    **

       X-COORD (M)   Y-COORD (M)        CONC                         X-COORD (M)
Y-COORD (M)        CONC
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- -

630550.00	4178850.00	0.06232	630650.00	4178850.00	0.06428
630750.00	4178850.00	0.06628	630850.00	4178850.00	0.06822
630950.00	4178850.00	0.07014	631050.00	4178850.00	0.07207
631150.00	4178850.00	0.07411	631250.00	4178850.00	0.07627
631350.00	4178850.00	0.07848	631450.00	4178850.00	0.08054
631550.00	4178850.00	0.08230	631650.00	4178850.00	0.08365
631750.00	4178850.00	0.08473	631850.00	4178850.00	0.08592
631950.00	4178850.00	0.08760	632050.00	4178850.00	0.08988
632150.00	4178850.00	0.09257	630250.00	4178950.00	0.05521
630350.00	4178950.00	0.05701	630450.00	4178950.00	0.05882
630550.00	4178950.00	0.06067	630650.00	4178950.00	0.06245
630750.00	4178950.00	0.06424	630850.00	4178950.00	0.06598
630950.00	4178950.00	0.06776	631050.00	4178950.00	0.06957
631150.00	4178950.00	0.07151	631250.00	4178950.00	0.07354
631350.00	4178950.00	0.07554	631450.00	4178950.00	0.07728
631550.00	4178950.00	0.07870	631650.00	4178950.00	0.07981
631750.00	4178950.00	0.08074	631850.00	4178950.00	0.08189
631950.00	4178950.00	0.08369	632050.00	4178950.00	0.08598
632150.00	4178950.00	0.08856	629950.00	4179050.00	0.04902
630250.00	4179050.00	0.05400	630350.00	4179050.00	0.05565
630450.00	4179050.00	0.05734	630550.00	4179050.00	0.05900
630650.00	4179050.00	0.06061	630750.00	4179050.00	0.06221
630850.00	4179050.00	0.06382	630950.00	4179050.00	0.06549
631050.00	4179050.00	0.06722	631150.00	4179050.00	0.06906

```
         631250.00    4179050.00        0.07093                        631350.00
4179050.00        0.07269
         631450.00    4179050.00        0.07417                        631550.00
4179050.00        0.07524
         631650.00    4179050.00        0.07613                        631750.00
4179050.00        0.07705
         631850.00    4179050.00        0.07829                        631950.00
4179050.00        0.08014
         632050.00    4179050.00        0.08239                        632150.00
4179050.00        0.08477
         629850.00    4179150.00        0.04665                        629950.00
4179150.00        0.04819
         630150.00    4179150.00        0.05122                        630250.00
4179150.00        0.05275
         630350.00    4179150.00        0.05428                        630450.00
4179150.00        0.05582
         630550.00    4179150.00        0.05735                        630650.00
4179150.00        0.05883
         630750.00    4179150.00        0.06027                        630850.00
4179150.00        0.06174
         630950.00    4179150.00        0.06331                        631050.00
4179150.00        0.06499
         631150.00    4179150.00        0.06674                        631250.00
4179150.00        0.06843
         631350.00    4179150.00        0.06992                        631450.00
4179150.00        0.07114
         631550.00    4179150.00        0.07198                        631650.00
4179150.00        0.07274
         631750.00    4179150.00        0.07372                        631850.00
4179150.00        0.07509
         631950.00    4179150.00        0.07669                        632050.00
4179150.00        0.07907
 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                          ***        01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                          ***       15:43:26

                                    PAGE 178
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: FORK     ***
                                    INCLUDING SOURCE(S):     L0011492    , L0011493
, L0011494    , L0011495    , L0011496    ,
                  L0011497    , L0011498    , L0011499    , L0011500    , L0011501
, L0011502    , L0011503    , L0011504    ,
                  L0011505    , L0011506    , L0011507    , L0011508    , L0011509
, L0011510    , L0011511    , L0011512    ,
                  L0011513    , L0011514    , L0011515    , L0011516    , L0011517
, L0011518    , L0011519    ,  . . .      ,
```

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF HRA IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
632150.00	4179150.00	0.08120	630850.00	4179250.00	0.05979
630950.00	4179250.00	0.06129	631050.00	4177625.00	0.10305
631100.00	4177725.00	0.10565	631100.00	4177825.00	0.10362
631350.00	4178225.00	0.10115	631400.00	4178225.00	0.10299
631450.00	4178225.00	0.10486	631500.00	4178225.00	0.10677
631100.00	4178275.00	0.09028	631150.00	4178275.00	0.09205
631200.00	4178275.00	0.09380	631250.00	4178275.00	0.09554
631300.00	4178275.00	0.09728	631350.00	4178275.00	0.09902
631400.00	4178275.00	0.10078	631450.00	4178275.00	0.10258
631500.00	4178275.00	0.10441	630950.00	4178325.00	0.08368
631100.00	4178325.00	0.08870	631150.00	4178325.00	0.09036
631200.00	4178325.00	0.09203	631250.00	4178325.00	0.09366
631300.00	4178325.00	0.09532	631400.00	4178325.00	0.09861
631450.00	4178325.00	0.10035	631500.00	4178325.00	0.10210
630950.00	4178375.00	0.08237	631200.00	4178375.00	0.09023
631300.00	4178375.00	0.09334	631400.00	4178375.00	0.09653
631450.00	4178375.00	0.09816	631500.00	4178375.00	0.09985
630800.00	4178425.00	0.07652	630850.00	4178425.00	0.07803
631050.00	4178425.00	0.08405	631200.00	4178425.00	0.08848
631250.00	4178425.00	0.08996	631300.00		

4178425.00   0.09144
         630650.00   4178475.00   0.07115   630800.00
4178475.00   0.07545
         630850.00   4178475.00   0.07687   631050.00
4178475.00   0.08257
         631200.00   4178475.00   0.08676   631250.00
4178475.00   0.08816
         631300.00   4178475.00   0.08958   631450.00
4178475.00   0.09404
         631500.00   4178475.00   0.09557   630550.00
4178525.00   0.06755
         630600.00   4178525.00   0.06891   630650.00
4178525.00   0.07024
         630700.00   4178525.00   0.07162   630750.00
4178525.00   0.07299
         630950.00   4178525.00   0.07840   631050.00
4178525.00   0.08111
         631200.00   4178525.00   0.08508   631250.00
4178525.00   0.08642
         631300.00   4178525.00   0.08778   631350.00
4178525.00   0.08919
         631400.00   4178525.00   0.09062   631450.00
4178525.00   0.09213
         631500.00   4178525.00   0.09356   630500.00
4178575.00   0.06550
         630550.00   4178575.00   0.06679   630600.00
4178575.00   0.06808
         630650.00   4178575.00   0.06933   630700.00
4178575.00   0.07064
         630750.00   4178575.00   0.07196   630800.00
4178575.00   0.07324
         630850.00   4178575.00   0.07453   631000.00
4178575.00   0.07840
         631050.00   4178575.00   0.07966   631200.00
4178575.00   0.08344
         631250.00   4178575.00   0.08472   631300.00
4178575.00   0.08604
         631350.00   4178575.00   0.08739   631400.00
4178575.00   0.08880
         631450.00   4178575.00   0.09019   631500.00
4178575.00   0.09159

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                              *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION

VALUES FOR SOURCE GROUP: FORK ***
INCLUDING SOURCE(S): L0011492 , L0011493
, L0011494 , L0011495 , L0011496 ,
L0011497 , L0011498 , L0011499 , L0011500 , L0011501
, L0011502 , L0011503 , L0011504 ,
L0011505 , L0011506 , L0011507 , L0011508 , L0011509
, L0011510 , L0011511 , L0011512 ,
L0011513 , L0011514 , L0011515 , L0011516 , L0011517
, L0011518 , L0011519 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS
***

** CONC OF HRA IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
630500.00	4178625.00	0.06476	630550.00	4178625.00	0.06600
630600.00	4178625.00	0.06722	630650.00	4178625.00	0.06842
630700.00	4178625.00	0.06967	630750.00	4178625.00	0.07091
630800.00	4178625.00	0.07216	630850.00	4178625.00	0.07339
631000.00	4178625.00	0.07702	631050.00	4178625.00	0.07822
631100.00	4178625.00	0.07941	631150.00	4178625.00	0.08059
631200.00	4178625.00	0.08182	631250.00	4178625.00	0.08308
631300.00	4178625.00	0.08435	631350.00	4178625.00	0.08567
631400.00	4178625.00	0.08701	631450.00	4178625.00	0.08835
631500.00	4178625.00	0.08966	631100.00	4175700.00	0.07532
631150.00	4175700.00	0.07843	631200.00	4175700.00	0.08148
631250.00	4175700.00	0.08509	631100.00	4175750.00	0.07455
631150.00	4175750.00	0.07783	629400.00	4179050.00	0.03927
629450.00	4179050.00	0.04015	629500.00	4179050.00	0.04104
629400.00	4179100.00	0.03929	629450.00	4179100.00	0.04015

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         629400.00    4179150.00        0.03929                    629500.00
4179150.00        0.04096
         629550.00    4179150.00        0.04181                    629600.00
4179150.00        0.04264
         629650.00    4179150.00        0.04347                    629700.00
4179150.00        0.04428
         629800.00    4179200.00        0.04555                    629400.00
4179300.00        0.03912
         629400.00    4179350.00        0.03901                    634375.00
4175350.00        0.72012
         634425.00    4175350.00        0.69479                    635425.00
4175350.00        0.36509
         635425.00    4175400.00        0.37919                    635475.00
4175400.00        0.36839
         634325.00    4175450.00        0.89344                    634475.00
4175450.00        0.78233
         634525.00    4175450.00        0.74954                    634525.00
4175500.00        0.79979
         634325.00    4175550.00        1.04145                    634525.00
4175550.00        0.84779
         634575.00    4175550.00        0.80801                    634775.00
4175550.00        0.67473
         634825.00    4175550.00        0.64674                    634625.00
4175600.00        0.80704
         634675.00    4175600.00        0.76912                    634725.00
4175600.00        0.73439
         634775.00    4175600.00        0.70169                    634825.00
4175600.00        0.67159
         634875.00    4175600.00        0.64327                    634925.00
4175600.00        0.61693
         635375.00    4175600.00        0.44139                    634275.00
4175650.00        1.24517
         634325.00    4175650.00        1.16962                    634575.00
4175650.00        0.88155
         634625.00    4175650.00        0.83731                    634675.00
4175650.00        0.79693
         634725.00    4175650.00        0.75948                    634775.00
4175650.00        0.72445
         634825.00    4175650.00        0.69250                    634875.00
4175650.00        0.66240
         634925.00    4175650.00        0.63421                    634975.00
4175650.00        0.60831
         635025.00    4175650.00        0.58366                    635325.00
4175650.00        0.46590
         635375.00    4175650.00        0.45001                    634475.00
4175700.00        1.01392
         634525.00    4175700.00        0.95806                    634575.00
4175700.00        0.90704
         634625.00    4175700.00        0.85993                    634675.00
4175700.00        0.81716
```

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: FORK ***
INCLUDING SOURCE(S): L0011492 , L0011493
, L0011494 , L0011495 , L0011496 ,
L0011497 , L0011498 , L0011499 , L0011500 , L0011501
, L0011502 , L0011503 , L0011504 ,
L0011505 , L0011506 , L0011507 , L0011508 , L0011509
, L0011510 , L0011511 , L0011512 ,
L0011513 , L0011514 , L0011515 , L0011516 , L0011517
, L0011518 , L0011519 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS
***

** CONC OF HRA IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
634725.00	4175700.00	0.77841	634775.00	4175700.00	0.74176
634825.00	4175700.00	0.70751	634875.00	4175700.00	0.67649
634925.00	4175700.00	0.64684	634975.00	4175700.00	0.61987
635025.00	4175700.00	0.59413	635075.00	4175700.00	0.57066
635125.00	4175700.00	0.54843	634425.00	4175750.00	1.09718
634575.00	4175750.00	0.92274	634625.00	4175750.00	0.87426
634675.00	4175750.00	0.82978	634725.00	4175750.00	0.78938
634775.00	4175750.00	0.75156	634825.00	4175750.00	0.71675
634875.00	4175750.00	0.68410	634925.00	4175750.00	0.65418
634975.00	4175750.00	0.62627	635025.00	4175750.00	0.60008
635075.00	4175750.00	0.57605	635125.00		

4175750.00 0.55339
635175.00 4175750.00 0.53173 635225.00
4175750.00 0.51213
634325.00 4175800.00 1.25370 634375.00
4175800.00 1.17447
634425.00 4175800.00 1.10236 634475.00
4175800.00 1.03824
634525.00 4175800.00 0.97954 634575.00
4175800.00 0.92547
634625.00 4175800.00 0.87761 634675.00
4175800.00 0.83204
634725.00 4175800.00 0.79137 634775.00
4175800.00 0.75309
634825.00 4175800.00 0.71850 634875.00
4175800.00 0.68538
634925.00 4175800.00 0.65550 634975.00
4175800.00 0.62742
635025.00 4175800.00 0.60114 635075.00
4175800.00 0.57652
635125.00 4175800.00 0.55368 635175.00
4175800.00 0.53256
635225.00 4175800.00 0.51242 635275.00
4175800.00 0.49371
635325.00 4175800.00 0.47568 634225.00
4175850.00 1.42000
634325.00 4175850.00 1.23820 634375.00
4175850.00 1.15987
634425.00 4175850.00 1.08996 634475.00
4175850.00 1.02682
634525.00 4175850.00 0.96915 634575.00
4175850.00 0.91630
634625.00 4175850.00 0.86934 634675.00
4175850.00 0.82459
634725.00 4175850.00 0.78375 634775.00
4175850.00 0.74720
634825.00 4175850.00 0.71236 634875.00
4175850.00 0.68012
634925.00 4175850.00 0.65004 634975.00
4175850.00 0.62244
635025.00 4175850.00 0.59640 635075.00
4175850.00 0.57249
635125.00 4175850.00 0.54996 635175.00
4175850.00 0.52887
635225.00 4175850.00 0.50878 635275.00
4175850.00 0.49040
635325.00 4175850.00 0.47269 635375.00
4175850.00 0.45579
635425.00 4175850.00 0.44008 634225.00
4175900.00 1.37215
634325.00 4175900.00 1.20172 634375.00

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4175900.00        1.12744
         634425.00    4175900.00        1.05997                       634475.00
4175900.00        0.99983
         634525.00    4175900.00        0.94498                       634575.00
4175900.00        0.89481
         634625.00    4175900.00        0.84931                       634675.00
4175900.00        0.80776
         634725.00    4175900.00        0.76826                       634775.00
4175900.00        0.73260
🡅 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                         ***       01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                      ***        15:43:26

                                  PAGE 181
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: FORK     ***
                                  INCLUDING SOURCE(S):     L0011492    , L0011493
, L0011494    , L0011495    , L0011496    ,
                L0011497    , L0011498    , L0011499    , L0011500    , L0011501
, L0011502    , L0011503    , L0011504    ,
                L0011505    , L0011506    , L0011507    , L0011508    , L0011509
, L0011510    , L0011511    , L0011512    ,
                L0011513    , L0011514    , L0011515    , L0011516    , L0011517
, L0011518    , L0011519    ,  . . .      ,

                                             *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                        ** CONC OF HRA      IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                       X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - -
         634875.00    4175900.00        0.66790                       634925.00
4175900.00        0.63874
         634975.00    4175900.00        0.61214                       635025.00
4175900.00        0.58700
         635075.00    4175900.00        0.56370                       635125.00
4175900.00        0.54146
         635175.00    4175900.00        0.52099                       635225.00
4175900.00        0.50168
         635275.00    4175900.00        0.48332                       635325.00
4175900.00        0.46646
         635375.00    4175900.00        0.44967                       635425.00
4175900.00        0.43444
```

635475.00 4175900.00 0.41989 635525.00
4175900.00 0.40621
634325.00 4175950.00 1.14534 634375.00
4175950.00 1.07842
634425.00 4175950.00 1.01683 634475.00
4175950.00 0.96132
634525.00 4175950.00 0.91011 634575.00
4175950.00 0.86310
634625.00 4175950.00 0.82085 634675.00
4175950.00 0.78165
634875.00 4175950.00 0.64930 634925.00
4175950.00 0.62181
634975.00 4175950.00 0.59660 635025.00
4175950.00 0.57254
635075.00 4175950.00 0.55016 635125.00
4175950.00 0.52927
635175.00 4175950.00 0.50963 635225.00
4175950.00 0.49071
635275.00 4175950.00 0.47362 635325.00
4175950.00 0.45665
635375.00 4175950.00 0.44114 635425.00
4175950.00 0.42633
635475.00 4175950.00 0.41227 635525.00
4175950.00 0.39868
635575.00 4175950.00 0.38620 634725.00
4176000.00 0.71478
634925.00 4176000.00 0.60013 634975.00
4176000.00 0.57683
635025.00 4176000.00 0.55443 635075.00
4176000.00 0.53299
635125.00 4176000.00 0.51336 635175.00
4176000.00 0.49460
635225.00 4176000.00 0.47703 635275.00
4176000.00 0.46071
635325.00 4176000.00 0.44466 635375.00
4176000.00 0.42991
635425.00 4176000.00 0.41559 635475.00
4176000.00 0.40222
635525.00 4176000.00 0.38951 635575.00
4176000.00 0.37723
634825.00 4176050.00 0.62330 634875.00
4176050.00 0.59855
634925.00 4176050.00 0.57532 634975.00
4176050.00 0.55340
635025.00 4176050.00 0.53253 635075.00
4176050.00 0.51296
635125.00 4176050.00 0.49479 635175.00
4176050.00 0.47734
635225.00 4176050.00 0.46092 635275.00
4176050.00 0.44532

```
         635325.00    4176050.00        0.43048                      635375.00
4176050.00        0.41625
         635425.00    4176050.00        0.40320                      635475.00
4176050.00        0.39042
         635525.00    4176050.00        0.37836                      635575.00
4176050.00        0.36668
         634825.00    4176100.00        0.59098                      634875.00
4176100.00        0.56884
         634925.00    4176100.00        0.54731                      634975.00
4176100.00        0.52747
         635025.00    4176100.00        0.50889                      635075.00
4176100.00        0.49103
         635125.00    4176100.00        0.47404                      635175.00
4176100.00        0.45786
         635225.00    4176100.00        0.44278                      635275.00
4176100.00        0.42836
         635325.00    4176100.00        0.41463                      635375.00
4176100.00        0.40171
 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                          ***       01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                          ***       15:43:26

                                    PAGE 182
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: FORK     ***
                                    INCLUDING SOURCE(S):     L0011492    , L0011493
, L0011494    , L0011495    , L0011496    ,
                  L0011497    , L0011498    , L0011499    , L0011500    , L0011501
, L0011502    , L0011503    , L0011504    ,
                  L0011505    , L0011506    , L0011507    , L0011508    , L0011509
, L0011510    , L0011511    , L0011512    ,
                  L0011513    , L0011514    , L0011515    , L0011516    , L0011517
, L0011518    , L0011519    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                            ** CONC OF HRA      IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                        X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
         635425.00    4176100.00        0.38882                      635475.00
4176100.00        0.37723
         635525.00    4176100.00        0.36595                      635575.00
```

4176100.00 0.35522
634825.00 4176150.00 0.55714 634875.00
4176150.00 0.53760
634925.00 4176150.00 0.51821 634975.00
4176150.00 0.50047
635025.00 4176150.00 0.48369 635075.00
4176150.00 0.46730
635125.00 4176150.00 0.45218 635175.00
4176150.00 0.43745
635225.00 4176150.00 0.42317 635275.00
4176150.00 0.41032
635325.00 4176150.00 0.39758 635375.00
4176150.00 0.38559
635425.00 4176150.00 0.37374 635475.00
4176150.00 0.36299
635525.00 4176150.00 0.35250 635575.00
4176150.00 0.34253
634875.00 4176200.00 0.50588 634925.00
4176200.00 0.48873
634975.00 4176200.00 0.47266 635125.00
4176200.00 0.42926
635175.00 4176200.00 0.41625 635225.00
4176200.00 0.40336
635525.00 4176200.00 0.33844 635575.00
4176200.00 0.32902
634325.00 4176250.00 0.69556 634375.00
4176250.00 0.66915
634875.00 4176250.00 0.47399 634925.00
4176250.00 0.45939
634975.00 4176250.00 0.44530 635025.00
4176250.00 0.43177
635075.00 4176250.00 0.41872 635125.00
4176250.00 0.40645
635175.00 4176250.00 0.39451 635225.00
4176250.00 0.38343
635275.00 4176250.00 0.37241 635375.00
4176250.00 0.35163
635425.00 4176250.00 0.34210 635525.00
4176250.00 0.32413
635575.00 4176250.00 0.31561 634875.00
4176300.00 0.44309
634925.00 4176300.00 0.43024 634975.00
4176300.00 0.41793
635025.00 4176300.00 0.40611 635075.00
4176300.00 0.39467
635125.00 4176300.00 0.38378 635175.00
4176300.00 0.37303
635225.00 4176300.00 0.36303 635275.00
4176300.00 0.35356
635375.00 4176300.00 0.33465 635425.00

```
4176300.00        0.32601
         635525.00    4176300.00        0.30961                        635575.00
4176300.00        0.30155
         634875.00    4176350.00        0.41395                        634925.00
4176350.00        0.40262
         634975.00    4176350.00        0.39165                        635025.00
4176350.00        0.38121
         635075.00    4176350.00        0.37105                        635125.00
4176350.00        0.36138
         635175.00    4176350.00        0.35186                        635225.00
4176350.00        0.34321
         635275.00    4176350.00        0.33454                        635375.00
4176350.00        0.31770
         635425.00    4176350.00        0.30995                        635525.00
4176350.00        0.29504
         635575.00    4176350.00        0.28775                        634875.00
4176400.00        0.38740
         634925.00    4176400.00        0.37713                        634975.00
4176400.00        0.36728
         635025.00    4176400.00        0.35783                        635075.00
4176400.00        0.34883
         635125.00    4176400.00        0.34020                        635175.00
4176400.00        0.33192
         635225.00    4176400.00        0.32398                        635275.00
4176400.00        0.31630
         635425.00    4176400.00        0.29422                        635525.00
4176400.00        0.28056
 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                          ***       01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                          ***       15:43:26

                                    PAGE 183
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: FORK     ***
                                    INCLUDING SOURCE(S):     L0011492    , L0011493
, L0011494    , L0011495    , L0011496    ,
                  L0011497    , L0011498    , L0011499    , L0011500    , L0011501
, L0011502    , L0011503    , L0011504    ,
                  L0011505    , L0011506    , L0011507    , L0011508    , L0011509
, L0011510    , L0011511    , L0011512    ,
                  L0011513    , L0011514    , L0011515    , L0011516    , L0011517
, L0011518    , L0011519    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                              ** CONC OF HRA      IN MICROGRAMS/M**3
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**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
635575.00	4176400.00	0.27430	633650.00	4176200.00	1.48079
633700.00	4176200.00	1.38900	633850.00	4176200.00	1.17769
633850.00	4176250.00	1.04008	633950.00	4176250.00	0.94836
634350.00	4176250.00	0.68252	633750.00	4176300.00	1.03088
633950.00	4176300.00	0.84835	634000.00	4176300.00	0.81406
634050.00	4176300.00	0.78082	634050.00	4176350.00	0.70686
634050.00	4176400.00	0.64445	634000.00	4176450.00	0.61772
634050.00	4176450.00	0.59326	634200.00	4176600.00	0.43228
634100.00	4176650.00	0.44129	634150.00	4176650.00	0.42499
634200.00	4176650.00	0.40853	634200.00	4176850.00	0.33534
634200.00	4176900.00	0.31938	634250.00	4176900.00	0.31054
634300.00	4176900.00	0.30145	634400.00	4177000.00	0.26159
634450.00	4177000.00	0.25379	634500.00	4177000.00	0.24659
634550.00	4177000.00	0.23949	634400.00	4177050.00	0.25136
634450.00	4177050.00	0.24408	634500.00	4177050.00	0.23850
634550.00	4177050.00	0.23222	633750.00	4173175.00	0.04698
634450.00	4173325.00	0.06240	634450.00	4173375.00	0.06560
634350.00	4173475.00	0.06933	634300.00	4173625.00	0.08022
634300.00	4173675.00	0.08508	634350.00	4173675.00	0.08673
634250.00	4173775.00	0.09358	633950.00	4173825.00	0.08940
634050.00	4173825.00	0.09174	634100.00	4173825.00	0.09351
634250.00	4173825.00	0.09921	634250.00	4173975.00	0.11910

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         634150.00    4174125.00        0.14150                        634200.00
4174125.00        0.14280
         634250.00    4174125.00        0.14375                        634250.00
4174225.00        0.16314
         634350.00    4174225.00        0.16194                        634400.00
4174225.00        0.16058
         634200.00    4174325.00        0.18465                        634250.00
4174325.00        0.18441
         634200.00    4174375.00        0.19573                        634250.00
4174425.00        0.20681
         634000.00    4174475.00        0.22103                        634250.00
4174525.00        0.23426
         634100.00    4174575.00        0.25491                        634150.00
4174575.00        0.25418
         634200.00    4174575.00        0.25166                        634250.00
4174575.00        0.24713
         634250.00    4174625.00        0.26114                        634250.00
4174675.00        0.27543
         634250.00    4174825.00        0.32483                        634250.00
4174875.00        0.34527
         634200.00    4174925.00        0.37960                        634250.00
4174925.00        0.36879
         631950.00    4173950.00        0.02564                        631550.00
4174000.00        0.02562
         631550.00    4174050.00        0.02695                        631750.00
4174250.00        0.03447
         632300.00    4174300.00        0.06064                        632350.00
4174300.00        0.06238
         632300.00    4174350.00        0.06368                        632350.00
4174350.00        0.06600
         631600.00    4174400.00        0.03911                        631650.00
4174400.00        0.04146
         632000.00    4174400.00        0.05319                        632000.00
4174450.00        0.05598
         631950.00    4174500.00        0.05813                        632150.00
4174950.00        0.11343
 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                          ***       01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                          ***       15:43:26

                                    PAGE 184
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: FORK     ***
                                    INCLUDING SOURCE(S):     L0011492    , L0011493
, L0011494    , L0011495    , L0011496    ,
                  L0011497    , L0011498    , L0011499    , L0011500    , L0011501
, L0011502    , L0011503    , L0011504    ,
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                L0011505    , L0011506    , L0011507    , L0011508    , L0011509
, L0011510    , L0011511    , L0011512    ,
                L0011513    , L0011514    , L0011515    , L0011516    , L0011517
, L0011518    , L0011519    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF HRA      IN MICROGRAMS/M**3
                   **

       X-COORD (M)   Y-COORD (M)        CONC                       X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - -
         632200.00    4174950.00        0.11791

↑ *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                        ***       01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                       ***       15:43:26

                                  PAGE 185
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  IDLING1  ***
                                  INCLUDING SOURCE(S):     L0007039    , L0007040
, L0007041    , L0007042    , L0007043    ,
                L0007044    , L0007045    , L0007046    , L0007047    , L0007048
, L0007049    , L0007050    , L0007051    ,
                L0007052    , L0007053    , L0007054    , L0007055    , L0007056
, L0007057    , L0007058    , L0007059    ,
                L0007060    , L0007061    , L0007062    , L0007063    , L0007064
, L0007065    , L0007066    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF HRA      IN MICROGRAMS/M**3
                   **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - -
        631050.00   4178050.00       18.52815  (06021721)                631150.00
4178250.00       19.50368  (08011010)
        631250.00   4178250.00       19.29560  (07121206)                631350.00
4178250.00       19.70052  (05022705)
```

631450.00 4178250.00 20.27530 (06011018) 631550.00 4178250.00 21.51713 (05011001)
631650.00 4178250.00 24.82997 (05011001) 631750.00 4178250.00 25.24135 (07012805)
631150.00 4178350.00 18.00355 (05022703) 631450.00 4178350.00 19.23823 (06012819)
631550.00 4178350.00 22.50382 (05011001) 631650.00 4178350.00 23.67329 (07012805)
631750.00 4178350.00 24.07599 (06122519) 630650.00 4178450.00 14.06291 (05122923)
630850.00 4178450.00 16.46081 (08011010) 631050.00 4178450.00 17.75754 (08011010)
631150.00 4178450.00 17.31909 (07121206) 631250.00 4178450.00 17.40357 (06011018)
631550.00 4178450.00 22.29190 (05011001) 631650.00 4178450.00 22.51045 (07012805)
631750.00 4178450.00 23.08989 (06122519) 631850.00 4178450.00 23.11997 (07122907)
631950.00 4178450.00 23.86497 (06021720) 632050.00 4178450.00 23.60453 (06020123)
632150.00 4178450.00 24.13076 (06020123) 630550.00 4178550.00 13.40192 (05122923)
630650.00 4178550.00 14.42943 (06021721) 630750.00 4178550.00 15.45396 (08011010)
630950.00 4178550.00 17.51998 (08011010) 631050.00 4178550.00 16.42181 (07121206)
631250.00 4178550.00 17.15745 (06011018) 631350.00 4178550.00 17.30562 (05011001)
631450.00 4178550.00 20.54907 (05011001) 631550.00 4178550.00 21.29241 (07012805)
631650.00 4178550.00 21.57108 (06122519) 631750.00 4178550.00 22.14534 (05122622)
631850.00 4178550.00 22.52510 (07122907) 631950.00 4178550.00 22.43648 (06021720)
632050.00 4178550.00 23.09984 (06020123) 632150.00 4178550.00 23.32590 (07021207)
630450.00 4178650.00 12.79081 (05122923) 630550.00 4178650.00 13.52179 (06021721)
630650.00 4178650.00 14.45785 (08011010) 630750.00 4178650.00 16.72055 (08011010)
630850.00 4178650.00 17.20540 (08011010) 630950.00 4178650.00 15.66463 (08011010)
631050.00 4178650.00 15.83408 (05022705) 631150.00 4178650.00 16.07425 (06011018)
631250.00 4178650.00 16.35762 (06012819) 631350.00 4178650.00 18.46248 (05011001)
631450.00 4178650.00 20.15950 (05011001) 631550.00 4178650.00 20.26727 (07012805)
631650.00 4178650.00 20.85233 (06122519) 631750.00 4178650.00 20.70285 (05122622)

```
        631850.00   4178650.00       21.43243  (06021720)                631950.00
4178650.00       20.57252  (06021720)
        632050.00   4178650.00       22.08574  (06020123)                632150.00
4178650.00       22.38840  (07021207)
        630350.00   4178750.00       12.23026  (05122923)                630450.00
4178750.00       12.67721  (06021721)
        630550.00   4178750.00       13.67835  (06021721)                630650.00
4178750.00       15.93663  (08011010)
        630750.00   4178750.00       16.79335  (08011010)                630850.00
4178750.00       15.77612  (08011010)
        630950.00   4178750.00       14.92935  (05022705)                631050.00
4178750.00       14.91130  (06011018)
        631150.00   4178750.00       15.52821  (06011018)                631250.00
4178750.00       16.30514  (05011001)
        631350.00   4178750.00       18.78866  (05011001)                631450.00
4178750.00       19.30566  (07012805)
        631550.00   4178750.00       19.51406  (06122519)                631650.00
4178750.00       20.05669  (05122622)
        631750.00   4178750.00       20.30727  (07122907)                631850.00
4178750.00       20.49899  (06021720)
        631950.00   4178750.00       20.44737  (06020123)                632050.00
4178750.00       20.70551  (06020123)
        632150.00   4178750.00       21.31327  (04022120)                630250.00
4178850.00       11.73102  (06013009)
        630350.00   4178850.00       11.90913  (06021721)                630450.00
4178850.00       12.94697  (06021721)
 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                          ***        01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                         ***        15:43:26

                                    PAGE 186
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  IDLING1  ***
                                    INCLUDING SOURCE(S):     L0007039    , L0007040
, L0007041    , L0007042    , L0007043    ,
                   L0007044    , L0007045    , L0007046    , L0007047    , L0007048
, L0007049    , L0007050    , L0007051    ,
                   L0007052    , L0007053    , L0007054    , L0007055    , L0007056
, L0007057    , L0007058    , L0007059    ,
                   L0007060    , L0007061    , L0007062    , L0007063    , L0007064
, L0007065    , L0007066    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                             ** CONC OF HRA      IN MICROGRAMS/M**3
                     **
```

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
630550.00	4178850.00	15.22752	(08011010)	630650.00	4178850.00	16.29873	(08011010)
630750.00	4178850.00	15.77128	(08011010)	630850.00	4178850.00	14.14785	(07121206)
630950.00	4178850.00	14.32705	(05022705)	631050.00	4178850.00	14.75760	(06011018)
631150.00	4178850.00	14.86500	(06012819)	631250.00	4178850.00	17.12462	(05011001)
631350.00	4178850.00	18.31219	(05011001)	631450.00	4178850.00	18.34682	(07012805)
631550.00	4178850.00	18.91941	(06122519)	631650.00	4178850.00	18.92060	(05122622)
631750.00	4178850.00	19.46146	(07122907)	631850.00	4178850.00	19.15159	(06021720)
631950.00	4178850.00	19.99398	(06020123)	632050.00	4178850.00	20.07729	(07021207)
632150.00	4178850.00	20.42940	(04022120)	630250.00	4178950.00	11.19548	(06021721)
630350.00	4178950.00	12.25998	(06021721)	630450.00	4178950.00	14.44461	(08011010)
630550.00	4178950.00	15.86950	(08011010)	630650.00	4178950.00	15.63341	(08011010)
630750.00	4178950.00	13.88656	(08011010)	630850.00	4178950.00	13.70362	(05022705)
630950.00	4178950.00	13.89971	(06011018)	631050.00	4178950.00	14.10691	(06012819)
631150.00	4178950.00	15.32794	(05011001)	631250.00	4178950.00	17.24583	(05011001)
631350.00	4178950.00	17.61085	(07012805)	631450.00	4178950.00	17.74875	(06122519)
631550.00	4178950.00	18.21316	(05122622)	631650.00	4178950.00	18.37192	(07122907)
631750.00	4178950.00	18.69846	(06021720)	631850.00	4178950.00	17.98217	(06020123)
631950.00	4178950.00	19.16503	(06020123)	632050.00	4178950.00	19.40610	(07021207)
632150.00	4178950.00	20.12385	(08011009)	629950.00	4179050.00	11.02962	(05122923)
630250.00	4179050.00	11.61332	(06021721)	630350.00	4179050.00	13.72623	(08011010)
630450.00	4179050.00	15.31390	(08011010)	630550.00	4179050.00	15.48293	(08011010)
630650.00	4179050.00	14.07119	(08011010)	630750.00	4179050.00	13.02399	(05022705)
630850.00	4179050.00	12.96052	(06011018)	630950.00			

4179050.00   13.50997 (06011018)
        631050.00   4179050.00   13.52252 (06012819)   631150.00
4179050.00   15.91037 (05011001)
        631250.00   4179050.00   16.71006 (05011001)   631350.00
4179050.00   16.72692 (07012805)
        631450.00   4179050.00   17.28618 (06122519)   631550.00
4179050.00   17.32895 (05122622)
        631650.00   4179050.00   17.79434 (07122907)   631750.00
4179050.00   17.73770 (06021720)
        631850.00   4179050.00   17.90892 (06020123)   631950.00
4179050.00   18.06259 (06020123)
        632050.00   4179050.00   18.49058 (07021207)   632150.00
4179050.00   19.73105 (08011009)
        629850.00   4179150.00   10.67259 (06013009)   629950.00
4179150.00   10.94046 (06013009)
        630150.00   4179150.00   10.99879 (06021721)   630250.00
4179150.00   13.00298 (08011010)
        630350.00   4179150.00   14.70407 (08011010)   630450.00
4179150.00   15.18028 (08011010)
        630550.00   4179150.00   14.23462 (08011010)   630650.00
4179150.00   12.33860 (07121206)
        630750.00   4179150.00   12.47756 (05022705)   630850.00
4179150.00   12.86366 (06011018)
        630950.00   4179150.00   12.97048 (06012819)   631050.00
4179150.00   14.41467 (05011001)
        631150.00   4179150.00   15.88812 (05011001)   631250.00
4179150.00   16.13507 (07012805)
        631350.00   4179150.00   16.24726 (06122519)   631450.00
4179150.00   16.66743 (05122622)
        631550.00   4179150.00   16.64349 (07122907)   631650.00
4179150.00   17.03867 (06021720)
        631750.00   4179150.00   16.50906 (06021720)   631850.00
4179150.00   17.54508 (06020123)
        631950.00   4179150.00   17.41158 (07021207)   632050.00
4179150.00   17.88039 (04022120)

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: IDLING1 ***
                                    INCLUDING SOURCE(S):   L0007039   , L0007040
, L0007041   , L0007042   , L0007043   ,
                L0007044   , L0007045   , L0007046   , L0007047   , L0007048
, L0007049   , L0007050   , L0007051   ,
                L0007052   , L0007053   , L0007054   , L0007055   , L0007056

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, L0007057    , L0007058    , L0007059    ,
                L0007060    , L0007061    , L0007062    , L0007063    , L0007064
, L0007065    , L0007066    ,  . . .      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF HRA      IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        632150.00   4179150.00       19.16558  (08011009)                630850.00
4179250.00       12.32499  (06011018)
        630950.00   4179250.00       12.86179  (05011001)                631050.00
4177625.00       23.05716  (05022704)
        631100.00   4177725.00       22.52956  (04120902)                631100.00
4177825.00       21.81185  (05122923)
        631350.00   4178225.00       19.98794  (05022705)                631400.00
4178225.00       19.79874  (05022705)
        631450.00   4178225.00       20.48620  (06011018)                631500.00
4178225.00       20.53311  (06011018)
        631100.00   4178275.00       19.34035  (08011010)                631150.00
4178275.00       19.23662  (08011010)
        631200.00   4178275.00       18.79787  (05022703)                631250.00
4178275.00       19.11677  (07121206)
        631300.00   4178275.00       19.34536  (05022705)                631350.00
4178275.00       19.35128  (05022705)
        631400.00   4178275.00       19.73057  (06011018)                631450.00
4178275.00       20.00927  (06011018)
        631500.00   4178275.00       20.09646  (06012819)                630950.00
4178325.00       17.31700  (06021721)
        631100.00   4178325.00       19.02213  (08011010)                631150.00
4178325.00       18.36641  (08011010)
        631200.00   4178325.00       18.52691  (07121206)                631250.00
4178325.00       18.69214  (05022705)
        631300.00   4178325.00       18.87733  (05022705)                631400.00
4178325.00       19.41201  (06011018)
        631450.00   4178325.00       19.45850  (06012819)                631500.00
4178325.00       20.35125  (05011001)
        630950.00   4178375.00       17.84167  (08011010)                631200.00
4178375.00       18.06662  (07121206)
        631300.00   4178375.00       18.13867  (05022705)                631400.00
4178375.00       18.85681  (06011018)
        631450.00   4178375.00       18.96499  (06012819)                631500.00
4178375.00       21.00710  (05011001)
        630800.00   4178425.00       15.99014  (06021721)                630850.00
4178425.00       16.33272  (06021721)
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        631050.00   4178425.00       18.18204  (08011010)                631200.00
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        631250.00   4178425.00       17.76423  (05022705)                631300.00
4178425.00       18.11463  (06011018)
        630650.00   4178475.00       13.86903  (04120903)                630800.00
4178475.00       15.86268  (06021721)
        630850.00   4178475.00       16.83731  (08011010)                631050.00
4178475.00       17.26247  (08011010)
        631200.00   4178475.00       17.35024  (05022705)                631250.00
4178475.00       17.42509  (06011018)
        631300.00   4178475.00       17.85694  (06011018)                631450.00
4178475.00       20.16624  (05011001)
        631500.00   4178475.00       21.49681  (05011001)                630550.00
4178525.00       13.82266  (05122923)
        630600.00   4178525.00       13.47453  (04120903)                630650.00
4178525.00       14.28606  (06021721)
        630700.00   4178525.00       14.98824  (06021721)                630750.00
4178525.00       15.40194  (06021721)
        630950.00   4178525.00       17.81614  (08011010)                631050.00
4178525.00       16.56818  (07121206)
        631200.00   4178525.00       16.72150  (06011018)                631250.00
4178525.00       17.29939  (06011018)
        631300.00   4178525.00       17.39104  (06011018)                631350.00
4178525.00       17.49127  (06012819)
        631400.00   4178525.00       18.92142  (05011001)                631450.00
4178525.00       20.49017  (05011001)
        631500.00   4178525.00       21.35781  (05011001)                630500.00
4178575.00       13.48846  (05122923)
        630550.00   4178575.00       13.09722  (04120903)                630600.00
4178575.00       13.81833  (06021721)
        630650.00   4178575.00       14.50299  (06021721)                630700.00
4178575.00       14.94988  (06021721)
        630750.00   4178575.00       15.89301  (08011010)                630800.00
4178575.00       16.92459  (08011010)
        630850.00   4178575.00       17.52754  (08011010)                631000.00
4178575.00       16.18887  (08011010)
        631050.00   4178575.00       16.22596  (07121206)                631200.00
4178575.00       16.71211  (06011018)
        631250.00   4178575.00       16.96689  (06011018)                631300.00
4178575.00       17.00753  (06012819)
        631350.00   4178575.00       17.66753  (05011001)                631400.00
4178575.00       19.38416  (05011001)
        631450.00   4178575.00       20.52270  (05011001)                631500.00
4178575.00       20.97015  (05011001)
 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                          ***        01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                         ***        15:43:26

                                PAGE 188
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  IDLING1  ***
                                    INCLUDING SOURCE(S):     L0007039    , L0007040
, L0007041    , L0007042    , L0007043    ,
                  L0007044    , L0007045    , L0007046    , L0007047    , L0007048
, L0007049    , L0007050    , L0007051    ,
                  L0007052    , L0007053    , L0007054    , L0007055    , L0007056
, L0007057    , L0007058    , L0007059    ,
                  L0007060    , L0007061    , L0007062    , L0007063    , L0007064
, L0007065    , L0007066    ,  . . .      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF HRA      IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        630500.00   4178625.00       12.73151  (04120903)               630550.00
4178625.00       13.36211  (06021721)
        630600.00   4178625.00       14.06432  (06021721)               630650.00
4178625.00       14.51147  (06021721)
        630700.00   4178625.00       15.38750  (08011010)               630750.00
4178625.00       16.51205  (08011010)
        630800.00   4178625.00       17.22782  (08011010)               630850.00
4178625.00       17.42673  (08011010)
        631000.00   4178625.00       15.80254  (07121206)               631050.00
4178625.00       15.96961  (05022705)
        631100.00   4178625.00       16.02290  (05022705)               631150.00
4178625.00       16.09386  (06011018)
        631200.00   4178625.00       16.49963  (06011018)               631250.00
4178625.00       16.48137  (06012819)
        631300.00   4178625.00       16.58902  (06012819)               631350.00
4178625.00       18.25309  (05011001)
        631400.00   4178625.00       19.60354  (05011001)               631450.00
4178625.00       20.34034  (05011001)
        631500.00   4178625.00       20.39182  (07012805)               631100.00
4175700.00       63.73450  (04121304)
        631150.00   4175700.00       65.32406  (04121224)               631200.00
4175700.00       67.60044  (04121224)
        631250.00   4175700.00       69.81234  (04121224)               631100.00
4175750.00       71.77320  (04121304)
        631150.00   4175750.00       73.94446  (04121304)               629400.00
4179050.00        9.76408  (05022704)
        629450.00   4179050.00        9.93065  (05022704)               629500.00
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4179050.00 9.99336 (05022704)
  629400.00 4179100.00 9.72271 (05022704) 629450.00
4179100.00 9.77330 (05022704)
  629400.00 4179150.00 9.55817 (05022704) 629500.00
4179150.00 9.64754 (04120901)
  629550.00 4179150.00 9.89396 (04120901) 629600.00
4179150.00 10.03275 (04120901)
  629650.00 4179150.00 10.06431 (04120902) 629700.00
4179150.00 10.24605 (04120902)
  629800.00 4179200.00 10.56300 (06013009) 629400.00
4179300.00 9.29798 (04120901)
  629400.00 4179350.00 9.21850 (04120901) 634375.00
4175350.00 52.24057 (04022222)
  634425.00 4175350.00 51.18983 (04022222) 635425.00
4175350.00 39.42802 (06100508)
  635425.00 4175400.00 35.31150 (06100508) 635475.00
4175400.00 33.82925 (06100508)
  634325.00 4175450.00 59.52728 (06100508) 634475.00
4175450.00 60.63641 (06100508)
  634525.00 4175450.00 60.07990 (06100508) 634525.00
4175500.00 60.74607 (06100508)
  634325.00 4175550.00 67.86318 (06100508) 634525.00
4175550.00 56.31508 (06100508)
  634575.00 4175550.00 53.37649 (06100508) 634775.00
4175550.00 42.39930 (06100508)
  634825.00 4175550.00 39.90418 (06100508) 634625.00
4175600.00 45.82559 (08011020)
  634675.00 4175600.00 43.90282 (08011020) 634725.00
4175600.00 42.10399 (08011020)
  634775.00 4175600.00 40.24655 (08011020) 634825.00
4175600.00 38.51625 (08011020)
  634875.00 4175600.00 36.97786 (05122420) 634925.00
4175600.00 35.89619 (05122420)
  635375.00 4175600.00 27.22941 (07012218) 634275.00
4175650.00 64.06147 (08011020)
  634325.00 4175650.00 60.96648 (08011020) 634575.00
4175650.00 47.72223 (05122420)
  634625.00 4175650.00 45.85070 (05122420) 634675.00
4175650.00 44.10981 (05122420)
  634725.00 4175650.00 42.39248 (05122420) 634775.00
4175650.00 40.65743 (05122420)
  634825.00 4175650.00 39.10344 (05122420) 634875.00
4175650.00 37.69525 (07012218)
  634925.00 4175650.00 36.38109 (07012218) 634975.00
4175650.00 35.19583 (07012218)
  635025.00 4175650.00 33.95549 (07012218) 635325.00
4175650.00 28.13695 (05020819)
  635375.00 4175650.00 27.35232 (05020819) 634475.00
4175700.00 52.89283 (07012218)
  634525.00 4175700.00 50.51282 (07012218) 634575.00

                                *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: IDLING1 ***
                                    INCLUDING SOURCE(S):   L0007039   , L0007040
, L0007041   , L0007042   , L0007043   ,
                   L0007044   , L0007045   , L0007046   , L0007047   , L0007048
, L0007049   , L0007050   , L0007051   ,
                   L0007052   , L0007053   , L0007054   , L0007055   , L0007056
, L0007057   , L0007058   , L0007059   ,
                   L0007060   , L0007061   , L0007062   , L0007063   , L0007064
, L0007065   , L0007066   , . . .   ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                             ** CONC OF HRA   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        634725.00   4175700.00   42.55417 (05020819)   634775.00
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        634825.00   4175700.00   39.32632 (05020819)   634875.00
4175700.00   37.94912 (05020819)
        634925.00   4175700.00   36.46743 (05020819)   634975.00
4175700.00   35.19254 (05020819)
        635025.00   4175700.00   33.85818 (05020819)   635075.00
4175700.00   32.70962 (05020819)
        635125.00   4175700.00   31.56153 (05020819)   634425.00
4175750.00   55.43772 (05020819)
        634575.00   4175750.00   47.68835 (05020819)   634625.00
4175750.00   45.72554 (07021102)
        634675.00   4175750.00   43.95512 (07021102)   634725.00
4175750.00   42.38366 (07021102)
        634775.00   4175750.00   40.78922 (07021102)   634825.00
4175750.00   39.31390 (07021102)
        634875.00   4175750.00   37.83970 (07021102)   634925.00
4175750.00   36.52507 (07021102)

634975.00 4175750.00 35.26470 (07021102) 635025.00
4175750.00 34.03438 (07021102)
635075.00 4175750.00 32.95629 (07021102) 635125.00
4175750.00 31.89489 (07021102)
635175.00 4175750.00 30.80023 (07021102) 635225.00
4175750.00 29.91070 (07021102)
634325.00 4175800.00 61.71646 (07021102) 634375.00
4175800.00 58.54097 (07021102)
634425.00 4175800.00 55.49077 (07021102) 634475.00
4175800.00 52.87061 (07021102)
634525.00 4175800.00 50.35561 (07021102) 634575.00
4175800.00 47.91700 (07021102)
634625.00 4175800.00 45.93843 (07021102) 634675.00
4175800.00 43.78893 (07021102)
634725.00 4175800.00 42.01153 (07021102) 634775.00
4175800.00 40.31574 (06012822)
634825.00 4175800.00 38.93191 (06012822) 634875.00
4175800.00 37.42544 (06012822)
634925.00 4175800.00 36.17432 (06012822) 634975.00
4175800.00 34.93682 (06012822)
635025.00 4175800.00 33.74943 (06012822) 635075.00
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635225.00 4175800.00 29.69431 (06012822) 635275.00
4175800.00 28.84072 (06012822)
635325.00 4175800.00 27.94507 (06012822) 634225.00
4175850.00 68.50306 (06012822)
634325.00 4175850.00 61.60613 (04122902) 634375.00
4175850.00 58.40453 (04122902)
634425.00 4175850.00 55.59092 (04122902) 634475.00
4175850.00 53.02715 (04122902)
634525.00 4175850.00 50.60469 (04122902) 634575.00
4175850.00 48.31448 (04122902)
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4175850.00 44.39707 (04122902)
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4175850.00 41.04385 (04122902)
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4175850.00 37.93588 (04122902)
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4175850.00 35.23480 (04122902)
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4175850.00 28.94101 (04122902)
635325.00 4175850.00 28.04832 (04122902) 635375.00
4175850.00 27.15965 (04122902)

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                               *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: IDLING1 ***
                                   INCLUDING SOURCE(S):   L0007039   , L0007040 , L0007041   , L0007042   , L0007043   ,
                  L0007044   , L0007045   , L0007046   , L0007047   , L0007048 , L0007049   , L0007050   , L0007051   ,
                  L0007052   , L0007053   , L0007054   , L0007055   , L0007056 , L0007057   , L0007058   , L0007059   ,
                  L0007060   , L0007061   , L0007062   , L0007063   , L0007064 , L0007065   , L0007066   , . . .   ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                             ** CONC OF HRA   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)
 -
        634875.00   4175900.00   36.94427 (04122902)   634925.00   4175900.00   35.57509 (04122902)
        634975.00   4175900.00   34.39300 (04122902)   635025.00   4175900.00   33.22178 (04122902)
        635075.00   4175900.00   32.15374 (04122902)   635125.00   4175900.00   31.06624 (04122902)
        635175.00   4175900.00   30.11069 (04122902)   635225.00   4175900.00   29.19171 (04122902)
        635275.00   4175900.00   28.28463 (04122902)   635325.00

4175900.00 27.50754 (04122902)
635375.00 4175900.00 26.59569 (04122902) 635425.00
4175900.00 25.85158 (04122902)
635475.00 4175900.00 25.11466 (04122902) 635525.00
4175900.00 24.43084 (04122902)
634325.00 4175950.00 63.71614 (06121322) 634375.00
4175950.00 60.20033 (06121322)
634425.00 4175950.00 56.81838 (06121322) 634475.00
4175950.00 53.81711 (06121322)
634525.00 4175950.00 50.95692 (06121322) 634575.00
4175950.00 48.29476 (06121322)
634625.00 4175950.00 46.01269 (06121322) 634675.00
4175950.00 43.84558 (06121322)
634875.00 4175950.00 36.09379 (06121322) 634925.00
4175950.00 34.46723 (06121322)
634975.00 4175950.00 33.03453 (07011518) 635025.00
4175950.00 31.82865 (07011518)
635075.00 4175950.00 30.71248 (07011518) 635125.00
4175950.00 29.67443 (07011518)
635175.00 4175950.00 28.69022 (07011518) 635225.00
4175950.00 27.68751 (07011518)
635275.00 4175950.00 26.85357 (07011518) 635325.00
4175950.00 25.92455 (07011518)
635375.00 4175950.00 25.12614 (07011518) 635425.00
4175950.00 24.34487 (07011518)
635475.00 4175950.00 23.63037 (06011619) 635525.00
4175950.00 22.93210 (06011619)
635575.00 4175950.00 22.33390 (06011619) 634725.00
4176000.00 45.00103 (06121322)
634925.00 4176000.00 37.91886 (06121322) 634975.00
4176000.00 36.54968 (06121322)
635025.00 4176000.00 35.13449 (06121322) 635075.00
4176000.00 33.70795 (06121322)
635125.00 4176000.00 32.46465 (06121322) 635175.00
4176000.00 31.22596 (06121322)
635225.00 4176000.00 30.07301 (06121322) 635275.00
4176000.00 29.03387 (06121322)
635325.00 4176000.00 27.91396 (06121322) 635375.00
4176000.00 26.94064 (06121322)
635425.00 4176000.00 25.94026 (06121322) 635475.00
4176000.00 25.03210 (06121322)
635525.00 4176000.00 24.16343 (06121322) 635575.00
4176000.00 23.29221 (06121322)
634825.00 4176050.00 40.60494 (07011318) 634875.00
4176050.00 39.34007 (06121322)
634925.00 4176050.00 38.12823 (06121322) 634975.00
4176050.00 36.93008 (06121322)
635025.00 4176050.00 35.71562 (06121322) 635075.00
4176050.00 34.56202 (06121322)
635125.00 4176050.00 33.50991 (06121322) 635175.00

```
4176050.00       32.42733  (06121322)
        635225.00   4176050.00       31.40052  (06121322)                635275.00
4176050.00       30.39816  (06121322)
        635325.00   4176050.00       29.41674  (06121322)                635375.00
4176050.00       28.43671  (06121322)
        635425.00   4176050.00       27.59572  (06121322)                635475.00
4176050.00       26.70121  (06121322)
        635525.00   4176050.00       25.86020  (06121322)                635575.00
4176050.00       25.00611  (06121322)
        634825.00   4176100.00       40.83271  (07021221)                634875.00
4176100.00       39.21613  (07021221)
        634925.00   4176100.00       37.50364  (07021221)                634975.00
4176100.00       35.95236  (07021221)
        635025.00   4176100.00       34.68951  (07011318)                635075.00
4176100.00       33.68743  (07011318)
        635125.00   4176100.00       32.68087  (07011318)                635175.00
4176100.00       31.67690  (07011318)
        635225.00   4176100.00       30.75051  (07011318)                635275.00
4176100.00       29.82005  (07011318)
        635325.00   4176100.00       28.90782  (07011318)                635375.00
4176100.00       28.17727  (06121322)
♠ *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                        ***       01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                      ***       15:43:26

                                  PAGE 191
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                             *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  IDLING1  ***
                                  INCLUDING SOURCE(S):     L0007039    , L0007040
, L0007041    , L0007042    , L0007043    ,
                L0007044    , L0007045    , L0007046    , L0007047    , L0007048
, L0007049    , L0007050    , L0007051    ,
                L0007052    , L0007053    , L0007054    , L0007055    , L0007056
, L0007057    , L0007058    , L0007059    ,
                L0007060    , L0007061    , L0007062    , L0007063    , L0007064
, L0007065    , L0007066    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF HRA      IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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635425.00 4176100.00 27.35345 (06121322) 635475.00
4176100.00 26.70042 (06121322)
635525.00 4176100.00 26.00902 (06121322) 635575.00
4176100.00 25.33749 (06121322)
634825.00 4176150.00 40.73525 (04121118) 634875.00
4176150.00 39.32002 (04121118)
634925.00 4176150.00 37.71758 (04121118) 634975.00
4176150.00 36.58998 (07021221)
635025.00 4176150.00 35.48424 (07021221) 635075.00
4176150.00 34.27417 (07021221)
635125.00 4176150.00 33.18111 (07021221) 635175.00
4176150.00 32.01842 (07021221)
635225.00 4176150.00 30.81702 (07021221) 635275.00
4176150.00 29.81014 (07021221)
635325.00 4176150.00 28.71396 (07021221) 635375.00
4176150.00 27.68016 (07021221)
635425.00 4176150.00 26.65045 (07011318) 635475.00
4176150.00 26.05464 (07011318)
635525.00 4176150.00 25.41573 (07011318) 635575.00
4176150.00 24.79391 (07011318)
634875.00 4176200.00 39.12003 (06011620) 634925.00
4176200.00 37.71765 (06011620)
634975.00 4176200.00 36.35218 (06011620) 635125.00
4176200.00 32.93081 (04121118)
635175.00 4176200.00 31.92634 (04121118) 635225.00
4176200.00 30.81244 (04121118)
635525.00 4176200.00 25.83282 (07021221) 635575.00
4176200.00 25.01154 (07021221)
634325.00 4176250.00 60.41738 (05010918) 634375.00
4176250.00 57.75767 (05010918)
634875.00 4176250.00 38.75059 (04021505) 634925.00
4176250.00 37.33956 (06020205)
634975.00 4176250.00 36.19492 (06020205) 635025.00
4176250.00 34.98177 (06020205)
635075.00 4176250.00 33.71281 (06020205) 635125.00
4176250.00 32.67979 (06011620)
635175.00 4176250.00 31.71667 (06011620) 635225.00
4176250.00 30.81050 (06011620)
635275.00 4176250.00 29.79362 (06011620) 635375.00
4176250.00 27.95818 (04121118)
635425.00 4176250.00 27.22682 (04121118) 635525.00
4176250.00 25.72615 (04121118)
635575.00 4176250.00 24.95886 (04121118) 634875.00
4176300.00 37.87411 (06020208)
634925.00 4176300.00 36.58114 (04021505) 634975.00
4176300.00 35.69326 (04021505)
635025.00 4176300.00 34.70314 (04021505) 635075.00
4176300.00 33.61364 (04021505)
635125.00 4176300.00 32.48917 (04021505) 635175.00
4176300.00 31.37086 (06020205)

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        635225.00   4176300.00       30.54115  (06020205)                635275.00
4176300.00       29.70380  (06020205)
        635375.00   4176300.00       27.75585  (06011620)                635425.00
4176300.00       27.07901  (06011620)
        635525.00   4176300.00       25.63474  (06011620)                635575.00
4176300.00       24.81973  (06011620)
        634875.00   4176350.00       37.89027  (05011419)                634925.00
4176350.00       36.70416  (06020208)
        634975.00   4176350.00       35.53010  (06020208)                635025.00
4176350.00       34.26548  (06020208)
        635075.00   4176350.00       32.88795  (06020208)                635125.00
4176350.00       31.62107  (04021505)
        635175.00   4176350.00       30.92852  (04021505)                635225.00
4176350.00       30.27634  (04021505)
        635275.00   4176350.00       29.47638  (04021505)                635375.00
4176350.00       27.63244  (04021505)
        635425.00   4176350.00       26.84033  (06020205)                635525.00
4176350.00       25.46270  (06020205)
        635575.00   4176350.00       24.68214  (06020205)                634875.00
4176400.00       37.59721  (05010918)
        634925.00   4176400.00       36.25875  (05010918)                634975.00
4176400.00       35.14544  (05011419)
        635025.00   4176400.00       34.06213  (05011419)                635075.00
4176400.00       32.86643  (05011419)
        635125.00   4176400.00       31.96563  (06020208)                635175.00
4176400.00       31.04572  (06020208)
        635225.00   4176400.00       30.04791  (06020208)                635275.00
4176400.00       28.97873  (06020208)
        635425.00   4176400.00       26.62136  (04021505)                635525.00
4176400.00       25.28179  (04021505)
 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                        ***        01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                       ***        15:43:26

                                  PAGE 192
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  IDLING1  ***
                                  INCLUDING SOURCE(S):     L0007039    , L0007040
, L0007041    , L0007042    , L0007043    ,
                   L0007044    , L0007045    , L0007046    , L0007047    , L0007048
, L0007049    , L0007050    , L0007051    ,
                   L0007052    , L0007053    , L0007054    , L0007055    , L0007056
, L0007057    , L0007058    , L0007059    ,
                   L0007060    , L0007061    , L0007062    , L0007063    , L0007064
, L0007065    , L0007066    ,  . . .      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
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***

** CONC OF HRA IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
635575.00	4176400.00	24.61210	(04021505)	633650.00	4176200.00	140.39269	(04121104)
633700.00	4176200.00	128.93266	(04121105)	633850.00	4176200.00	104.89569	(05122323)
633850.00	4176250.00	101.67234	(04121105)	633950.00	4176250.00	89.69951	(05122323)
634350.00	4176250.00	59.22073	(05010918)	633750.00	4176300.00	120.38708	(07121419)
633950.00	4176300.00	87.22595	(04121105)	634000.00	4176300.00	82.42920	(06122321)
634050.00	4176300.00	77.65486	(06012821)	634050.00	4176350.00	75.81459	(04121105)
634050.00	4176400.00	73.64726	(04121108)	634000.00	4176450.00	81.57051	(07121419)
634050.00	4176450.00	74.62121	(07121419)	634200.00	4176600.00	62.71729	(08120919)
634100.00	4176650.00	68.53088	(08021808)	634150.00	4176650.00	64.02231	(08021808)
634200.00	4176650.00	60.91728	(04120904)	634200.00	4176850.00	53.95835	(08121003)
634200.00	4176900.00	52.13740	(08021908)	634250.00	4176900.00	50.97613	(08121003)
634300.00	4176900.00	49.06898	(04011022)	634400.00	4177000.00	43.44322	(08121003)
634450.00	4177000.00	42.69693	(04011022)	634500.00	4177000.00	41.97517	(08021808)
634550.00	4177000.00	41.70373	(08021808)	634400.00	4177050.00	43.04436	(08121003)
634450.00	4177050.00	41.26028	(08121003)	634500.00	4177050.00	40.64289	(04011022)
634550.00	4177050.00	39.63844	(08021808)	633750.00	4173175.00	40.20925	(05021804)
634450.00	4173325.00	39.29516	(04122822)	634450.00	4173375.00	39.91240	(05020818)
634350.00	4173475.00	42.98163	(04122822)	634300.00	4173625.00	44.36315	(05020818)
634300.00	4173675.00	45.73547	(05020818)	634350.00	4173675.00	44.23334	(05020818)
634250.00	4173775.00	47.57011	(05020818)	633950.00	4173825.00	47.85456	(04022318)
634050.00	4173825.00	46.95394	(04122822)	634100.00			

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4173825.00       50.27604  (04122822)
        634250.00   4173825.00       47.59478  (05020818)                634250.00
4173975.00       41.41711  (05011521)
        634150.00   4174125.00       43.75594  (05011521)                634200.00
4174125.00       48.28829  (05011521)
        634250.00   4174125.00       50.10460  (05011521)                634250.00
4174225.00       49.27815  (05011520)
        634350.00   4174225.00       45.96992  (05011520)                634400.00
4174225.00       42.49638  (04022018)
        634200.00   4174325.00       51.17859  (05011520)                634250.00
4174325.00       48.06583  (05011520)
        634200.00   4174375.00       51.62350  (05011520)                634250.00
4174425.00       45.09126  (04022018)
        634000.00   4174475.00       62.72254  (05011521)                634250.00
4174525.00       41.71081  (04022018)
        634100.00   4174575.00       54.63739  (04022018)                634150.00
4174575.00       50.74285  (04022018)
        634200.00   4174575.00       46.15561  (04022018)                634250.00
4174575.00       39.34335  (04022018)
        634250.00   4174625.00       37.69021  (07122717)                634250.00
4174675.00       39.80192  (07012702)
        634250.00   4174825.00       40.94788  (07012702)                634250.00
4174875.00       46.91434  (06011617)
        634200.00   4174925.00       50.86894  (06011617)                634250.00
4174925.00       51.11843  (06011617)
        631950.00   4173950.00       26.70158  (04101605)                631550.00
4174000.00       28.75248  (08121017)
        631550.00   4174050.00       28.79129  (08121017)                631750.00
4174250.00       36.78294  (08121017)
        632300.00   4174300.00       54.40187  (06011021)                632350.00
4174300.00       55.54937  (06102817)
        632300.00   4174350.00       59.49552  (06011021)                632350.00
4174350.00       56.44751  (05042119)
        631600.00   4174400.00       40.99499  (04012317)                631650.00
4174400.00       49.55480  (04012317)
        632000.00   4174400.00       63.03766  (06011109)                632000.00
4174450.00       60.35387  (07121217)
        631950.00   4174500.00       60.52432  (07121217)                632150.00
4174950.00       89.43162  (04012317)
 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                          ***        01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                          ***        15:43:26

                                    PAGE 193
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  IDLING1  ***
                                    INCLUDING SOURCE(S):     L0007039    , L0007040
```

, L0007041   , L0007042   , L0007043   ,
L0007044   , L0007045   , L0007046   , L0007047   , L0007048
, L0007049   , L0007050   , L0007051   ,
L0007052   , L0007053   , L0007054   , L0007055   , L0007056
, L0007057   , L0007058   , L0007059   ,
L0007060   , L0007061   , L0007062   , L0007063   , L0007064
, L0007065   , L0007066   , . . .   ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF HRA   IN MICROGRAMS/M**3 **

X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)

- -

632200.00   4174950.00   92.26851 (04012317)

↑ *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse ***   01/07/21

*** AERMET - VERSION 18081 ***   *** Operational HRA - DPM ***   15:43:26

PAGE 194

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: IDLING2 ***

INCLUDING SOURCE(S):   L0007095   , L0007096
, L0007097   , L0007098   , L0007099   ,
L0007100   , L0007101   , L0007102   , L0007103   , L0007104
, L0007105   , L0007106   , L0007107   ,
L0007108   , L0007109   , L0007110   , L0007111   , L0007112
, L0007113   , L0007114   , L0007115   ,
L0007116   , L0007117   , L0007118   , L0007119   , L0007120
, L0007121   , L0007122   , . . .   ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF HRA   IN MICROGRAMS/M**3 **

X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)

- -

631050.00   4178050.00   18.89972 (06021721)   631150.00

4178250.00 17.95416 (07121206)
631250.00 4178250.00 18.40758 (05022705) 631350.00
4178250.00 18.83611 (06011018)
631450.00 4178250.00 19.05552 (06012819) 631550.00
4178250.00 22.61197 (05011001)
631650.00 4178250.00 23.54973 (07012805) 631750.00
4178250.00 23.99828 (06122519)
631150.00 4178350.00 17.29007 (05022705) 631450.00
4178350.00 20.18066 (05011001)
631550.00 4178350.00 22.17011 (05011001) 631650.00
4178350.00 22.25401 (07012805)
631750.00 4178350.00 22.88453 (06122519) 630650.00
4178450.00 14.53157 (06021721)
630850.00 4178450.00 17.61863 (08011010) 631050.00
4178450.00 16.29261 (07121206)
631150.00 4178450.00 16.45176 (05022705) 631250.00
4178450.00 17.03306 (06011018)
631550.00 4178450.00 21.17104 (07012805) 631650.00
4178450.00 21.52274 (06122519)
631750.00 4178450.00 21.91377 (05122622) 631850.00
4178450.00 22.35424 (07122907)
631950.00 4178450.00 22.10419 (06021720) 632050.00
4178450.00 22.95618 (06020123)
632150.00 4178450.00 23.21601 (07021207) 630550.00
4178550.00 13.62759 (06021721)
630650.00 4178550.00 14.88227 (08011010) 630750.00
4178550.00 16.89761 (08011010)
630950.00 4178550.00 15.40976 (07121206) 631050.00
4178550.00 15.71113 (05022705)
631250.00 4178550.00 16.24908 (06012819) 631350.00
4178550.00 18.63774 (05011001)
631450.00 4178550.00 20.02954 (05011001) 631550.00
4178550.00 19.98507 (07012805)
631650.00 4178550.00 20.62199 (06122519) 631750.00
4178550.00 20.61737 (07122907)
631850.00 4178550.00 21.28778 (06021720) 631950.00
4178550.00 20.52707 (06020123)
632050.00 4178550.00 21.85885 (06020123) 632150.00
4178550.00 22.14938 (07021207)
630450.00 4178650.00 12.79594 (06021721) 630550.00
4178650.00 14.01948 (08011010)
630650.00 4178650.00 16.11577 (08011010) 630750.00
4178650.00 16.70453 (08011010)
630850.00 4178650.00 15.39460 (08011010) 630950.00
4178650.00 14.87673 (05022705)
631050.00 4178650.00 14.95944 (06011018) 631150.00
4178650.00 15.35801 (06011018)
631250.00 4178650.00 16.55941 (05011001) 631350.00
4178650.00 18.77975 (05011001)
631450.00 4178650.00 19.19204 (07012805) 631550.00

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4178650.00       19.48028  (06122519)
        631650.00   4178650.00       19.87817  (05122622)                631750.00
4178650.00       20.19078  (07122907)
        631850.00   4178650.00       20.27893  (06021720)                631950.00
4178650.00       20.40139  (06020123)
        632050.00   4178650.00       20.42516  (07021207)                632150.00
4178650.00       21.19994  (04022120)
        630350.00   4178750.00       12.03583  (06021721)                630450.00
4178750.00       13.15863  (08011010)
        630550.00   4178750.00       15.44251  (08011010)                630650.00
4178750.00       16.28475  (08011010)
        630750.00   4178750.00       15.44852  (08011010)                630850.00
4178750.00       14.01252  (07121206)
        630950.00   4178750.00       14.14699  (05022705)                631050.00
4178750.00       14.67139  (06011018)
        631150.00   4178750.00       14.73202  (06012819)                631250.00
4178750.00       17.24739  (05011001)
        631350.00   4178750.00       18.15595  (05011001)                631450.00
4178750.00       18.10129  (07012805)
        631550.00   4178750.00       18.74693  (06122519)                631650.00
4178750.00       18.66311  (05122622)
        631750.00   4178750.00       19.24852  (07122907)                631850.00
4178750.00       18.83208  (06021720)
        631950.00   4178750.00       19.86753  (06020123)                632050.00
4178750.00       19.97519  (07021207)
        632150.00   4178750.00       20.32565  (08011009)                630250.00
4178850.00       11.32911  (06021721)
        630350.00   4178850.00       12.39684  (08011010)                630450.00
4178850.00       14.71895  (08011010)
↟ *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                          ***        01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                         ***        15:43:26

                                    PAGE 195
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  IDLING2  ***
                                    INCLUDING SOURCE(S):     L0007095    , L0007096
, L0007097    , L0007098    , L0007099    ,
                  L0007100    , L0007101    , L0007102    , L0007103    , L0007104
, L0007105    , L0007106    , L0007107    ,
                  L0007108    , L0007109    , L0007110    , L0007111    , L0007112
, L0007113    , L0007114    , L0007115    ,
                  L0007116    , L0007117    , L0007118    , L0007119    , L0007120
, L0007121    , L0007122    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
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** CONC OF HRA IN MICROGRAMS/M**3

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
630550.00	4178850.00	15.88194	(08011010)	630650.00	4178850.00	15.37824	(08011010)
630750.00	4178850.00	13.45385	(08011010)	630850.00	4178850.00	13.59467	(05022705)
630950.00	4178850.00	13.87538	(06011018)	631050.00	4178850.00	14.04281	(06012819)
631150.00	4178850.00	15.52057	(05011001)	631250.00	4178850.00	17.20985	(05011001)
631350.00	4178850.00	17.48843	(07012805)	631450.00	4178850.00	17.72159	(06122519)
631550.00	4178850.00	18.09475	(05122622)	631650.00	4178850.00	18.30829	(07122907)
631750.00	4178850.00	18.54531	(06021720)	631850.00	4178850.00	18.06138	(06020123)
631950.00	4178850.00	18.97352	(06020123)	632050.00	4178850.00	19.25629	(07021207)
632150.00	4178850.00	20.08801	(08011009)	630250.00	4178950.00	11.65442	(08011010)
630350.00	4178950.00	14.01616	(08011010)	630450.00	4178950.00	15.35019	(08011010)
630550.00	4178950.00	15.32297	(08011010)	630650.00	4178950.00	13.70928	(08011010)
630750.00	4178950.00	12.97447	(05022705)	630850.00	4178950.00	12.99755	(06011018)
630950.00	4178950.00	13.38758	(06011018)	631050.00	4178950.00	13.75862	(05011001)
631150.00	4178950.00	15.97208	(05011001)	631250.00	4178950.00	16.54786	(05011001)
631350.00	4178950.00	16.50080	(07012805)	631450.00	4178950.00	17.12262	(06122519)
631550.00	4178950.00	17.11956	(05122622)	631650.00	4178950.00	17.66974	(07122907)
631750.00	4178950.00	17.51539	(06021720)	631850.00	4178950.00	17.87261	(06020123)
631950.00	4178950.00	17.81042	(06020123)	632050.00	4178950.00	18.38864	(04022120)
632150.00	4178950.00	19.66915	(08011009)	629950.00	4179050.00	10.89905	(06013009)
630250.00	4179050.00	13.32791	(08011010)	630350.00	4179050.00	14.83787	(08011010)
630450.00	4179050.00	15.10382	(08011010)	630550.00	4179050.00	13.92518	(08011010)

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        630650.00   4179050.00       12.30245  (05022705)                630750.00
4179050.00       12.32095  (05022705)
        630850.00   4179050.00       12.80493  (06011018)                630950.00
4179050.00       12.88989  (06012819)
        631050.00   4179050.00       14.56389  (05011001)                631150.00
4179050.00       15.82962  (05011001)
        631250.00   4179050.00       16.01739  (07012805)                631350.00
4179050.00       16.23220  (06122519)
        631450.00   4179050.00       16.57194  (05122622)                631550.00
4179050.00       16.62013  (07122907)
        631650.00   4179050.00       16.95309  (06021720)                631750.00
4179050.00       16.20442  (06021720)
        631850.00   4179050.00       17.39301  (06020123)                631950.00
4179050.00       17.45037  (07021207)
        632050.00   4179050.00       17.74128  (04022120)                632150.00
4179050.00       19.07114  (08011009)
        629850.00   4179150.00       10.63994  (06013009)                629950.00
4179150.00       10.22739  (06013009)
        630150.00   4179150.00       12.62160  (08011010)                630250.00
4179150.00       14.27766  (08011010)
        630350.00   4179150.00       14.78835  (08011010)                630450.00
4179150.00       13.97570  (08011010)
        630550.00   4179150.00       11.99234  (08011010)                630650.00
4179150.00       11.91889  (05022705)
        630750.00   4179150.00       12.14913  (06011018)                630850.00
4179150.00       12.27450  (06012819)
        630950.00   4179150.00       13.05621  (05011001)                631050.00
4179150.00       14.83167  (05011001)
        631150.00   4179150.00       15.18286  (07012805)                631250.00
4179150.00       15.11162  (07012805)
        631350.00   4179150.00       15.73103  (06122519)                631450.00
4179150.00       15.80307  (05122622)
        631550.00   4179150.00       16.20815  (07122907)                631650.00
4179150.00       16.22999  (06021720)
        631750.00   4179150.00       16.03928  (06020123)                631850.00
4179150.00       16.69085  (06020123)
        631950.00   4179150.00       16.83413  (07021207)                632050.00
4179150.00       17.20706  (08011009)
↟ *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                          ***        01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                         ***        15:43:26

                                    PAGE 196
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  IDLING2  ***
                                    INCLUDING SOURCE(S):     L0007095    , L0007096
, L0007097    , L0007098    , L0007099    ,
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                L0007100    , L0007101    , L0007102    , L0007103    , L0007104
, L0007105    , L0007106    , L0007107    ,
                L0007108    , L0007109    , L0007110    , L0007111    , L0007112
, L0007113    , L0007114    , L0007115    ,
                L0007116    , L0007117    , L0007118    , L0007119    , L0007120
, L0007121    , L0007122    ,  . . .      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF HRA      IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        632150.00   4179150.00       18.34213  (08011009)               630850.00
4179250.00       11.81528  (06012819)
        630950.00   4179250.00       13.65308  (05011001)               631050.00
4177625.00       22.10023  (04120901)
        631100.00   4177725.00       21.63116  (05122923)               631100.00
4177825.00       19.49165  (05122923)
        631350.00   4178225.00       18.93818  (06011018)               631400.00
4178225.00       19.24559  (06011018)
        631450.00   4178225.00       19.31547  (06012819)               631500.00
4178225.00       20.69801  (05011001)
        631100.00   4178275.00       17.93913  (08011010)               631150.00
4178275.00       17.83799  (07121206)
        631200.00   4178275.00       17.98842  (05022705)               631250.00
4178275.00       18.16395  (05022705)
        631300.00   4178275.00       18.18753  (06011018)               631350.00
4178275.00       18.67759  (06011018)
        631400.00   4178275.00       18.69651  (06012819)               631450.00
4178275.00       19.23333  (05011001)
        631500.00   4178275.00       21.26209  (05011001)               630950.00
4178325.00       18.32712  (08011010)
        631100.00   4178325.00       17.26893  (07121206)               631150.00
4178325.00       17.40946  (07121206)
        631200.00   4178325.00       17.68417  (05022705)               631250.00
4178325.00       17.49898  (05022705)
        631300.00   4178325.00       18.08194  (06011018)               631400.00
4178325.00       18.28531  (06012819)
        631450.00   4178325.00       19.93509  (05011001)               631500.00
4178325.00       21.53494  (05011001)
        630950.00   4178375.00       18.18291  (08011010)               631200.00
4178375.00       17.13261  (05022705)
        631300.00   4178375.00       17.72386  (06011018)               631400.00
4178375.00       18.59353  (05011001)
        631450.00   4178375.00       20.36534  (05011001)               631500.00
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4178375.00       21.52421  (05011001)
        630800.00   4178425.00       16.69523  (08011010)                630850.00
4178425.00       17.55637  (08011010)
        631050.00   4178425.00       16.48105  (07121206)                631200.00
4178425.00       16.76656  (06011018)
        631250.00   4178425.00       17.21902  (06011018)                631300.00
4178425.00       17.20190  (06012819)
        630650.00   4178475.00       14.57150  (06021721)                630800.00
4178475.00       17.16836  (08011010)
        630850.00   4178475.00       17.58934  (08011010)                631050.00
4178475.00       16.09272  (05022705)
        631200.00   4178475.00       16.67563  (06011018)                631250.00
4178475.00       16.80634  (06011018)
        631300.00   4178475.00       16.88455  (06012819)                631450.00
4178475.00       20.50653  (05011001)
        631500.00   4178475.00       20.76419  (05011001)                630550.00
4178525.00       13.50698  (06021721)
        630600.00   4178525.00       14.12792  (06021721)                630650.00
4178525.00       14.48272  (06021721)
        630700.00   4178525.00       15.75880  (08011010)                630750.00
4178525.00       16.75492  (08011010)
        630950.00   4178525.00       15.79592  (08011010)                631050.00
4178525.00       15.88702  (05022705)
        631200.00   4178525.00       16.38942  (06011018)                631250.00
4178525.00       16.40951  (06012819)
        631300.00   4178525.00       16.76817  (05011001)                631350.00
4178525.00       18.46794  (05011001)
        631400.00   4178525.00       19.66407  (05011001)                631450.00
4178525.00       20.24797  (05011001)
        631500.00   4178525.00       20.32058  (07012805)                630500.00
4178575.00       13.07349  (06021721)
        630550.00   4178575.00       13.70138  (06021721)                630600.00
4178575.00       14.09211  (06021721)
        630650.00   4178575.00       15.24580  (08011010)                630700.00
4178575.00       16.31659  (08011010)
        630750.00   4178575.00       16.97667  (08011010)                630800.00
4178575.00       17.07998  (08011010)
        630850.00   4178575.00       16.70759  (08011010)                631000.00
4178575.00       15.43268  (05022705)
        631050.00   4178575.00       15.49361  (05022705)                631200.00
4178575.00       15.93029  (06011018)
        631250.00   4178575.00       16.04892  (06012819)                631300.00
4178575.00       17.37423  (05011001)
        631350.00   4178575.00       18.74676  (05011001)                631400.00
4178575.00       19.57691  (05011001)
        631450.00   4178575.00       19.73870  (05011001)                631500.00
4178575.00       19.93016  (07012805)
 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                           ***        01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: IDLING2 ***
INCLUDING SOURCE(S): L0007095 , L0007096 , L0007097 , L0007098 , L0007099 ,
L0007100 , L0007101 , L0007102 , L0007103 , L0007104 , L0007105 , L0007106 , L0007107 ,
L0007108 , L0007109 , L0007110 , L0007111 , L0007112 , L0007113 , L0007114 , L0007115 ,
L0007116 , L0007117 , L0007118 , L0007119 , L0007120 , L0007121 , L0007122 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF HRA IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
630500.00	4178625.00	13.28533	(06021721)	630550.00	4178625.00	13.70374	(06021721)
630600.00	4178625.00	14.87085	(08011010)	630650.00	4178625.00	15.87995	(08011010)
630700.00	4178625.00	16.60757	(08011010)	630750.00	4178625.00	16.86000	(08011010)
630800.00	4178625.00	16.63836	(08011010)	630850.00	4178625.00	15.91685	(08011010)
631000.00	4178625.00	15.13343	(05022705)	631050.00	4178625.00	14.93755	(05022705)
631100.00	4178625.00	15.44906	(06011018)	631150.00	4178625.00	15.58203	(06011018)
631200.00	4178625.00	15.64823	(06012819)	631250.00	4178625.00	16.27693	(05011001)
631300.00	4178625.00	17.78454	(05011001)	631350.00	4178625.00	18.82303	(05011001)
631400.00	4178625.00	19.26972	(05011001)	631450.00	4178625.00	19.36778	(07012805)
631500.00	4178625.00	19.35392	(07012805)	631100.00	4175700.00	65.34621	(04121304)
631150.00	4175700.00	67.99724	(04121304)	631200.00	4175700.00	70.95060	(04121304)
631250.00	4175700.00	73.92781	(04121304)	631100.00	4175750.00	62.00278	(05122618)

631150.00 4175750.00 64.23767 (05122618) 629400.00
4179050.00 9.47457 (05022704)
629450.00 4179050.00 9.38670 (04120901) 629500.00
4179050.00 9.68623 (04120901)
629400.00 4179100.00 9.20703 (04120901) 629450.00
4179100.00 9.49311 (04120901)
629400.00 4179150.00 9.30397 (04120901) 629500.00
4179150.00 9.56249 (04120901)
629550.00 4179150.00 9.65523 (04120902) 629600.00
4179150.00 9.78203 (04120902)
629650.00 4179150.00 9.82119 (05122923) 629700.00
4179150.00 10.21475 (06013009)
629800.00 4179200.00 10.55152 (06013009) 629400.00
4179300.00 9.07424 (04120902)
629400.00 4179350.00 9.00348 (04120902) 634375.00
4175350.00 62.96194 (06100508)
634425.00 4175350.00 62.80652 (06100508) 635425.00
4175350.00 28.29874 (06100508)
635425.00 4175400.00 25.78248 (08011020) 635475.00
4175400.00 25.09313 (05122420)
634325.00 4175450.00 66.55709 (06100508) 634475.00
4175450.00 56.97631 (06100508)
634525.00 4175450.00 53.78284 (06100508) 634525.00
4175500.00 50.06361 (08011020)
634325.00 4175550.00 60.60399 (08011020) 634525.00
4175550.00 50.23995 (05122420)
634575.00 4175550.00 48.08831 (05122420) 634775.00
4175550.00 40.74973 (07012218)
634825.00 4175550.00 39.23439 (07012218) 634625.00
4175600.00 46.24954 (05020819)
634675.00 4175600.00 44.27255 (05020819) 634725.00
4175600.00 42.50667 (05020819)
634775.00 4175600.00 40.73309 (05020819) 634825.00
4175600.00 39.13980 (05020819)
634875.00 4175600.00 37.57102 (05020819) 634925.00
4175600.00 36.11215 (05020819)
635375.00 4175600.00 27.22826 (07021102) 634275.00
4175650.00 64.33169 (05020819)
634325.00 4175650.00 60.72352 (05020819) 634575.00
4175650.00 48.27036 (07021102)
634625.00 4175650.00 46.21372 (07021102) 634675.00
4175650.00 44.37902 (07021102)
634725.00 4175650.00 42.63144 (07021102) 634775.00
4175650.00 40.91207 (07021102)
634825.00 4175650.00 39.42524 (07021102) 634875.00
4175650.00 37.93840 (07021102)
634925.00 4175650.00 36.50438 (07021102) 634975.00
4175650.00 35.24556 (07021102)
635025.00 4175650.00 33.95758 (07021102) 635325.00
4175650.00 27.90459 (07021102)

                                *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: IDLING2 ***
                                   INCLUDING SOURCE(S):   L0007095   , L0007096 , L0007097   , L0007098   , L0007099   ,
                  L0007100   , L0007101   , L0007102   , L0007103   , L0007104 , L0007105   , L0007106   , L0007107   ,
                  L0007108   , L0007109   , L0007110   , L0007111   , L0007112 , L0007113   , L0007114   , L0007115   ,
                  L0007116   , L0007117   , L0007118   , L0007119   , L0007120 , L0007121   , L0007122   , . . .   ,

                                                  *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                             ** CONC OF HRA   IN MICROGRAMS/M**3
                    **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)
 -
        634725.00   4175700.00   42.55316 (06012822)   634775.00   4175700.00   40.89123 (06012822)
        634825.00   4175700.00   39.26663 (06012822)   634875.00   4175700.00   37.91281 (06012822)
        634925.00   4175700.00   36.46404 (06012822)   634975.00   4175700.00   35.24815 (06012822)
        635025.00   4175700.00   33.97752 (06012822)   635075.00   4175700.00   32.91088 (06012822)
        635125.00   4175700.00   31.84820 (06012822)   634425.00   4175750.00   55.63430 (04122902)
        634575.00   4175750.00   48.39768 (04122902)   634625.00   4175750.00   46.30252 (04122902)
        634675.00   4175750.00   44.35785 (04122902)   634725.00   4175750.00   42.65674 (04122902)
        634775.00   4175750.00   40.95389 (04122902)   634825.00

4175750.00 39.39787 (04122902)
634875.00 4175750.00 37.85859 (04122902) 634925.00
4175750.00 36.50173 (04122902)
634975.00 4175750.00 35.21235 (04122902) 635025.00
4175750.00 33.96278 (04122902)
635075.00 4175750.00 32.88020 (04122902) 635125.00
4175750.00 31.81999 (04122902)
635175.00 4175750.00 30.72830 (04122902) 635225.00
4175750.00 29.85544 (04122902)
634325.00 4175800.00 58.46473 (06121322) 634375.00
4175800.00 54.97923 (07011518)
634425.00 4175800.00 52.09348 (07011518) 634475.00
4175800.00 49.61189 (07011518)
634525.00 4175800.00 47.24980 (06011619) 634575.00
4175800.00 45.11815 (06011619)
634625.00 4175800.00 43.38831 (06011619) 634675.00
4175800.00 41.50121 (06011619)
634725.00 4175800.00 39.93984 (06011619) 634775.00
4175800.00 38.39905 (04122902)
634825.00 4175800.00 37.11662 (04122902) 634875.00
4175800.00 35.70215 (04122902)
634925.00 4175800.00 34.53896 (04122902) 634975.00
4175800.00 33.38310 (04122902)
635025.00 4175800.00 32.27199 (04122902) 635075.00
4175800.00 31.20503 (04122902)
635125.00 4175800.00 30.23245 (04122902) 635175.00
4175800.00 29.36637 (04122902)
635225.00 4175800.00 28.47903 (04122902) 635275.00
4175800.00 27.68198 (04122902)
635325.00 4175800.00 26.83869 (04122902) 634225.00
4175850.00 72.05446 (06121322)
634325.00 4175850.00 64.71157 (06121322) 634375.00
4175850.00 61.17364 (06121322)
634425.00 4175850.00 58.03144 (06121322) 634475.00
4175850.00 55.13564 (06121322)
634525.00 4175850.00 52.37084 (06121322) 634575.00
4175850.00 49.73582 (06121322)
634625.00 4175850.00 47.56653 (06121322) 634675.00
4175850.00 45.18653 (06121322)
634725.00 4175850.00 43.03300 (06121322) 634775.00
4175850.00 41.25413 (06121322)
634825.00 4175850.00 39.36290 (06121322) 634875.00
4175850.00 37.59850 (06121322)
634925.00 4175850.00 35.91643 (06121322) 634975.00
4175850.00 34.41523 (06121322)
635025.00 4175850.00 32.94210 (06121322) 635075.00
4175850.00 31.63835 (06121322)
635125.00 4175850.00 30.37872 (06121322) 635175.00
4175850.00 29.19473 (06121322)
635225.00 4175850.00 28.01525 (06121322) 635275.00

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4175850.00       27.00646  (06121322)
        635325.00   4175850.00       26.13934  (07011518)                635375.00
4175850.00       25.28692  (07011518)
        635425.00   4175850.00       24.51739  (07011518)                634225.00
4175900.00       70.93428  (07021221)
        634325.00   4175900.00       62.98244  (07011318)                634375.00
4175900.00       60.00409  (07011318)
        634425.00   4175900.00       57.09644  (07011318)                634475.00
4175900.00       54.53887  (07011318)
        634525.00   4175900.00       52.27876  (06121322)                634575.00
4175900.00       50.24960  (06121322)
        634625.00   4175900.00       48.40244  (06121322)                634675.00
4175900.00       46.69294  (06121322)
        634725.00   4175900.00       44.79333  (06121322)                634775.00
4175900.00       43.16294  (06121322)
🡅 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                        ***        01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                       ***        15:43:26

                                   PAGE 199
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  IDLING2  ***
                                   INCLUDING SOURCE(S):     L0007095    , L0007096
, L0007097    , L0007098    , L0007099    ,
                L0007100    , L0007101    , L0007102    , L0007103    , L0007104
, L0007105    , L0007106    , L0007107    ,
                L0007108    , L0007109    , L0007110    , L0007111    , L0007112
, L0007113    , L0007114    , L0007115    ,
                L0007116    , L0007117    , L0007118    , L0007119    , L0007120
, L0007121    , L0007122    ,  . . .      ,

                                              *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                         ** CONC OF HRA      IN MICROGRAMS/M**3
                   **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - -
        634875.00   4175900.00       39.88462  (06121322)                634925.00
4175900.00       38.31301  (06121322)
        634975.00   4175900.00       36.94361  (06121322)                635025.00
4175900.00       35.56921  (06121322)
        635075.00   4175900.00       34.30375  (06121322)                635125.00
4175900.00       33.00453  (06121322)
```

635175.00 4175900.00 31.85324 (06121322) 635225.00
4175900.00 30.73896 (06121322)
635275.00 4175900.00 29.63476 (06121322) 635325.00
4175900.00 28.67912 (06121322)
635375.00 4175900.00 27.56712 (06121322) 635425.00
4175900.00 26.64838 (06121322)
635475.00 4175900.00 25.73889 (06121322) 635525.00
4175900.00 24.89126 (06121322)
634325.00 4175950.00 63.76981 (04121118) 634375.00
4175950.00 60.53152 (07021221)
634425.00 4175950.00 57.79372 (07021221) 634475.00
4175950.00 55.23653 (07021221)
634525.00 4175950.00 52.64795 (07021221) 634575.00
4175950.00 50.12754 (07021221)
634625.00 4175950.00 47.90447 (07021221) 634675.00
4175950.00 45.71366 (07021221)
634875.00 4175950.00 38.98404 (07011318) 634925.00
4175950.00 37.60759 (07011318)
634975.00 4175950.00 36.37070 (07011318) 635025.00
4175950.00 35.17829 (06121322)
635075.00 4175950.00 34.15153 (06121322) 635125.00
4175950.00 33.17644 (06121322)
635175.00 4175950.00 32.22605 (06121322) 635225.00
4175950.00 31.20385 (06121322)
635275.00 4175950.00 30.38056 (06121322) 635325.00
4175950.00 29.38633 (06121322)
635375.00 4175950.00 28.54602 (06121322) 635425.00
4175950.00 27.70200 (06121322)
635475.00 4175950.00 26.87574 (06121322) 635525.00
4175950.00 26.01482 (06121322)
635575.00 4175950.00 25.28215 (06121322) 634725.00
4176000.00 44.29735 (07021221)
634925.00 4176000.00 37.89278 (07021221) 634975.00
4176000.00 36.55209 (07021221)
635025.00 4176000.00 35.12163 (07021221) 635075.00
4176000.00 33.64578 (07021221)
635125.00 4176000.00 32.33434 (07021221) 635175.00
4176000.00 31.27848 (07011318)
635225.00 4176000.00 30.43217 (07011318) 635275.00
4176000.00 29.65794 (07011318)
635325.00 4176000.00 28.75695 (07011318) 635375.00
4176000.00 27.97305 (07011318)
635425.00 4176000.00 27.12678 (07011318) 635475.00
4176000.00 26.34902 (07011318)
635525.00 4176000.00 25.64191 (06121322) 635575.00
4176000.00 24.98431 (06121322)
634825.00 4176050.00 40.41384 (06011620) 634875.00
4176050.00 39.09169 (04121118)
634925.00 4176050.00 37.81637 (04121118) 634975.00
4176050.00 36.50970 (04121118)

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        635025.00   4176050.00       35.15076  (04121118)                635075.00
4176050.00       34.03969  (07021221)
        635125.00   4176050.00       33.07799  (07021221)                635175.00
4176050.00       32.04597  (07021221)
        635225.00   4176050.00       31.03832  (07021221)                635275.00
4176050.00       30.02825  (07021221)
        635325.00   4176050.00       29.01694  (07021221)                635375.00
4176050.00       27.98873  (07021221)
        635425.00   4176050.00       27.08741  (07021221)                635475.00
4176050.00       26.11993  (07021221)
        635525.00   4176050.00       25.19786  (07021221)                635575.00
4176050.00       24.38621  (07011318)
        634825.00   4176100.00       40.23741  (06020205)                634875.00
4176100.00       38.83247  (06020205)
        634925.00   4176100.00       37.31358  (06011620)                634975.00
4176100.00       36.21467  (06011620)
        635025.00   4176100.00       35.11366  (06011620)                635075.00
4176100.00       33.92105  (06011620)
        635125.00   4176100.00       32.69592  (06011620)                635175.00
4176100.00       31.71598  (04121118)
        635225.00   4176100.00       30.82124  (04121118)                635275.00
4176100.00       29.88829  (04121118)
        635325.00   4176100.00       28.94593  (04121118)                635375.00
4176100.00       28.04091  (07021221)
 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                          ***        01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                         ***        15:43:26

                                    PAGE 200
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  IDLING2  ***
                                    INCLUDING SOURCE(S):     L0007095    , L0007096
, L0007097    , L0007098    , L0007099    ,
                   L0007100    , L0007101    , L0007102    , L0007103    , L0007104
, L0007105    , L0007106    , L0007107    ,
                   L0007108    , L0007109    , L0007110    , L0007111    , L0007112
, L0007113    , L0007114    , L0007115    ,
                   L0007116    , L0007117    , L0007118    , L0007119    , L0007120
, L0007121    , L0007122    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                             ** CONC OF HRA      IN MICROGRAMS/M**3
                    **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
```

Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
635425.00   4176100.00   27.22316 (07021221)   635475.00
4176100.00   26.56014 (07021221)
635525.00   4176100.00   25.84006 (07021221)   635575.00
4176100.00   25.12551 (07021221)
634825.00   4176150.00   39.65534 (04021505)   634875.00
4176150.00   38.55102 (04021505)
634925.00   4176150.00   37.15921 (04021505)   634975.00
4176150.00   35.84756 (04021505)
635025.00   4176150.00   34.74162 (06020205)   635075.00
4176150.00   33.64902 (06020205)
635125.00   4176150.00   32.62001 (06020205)   635175.00
4176150.00   31.47449 (06020205)
635225.00   4176150.00   30.50229 (06011620)   635275.00
4176150.00   29.74446 (06011620)
635325.00   4176150.00   28.84463 (06011620)   635375.00
4176150.00   27.96448 (06011620)
635425.00   4176150.00   26.98173 (06011620)   635475.00
4176150.00   26.34028 (04121118)
635525.00   4176150.00   25.66114 (04121118)   635575.00
4176150.00   24.98251 (04121118)
634875.00   4176200.00   38.16512 (06020208)   634925.00
4176200.00   36.51049 (06020208)
634975.00   4176200.00   34.89767 (04021505)   635125.00
4176200.00   32.34806 (04021505)
635175.00   4176200.00   31.38372 (04021505)   635225.00
4176200.00   30.26544 (04021505)
635525.00   4176200.00   25.51358 (06011620)   635575.00
4176200.00   24.82176 (06011620)
634325.00   4176250.00   57.80413 (07010308)   634375.00
4176250.00   54.70202 (07010308)
634875.00   4176250.00   37.83372 (05011419)   634925.00
4176250.00   36.53835 (05011419)
634975.00   4176250.00   35.29741 (06020208)   635025.00
4176250.00   34.23914 (06020208)
635075.00   4176250.00   33.05142 (06020208)   635125.00
4176250.00   31.83209 (06020208)
635175.00   4176250.00   30.51220 (06020208)   635225.00
4176250.00   29.79592 (04021505)
635275.00   4176250.00   29.12446 (04021505)   635375.00
4176250.00   27.57378 (04021505)
635425.00   4176250.00   26.78670 (04021505)   635525.00
4176250.00   25.31856 (06020205)
635575.00   4176250.00   24.69898 (06020205)   634875.00
4176300.00   37.17088 (05010918)
634925.00   4176300.00   36.14462 (05010918)   634975.00
4176300.00   34.93302 (05010918)
635025.00   4176300.00   33.83453 (05011419)   635075.00

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4176300.00       32.85036  (05011419)
        635125.00   4176300.00       31.76765  (05011419)                635175.00
4176300.00       30.76511  (06020208)
        635225.00   4176300.00       29.95328  (06020208)                635275.00
4176300.00       29.08928  (06020208)
        635375.00   4176300.00       26.92951  (06020208)                635425.00
4176300.00       26.12605  (04021505)
        635525.00   4176300.00       25.12025  (04021505)                635575.00
4176300.00       24.46800  (04021505)
        634875.00   4176350.00       36.28182  (06012919)                634925.00
4176350.00       35.56526  (06012919)
        634975.00   4176350.00       34.58023  (06012919)                635025.00
4176350.00       33.42240  (06012919)
        635075.00   4176350.00       32.42069  (05010918)                635125.00
4176350.00       31.49015  (05010918)
        635175.00   4176350.00       30.38026  (05010918)                635225.00
4176350.00       29.69149  (05011419)
        635275.00   4176350.00       28.86523  (05011419)                635375.00
4176350.00       27.12082  (06020208)
        635425.00   4176350.00       26.44827  (06020208)                635525.00
4176350.00       24.85986  (06020208)
        635575.00   4176350.00       23.94721  (06020208)                634875.00
4176400.00       36.41643  (05121218)
        634925.00   4176400.00       35.28359  (05121218)                634975.00
4176400.00       33.90056  (05121218)
        635025.00   4176400.00       32.54189  (07021104)                635075.00
4176400.00       31.94153  (06012919)
        635125.00   4176400.00       31.18063  (06012919)                635175.00
4176400.00       30.25708  (06012919)
        635225.00   4176400.00       29.33232  (05010918)                635275.00
4176400.00       28.62784  (05010918)
        635425.00   4176400.00       26.25456  (05011419)                635525.00
4176400.00       24.68330  (05011419)
 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                          ***        01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                         ***        15:43:26

                                    PAGE 201
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  IDLING2  ***
                                    INCLUDING SOURCE(S):     L0007095    , L0007096
, L0007097    , L0007098    , L0007099    ,
                L0007100    , L0007101    , L0007102    , L0007103    , L0007104
, L0007105    , L0007106    , L0007107    ,
                L0007108    , L0007109    , L0007110    , L0007111    , L0007112
, L0007113    , L0007114    , L0007115    ,
                L0007116    , L0007117    , L0007118    , L0007119    , L0007120
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, L0007121   , L0007122   , . . .   ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF HRA IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
635575.00	4176400.00	24.13656	(06020208)	633650.00	4176200.00	139.84831	(08021808)
633700.00	4176200.00	125.58394	(04120904)	633850.00	4176200.00	95.88241	(04121104)
633850.00	4176250.00	101.06589	(07121419)	633950.00	4176250.00	82.94934	(04121104)
634350.00	4176250.00	56.41468	(07010308)	633750.00	4176300.00	112.61147	(08021808)
633950.00	4176300.00	87.08208	(07121419)	634000.00	4176300.00	78.60190	(07121419)
634050.00	4176300.00	72.31556	(04121104)	634050.00	4176350.00	75.57173	(07121419)
634050.00	4176400.00	74.49272	(08120919)	634000.00	4176450.00	77.77300	(08021808)
634050.00	4176450.00	72.14643	(04121907)	634200.00	4176600.00	60.62455	(08021808)
634100.00	4176650.00	60.52905	(08121003)	634150.00	4176650.00	58.90111	(04011022)
634200.00	4176650.00	58.22149	(08021808)	634200.00	4176850.00	53.26166	(08021908)
634200.00	4176900.00	51.23988	(08021908)	634250.00	4176900.00	50.29108	(08021908)
634300.00	4176900.00	47.36251	(08021908)	634400.00	4177000.00	42.81333	(08021908)
634450.00	4177000.00	39.62648	(08121003)	634500.00	4177000.00	39.18494	(08121003)
634550.00	4177000.00	37.41982	(04011022)	634400.00	4177050.00	42.75629	(08021908)
634450.00	4177050.00	40.58129	(08021908)	634500.00	4177050.00	37.83016	(08021908)
634550.00	4177050.00	37.58228	(08121003)	633750.00	4173175.00	42.13208	(05021804)
634450.00	4173325.00	41.87452	(05020818)	634450.00	4173375.00	41.91620	(05020818)
634350.00	4173475.00	45.03551	(05020818)	634300.00	4173625.00	46.72665	(05020818)
634300.00	4173675.00	45.19731	(05020818)	634350.00	4173675.00	39.36151	(05020818)

```
        634250.00   4173775.00       46.00316  (05020818)                633950.00
4173825.00       47.43748  (05021803)
        634050.00   4173825.00       54.08471  (04122822)                634100.00
4173825.00       51.79352  (04122822)
        634250.00   4173825.00       43.11392  (05020818)                634250.00
4173975.00       50.93027  (05011521)
        634150.00   4174125.00       52.53464  (05011521)                634200.00
4174125.00       51.88055  (05011521)
        634250.00   4174125.00       51.87397  (05011520)                634250.00
4174225.00       48.59429  (05011520)
        634350.00   4174225.00       49.79098  (04022018)                634400.00
4174225.00       50.74707  (04022018)
        634200.00   4174325.00       48.13265  (05122304)                634250.00
4174325.00       49.94588  (04022018)
        634200.00   4174375.00       52.86025  (04022018)                634250.00
4174425.00       36.89767  (08011317)
        634000.00   4174475.00       65.35077  (05011520)                634250.00
4174525.00       37.22518  (07012702)
        634100.00   4174575.00       50.37571  (04022018)                634150.00
4174575.00       42.09181  (07122717)
        634200.00   4174575.00       39.54813  (07012702)                634250.00
4174575.00       40.90332  (07012702)
        634250.00   4174625.00       42.75467  (07012702)                634250.00
4174675.00       42.32500  (07012702)
        634250.00   4174825.00       51.89749  (06011617)                634250.00
4174875.00       52.30646  (06011617)
        634200.00   4174925.00       54.81936  (06011617)                634250.00
4174925.00       50.52445  (04021501)
        631950.00   4173950.00       27.29624  (07122718)                631550.00
4174000.00       25.49462  (08121017)
        631550.00   4174050.00       26.60989  (04110819)                631750.00
4174250.00       33.09130  (08121017)
        632300.00   4174300.00       59.19646  (06011021)                632350.00
4174300.00       58.69349  (06011021)
        632300.00   4174350.00       59.87428  (05012117)                632350.00
4174350.00       64.66045  (06011021)
        631600.00   4174400.00       42.40612  (05110618)                631650.00
4174400.00       45.06627  (05110618)
        632000.00   4174400.00       62.21451  (07121217)                632000.00
4174450.00       61.09711  (07121217)
        631950.00   4174500.00       65.12136  (04012317)                632150.00
4174950.00      103.32620  (06121421)
 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                         ***        01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                        ***        15:43:26

                                  PAGE 202
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*
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*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: IDLING2 ***
INCLUDING SOURCE(S): L0007095 , L0007096 , L0007097 , L0007098 , L0007099 ,
L0007100 , L0007101 , L0007102 , L0007103 , L0007104 , L0007105 , L0007106 , L0007107 ,
L0007108 , L0007109 , L0007110 , L0007111 , L0007112 , L0007113 , L0007114 , L0007115 ,
L0007116 , L0007117 , L0007118 , L0007119 , L0007120 , L0007121 , L0007122 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF HRA IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
632200.00	4174950.00	95.40894	(05110618)				

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: IDLING3 ***
INCLUDING SOURCE(S): L0007152 , L0007153 , L0007154 , L0007155 , L0007156 ,
L0007157 , L0007158 , L0007159 , L0007160 , L0007161 , L0007162 , L0007163 , L0007164 ,
L0007165 , L0007166 , L0007167 , L0007168 , L0007169 , L0007170 , L0007171 , L0007172 ,
L0007173 , L0007174 , L0007175 , L0007176 , L0007177 , L0007178 , L0007179 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF HRA IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)

- -

631050.00 4178050.00 18.46850 (05122923) 631150.00
4178250.00 17.77484 (06021721)
631250.00 4178250.00 19.25224 (08011010) 631350.00
4178250.00 19.27274 (08011010)
631450.00 4178250.00 19.24697 (07121206) 631550.00
4178250.00 19.36118 (05022705)
631650.00 4178250.00 20.13397 (06011018) 631750.00
4178250.00 22.70442 (05011001)
631150.00 4178350.00 18.35626 (08011010) 631450.00
4178350.00 18.45341 (05022705)
631550.00 4178350.00 19.00957 (06011018) 631650.00
4178350.00 19.63798 (05011001)
631750.00 4178350.00 23.18035 (05011001) 630650.00
4178450.00 14.54565 (05122923)
630850.00 4178450.00 14.21748 (06021721) 631050.00
4178450.00 17.40812 (08011010)
631150.00 4178450.00 18.41849 (08011010) 631250.00
4178450.00 17.06342 (08011010)
631550.00 4178450.00 18.06855 (06012819) 631650.00
4178450.00 20.81705 (05011001)
631750.00 4178450.00 22.37292 (05011001) 631850.00
4178450.00 22.23010 (06122519)
631950.00 4178450.00 23.28147 (05122622) 632050.00
4178450.00 23.67287 (07122907)
632150.00 4178450.00 24.01357 (06021720) 630550.00
4178550.00 13.77092 (05122923)
630650.00 4178550.00 13.69079 (05122923) 630750.00
4178550.00 13.24785 (06021721)
630950.00 4178550.00 16.43049 (08011010) 631050.00
4178550.00 17.87632 (08011010)
631250.00 4178550.00 16.33161 (05022705) 631350.00
4178550.00 16.35732 (06011018)
631450.00 4178550.00 17.08106 (06011018) 631550.00
4178550.00 18.32733 (05011001)
631650.00 4178550.00 20.96433 (05011001) 631750.00
4178550.00 21.42542 (07012805)
631850.00 4178550.00 21.89109 (06122519) 631950.00
4178550.00 22.09727 (05122622)
632050.00 4178550.00 22.67433 (07122907) 632150.00
4178550.00 22.18096 (06021720)
630450.00 4178650.00 13.06473 (05122923) 630550.00
4178650.00 13.03352 (05122923)
630650.00 4178650.00 12.41900 (04120903) 630750.00
4178650.00 13.83603 (06021721)
630850.00 4178650.00 15.51319 (08011010) 630950.00
4178650.00 17.21553 (08011010)
631050.00 4178650.00 16.99152 (08011010) 631150.00
4178650.00 15.47871 (07121206)

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        631250.00   4178650.00       15.70443  (05022705)                631350.00
4178650.00       16.18015  (06011018)
        631450.00   4178650.00       16.29706  (06012819)                631550.00
4178650.00       19.15009  (05011001)
        631650.00   4178650.00       20.15144  (05011001)                631750.00
4178650.00       20.05187  (06122519)
        631850.00   4178650.00       20.94760  (05122622)                631950.00
4178650.00       21.10611  (07122907)
        632050.00   4178650.00       21.65495  (06021720)                632150.00
4178650.00       21.19645  (06020123)
        630350.00   4178750.00       12.42361  (05122923)                630450.00
4178750.00       12.41915  (05122923)
        630550.00   4178750.00       11.78780  (06013009)                630650.00
4178750.00       13.01548  (06021721)
        630750.00   4178750.00       14.62016  (08011010)                630850.00
4178750.00       16.54119  (08011010)
        630950.00   4178750.00       16.73848  (08011010)                631050.00
4178750.00       15.02396  (08011010)
        631150.00   4178750.00       14.95906  (05022705)                631250.00
4178750.00       15.17826  (06011018)
        631350.00   4178750.00       15.44493  (06012819)                631450.00
4178750.00       17.11471  (05011001)
        631550.00   4178750.00       19.07929  (05011001)                631650.00
4178750.00       19.39494  (07012805)
        631750.00   4178750.00       19.80224  (06122519)                631850.00
4178750.00       20.05246  (05122622)
        631950.00   4178750.00       20.51065  (07122907)                632050.00
4178750.00       20.39782  (06021720)
        632150.00   4178750.00       20.90305  (06020123)                630250.00
4178850.00       11.83071  (05122923)
        630350.00   4178850.00       11.85857  (05122923)                630450.00
4178850.00       11.53634  (06013009)
 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                          ***        01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                       ***        15:43:26

                                   PAGE 204
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  IDLING3  ***
                                   INCLUDING SOURCE(S):     L0007152    , L0007153
, L0007154    , L0007155    , L0007156    ,
                L0007157    , L0007158    , L0007159    , L0007160    , L0007161
, L0007162    , L0007163    , L0007164    ,
                L0007165    , L0007166    , L0007167    , L0007168    , L0007169
, L0007170    , L0007171    , L0007172    ,
                L0007173    , L0007174    , L0007175    , L0007176    , L0007177
, L0007178    , L0007179    ,  . . .      ,
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*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF HRA IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
630550.00	4178850.00	12.26563	(06021721)	630650.00	4178850.00	13.75180	(08011010)
630750.00	4178850.00	15.85305	(08011010)	630850.00	4178850.00	16.41430	(08011010)
630950.00	4178850.00	15.20427	(08011010)	631050.00	4178850.00	14.14482	(05022705)
631150.00	4178850.00	14.09400	(06011018)	631250.00	4178850.00	14.71188	(06011018)
631350.00	4178850.00	15.03886	(05011001)	631450.00	4178850.00	17.63388	(05011001)
631550.00	4178850.00	18.24062	(07012805)	631650.00	4178850.00	18.22015	(06122519)
631750.00	4178850.00	18.94434	(05122622)	631850.00	4178850.00	18.95217	(07122907)
631950.00	4178850.00	19.56755	(06021720)	632050.00	4178850.00	18.78392	(06021720)
632150.00	4178850.00	20.19735	(06020123)	630250.00	4178950.00	11.40671	(06013009)
630350.00	4178950.00	11.30070	(06013009)	630450.00	4178950.00	11.55553	(06021721)
630550.00	4178950.00	13.02099	(08011010)	630650.00	4178950.00	15.12888	(08011010)
630750.00	4178950.00	16.01859	(08011010)	630850.00	4178950.00	15.22665	(08011010)
630950.00	4178950.00	13.40156	(07121206)	631050.00	4178950.00	13.56680	(05022705)
631150.00	4178950.00	13.99019	(06011018)	631250.00	4178950.00	14.11111	(06012819)
631350.00	4178950.00	15.98881	(05011001)	631450.00	4178950.00	17.41869	(05011001)
631550.00	4178950.00	17.61446	(07012805)	631650.00	4178950.00	18.02565	(06122519)
631750.00	4178950.00	18.28070	(05122622)	631850.00	4178950.00	18.58683	(07122907)
631950.00	4178950.00	18.73923	(06021720)	632050.00	4178950.00	18.53535	(06020123)
632150.00	4178950.00	19.15524	(06020123)	629950.00	4179050.00	10.54933	(04120902)
630250.00	4179050.00	11.07197	(06013009)	630350.00			

4179050.00 10.90281 (06021721)
 630450.00 4179050.00 12.25266 (08011010) 630550.00
4179050.00 14.48032 (08011010)
 630650.00 4179050.00 15.53219 (08011010) 630750.00
4179050.00 15.15230 (08011010)
 630850.00 4179050.00 13.30331 (08011010) 630950.00
4179050.00 13.01701 (05022705)
 631050.00 4179050.00 13.18274 (06011018) 631150.00
4179050.00 13.37959 (06012819)
 631250.00 4179050.00 14.24172 (05011001) 631350.00
4179050.00 16.29266 (05011001)
 631450.00 4179050.00 16.72259 (07012805) 631550.00
4179050.00 16.62184 (06122519)
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4179050.00 17.12389 (05122622)
 631850.00 4179050.00 17.77954 (07122907) 631950.00
4179050.00 17.54422 (06021720)
 632050.00 4179050.00 18.25694 (06020123) 632150.00
4179050.00 18.18176 (07021207)
 629850.00 4179150.00 10.09445 (04120902) 629950.00
4179150.00 10.30335 (05122923)
 630150.00 4179150.00 10.82051 (06013009) 630250.00
4179150.00 10.29183 (06021721)
 630350.00 4179150.00 11.50053 (08011010) 630450.00
4179150.00 13.76437 (08011010)
 630550.00 4179150.00 15.09963 (08011010) 630650.00
4179150.00 15.06544 (08011010)
 630750.00 4179150.00 13.55730 (08011010) 630850.00
4179150.00 12.39128 (05022705)
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4179150.00 12.85148 (06011018)
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4179150.00 14.93679 (05011001)
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4179150.00 16.12055 (07012805)
 631550.00 4179150.00 16.46803 (06122519) 631650.00
4179150.00 16.72768 (05122622)
 631750.00 4179150.00 16.95193 (07122907) 631850.00
4179150.00 17.20420 (06021720)
 631950.00 4179150.00 16.28446 (06020123) 632050.00
4179150.00 17.65681 (06020123)

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                            *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION

VALUES FOR SOURCE GROUP: IDLING3 ***
                                INCLUDING SOURCE(S):   L0007152   , L0007153
, L0007154   , L0007155   , L0007156   ,
                L0007157   , L0007158   , L0007159   , L0007160   , L0007161
, L0007162   , L0007163   , L0007164   ,
                L0007165   , L0007166   , L0007167   , L0007168   , L0007169
, L0007170   , L0007171   , L0007172   ,
                L0007173   , L0007174   , L0007175   , L0007176   , L0007177
, L0007178   , L0007179   , . . .   ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF HRA   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        632150.00   4179150.00   17.78205 (07021207)   630850.00
4179250.00   11.87111 (05022705)
        630950.00   4179250.00   12.25009 (06011018)   631050.00
4177625.00   20.81711 (05021308)
        631100.00   4177725.00   20.89419 (05022704)   631100.00
4177825.00   20.23133 (04120901)
        631350.00   4178225.00   19.67177 (08011010)   631400.00
4178225.00   19.17032 (05022703)
        631450.00   4178225.00   19.50436 (07121206)   631500.00
4178225.00   19.74852 (05022705)
        631100.00   4178275.00   17.29800 (06021721)   631150.00
4178275.00   17.59402 (06021721)
        631200.00   4178275.00   18.58964 (08011010)   631250.00
4178275.00   19.35522 (08011010)
        631300.00   4178275.00   19.43658 (08011010)   631350.00
4178275.00   18.79270 (08011010)
        631400.00   4178275.00   18.87483 (07121206)   631450.00
4178275.00   19.05937 (05022705)
        631500.00   4178275.00   19.27432 (05022705)   630950.00
4178325.00   15.02827 (06021721)
        631100.00   4178325.00   17.07724 (06021721)   631150.00
4178325.00   18.08689 (08011010)
        631200.00   4178325.00   18.98741 (08011010)   631250.00
4178325.00   19.19110 (08011010)
        631300.00   4178325.00   18.75479 (08011010)   631400.00
4178325.00   18.42729 (07121206)
        631450.00   4178325.00   18.72547 (05022705)   631500.00
4178325.00   18.53332 (05022705)
        630950.00   4178375.00   15.47652 (06021721)   631200.00
4178375.00   18.87648 (08011010)

631300.00 4178375.00 17.63373 (08011010) 631400.00
4178375.00 18.14855 (05022705)
631450.00 4178375.00 18.12411 (05022705) 631500.00
4178375.00 18.48051 (06011018)
630800.00 4178425.00 14.39595 (05122923) 630850.00
4178425.00 14.02419 (04120903)
631050.00 4178425.00 17.07302 (08011010) 631200.00
4178425.00 18.41680 (08011010)
631250.00 4178425.00 17.65434 (08011010) 631300.00
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4178475.00 13.62262 (04120903)
630850.00 4178475.00 14.42546 (06021721) 631050.00
4178475.00 17.65803 (08011010)
631200.00 4178475.00 17.61920 (08011010) 631250.00
4178475.00 16.85520 (07121206)
631300.00 4178475.00 16.96176 (05022705) 631450.00
4178475.00 17.63698 (06011018)
631500.00 4178475.00 17.74948 (06011018) 630550.00
4178525.00 13.82835 (05122923)
630600.00 4178525.00 14.02873 (05122923) 630650.00
4178525.00 13.97670 (05122923)
630700.00 4178525.00 13.69003 (05122923) 630750.00
4178525.00 13.23515 (04120903)
630950.00 4178525.00 16.03966 (08011010) 631050.00
4178525.00 17.89801 (08011010)
631200.00 4178525.00 16.52916 (08011010) 631250.00
4178525.00 16.51870 (07121206)
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4178525.00 16.69002 (05022705)
631400.00 4178525.00 17.02200 (06011018) 631450.00
4178525.00 17.31991 (06011018)
631500.00 4178525.00 17.35274 (06012819) 630500.00
4178575.00 13.46205 (05122923)
630550.00 4178575.00 13.66099 (05122923) 630600.00
4178575.00 13.62897 (05122923)
630650.00 4178575.00 13.34774 (05122923) 630700.00
4178575.00 12.86050 (04120903)
630750.00 4178575.00 13.47072 (06021721) 630800.00
4178575.00 14.20874 (06021721)
630850.00 4178575.00 14.70335 (06021721) 631000.00
4178575.00 17.53872 (08011010)
631050.00 4178575.00 17.77648 (08011010) 631200.00
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631250.00 4178575.00 16.24796 (05022705) 631300.00
4178575.00 16.32353 (05022705)
631350.00 4178575.00 16.38401 (06011018) 631400.00
4178575.00 16.82285 (06011018)
631450.00 4178575.00 16.80035 (06012819) 631500.00
4178575.00 16.93079 (06012819)

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: IDLING3 ***
INCLUDING SOURCE(S): L0007152 , L0007153
, L0007154 , L0007155 , L0007156 ,
L0007157 , L0007158 , L0007159 , L0007160 , L0007161
, L0007162 , L0007163 , L0007164 ,
L0007165 , L0007166 , L0007167 , L0007168 , L0007169
, L0007170 , L0007171 , L0007172 ,
L0007173 , L0007174 , L0007175 , L0007176 , L0007177
, L0007178 , L0007179 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS
***

** CONC OF HRA IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
630500.00	4178625.00	13.30502	(05122923)	630550.00	4178625.00	13.28854	(05122923)
630600.00	4178625.00	13.03995	(05122923)	630650.00	4178625.00	12.56280	(05122923)
630700.00	4178625.00	13.01673	(06021721)	630750.00	4178625.00	13.76250	(06021721)
630800.00	4178625.00	14.28086	(06021721)	630850.00	4178625.00	15.11572	(08011010)
631000.00	4178625.00	17.50693	(08011010)	631050.00	4178625.00	17.32496	(08011010)
631100.00	4178625.00	16.59103	(08011010)	631150.00	4178625.00	15.62203	(07121206)
631200.00	4178625.00	15.73616	(05022705)	631250.00	4178625.00	15.93190	(05022705)
631300.00	4178625.00	15.73581	(06011018)	631350.00	4178625.00	16.29773	(06011018)
631400.00	4178625.00	16.42389	(06011018)	631450.00	4178625.00	16.50998	(06012819)
631500.00	4178625.00	17.42033	(05011001)	631100.00	4175700.00	61.59122	(04121304)
631150.00	4175700.00	63.26983	(04121304)	631200.00			

4175700.00 65.08367 (04121304)
631250.00 4175700.00 66.84389 (04121304) 631100.00
4175750.00 59.38238 (04121304)
631150.00 4175750.00 61.34568 (04121304) 629400.00
4179050.00 9.12797 (05021308)
629450.00 4179050.00 9.31284 (07012618) 629500.00
4179050.00 9.41655 (07012618)
629400.00 4179100.00 9.12993 (07012618) 629450.00
4179100.00 9.21759 (07012618)
629400.00 4179150.00 9.03077 (05022704) 629500.00
4179150.00 9.38171 (05022704)
629550.00 4179150.00 9.42157 (05022704) 629600.00
4179150.00 9.36354 (05022704)
629650.00 4179150.00 9.49971 (04120901) 629700.00
4179150.00 9.74561 (04120901)
629800.00 4179200.00 9.88384 (04120902) 629400.00
4179300.00 8.82872 (05022704)
629400.00 4179350.00 8.55913 (05022704) 634375.00
4175350.00 57.80010 (05021801)
634425.00 4175350.00 57.86327 (04022222) 635425.00
4175350.00 42.18205 (06100508)
635425.00 4175400.00 37.68804 (06100508) 635475.00
4175400.00 36.04319 (06100508)
634325.00 4175450.00 69.20956 (08120417) 634475.00
4175450.00 64.95980 (06100508)
634525.00 4175450.00 64.64998 (06100508) 634525.00
4175500.00 66.37280 (06100508)
634325.00 4175550.00 74.88024 (06100508) 634525.00
4175550.00 61.74361 (06100508)
634575.00 4175550.00 58.35908 (06100508) 634775.00
4175550.00 46.08234 (06121504)
634825.00 4175550.00 44.18274 (08011020) 634625.00
4175600.00 52.92757 (08011020)
634675.00 4175600.00 50.32453 (08011020) 634725.00
4175600.00 47.91405 (08011020)
634775.00 4175600.00 45.63022 (05122420) 634825.00
4175600.00 44.09049 (05122420)
634875.00 4175600.00 42.50889 (05122420) 634925.00
4175600.00 40.98884 (05122420)
635375.00 4175600.00 30.16839 (07012218) 634275.00
4175650.00 76.86492 (08011020)
634325.00 4175650.00 72.31486 (08011020) 634575.00
4175650.00 55.69888 (05122420)
634625.00 4175650.00 53.05874 (05122420) 634675.00
4175650.00 50.61334 (05122420)
634725.00 4175650.00 48.54435 (07012218) 634775.00
4175650.00 46.51067 (07012218)
634825.00 4175650.00 44.70359 (07012218) 634875.00
4175650.00 42.87916 (07012218)
634925.00 4175650.00 41.10099 (07012218) 634975.00

4175650.00   39.54797 (05020819)
        635025.00   4175650.00   38.12412 (05020819)   635325.00
4175650.00   31.11977 (05020819)
        635375.00   4175650.00   30.11050 (05020819)   634475.00
4175700.00   61.71112 (05020819)
        634525.00   4175700.00   58.70981 (05020819)   634575.00
4175700.00   55.90423 (05020819)
        634625.00   4175700.00   53.20117 (05020819)   634675.00
4175700.00   50.76718 (05020819)

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                               *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: IDLING3 ***
                                  INCLUDING SOURCE(S):   L0007152   , L0007153
, L0007154   , L0007155   , L0007156   ,
                L0007157   , L0007158   , L0007159   , L0007160   , L0007161
, L0007162   , L0007163   , L0007164   ,
                L0007165   , L0007166   , L0007167   , L0007168   , L0007169
, L0007170   , L0007171   , L0007172   ,
                L0007173   , L0007174   , L0007175   , L0007176   , L0007177
, L0007178   , L0007179   , . . .   ,

                                             *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                        ** CONC OF HRA   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        634725.00   4175700.00   48.63637 (05020819)   634775.00
4175700.00   46.43211 (05020819)
        634825.00   4175700.00   44.28498 (05020819)   634875.00
4175700.00   42.44853 (05020819)
        634925.00   4175700.00   40.56145 (07021102)   634975.00
4175700.00   39.22111 (07021102)
        635025.00   4175700.00   37.81225 (07021102)   635075.00
4175700.00   36.61461 (07021102)
        635125.00   4175700.00   35.41541 (07021102)   634425.00
4175750.00   65.24491 (07021102)
        634575.00   4175750.00   56.08770 (07021102)   634625.00
4175750.00   53.45283 (07021102)

634675.00 4175750.00 50.98749 (07021102) 634725.00
4175750.00 48.80943 (07021102)
634775.00 4175750.00 46.65127 (07021102) 634825.00
4175750.00 44.67548 (07021102)
634875.00 4175750.00 42.73822 (07021102) 634925.00
4175750.00 41.01924 (07021102)
634975.00 4175750.00 39.39125 (07021102) 635025.00
4175750.00 37.82316 (07021102)
635075.00 4175750.00 36.45107 (07021102) 635125.00
4175750.00 35.11731 (07021102)
635175.00 4175750.00 33.76438 (07021102) 635225.00
4175750.00 32.65821 (06012822)
634325.00 4175800.00 73.20924 (06012822) 634375.00
4175800.00 69.13915 (06012822)
634425.00 4175800.00 65.28494 (06012822) 634475.00
4175800.00 62.01246 (06012822)
634525.00 4175800.00 58.91436 (06012822) 634575.00
4175800.00 55.94720 (06012822)
634625.00 4175800.00 53.56626 (06012822) 634675.00
4175800.00 50.97555 (06012822)
634725.00 4175800.00 48.84361 (06012822) 634775.00
4175800.00 46.68841 (06012822)
634825.00 4175800.00 44.86151 (06012822) 634875.00
4175800.00 42.91604 (06012822)
634925.00 4175800.00 41.29702 (06012822) 634975.00
4175800.00 39.71465 (06012822)
635025.00 4175800.00 38.20984 (06012822) 635075.00
4175800.00 36.77900 (06012822)
635125.00 4175800.00 35.47734 (06012822) 635175.00
4175800.00 34.31552 (06012822)
635225.00 4175800.00 33.14611 (06012822) 635275.00
4175800.00 32.09370 (06012822)
635325.00 4175800.00 31.00362 (06012822) 634225.00
4175850.00 79.70942 (04122902)
634325.00 4175850.00 71.05388 (04122902) 634375.00
4175850.00 67.06313 (04122902)
634425.00 4175850.00 63.57778 (04122902) 634475.00
4175850.00 60.42658 (04122902)
634525.00 4175850.00 57.47707 (04122902) 634575.00
4175850.00 54.71396 (04122902)
634625.00 4175850.00 52.46467 (04122902) 634675.00
4175850.00 50.00927 (04122902)
634725.00 4175850.00 47.79779 (04122902) 634775.00
4175850.00 45.98567 (04122902)
634825.00 4175850.00 44.06979 (04122902) 634875.00
4175850.00 42.29122 (04122902)
634925.00 4175850.00 40.60149 (04122902) 634975.00
4175850.00 39.10205 (04122902)
635025.00 4175850.00 37.63170 (04122902) 635075.00
4175850.00 36.33853 (04122902)

```
        635125.00   4175850.00       35.08961  (04122902)                635175.00
4175850.00       33.91776  (04122902)
        635225.00   4175850.00       32.74643  (04122902)                635275.00
4175850.00       31.75379  (04122902)
        635325.00   4175850.00       30.72302  (04122902)                635375.00
4175850.00       29.70076  (04122902)
        635425.00   4175850.00       28.78678  (04122902)                634225.00
4175900.00       86.07673  (06121322)
        634325.00   4175900.00       75.99567  (06121322)                634375.00
4175900.00       71.21148  (06121322)
        634425.00   4175900.00       66.76710  (06121322)                634475.00
4175900.00       62.95169  (06121322)
        634525.00   4175900.00       59.42805  (06121322)                634575.00
4175900.00       56.17797  (06121322)
        634625.00   4175900.00       53.29313  (06121322)                634675.00
4175900.00       50.67735  (06121322)
        634725.00   4175900.00       47.96650  (06121322)                634775.00
4175900.00       45.64388  (06121322)
 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                          ***        01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                         ***        15:43:26

                                    PAGE 208
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  IDLING3  ***
                                    INCLUDING SOURCE(S):     L0007152    , L0007153
, L0007154    , L0007155    , L0007156    ,
                   L0007157    , L0007158    , L0007159    , L0007160    , L0007161
, L0007162    , L0007163    , L0007164    ,
                   L0007165    , L0007166    , L0007167    , L0007168    , L0007169
, L0007170    , L0007171    , L0007172    ,
                   L0007173    , L0007174    , L0007175    , L0007176    , L0007177
, L0007178    , L0007179    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                             ** CONC OF HRA      IN MICROGRAMS/M**3
                    **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        634875.00   4175900.00       41.23811  (06121322)                634925.00
4175900.00       39.21352  (06121322)
        634975.00   4175900.00       37.48677  (07011518)                635025.00
```

4175900.00 36.02684 (07011518)
635075.00 4175900.00 34.69095 (07011518) 635125.00
4175900.00 33.35721 (07011518)
635175.00 4175900.00 32.17152 (07011518) 635225.00
4175900.00 31.03916 (07011518)
635275.00 4175900.00 29.93528 (07011518) 635325.00
4175900.00 28.97122 (07011518)
635375.00 4175900.00 27.93649 (06011619) 635425.00
4175900.00 27.10717 (06011619)
635475.00 4175900.00 26.29146 (06011619) 635525.00
4175900.00 25.53250 (06011619)
634325.00 4175950.00 75.04450 (07011318) 634375.00
4175950.00 71.15809 (07011318)
634425.00 4175950.00 67.48558 (06121322) 634475.00
4175950.00 64.44346 (06121322)
634525.00 4175950.00 61.46054 (06121322) 634575.00
4175950.00 58.63053 (06121322)
634625.00 4175950.00 56.19977 (06121322) 634675.00
4175950.00 53.82389 (06121322)
634875.00 4175950.00 44.92525 (06121322) 634925.00
4175950.00 43.00532 (06121322)
634975.00 4175950.00 41.30024 (06121322) 635025.00
4175950.00 39.57144 (06121322)
635075.00 4175950.00 37.97207 (06121322) 635125.00
4175950.00 36.48530 (06121322)
635175.00 4175950.00 35.07497 (06121322) 635225.00
4175950.00 33.63297 (06121322)
635275.00 4175950.00 32.44314 (06121322) 635325.00
4175950.00 31.10937 (06121322)
635375.00 4175950.00 29.97019 (06121322) 635425.00
4175950.00 28.85647 (06121322)
635475.00 4175950.00 27.78785 (06121322) 635525.00
4175950.00 26.70805 (06121322)
635575.00 4175950.00 25.78156 (06121322) 634725.00
4176000.00 50.11217 (07011318)
634925.00 4176000.00 42.62757 (06121322) 634975.00
4176000.00 41.35955 (06121322)
635025.00 4176000.00 39.99292 (06121322) 635075.00
4176000.00 38.57288 (06121322)
635125.00 4176000.00 37.33425 (06121322) 635175.00
4176000.00 36.07043 (06121322)
635225.00 4176000.00 34.88161 (06121322) 635275.00
4176000.00 33.80505 (06121322)
635325.00 4176000.00 32.61079 (06121322) 635375.00
4176000.00 31.57384 (06121322)
635425.00 4176000.00 30.48763 (06121322) 635475.00
4176000.00 29.49811 (06121322)
635525.00 4176000.00 28.54339 (06121322) 635575.00
4176000.00 27.57371 (06121322)
634825.00 4176050.00 46.58938 (07021221) 634875.00

4176050.00   44.75118 (07021221)
        634925.00   4176050.00   42.95348 (07021221)   634975.00
4176050.00   41.17766 (07021221)
        635025.00   4176050.00   39.39448 (07021221)   635075.00
4176050.00   37.69663 (07021221)
        635125.00   4176050.00   36.26541 (07011318)   635175.00
4176050.00   35.16406 (07011318)
        635225.00   4176050.00   34.10297 (07011318)   635275.00
4176050.00   33.05078 (07011318)
        635325.00   4176050.00   32.00635 (07011318)   635375.00
4176050.00   30.95034 (07011318)
        635425.00   4176050.00   30.06482 (06121322)   635475.00
4176050.00   29.24017 (06121322)
        635525.00   4176050.00   28.45563 (06121322)   635575.00
4176050.00   27.63775 (06121322)
        634825.00   4176100.00   46.15662 (06011620)   634875.00
4176100.00   44.35894 (04121118)
        634925.00   4176100.00   42.69983 (04121118)   634975.00
4176100.00   41.15868 (04121118)
        635025.00   4176100.00   39.66084 (04121118)   635075.00
4176100.00   38.28653 (07021221)
        635125.00   4176100.00   37.03845 (07021221)   635175.00
4176100.00   35.77565 (07021221)
        635225.00   4176100.00   34.59123 (07021221)   635275.00
4176100.00   33.39231 (07021221)
        635325.00   4176100.00   32.20853 (07021221)   635375.00
4176100.00   31.08078 (07021221)

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: IDLING3 ***
                                   INCLUDING SOURCE(S):   L0007152   , L0007153
, L0007154   , L0007155   , L0007156   ,
                L0007157   , L0007158   , L0007159   , L0007160   , L0007161
, L0007162   , L0007163   , L0007164   ,
                L0007165   , L0007166   , L0007167   , L0007168   , L0007169
, L0007170   , L0007171   , L0007172   ,
                L0007173   , L0007174   , L0007175   , L0007176   , L0007177
, L0007178   , L0007179   , . . .   ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                             ** CONC OF HRA   IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
635425.00	4176100.00	29.82962	(07021221)	635475.00	4176100.00	28.78591	(07021221)
635525.00	4176100.00	27.72711	(07011318)	635575.00	4176100.00	27.04313	(07011318)
634825.00	4176150.00	45.72528	(06020205)	634875.00	4176150.00	44.18342	(06020205)
634925.00	4176150.00	42.35505	(06020205)	634975.00	4176150.00	40.79677	(06011620)
635025.00	4176150.00	39.52338	(06011620)	635075.00	4176150.00	38.09165	(06011620)
635125.00	4176150.00	36.76497	(06011620)	635175.00	4176150.00	35.43581	(04121118)
635225.00	4176150.00	34.26556	(04121118)	635275.00	4176150.00	33.27887	(04121118)
635325.00	4176150.00	32.15555	(04121118)	635375.00	4176150.00	31.07461	(04121118)
635425.00	4176150.00	30.11220	(07021221)	635475.00	4176150.00	29.32508	(07021221)
635525.00	4176150.00	28.48027	(07021221)	635575.00	4176150.00	27.65085	(07021221)
634875.00	4176200.00	43.53577	(04021505)	634925.00	4176200.00	42.08097	(04021505)
634975.00	4176200.00	40.59379	(04021505)	635125.00	4176200.00	36.51157	(06020205)
635175.00	4176200.00	35.31814	(06020205)	635225.00	4176200.00	33.97169	(06020205)
635525.00	4176200.00	28.26179	(04121118)	635575.00	4176200.00	27.43631	(04121118)
634325.00	4176250.00	69.92593	(07010308)	634375.00	4176250.00	65.88592	(05121218)
634875.00	4176250.00	43.34878	(06020208)	634925.00	4176250.00	41.82980	(06020208)
634975.00	4176250.00	40.13920	(06020208)	635025.00	4176250.00	38.33825	(06020208)
635075.00	4176250.00	37.05523	(04021505)	635125.00	4176250.00	36.11492	(04021505)
635175.00	4176250.00	35.03485	(04021505)	635225.00	4176250.00	33.98020	(04021505)
635275.00	4176250.00	32.76764	(04021505)	635375.00	4176250.00	30.75277	(06020205)
635425.00	4176250.00	29.83947	(06020205)	635525.00	4176250.00	28.07157	(06011620)
635575.00	4176250.00	27.34820	(06011620)	634875.00	4176300.00	42.89240	(05010918)

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        634925.00   4176300.00       41.26437  (05011419)                634975.00
4176300.00       39.94753  (05011419)
        635025.00   4176300.00       38.45997  (05011419)                635075.00
4176300.00       37.18539  (06020208)
        635125.00   4176300.00       35.99204  (06020208)                635175.00
4176300.00       34.61796  (06020208)
        635225.00   4176300.00       33.25847  (06020208)                635275.00
4176300.00       32.11047  (04021505)
        635375.00   4176300.00       30.50570  (04021505)                635425.00
4176300.00       29.68497  (04021505)
        635525.00   4176300.00       27.88240  (04021505)                635575.00
4176300.00       27.03094  (06020205)
        634875.00   4176350.00       42.25311  (06012919)                634925.00
4176350.00       40.90047  (06012919)
        634975.00   4176350.00       39.28466  (05010918)                635025.00
4176350.00       38.12964  (05010918)
        635075.00   4176350.00       36.74753  (05010918)                635125.00
4176350.00       35.59456  (05011419)
        635175.00   4176350.00       34.44211  (05011419)                635225.00
4176350.00       33.30962  (05011419)
        635275.00   4176350.00       32.35850  (06020208)                635375.00
4176350.00       30.24760  (06020208)
        635425.00   4176350.00       29.15617  (06020208)                635525.00
4176350.00       27.42828  (04021505)
        635575.00   4176350.00       26.78475  (04021505)                634875.00
4176400.00       41.91807  (05121218)
        634925.00   4176400.00       40.20725  (05121218)                634975.00
4176400.00       38.34996  (06012919)
        635025.00   4176400.00       37.52927  (06012919)                635075.00
4176400.00       36.46723  (06012919)
        635125.00   4176400.00       35.20633  (06012919)                635175.00
4176400.00       34.14605  (05010918)
        635225.00   4176400.00       33.13321  (05010918)                635275.00
4176400.00       31.99145  (05011419)
        635425.00   4176400.00       29.13454  (05011419)                635525.00
4176400.00       27.53911  (06020208)
 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                          ***        01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                       ***        15:43:26

                                   PAGE 210
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  IDLING3  ***
                                   INCLUDING SOURCE(S):     L0007152    , L0007153
, L0007154    , L0007155    , L0007156    ,
                L0007157    , L0007158    , L0007159    , L0007160    , L0007161
, L0007162    , L0007163    , L0007164    ,
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L0007165 , L0007166 , L0007167 , L0007168 , L0007169
, L0007170 , L0007171 , L0007172 ,
L0007173 , L0007174 , L0007175 , L0007176 , L0007177
, L0007178 , L0007179 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS
***

** CONC OF HRA IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
635575.00	4176400.00	26.71617	(06020208)	633650.00	4176200.00	195.84013	(08121003)
633700.00	4176200.00	190.08253	(08021808)	633850.00	4176200.00	138.13695	(07121419)
633850.00	4176250.00	135.77961	(04120904)	633950.00	4176250.00	114.18531	(07121419)
634350.00	4176250.00	67.81125	(07010308)	633750.00	4176300.00	151.22667	(08021908)
633950.00	4176300.00	114.18688	(08120919)	634000.00	4176300.00	106.99660	(07121419)
634050.00	4176300.00	95.38811	(07121419)	634050.00	4176350.00	97.39404	(07121419)
634050.00	4176400.00	94.63683	(04121907)	634000.00	4176450.00	97.50758	(08021808)
634050.00	4176450.00	95.74867	(08021808)	634200.00	4176600.00	72.66522	(08021808)
634100.00	4176650.00	79.94907	(08021908)	634150.00	4176650.00	72.46005	(08021908)
634200.00	4176650.00	69.10483	(08121003)	634200.00	4176850.00	60.87105	(04021406)
634200.00	4176900.00	59.12016	(07021107)	634250.00	4176900.00	57.02793	(04021406)
634300.00	4176900.00	57.38894	(08021908)	634400.00	4177000.00	50.51877	(08021908)
634450.00	4177000.00	49.91826	(08021908)	634500.00	4177000.00	47.60369	(08021908)
634550.00	4177000.00	43.88966	(08121003)	634400.00	4177050.00	47.57142	(04021406)
634450.00	4177050.00	47.32040	(08021908)	634500.00	4177050.00	47.44096	(08021908)
634550.00	4177050.00	45.54676	(08021908)	633750.00	4173175.00	42.40172	(05121017)
634450.00	4173325.00	38.02656	(05021803)	634450.00	4173375.00	38.98970	(04122822)
634350.00	4173475.00	40.20365	(05021803)	634300.00			

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4173625.00       44.36941  (05021803)
        634300.00   4173675.00       46.61160  (04122822)                634350.00
4173675.00       50.56694  (04122822)
        634250.00   4173775.00       49.40247  (04122822)                633950.00
4173825.00       55.75657  (04022218)
        634050.00   4173825.00       58.25361  (06020105)                634100.00
4173825.00       53.27071  (04022318)
        634250.00   4173825.00       53.29667  (04122822)                634250.00
4173975.00       55.98351  (04122822)
        634150.00   4174125.00       59.76935  (04122822)                634200.00
4174125.00       59.01125  (05020818)
        634250.00   4174125.00       56.77506  (05020818)                634250.00
4174225.00       51.12473  (05011521)
        634350.00   4174225.00       57.66068  (05011521)                634400.00
4174225.00       55.51625  (05011520)
        634200.00   4174325.00       56.46159  (05011521)                634250.00
4174325.00       58.99574  (05011521)
        634200.00   4174375.00       62.02022  (05011521)                634250.00
4174425.00       60.31735  (05011520)
        634000.00   4174475.00       76.32478  (05020818)                634250.00
4174525.00       60.52388  (05011520)
        634100.00   4174575.00       73.37508  (05011521)                634150.00
4174575.00       70.00044  (05011520)
        634200.00   4174575.00       65.45512  (05011520)                634250.00
4174575.00       58.66844  (05122304)
        634250.00   4174625.00       64.64217  (04022018)                634250.00
4174675.00       55.27606  (04022018)
        634250.00   4174825.00       51.69052  (07012702)                634250.00
4174875.00       54.42260  (07012702)
        634200.00   4174925.00       58.17318  (07012702)                634250.00
4174925.00       53.38903  (07012702)
        631950.00   4173950.00       21.46717  (07122718)                631550.00
4174000.00       25.77160  (06041020)
        631550.00   4174050.00       29.23956  (06041020)                631750.00
4174250.00       34.35827  (06041020)
        632300.00   4174300.00       61.40700  (06011109)                632350.00
4174300.00       58.09878  (05012117)
        632300.00   4174350.00       69.05223  (06011109)                632350.00
4174350.00       62.22897  (06011109)
        631600.00   4174400.00       39.59434  (06120517)                631650.00
4174400.00       41.76087  (08062901)
        632000.00   4174400.00       54.00808  (04012317)                632000.00
4174450.00       60.03840  (04012317)
        631950.00   4174500.00       61.30873  (04012317)                632150.00
4174950.00       96.81975  (06121421)
 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                          ***        01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                       ***        15:43:26
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: IDLING3 ***
INCLUDING SOURCE(S): L0007152 , L0007153 , L0007154 , L0007155 , L0007156 ,
L0007157 , L0007158 , L0007159 , L0007160 , L0007161 , L0007162 , L0007163 , L0007164 ,
L0007165 , L0007166 , L0007167 , L0007168 , L0007169 , L0007170 , L0007171 , L0007172 ,
L0007173 , L0007174 , L0007175 , L0007176 , L0007177 , L0007178 , L0007179 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF HRA IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
632200.00	4174950.00	102.94519	(06121421)				

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: OFFSITE1 ***
INCLUDING SOURCE(S): L0006118 , L0006119 , L0006120 , L0006121 , L0006122 ,
L0006123 , L0006124 , L0006125 , L0006126 , L0006127 , L0006128 , L0006129 , L0006130 ,
L0006131 , L0006132 , L0006133 , L0006134 , L0006135 , L0006136 , L0006137 , L0006138 ,
L0006139 , L0006140 , L0006141 , L0006142 , L0006143 , L0006144 , L0006145 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF HRA IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
631050.00	4178050.00	9.12108	(08011009)	631150.00	4178250.00	8.47082	(08011009)
631250.00	4178250.00	8.48122	(08011009)	631350.00	4178250.00	8.51283	(08011009)
631450.00	4178250.00	8.53614	(08011009)	631550.00	4178250.00	8.55978	(08011009)
631650.00	4178250.00	8.58298	(08011009)	631750.00	4178250.00	10.79398	(07091007)
631150.00	4178350.00	8.19117	(08011009)	631450.00	4178350.00	8.25169	(08011009)
631550.00	4178350.00	8.26653	(08011009)	631650.00	4178350.00	8.30511	(08011009)
631750.00	4178350.00	9.82497	(07091007)	630650.00	4178450.00	7.41732	(07021218)
630850.00	4178450.00	7.75770	(08011009)	631050.00	4178450.00	7.90669	(08011009)
631150.00	4178450.00	7.91917	(08011009)	631250.00	4178450.00	7.94635	(08011009)
631550.00	4178450.00	7.99109	(08011009)	631650.00	4178450.00	8.00844	(08011009)
631750.00	4178450.00	8.84020	(07091007)	631850.00	4178450.00	11.35890	(07091007)
631950.00	4178450.00	13.33754	(07091007)	632050.00	4178450.00	14.63711	(07091007)
632150.00	4178450.00	15.32544	(07091007)	630550.00	4178550.00	7.16959	(07021218)
630650.00	4178550.00	7.17792	(07021218)	630750.00	4178550.00	7.32620	(05010917)
630950.00	4178550.00	7.61423	(08011009)	631050.00	4178550.00	7.66373	(08011009)
631250.00	4178550.00	7.70215	(08011009)	631350.00	4178550.00	7.71989	(08011009)
631450.00	4178550.00	7.74695	(08011009)	631550.00	4178550.00	7.74965	(08011009)
631650.00	4178550.00	7.75924	(08011009)	631750.00	4178550.00	7.99276	(07091007)
631850.00	4178550.00	10.47232	(07091007)	631950.00	4178550.00	12.57828	(07091007)
632050.00	4178550.00	14.08603	(07091007)	632150.00	4178550.00	14.91331	(07091007)
630450.00	4178650.00	6.94244	(07021218)	630550.00	4178650.00	6.96082	(07021218)
630650.00	4178650.00	6.98258	(05010917)	630750.00	4178650.00	7.11379	(05010917)
630850.00	4178650.00	7.31185	(08011009)	630950.00			

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4178650.00        7.39614  (08011009)
        631050.00   4178650.00        7.43993  (08011009)                631150.00
4178650.00        7.45686  (08011009)
        631250.00   4178650.00        7.47489  (08011009)                631350.00
4178650.00        7.48691  (08011009)
        631450.00   4178650.00        7.50281  (08011009)                631550.00
4178650.00        7.52149  (08011009)
        631650.00   4178650.00        7.53541  (08011009)                631750.00
4178650.00        7.53344  (08011009)
        631850.00   4178650.00        9.64066  (07091007)                631950.00
4178650.00       11.80954  (07091007)
        632050.00   4178650.00       13.46890  (07091007)                632150.00
4178650.00       14.50861  (07091007)
        630350.00   4178750.00        6.73784  (07021218)                630450.00
4178750.00        6.74903  (07021218)
        630550.00   4178750.00        6.76385  (07021218)                630650.00
4178750.00        6.81573  (05010917)
        630750.00   4178750.00        6.94025  (08011009)                630850.00
4178750.00        7.11938  (08011009)
        630950.00   4178750.00        7.19207  (08011009)                631050.00
4178750.00        7.22269  (08011009)
        631150.00   4178750.00        7.24672  (08011009)                631250.00
4178750.00        7.26553  (08011009)
        631350.00   4178750.00        7.27499  (08011009)                631450.00
4178750.00        7.28747  (08011009)
        631550.00   4178750.00        7.30328  (08011009)                631650.00
4178750.00        7.32674  (08011009)
        631750.00   4178750.00        7.31980  (08011009)                631850.00
4178750.00        8.80696  (07091007)
        631950.00   4178750.00       11.04963  (07091007)                632050.00
4178750.00       12.81480  (07091007)
        632150.00   4178750.00       14.01301  (07091007)                630250.00
4178850.00        6.53602  (07021218)
        630350.00   4178850.00        6.56070  (07021218)                630450.00
4178850.00        6.57066  (07021218)
 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                          ***        01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                         ***        15:43:26

                                    PAGE 213
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  OFFSITE1 ***
                                    INCLUDING SOURCE(S):     L0006118    , L0006119
, L0006120    , L0006121    , L0006122    ,
                  L0006123    , L0006124    , L0006125    , L0006126    , L0006127
, L0006128    , L0006129    , L0006130    ,
                  L0006131    , L0006132    , L0006133    , L0006134    , L0006135
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, L0006136   , L0006137   , L0006138   ,
                L0006139   , L0006140   , L0006141   , L0006142   , L0006143
, L0006144   , L0006145   , . . .   ,

                                        *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                      ** CONC OF HRA   IN MICROGRAMS/M**3
                 **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        630550.00   4178850.00   6.57974 (07021218)   630650.00
4178850.00   6.64616 (05010917)
        630750.00   4178850.00   6.79030 (08011009)   630850.00
4178850.00   6.93800 (08011009)
        630950.00   4178850.00   7.00233 (08011009)   631050.00
4178850.00   7.02444 (08011009)
        631150.00   4178850.00   7.04100 (08011009)   631250.00
4178850.00   7.05703 (08011009)
        631350.00   4178850.00   7.07189 (08011009)   631450.00
4178850.00   7.08380 (08011009)
        631550.00   4178850.00   7.09964 (08011009)   631650.00
4178850.00   7.11340 (08011009)
        631750.00   4178850.00   7.11076 (08011009)   631850.00
4178850.00   8.03223 (07091007)
        631950.00   4178850.00   10.27573 (07091007)   632050.00
4178850.00   12.16383 (07091007)
        632150.00   4178850.00   13.51196 (07091007)   630250.00
4178950.00   6.37428 (07021218)
        630350.00   4178950.00   6.39034 (07021218)   630450.00
4178950.00   6.39286 (07021218)
        630550.00   4178950.00   6.40458 (07021218)   630650.00
4178950.00   6.49451 (05010917)
        630750.00   4178950.00   6.63891 (08011009)   630850.00
4178950.00   6.75951 (08011009)
        630950.00   4178950.00   6.82551 (08011009)   631050.00
4178950.00   6.83964 (08011009)
        631150.00   4178950.00   6.85536 (08011009)   631250.00
4178950.00   6.86969 (08011009)
        631350.00   4178950.00   6.88788 (08011009)   631450.00
4178950.00   6.89363 (08011009)
        631550.00   4178950.00   6.90831 (08011009)   631650.00
4178950.00   6.92655 (08011009)
        631750.00   4178950.00   6.91453 (08011009)   631850.00
4178950.00   7.28021 (07091007)
        631950.00   4178950.00   9.50492 (07091007)   632050.00
4178950.00   11.46913 (07091007)

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        632150.00   4178950.00       12.98371  (07091007)                629950.00
4179050.00        6.03101  (08122718)
        630250.00   4179050.00        6.21767  (07021218)                630350.00
4179050.00        6.22487  (07021218)
        630450.00   4179050.00        6.23302  (07021218)                630550.00
4179050.00        6.24090  (05010917)
        630650.00   4179050.00        6.33977  (05010917)                630750.00
4179050.00        6.48250  (08011009)
        630850.00   4179050.00        6.59374  (08011009)                630950.00
4179050.00        6.65126  (08011009)
        631050.00   4179050.00        6.67080  (08011009)                631150.00
4179050.00        6.68240  (08011009)
        631250.00   4179050.00        6.69302  (08011009)                631350.00
4179050.00        6.74959  (04011809)
        631450.00   4179050.00        6.78965  (04011809)                631550.00
4179050.00        6.79581  (04011809)
        631650.00   4179050.00        6.81622  (04011809)                631750.00
4179050.00        6.83101  (04011809)
        631850.00   4179050.00        6.82949  (04011809)                631950.00
4179050.00        8.76198  (07091007)
        632050.00   4179050.00       10.76637  (07091007)                632150.00
4179050.00       12.39882  (07091007)
        629850.00   4179150.00        5.83933  (07122917)                629950.00
4179150.00        5.91474  (08122718)
        630150.00   4179150.00        6.04209  (07021218)                630250.00
4179150.00        6.05986  (07021218)
        630350.00   4179150.00        6.06562  (07021218)                630450.00
4179150.00        6.06874  (07021218)
        630550.00   4179150.00        6.11145  (05010917)                630650.00
4179150.00        6.20980  (05010917)
        630750.00   4179150.00        6.34670  (08011009)                630850.00
4179150.00        6.43258  (08011009)
        630950.00   4179150.00        6.47530  (08011009)                631050.00
4179150.00        6.50072  (08011009)
        631150.00   4179150.00        6.51772  (08011009)                631250.00
4179150.00        6.63315  (04011809)
        631350.00   4179150.00        6.70082  (04011809)                631450.00
4179150.00        6.75022  (04011809)
        631550.00   4179150.00        6.75938  (04011809)                631650.00
4179150.00        6.77219  (04011809)
        631750.00   4179150.00        6.80089  (04011809)                631850.00
4179150.00        6.81235  (04011809)
        631950.00   4179150.00        7.97837  (07091007)                632050.00
4179150.00       10.07229  (07091007)
 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                          ***        01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                         ***        15:43:26
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: OFFSITE1 ***
INCLUDING SOURCE(S): L0006118 , L0006119 , L0006120 , L0006121 , L0006122 ,
L0006123 , L0006124 , L0006125 , L0006126 , L0006127 , L0006128 , L0006129 , L0006130 ,
L0006131 , L0006132 , L0006133 , L0006134 , L0006135 , L0006136 , L0006137 , L0006138 ,
L0006139 , L0006140 , L0006141 , L0006142 , L0006143 , L0006144 , L0006145 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF HRA IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
632150.00	4179150.00	11.78138	(07091007)	630850.00	4179250.00	6.29186	(08011009)
630950.00	4179250.00	6.32272	(08011009)	631050.00	4177625.00	10.87395	(08011009)
631100.00	4177725.00	10.43620	(08011009)	631100.00	4177825.00	10.00353	(08011009)
631350.00	4178225.00	8.58983	(08011009)	631400.00	4178225.00	8.59945	(08011009)
631450.00	4178225.00	8.61291	(08011009)	631500.00	4178225.00	8.62608	(08011009)
631100.00	4178275.00	8.38858	(08011009)	631150.00	4178275.00	8.40513	(08011009)
631200.00	4178275.00	8.40858	(08011009)	631250.00	4178275.00	8.41948	(08011009)
631300.00	4178275.00	8.43099	(08011009)	631350.00	4178275.00	8.44209	(08011009)
631400.00	4178275.00	8.45739	(08011009)	631450.00	4178275.00	8.47155	(08011009)
631500.00	4178275.00	8.48406	(08011009)	630950.00	4178325.00	8.20349	(08011009)
631100.00	4178325.00	8.25300	(08011009)	631150.00	4178325.00	8.26037	(08011009)
631200.00	4178325.00	8.28202	(08011009)	631250.00	4178325.00	8.28507	(08011009)
631300.00	4178325.00	8.30507	(08011009)	631400.00	4178325.00	8.30897	(08011009)
631450.00	4178325.00	8.32912	(08011009)	631500.00			

4178325.00 8.33852 (08011009)
630950.00 4178375.00 8.06858 (08011009) 631200.00
4178375.00 8.13107 (08011009)
631300.00 4178375.00 8.15369 (08011009) 631400.00
4178375.00 8.17434 (08011009)
631450.00 4178375.00 8.17790 (08011009) 631500.00
4178375.00 8.19169 (08011009)
630800.00 4178425.00 7.69515 (08011009) 630850.00
4178425.00 7.81811 (08011009)
631050.00 4178425.00 7.97164 (08011009) 631200.00
4178425.00 7.99986 (08011009)
631250.00 4178425.00 8.01487 (08011009) 631300.00
4178425.00 8.02144 (08011009)
630650.00 4178475.00 7.35629 (07021218) 630800.00
4178475.00 7.59350 (08011009)
630850.00 4178475.00 7.69586 (08011009) 631050.00
4178475.00 7.84383 (08011009)
631200.00 4178475.00 7.87633 (08011009) 631250.00
4178475.00 7.88528 (08011009)
631300.00 4178475.00 7.89162 (08011009) 631450.00
4178475.00 7.91506 (08011009)
631500.00 4178475.00 7.91995 (08011009) 630550.00
4178525.00 7.22513 (07021218)
630600.00 4178525.00 7.23365 (07021218) 630650.00
4178525.00 7.22873 (07021218)
630700.00 4178525.00 7.31153 (05010917) 630750.00
4178525.00 7.38119 (05010917)
630950.00 4178525.00 7.67163 (08011009) 631050.00
4178525.00 7.72442 (08011009)
631200.00 4178525.00 7.75450 (08011009) 631250.00
4178525.00 7.76256 (08011009)
631300.00 4178525.00 7.76837 (08011009) 631350.00
4178525.00 7.77852 (08011009)
631400.00 4178525.00 7.78534 (08011009) 631450.00
4178525.00 7.80581 (08011009)
631500.00 4178525.00 7.80161 (08011009) 630500.00
4178575.00 7.10815 (07021218)
630550.00 4178575.00 7.11662 (07021218) 630600.00
4178575.00 7.12256 (07021218)
630650.00 4178575.00 7.11302 (07021218) 630700.00
4178575.00 7.20494 (05010917)
630750.00 4178575.00 7.27587 (05010917) 630800.00
4178575.00 7.37484 (08011009)
630850.00 4178575.00 7.46446 (08011009) 631000.00
4178575.00 7.59242 (08011009)
631050.00 4178575.00 7.60679 (08011009) 631200.00
4178575.00 7.63730 (08011009)
631250.00 4178575.00 7.64304 (08011009) 631300.00
4178575.00 7.65129 (08011009)
631350.00 4178575.00 7.65698 (08011009) 631400.00

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: OFFSITE1 ***
INCLUDING SOURCE(S): L0006118 , L0006119 , L0006120 , L0006121 , L0006122 ,
L0006123 , L0006124 , L0006125 , L0006126 , L0006127 , L0006128 , L0006129 , L0006130 ,
L0006131 , L0006132 , L0006133 , L0006134 , L0006135 , L0006136 , L0006137 , L0006138 ,
L0006139 , L0006140 , L0006141 , L0006142 , L0006143 , L0006144 , L0006145 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF HRA IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
630500.00	4178625.00	6.99825	(07021218)	630550.00	4178625.00	7.01135	(07021218)
630600.00	4178625.00	7.01437	(07021218)	630650.00	4178625.00	7.01961	(05010917)
630700.00	4178625.00	7.10793	(05010917)	630750.00	4178625.00	7.16476	(05010917)
630800.00	4178625.00	7.28799	(08011009)	630850.00	4178625.00	7.37333	(08011009)
631000.00	4178625.00	7.47729	(08011009)	631050.00	4178625.00	7.49358	(08011009)
631100.00	4178625.00	7.50120	(08011009)	631150.00	4178625.00	7.50498	(08011009)
631200.00	4178625.00	7.51986	(08011009)	631250.00	4178625.00	7.52975	(08011009)
631300.00	4178625.00	7.53514	(08011009)	631350.00	4178625.00	7.54486	(08011009)
631400.00	4178625.00	7.55223	(08011009)	631450.00	4178625.00	7.56163	(08011009)

631500.00 4178625.00 7.56818 (08011009) 631100.00
4175700.00 85.55365 (06020109)
631150.00 4175700.00 86.20741 (06020109) 631200.00
4175700.00 86.67359 (06020109)
631250.00 4175700.00 87.13054 (06020109) 631100.00
4175750.00 85.64865 (06020109)
631150.00 4175750.00 86.62695 (06020109) 629400.00
4179050.00 5.89930 (08011010)
629450.00 4179050.00 5.90146 (08011010) 629500.00
4179050.00 5.89574 (08011010)
629400.00 4179100.00 5.88730 (08011010) 629450.00
4179100.00 5.89135 (08011010)
629400.00 4179150.00 5.87150 (08011010) 629500.00
4179150.00 5.87196 (08011010)
629550.00 4179150.00 5.87783 (08011010) 629600.00
4179150.00 5.87862 (08011010)
629650.00 4179150.00 5.87705 (08011010) 629700.00
4179150.00 5.86402 (08011010)
629800.00 4179200.00 5.82874 (08011010) 629400.00
4179300.00 5.82022 (08011010)
629400.00 4179350.00 5.80477 (08011010) 634375.00
4175350.00 31.56138 (06100508)
634425.00 4175350.00 32.08193 (06100508) 635425.00
4175350.00 27.85828 (06100508)
635425.00 4175400.00 25.65898 (06100508) 635475.00
4175400.00 24.84426 (06100508)
634325.00 4175450.00 36.41083 (06100508) 634475.00
4175450.00 36.44796 (06100508)
634525.00 4175450.00 36.24023 (06100508) 634525.00
4175500.00 36.41425 (06100508)
634325.00 4175550.00 38.50341 (06100508) 634525.00
4175550.00 35.21915 (06100508)
634575.00 4175550.00 34.19973 (06100508) 634775.00
4175550.00 29.72092 (06100508)
634825.00 4175550.00 28.54604 (06100508) 634625.00
4175600.00 29.88329 (06100508)
634675.00 4175600.00 28.48912 (06100508) 634725.00
4175600.00 27.26361 (06100508)
634775.00 4175600.00 25.91465 (06100508) 634825.00
4175600.00 24.72089 (06100508)
634875.00 4175600.00 23.47513 (06100508) 634925.00
4175600.00 22.30913 (06100508)
635375.00 4175600.00 17.83998 (05122420) 634275.00
4175650.00 35.86053 (06100508)
634325.00 4175650.00 34.43105 (06100508) 634575.00
4175650.00 26.95991 (06100508)
634625.00 4175650.00 25.48374 (06100508) 634675.00
4175650.00 24.66361 (08011020)
634725.00 4175650.00 24.01875 (08011020) 634775.00
4175650.00 23.32348 (08011020)

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        634825.00   4175650.00       22.67837  (08011020)                634875.00
4175650.00       22.16981  (05122420)
        634925.00   4175650.00       21.77275  (05122420)                634975.00
4175650.00       21.40797  (05122420)
        635025.00   4175650.00       20.98177  (05122420)                635325.00
4175650.00       18.52167  (05122420)
        635375.00   4175650.00       18.11163  (07012218)                634475.00
4175700.00       27.90154  (08011020)
        634525.00   4175700.00       26.98206  (08011020)                634575.00
4175700.00       26.45730  (05122420)
        634625.00   4175700.00       25.88314  (05122420)                634675.00
4175700.00       25.33983  (05122420)
🡅 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                         ***        01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                       ***        15:43:26

                                  PAGE 216
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  OFFSITE1 ***
                                  INCLUDING SOURCE(S):     L0006118    , L0006119
, L0006120    , L0006121    , L0006122    ,
                L0006123    , L0006124    , L0006125    , L0006126    , L0006127
, L0006128    , L0006129    , L0006130    ,
                L0006131    , L0006132    , L0006133    , L0006134    , L0006135
, L0006136    , L0006137    , L0006138    ,
                L0006139    , L0006140    , L0006141    , L0006142    , L0006143
, L0006144    , L0006145    ,  . . .      ,

                                             *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                        ** CONC OF HRA      IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
        634725.00   4175700.00       24.84809  (05122420)                634775.00
4175700.00       24.25955  (05122420)
        634825.00   4175700.00       23.63169  (05122420)                634875.00
4175700.00       23.08392  (05122420)
        634925.00   4175700.00       22.44709  (05122420)                634975.00
4175700.00       21.91526  (07012218)
        635025.00   4175700.00       21.42728  (07012218)                635075.00
4175700.00       21.00767  (07012218)
        635125.00   4175700.00       20.55846  (07012218)                634425.00
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4175750.00 30.06599 (05122420)
634575.00 4175750.00 27.54605 (07012218) 634625.00
4175750.00 26.86419 (07012218)
634675.00 4175750.00 26.18106 (07012218) 634725.00
4175750.00 25.55085 (07012218)
634775.00 4175750.00 24.86810 (07012218) 634825.00
4175750.00 24.20994 (07012218)
634875.00 4175750.00 23.51963 (07012218) 634925.00
4175750.00 22.88490 (07012218)
634975.00 4175750.00 22.33243 (05020819) 635025.00
4175750.00 21.81211 (05020819)
635075.00 4175750.00 21.34911 (05020819) 635125.00
4175750.00 20.87194 (05020819)
635175.00 4175750.00 20.35350 (05020819) 635225.00
4175750.00 19.93355 (05020819)
634325.00 4175800.00 33.18697 (07012218) 634375.00
4175800.00 32.13115 (07012218)
634425.00 4175800.00 31.03271 (07012218) 634475.00
4175800.00 30.04654 (07012218)
634525.00 4175800.00 29.21559 (05020819) 634575.00
4175800.00 28.34929 (05020819)
634625.00 4175800.00 27.64114 (05020819) 634675.00
4175800.00 26.79046 (05020819)
634725.00 4175800.00 26.07726 (05020819) 634775.00
4175800.00 25.30436 (05020819)
634825.00 4175800.00 24.63225 (05020819) 634875.00
4175800.00 23.86769 (05020819)
634925.00 4175800.00 23.21774 (05020819) 634975.00
4175800.00 22.55552 (05020819)
635025.00 4175800.00 21.90343 (05020819) 635075.00
4175800.00 21.26332 (05020819)
635125.00 4175800.00 20.66531 (05020819) 635175.00
4175800.00 20.11865 (05020819)
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635325.00 4175800.00 18.87363 (07021102) 634225.00
4175850.00 36.65296 (05020819)
634325.00 4175850.00 34.08987 (05020819) 634375.00
4175850.00 32.78462 (05020819)
634425.00 4175850.00 31.58853 (05020819) 634475.00
4175850.00 30.45496 (05020819)
634525.00 4175850.00 29.34500 (05020819) 634575.00
4175850.00 28.43799 (07021102)
634625.00 4175850.00 27.76784 (07021102) 634675.00
4175850.00 26.96643 (07021102)
634725.00 4175850.00 26.22303 (07021102) 634775.00
4175850.00 25.61398 (07021102)
634825.00 4175850.00 24.92098 (07021102) 634875.00
4175850.00 24.25624 (07021102)
634925.00 4175850.00 23.60173 (07021102) 634975.00

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4175850.00       23.01018  (07021102)
        635025.00   4175850.00       22.40803  (07021102)                635075.00
4175850.00       21.87105  (07021102)
        635125.00   4175850.00       21.33675  (07021102)                635175.00
4175850.00       20.82383  (07021102)
        635225.00   4175850.00       20.29433  (07021102)                635275.00
4175850.00       19.84398  (07021102)
        635325.00   4175850.00       19.35972  (07021102)                635375.00
4175850.00       18.86713  (07021102)
        635425.00   4175850.00       18.42174  (07021102)                634225.00
4175900.00       37.72525  (07021102)
        634325.00   4175900.00       35.12830  (07021102)                634375.00
4175900.00       33.80746  (07021102)
        634425.00   4175900.00       32.53370  (07021102)                634475.00
4175900.00       31.41706  (07021102)
        634525.00   4175900.00       30.35225  (07021102)                634575.00
4175900.00       29.33941  (07021102)
        634625.00   4175900.00       28.42104  (07021102)                634675.00
4175900.00       27.57635  (07021102)
        634725.00   4175900.00       26.65840  (07021102)                634775.00
4175900.00       25.86661  (07021102)
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                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  OFFSITE1 ***
                                  INCLUDING SOURCE(S):     L0006118    , L0006119
, L0006120    , L0006121    , L0006122    ,
                L0006123    , L0006124    , L0006125    , L0006126    , L0006127
, L0006128    , L0006129    , L0006130    ,
                L0006131    , L0006132    , L0006133    , L0006134    , L0006135
, L0006136    , L0006137    , L0006138    ,
                L0006139    , L0006140    , L0006141    , L0006142    , L0006143
, L0006144    , L0006145    ,  . . .      ,

                                                 *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                            ** CONC OF HRA      IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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634875.00 4175900.00 24.28836 (07021102) 634925.00
4175900.00 23.53245 (07021102)
634975.00 4175900.00 22.87131 (07021102) 635025.00
4175900.00 22.20758 (07021102)
635075.00 4175900.00 21.59493 (07021102) 635125.00
4175900.00 20.96376 (07021102)
635175.00 4175900.00 20.40276 (07021102) 635225.00
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634425.00 4175950.00 32.87820 (06012822) 634475.00
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634625.00 4175950.00 28.78251 (06012822) 634675.00
4175950.00 27.93329 (06012822)
634875.00 4175950.00 24.71816 (06012822) 634925.00
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634975.00 4175950.00 23.39037 (06012822) 635025.00
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635075.00 4175950.00 22.14570 (06012822) 635125.00
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635175.00 4175950.00 21.04922 (06012822) 635225.00
4175950.00 20.48537 (06012822)
635275.00 4175950.00 20.03135 (06012822) 635325.00
4175950.00 19.49480 (06012822)
635375.00 4175950.00 19.04320 (06012822) 635425.00
4175950.00 18.59351 (06012822)
635475.00 4175950.00 18.15598 (06012822) 635525.00
4175950.00 17.70147 (06012822)
635575.00 4175950.00 17.31740 (06012822) 634725.00
4176000.00 27.19974 (04122902)
634925.00 4176000.00 24.05118 (04122902) 634975.00
4176000.00 23.44909 (04122902)
635025.00 4176000.00 22.81677 (04122902) 635075.00
4176000.00 22.16964 (04122902)
635125.00 4176000.00 21.61078 (04122902) 635175.00
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635225.00 4176000.00 20.51851 (04122902) 635275.00
4176000.00 20.04609 (04122902)
635325.00 4176000.00 19.51894 (04122902) 635375.00
4176000.00 19.06637 (04122902)
635425.00 4176000.00 18.58907 (04122902) 635475.00
4176000.00 18.15690 (04122902)

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        635525.00   4176000.00       17.73971  (04122902)                635575.00
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4176050.00       22.67035  (04122902)
        635025.00   4176050.00       22.06187  (04122902)                635075.00
4176050.00       21.49044  (04122902)
        635125.00   4176050.00       20.97531  (04122902)                635175.00
4176050.00       20.44859  (04122902)
        635225.00   4176050.00       19.95271  (04122902)                635275.00
4176050.00       19.47066  (04122902)
        635325.00   4176050.00       18.99967  (04122902)                635375.00
4176050.00       18.52850  (04122902)
        635425.00   4176050.00       18.13024  (04122902)                635475.00
4176050.00       17.70152  (04122902)
        635525.00   4176050.00       17.29946  (04122902)                635575.00
4176050.00       16.88730  (04122902)
        634825.00   4176100.00       23.39414  (07011518)                634875.00
4176100.00       22.71707  (07011518)
        634925.00   4176100.00       22.01400  (07011518)                634975.00
4176100.00       21.38509  (07011518)
        635025.00   4176100.00       20.79908  (07011518)                635075.00
4176100.00       20.21279  (07011518)
        635125.00   4176100.00       19.67346  (06011619)                635175.00
4176100.00       19.17929  (06011619)
        635225.00   4176100.00       18.72855  (06011619)                635275.00
4176100.00       18.28399  (06011619)
        635325.00   4176100.00       17.85384  (06011619)                635375.00
4176100.00       17.45174  (06011619)
 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                         ***        01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                        ***        15:43:26

                                   PAGE 218
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  OFFSITE1 ***
                                   INCLUDING SOURCE(S):     L0006118    , L0006119
, L0006120    , L0006121    , L0006122    ,
                   L0006123    , L0006124    , L0006125    , L0006126    , L0006127
, L0006128    , L0006129    , L0006130    ,
                   L0006131    , L0006132    , L0006133    , L0006134    , L0006135
, L0006136    , L0006137    , L0006138    ,
                   L0006139    , L0006140    , L0006141    , L0006142    , L0006143
, L0006144    , L0006145    ,  . . .      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
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** CONC OF HRA IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
635425.00	4176100.00	17.00505	(06011619)	635475.00	4176100.00	16.64268	(06011619)
635525.00	4176100.00	16.27012	(06011619)	635575.00	4176100.00	15.91252	(06011619)
634825.00	4176150.00	24.90950	(06121322)	634875.00	4176150.00	24.10612	(06121322)
634925.00	4176150.00	23.23916	(06121322)	634975.00	4176150.00	22.48174	(06121322)
635025.00	4176150.00	21.76394	(06121322)	635075.00	4176150.00	21.02170	(06121322)
635125.00	4176150.00	20.36610	(06121322)	635175.00	4176150.00	19.69473	(06121322)
635225.00	4176150.00	19.01980	(06121322)	635275.00	4176150.00	18.46234	(06121322)
635325.00	4176150.00	17.95468	(07011518)	635375.00	4176150.00	17.52244	(07011518)
635425.00	4176150.00	17.06413	(07011518)	635475.00	4176150.00	16.67794	(07011518)
635525.00	4176150.00	16.28333	(07011518)	635575.00	4176150.00	15.90693	(07011518)
634875.00	4176200.00	25.27340	(06121322)	634925.00	4176200.00	24.50113	(06121322)
634975.00	4176200.00	23.78340	(06121322)	635125.00	4176200.00	21.81200	(06121322)
635175.00	4176200.00	21.21435	(06121322)	635225.00	4176200.00	20.57516	(06121322)
635525.00	4176200.00	17.33903	(06121322)	635575.00	4176200.00	16.83917	(06121322)
634325.00	4176250.00	33.37215	(07021221)	634375.00	4176250.00	32.24896	(07021221)
634875.00	4176250.00	24.66285	(06121322)	634925.00	4176250.00	24.14217	(06121322)
634975.00	4176250.00	23.60690	(06121322)	635025.00	4176250.00	23.06715	(06121322)
635075.00	4176250.00	22.52129	(06121322)	635125.00	4176250.00	22.01099	(06121322)
635175.00	4176250.00	21.48378	(06121322)	635225.00	4176250.00	21.01384	(06121322)
635275.00	4176250.00	20.49805	(06121322)	635375.00	4176250.00	19.48498	(06121322)
635425.00	4176250.00	19.02848	(06121322)	635525.00			

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4176250.00       18.13943  (06121322)
        635575.00   4176250.00       17.70253  (06121322)                634875.00
4176300.00       23.65437  (07011318)
        634925.00   4176300.00       23.20469  (07011318)                634975.00
4176300.00       22.74581  (07011318)
        635025.00   4176300.00       22.27962  (07011318)                635075.00
4176300.00       21.79789  (07011318)
        635125.00   4176300.00       21.32706  (07011318)                635175.00
4176300.00       20.81971  (07011318)
        635225.00   4176300.00       20.35978  (07011318)                635275.00
4176300.00       19.92318  (07011318)
        635375.00   4176300.00       19.11464  (06121322)                635425.00
4176300.00       18.76228  (06121322)
        635525.00   4176300.00       18.04996  (06121322)                635575.00
4176300.00       17.65388  (06121322)
        634875.00   4176350.00       23.75611  (07021221)                634925.00
4176350.00       23.20470  (07021221)
        634975.00   4176350.00       22.62460  (07021221)                635025.00
4176350.00       22.04777  (07021221)
        635075.00   4176350.00       21.44888  (07021221)                635125.00
4176350.00       20.86205  (07021221)
        635175.00   4176350.00       20.24808  (07021221)                635225.00
4176350.00       19.70735  (07021221)
        635275.00   4176350.00       19.31651  (07011318)                635375.00
4176350.00       18.59592  (07011318)
        635425.00   4176350.00       18.26441  (07011318)                635525.00
4176350.00       17.56555  (07011318)
        635575.00   4176350.00       17.18510  (07011318)                634875.00
4176400.00       23.07950  (04121118)
        634925.00   4176400.00       22.58350  (04121118)                634975.00
4176400.00       22.06075  (04121118)
        635025.00   4176400.00       21.59322  (07021221)                635075.00
4176400.00       21.20886  (07021221)
        635125.00   4176400.00       20.81036  (07021221)                635175.00
4176400.00       20.39842  (07021221)
        635225.00   4176400.00       19.98024  (07021221)                635275.00
4176400.00       19.55039  (07021221)
        635425.00   4176400.00       18.14423  (07021221)                635525.00
4176400.00       17.18596  (07021221)
 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                          ***        01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                         ***        15:43:26

                                    PAGE 219
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  OFFSITE1 ***
                                    INCLUDING SOURCE(S):     L0006118    , L0006119
```

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, L0006120    , L0006121    , L0006122    ,
                L0006123    , L0006124    , L0006125    , L0006126    , L0006127
, L0006128    , L0006129    , L0006130    ,
                L0006131    , L0006132    , L0006133    , L0006134    , L0006135
, L0006136    , L0006137    , L0006138    ,
                L0006139    , L0006140    , L0006141    , L0006142    , L0006143
, L0006144    , L0006145    ,  . . .      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                     ** CONC OF HRA      IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - -
        635575.00   4176400.00       16.74684  (07021221)                633650.00
4176200.00       53.16226  (06011620)
        633700.00   4176200.00       51.83613  (06011620)                633850.00
4176200.00       47.46675  (07021221)
        633850.00   4176250.00       43.17041  (06011620)                633950.00
4176250.00       41.10309  (06011620)
        634350.00   4176250.00       32.84655  (07021221)                633750.00
4176300.00       39.70556  (06012918)
        633950.00   4176300.00       37.69331  (06020205)                634000.00
4176300.00       37.03406  (06020205)
        634050.00   4176300.00       36.09191  (06020205)                634050.00
4176350.00       33.52280  (04021505)
        634050.00   4176400.00       30.78234  (06020208)                634000.00
4176450.00       28.63673  (05010918)
        634050.00   4176450.00       28.55879  (05011419)                634200.00
4176600.00       23.13484  (05122401)
        634100.00   4176650.00       21.84454  (06121503)                634150.00
4176650.00       21.69344  (06121503)
        634200.00   4176650.00       21.58701  (05122401)                634200.00
4176850.00       22.26281  (08031008)
        634200.00   4176900.00       22.27542  (08031008)                634250.00
4176900.00       22.11517  (08031008)
        634300.00   4176900.00       21.83620  (08031008)                634400.00
4177000.00       21.53795  (08031008)
        634450.00   4177000.00       21.20599  (08031008)                634500.00
4177000.00       20.88397  (08031008)
        634550.00   4177000.00       20.47051  (08031008)                634400.00
4177050.00       21.52057  (08031008)
        634450.00   4177050.00       21.24929  (08031008)                634500.00
4177050.00       21.19747  (08031008)
        634550.00   4177050.00       20.97601  (08031008)                633750.00
4173175.00        9.55504  (08031018)
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        634450.00   4173325.00        9.65680  (08031018)                634450.00
4173375.00        9.77596  (04022018)
        634350.00   4173475.00       10.02740  (04022018)                634300.00
4173625.00       10.43948  (04022018)
        634300.00   4173675.00       10.63222  (04022018)                634350.00
4173675.00       10.67128  (04022018)
        634250.00   4173775.00       10.85536  (04022018)                633950.00
4173825.00       10.68974  (05011520)
        634050.00   4173825.00       10.70020  (05011520)                634100.00
4173825.00       10.76531  (04022018)
        634250.00   4173825.00       11.00572  (04022018)                634250.00
4173975.00       11.36978  (04022018)
        634150.00   4174125.00       11.31348  (05011520)                634200.00
4174125.00       11.34600  (04022018)
        634250.00   4174125.00       11.62308  (04022018)                634250.00
4174225.00       11.54242  (04022018)
        634350.00   4174225.00       12.03528  (04022018)                634400.00
4174225.00       12.01816  (04022018)
        634200.00   4174325.00       11.38159  (04022018)                634250.00
4174325.00       11.28408  (04022018)
        634200.00   4174375.00       11.88867  (04022018)                634250.00
4174425.00       11.49465  (06011617)
        634000.00   4174475.00       12.80137  (05011520)                634250.00
4174525.00       12.14927  (06011617)
        634100.00   4174575.00       12.40757  (06011617)                634150.00
4174575.00       12.43707  (06011617)
        634200.00   4174575.00       12.45577  (06011617)                634250.00
4174575.00       12.46204  (06011617)
        634250.00   4174625.00       12.78489  (06011617)                634250.00
4174675.00       13.12269  (06011617)
        634250.00   4174825.00       14.20472  (06011617)                634250.00
4174875.00       14.41604  (06011617)
        634200.00   4174925.00       14.88491  (06011617)                634250.00
4174925.00       14.79463  (06120617)
        631950.00   4173950.00        6.76301  (08102618)                631550.00
4174000.00        8.42189  (07030618)
        631550.00   4174050.00        8.91019  (07030618)                631750.00
4174250.00       11.17357  (04102617)
        632300.00   4174300.00       13.20491  (04102617)                632350.00
4174300.00       13.15728  (04102617)
        632300.00   4174350.00       13.55869  (04102617)                632350.00
4174350.00       13.55657  (04102617)
        631600.00   4174400.00       12.88991  (04102617)                631650.00
4174400.00       13.51996  (04102617)
        632000.00   4174400.00       13.90651  (04102617)                632000.00
4174450.00       14.14964  (04102617)
        631950.00   4174500.00       15.91523  (06011109)                632150.00
4174950.00       24.56874  (06011109)
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*** AERMET - VERSION 18081 ***   *** Operational HRA - DPM
***   15:43:26

PAGE 220
*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: OFFSITE1 ***
INCLUDING SOURCE(S):   L0006118   , L0006119
, L0006120   , L0006121   , L0006122   ,
L0006123   , L0006124   , L0006125   , L0006126   , L0006127
, L0006128   , L0006129   , L0006130   ,
L0006131   , L0006132   , L0006133   , L0006134   , L0006135
, L0006136   , L0006137   , L0006138   ,
L0006139   , L0006140   , L0006141   , L0006142   , L0006143
, L0006144   , L0006145   , . . .   ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF HRA   IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
632200.00	4174950.00	24.34867	(06011109)				

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: OFFSITE2 ***
INCLUDING SOURCE(S):   L0006345   , L0006346
, L0006347   , L0006348   , L0006349   ,
L0006350   , L0006351   , L0006352   , L0006353   , L0006354
, L0006355   , L0006356   , L0006357   ,
L0006358   , L0006359   , L0006360   , L0006361   , L0006362
, L0006363   , L0006364   , L0006365   ,
L0006366   , L0006367   , L0006368   , L0006369   , L0006370
, L0006371   , L0006372   , . . .   ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF HRA IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
631050.00	4178050.00	173.10984	(05122220)	631150.00	4178250.00	71.88513	(05122402)
631250.00	4178250.00	58.75517	(07091007)	631350.00	4178250.00	54.37572	(07091007)
631450.00	4178250.00	47.91713	(07091007)	631550.00	4178250.00	39.09667	(07091007)
631650.00	4178250.00	28.81790	(07091007)	631750.00	4178250.00	20.45269	(07022408)
631150.00	4178350.00	69.65546	(05122402)	631450.00	4178350.00	48.56620	(07091007)
631550.00	4178350.00	40.60447	(07091007)	631650.00	4178350.00	31.13202	(07091007)
631750.00	4178350.00	21.32890	(07091007)	630650.00	4178450.00	40.51231	(08011009)
630850.00	4178450.00	77.83271	(08011009)	631050.00	4178450.00	102.33904	(08122707)
631150.00	4178450.00	66.25291	(04121818)	631250.00	4178450.00	57.43318	(07091007)
631550.00	4178450.00	41.84287	(07091007)	631650.00	4178450.00	32.95970	(07091007)
631750.00	4178450.00	23.45153	(07091007)	631850.00	4178450.00	18.23534	(07022408)
631950.00	4178450.00	17.26969	(04102908)	632050.00	4178450.00	16.05132	(04102908)
632150.00	4178450.00	14.71231	(07022408)	630550.00	4178550.00	32.13612	(05010917)
630650.00	4178550.00	41.14871	(08011009)	630750.00	4178550.00	56.28308	(08011009)
630950.00	4178550.00	88.46884	(08122907)	631050.00	4178550.00	87.55431	(06122002)
631250.00	4178550.00	56.40584	(07091007)	631350.00	4178550.00	53.72280	(07091007)
631450.00	4178550.00	49.49528	(07091007)	631550.00	4178550.00	43.03232	(07091007)
631650.00	4178550.00	34.80073	(07091007)	631750.00	4178550.00	25.69458	(07091007)
631850.00	4178550.00	18.13277	(04102908)	631950.00	4178550.00	17.44865	(04102908)
632050.00	4178550.00	16.48376	(04102908)	632150.00	4178550.00	15.01977	(04102908)
630450.00	4178650.00	26.34124	(05010917)	630550.00	4178650.00	32.40231	(05010917)

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        630650.00   4178650.00       41.79837  (08011009)                630750.00
4178650.00       54.86568  (08011009)
        630850.00   4178650.00       63.59106  (07122906)                630950.00
4178650.00       75.94517  (08122907)
        631050.00   4178650.00       76.33780  (06122002)                631150.00
4178650.00       60.20040  (07121904)
        631250.00   4178650.00       53.99949  (07091007)                631350.00
4178650.00       53.35616  (07091007)
        631450.00   4178650.00       49.55547  (07091007)                631550.00
4178650.00       44.01126  (07091007)
        631650.00   4178650.00       36.52845  (07091007)                631750.00
4178650.00       27.76717  (07091007)
        631850.00   4178650.00       19.30598  (07091007)                631950.00
4178650.00       17.56943  (04102908)
        632050.00   4178650.00       16.77570  (04102908)                632150.00
4178650.00       15.59874  (04102908)
        630350.00   4178750.00       23.03056  (07012720)                630450.00
4178750.00       26.80476  (05010917)
        630550.00   4178750.00       32.36824  (05010917)                630650.00
4178750.00       42.30312  (08011009)
        630750.00   4178750.00       51.50176  (08011009)                630850.00
4178750.00       57.50699  (07122906)
        630950.00   4178750.00       66.04989  (08122907)                631050.00
4178750.00       67.18074  (06122002)
        631150.00   4178750.00       56.21564  (05022220)                631250.00
4178750.00       49.73100  (07091007)
        631350.00   4178750.00       52.74294  (07091007)                631450.00
4178750.00       49.71660  (07091007)
        631550.00   4178750.00       44.77369  (07091007)                631650.00
4178750.00       38.08698  (07091007)
        631750.00   4178750.00       29.77733  (07091007)                631850.00
4178750.00       21.35579  (07091007)
        631950.00   4178750.00       17.66438  (04102908)                632050.00
4178750.00       16.97288  (04102908)
        632150.00   4178750.00       16.00118  (04102908)                630250.00
4178850.00       20.60541  (07021218)
        630350.00   4178850.00       23.11559  (07012720)                630450.00
4178850.00       27.15373  (05010917)
 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                          ***        01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                         ***        15:43:26

                                    PAGE 222
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  OFFSITE2 ***
                                    INCLUDING SOURCE(S):     L0006345    , L0006346
, L0006347    , L0006348    , L0006349    ,
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                L0006350    , L0006351    , L0006352    , L0006353    , L0006354
, L0006355    , L0006356    , L0006357    ,
                L0006358    , L0006359    , L0006360    , L0006361    , L0006362
, L0006363    , L0006364    , L0006365    ,
                L0006366    , L0006367    , L0006368    , L0006369    , L0006370
, L0006371    , L0006372    ,  . . .      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF HRA      IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        630550.00   4178850.00       32.61669  (08011009)               630650.00
4178850.00       42.09311  (08011009)
        630750.00   4178850.00       46.73894  (07021108)               630850.00
4178850.00       53.58051  (06012804)
        630950.00   4178850.00       59.23336  (08122724)               631050.00
4178850.00       59.88696  (07122818)
        631150.00   4178850.00       52.05983  (05022220)               631250.00
4178850.00       43.82889  (07091007)
        631350.00   4178850.00       51.25690  (07091007)               631450.00
4178850.00       49.70616  (07091007)
        631550.00   4178850.00       45.40833  (07091007)               631650.00
4178850.00       39.28681  (07091007)
        631750.00   4178850.00       31.59366  (07091007)               631850.00
4178850.00       23.40399  (07091007)
        631950.00   4178850.00       17.70031  (04102908)               632050.00
4178850.00       17.13735  (04102908)
        632150.00   4178850.00       16.32762  (04102908)               630250.00
4178950.00       20.59879  (04022021)
        630350.00   4178950.00       23.03274  (07012720)               630450.00
4178950.00       27.13879  (05010917)
        630550.00   4178950.00       33.33484  (08011009)               630650.00
4178950.00       41.11382  (08011009)
        630750.00   4178950.00       43.06676  (08021905)               630850.00
4178950.00       49.93372  (06012804)
        630950.00   4178950.00       53.66365  (08122724)               631050.00
4178950.00       54.20512  (07122818)
        631150.00   4178950.00       48.52093  (07020803)               631250.00
4178950.00       40.17778  (05121701)
        631350.00   4178950.00       48.80195  (07091007)               631450.00
4178950.00       49.41210  (07091007)
        631550.00   4178950.00       45.90735  (07091007)               631650.00
4178950.00       40.48215  (07091007)
        631750.00   4178950.00       33.28202  (07091007)               631850.00
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4178950.00       25.28933  (07091007)
        631950.00   4178950.00       17.79039  (07091007)                632050.00
4178950.00       17.21877  (04102908)
        632150.00   4178950.00       16.57884  (04102908)                629950.00
4179050.00       15.61058  (07021218)
        630250.00   4179050.00       20.63048  (07012720)                630350.00
4179050.00       23.16891  (05010917)
        630450.00   4179050.00       26.78283  (05010917)                630550.00
4179050.00       33.66676  (08011009)
        630650.00   4179050.00       39.06677  (08011009)                630750.00
4179050.00       41.12313  (07122906)
        630850.00   4179050.00       46.22571  (06012804)                630950.00
4179050.00       48.85991  (08122724)
        631050.00   4179050.00       49.48784  (07122818)                631150.00
4179050.00       45.07791  (07020803)
        631250.00   4179050.00       38.46022  (07121904)                631350.00
4179050.00       45.22438  (07091007)
        631450.00   4179050.00       48.78120  (07091007)                631550.00
4179050.00       46.17030  (07091007)
        631650.00   4179050.00       41.30610  (07091007)                631750.00
4179050.00       34.77296  (07091007)
        631850.00   4179050.00       27.16723  (07091007)                631950.00
4179050.00       19.68632  (07091007)
        632050.00   4179050.00       17.25957  (04102908)                632150.00
4179050.00       16.73312  (04102908)
        629850.00   4179150.00       14.29115  (08122718)                629950.00
4179150.00       15.74268  (07021218)
        630150.00   4179150.00       18.59843  (04022021)                630250.00
4179150.00       20.46282  (07012720)
        630350.00   4179150.00       23.22485  (05010917)                630450.00
4179150.00       26.51923  (08011009)
        630550.00   4179150.00       33.51696  (08011009)                630650.00
4179150.00       36.43856  (08011009)
        630750.00   4179150.00       39.00876  (07122906)                630850.00
4179150.00       42.56740  (06012804)
        630950.00   4179150.00       44.62892  (08122724)                631050.00
4179150.00       45.32767  (07122818)
        631150.00   4179150.00       41.91921  (06011704)                631250.00
4179150.00       37.10015  (07121904)
        631350.00   4179150.00       40.84692  (07091007)                631450.00
4179150.00       47.31957  (07091007)
        631550.00   4179150.00       46.31082  (07091007)                631650.00
4179150.00       42.09802  (07091007)
        631750.00   4179150.00       36.23747  (07091007)                631850.00
4179150.00       29.08561  (07091007)
        631950.00   4179150.00       21.35408  (07091007)                632050.00
4179150.00       17.27235  (04102908)
 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                          ***        01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: OFFSITE2 ***
INCLUDING SOURCE(S): L0006345 , L0006346 , L0006347 , L0006348 , L0006349 ,
L0006350 , L0006351 , L0006352 , L0006353 , L0006354 , L0006355 , L0006356 , L0006357 ,
L0006358 , L0006359 , L0006360 , L0006361 , L0006362 , L0006363 , L0006364 , L0006365 ,
L0006366 , L0006367 , L0006368 , L0006369 , L0006370 , L0006371 , L0006372 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF HRA IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
632150.00	4179150.00	16.82079	(04102908)	630850.00	4179250.00	39.77912	(05121702)
630950.00	4179250.00	41.13383	(08122724)	631050.00	4177625.00	209.65378	(05122220)
631100.00	4177725.00	117.28375	(05122402)	631100.00	4177825.00	114.55405	(05122402)
631350.00	4178225.00	54.45079	(07091007)	631400.00	4178225.00	51.37726	(07091007)
631450.00	4178225.00	47.74998	(07091007)	631500.00	4178225.00	43.49700	(07091007)
631100.00	4178275.00	93.15326	(06020918)	631150.00	4178275.00	71.42308	(05122402)
631200.00	4178275.00	60.60393	(07091007)	631250.00	4178275.00	58.71945	(07091007)
631300.00	4178275.00	56.71820	(07091007)	631350.00	4178275.00	54.36455	(07091007)
631400.00	4178275.00	51.58252	(07091007)	631450.00	4178275.00	48.19877	(07091007)
631500.00	4178275.00	44.18225	(07091007)	630950.00	4178325.00	134.65590	(06012804)
631100.00	4178325.00	90.90489	(06020918)	631150.00	4178325.00	70.24725	(05122402)
631200.00	4178325.00	60.32791	(07091007)	631250.00	4178325.00	58.44057	(07091007)

631300.00 4178325.00 56.71064 (07091007) 631400.00
4178325.00 51.59821 (07091007)
631450.00 4178325.00 48.52278 (07091007) 631500.00
4178325.00 44.71234 (07091007)
630950.00 4178375.00 121.89712 (05121702) 631200.00
4178375.00 59.56036 (07091007)
631300.00 4178375.00 56.21641 (07091007) 631400.00
4178375.00 51.70126 (07091007)
631450.00 4178375.00 48.62803 (07091007) 631500.00
4178375.00 45.11250 (07091007)
630800.00 4178425.00 67.11293 (08011009) 630850.00
4178425.00 79.77135 (08011009)
631050.00 4178425.00 106.78655 (08122707) 631200.00
4178425.00 58.97467 (07091007)
631250.00 4178425.00 57.68945 (07091007) 631300.00
4178425.00 55.96554 (07091007)
630650.00 4178475.00 40.68117 (08011009) 630800.00
4178475.00 66.67165 (08011009)
630850.00 4178475.00 75.41991 (08011009) 631050.00
4178475.00 98.14273 (08122707)
631200.00 4178475.00 58.07726 (07091007) 631250.00
4178475.00 57.27299 (07091007)
631300.00 4178475.00 55.68803 (07091007) 631450.00
4178475.00 49.03482 (07091007)
631500.00 4178475.00 45.83972 (07091007) 630550.00
4178525.00 32.06356 (05010917)
630600.00 4178525.00 35.73826 (05010917) 630650.00
4178525.00 40.88618 (08011009)
630700.00 4178525.00 48.04332 (08011009) 630750.00
4178525.00 56.37474 (08011009)
630950.00 4178525.00 92.11670 (08122907) 631050.00
4178525.00 90.83622 (06122002)
631200.00 4178525.00 56.50466 (07091007) 631250.00
4178525.00 56.76747 (07091007)
631300.00 4178525.00 55.44034 (07091007) 631350.00
4178525.00 53.76477 (07091007)
631400.00 4178525.00 51.70044 (07091007) 631450.00
4178525.00 49.39899 (07091007)
631500.00 4178525.00 46.26285 (07091007) 630500.00
4178575.00 28.96747 (05010917)
630550.00 4178575.00 32.22069 (05010917) 630600.00
4178575.00 35.77694 (05010917)
630650.00 4178575.00 41.18514 (08011009) 630700.00
4178575.00 48.20592 (08011009)
630750.00 4178575.00 56.16616 (08011009) 630800.00
4178575.00 63.00157 (08011009)
630850.00 4178575.00 67.12305 (07122906) 631000.00
4178575.00 89.23891 (05122403)
631050.00 4178575.00 84.52301 (06122002) 631200.00
4178575.00 54.21314 (07091007)

631250.00 4178575.00 55.95893 (07091007) 631300.00
4178575.00 55.17696 (07091007)
631350.00 4178575.00 53.59278 (07091007) 631400.00
4178575.00 51.76360 (07091007)
631450.00 4178575.00 49.38608 (07091007) 631500.00
4178575.00 46.61526 (07091007)

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: OFFSITE2 ***
INCLUDING SOURCE(S): L0006345 , L0006346 , L0006347 , L0006348 , L0006349 ,
L0006350 , L0006351 , L0006352 , L0006353 , L0006354 , L0006355 , L0006356 , L0006357 ,
L0006358 , L0006359 , L0006360 , L0006361 , L0006362 , L0006363 , L0006364 , L0006365 ,
L0006366 , L0006367 , L0006368 , L0006369 , L0006370 , L0006371 , L0006372 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF HRA IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
630500.00	4178625.00	29.12562	(05010917)	630550.00	4178625.00	32.34787	(05010917)
630600.00	4178625.00	35.77045	(08011009)	630650.00	4178625.00	41.56139	(08011009)
630700.00	4178625.00	48.35724	(08011009)	630750.00	4178625.00	55.38741	(08011009)
630800.00	4178625.00	60.20250	(08011009)	630850.00	4178625.00	65.09980	(07122906)
631000.00	4178625.00	82.41036	(05122403)	631050.00	4178625.00	78.89090	(06122002)
631100.00	4178625.00	70.43004	(07020803)	631150.00	4178625.00	61.02213	(07121904)
631200.00	4178625.00	51.99479	(05121701)	631250.00	4178625.00	54.77045	(07091007)
631300.00	4178625.00	54.73511	(07091007)	631350.00			

4178625.00 53.48411 (07091007)
631400.00 4178625.00 51.69481 (07091007) 631450.00
4178625.00 49.53898 (07091007)
631500.00 4178625.00 46.89228 (07091007) 631100.00
4175700.00 128.57382 (04122823)
631150.00 4175700.00 121.38442 (07012317) 631200.00
4175700.00 105.88415 (07012317)
631250.00 4175700.00 82.06013 (07012317) 631100.00
4175750.00 137.65836 (04122823)
631150.00 4175750.00 126.62616 (07012317) 629400.00
4179050.00 10.20499 (04120908)
629450.00 4179050.00 10.55023 (04120908) 629500.00
4179050.00 10.88585 (04120908)
629400.00 4179100.00 10.25750 (04120908) 629450.00
4179100.00 10.58955 (04120908)
629400.00 4179150.00 10.29881 (04120908) 629500.00
4179150.00 10.93218 (04120908)
629550.00 4179150.00 11.25265 (04120908) 629600.00
4179150.00 11.57928 (07122917)
629650.00 4179150.00 12.09259 (07122917) 629700.00
4179150.00 12.58198 (07122917)
629800.00 4179200.00 13.74236 (08122718) 629400.00
4179300.00 10.37193 (04120908)
629400.00 4179350.00 10.38099 (04120908) 634375.00
4175350.00 8.43962 (06100508)
634425.00 4175350.00 8.54989 (06100508) 635425.00
4175350.00 9.66727 (06100508)
635425.00 4175400.00 9.88499 (06100508) 635475.00
4175400.00 9.91090 (06100508)
634325.00 4175450.00 9.45643 (06100508) 634475.00
4175450.00 9.61560 (06100508)
634525.00 4175450.00 9.65385 (06100508) 634525.00
4175500.00 9.99917 (06100508)
634325.00 4175550.00 10.23562 (06100508) 634525.00
4175550.00 10.27429 (06100508)
634575.00 4175550.00 10.27919 (06100508) 634775.00
4175550.00 10.28672 (06100508)
634825.00 4175550.00 10.28274 (06100508) 634625.00
4175600.00 10.46963 (06100508)
634675.00 4175600.00 10.43797 (06100508) 634725.00
4175600.00 10.45363 (06100508)
634775.00 4175600.00 10.42236 (06100508) 634825.00
4175600.00 10.43359 (06100508)
634875.00 4175600.00 10.41461 (06100508) 634925.00
4175600.00 10.41087 (06100508)
635375.00 4175600.00 10.44214 (06100508) 634275.00
4175650.00 10.69991 (06100508)
634325.00 4175650.00 10.69588 (06100508) 634575.00
4175650.00 10.62227 (06100508)
634625.00 4175650.00 10.58835 (06100508) 634675.00

```
4175650.00       10.59300  (06100508)
        634725.00   4175650.00       10.58749  (06100508)                634775.00
4175650.00       10.54619  (06100508)
        634825.00   4175650.00       10.56892  (06100508)                634875.00
4175650.00       10.54808  (06100508)
        634925.00   4175650.00       10.50980  (06100508)                634975.00
4175650.00       10.52588  (06100508)
        635025.00   4175650.00       10.48347  (06100508)                635325.00
4175650.00       10.52132  (06100508)
        635375.00   4175650.00       10.53159  (06100508)                634475.00
4175700.00       10.77999  (06100508)
        634525.00   4175700.00       10.74646  (06100508)                634575.00
4175700.00       10.71603  (06100508)
        634625.00   4175700.00       10.66130  (06100508)                634675.00
4175700.00       10.65031  (06100508)
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                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  OFFSITE2 ***
                                   INCLUDING SOURCE(S):     L0006345    , L0006346
, L0006347    , L0006348    , L0006349    ,
               L0006350    , L0006351    , L0006352    , L0006353    , L0006354
, L0006355    , L0006356    , L0006357    ,
               L0006358    , L0006359    , L0006360    , L0006361    , L0006362
, L0006363    , L0006364    , L0006365    ,
               L0006366    , L0006367    , L0006368    , L0006369    , L0006370
, L0006371    , L0006372    ,  . . .      ,

                                                 *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                            ** CONC OF HRA      IN MICROGRAMS/M**3
                   **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
        634725.00   4175700.00       10.70454  (06100508)                634775.00
4175700.00       10.67768  (06100508)
        634825.00   4175700.00       10.61739  (06100508)                634875.00
4175700.00       10.64396  (06100508)
        634925.00   4175700.00       10.57618  (06100508)                634975.00
4175700.00       10.59053  (06100508)
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635025.00 4175700.00 10.53274 (06100508) 635075.00
4175700.00 10.55546 (06100508)
635125.00 4175700.00 10.54481 (06100508) 634425.00
4175750.00 10.88925 (06100508)
634575.00 4175750.00 10.82472 (06100508) 634625.00
4175750.00 10.79202 (06100508)
634675.00 4175750.00 10.75998 (06100508) 634725.00
4175750.00 10.77616 (06100508)
634775.00 4175750.00 10.73961 (06100508) 634825.00
4175750.00 10.72069 (06100508)
634875.00 4175750.00 10.66024 (06100508) 634925.00
4175750.00 10.64519 (06100508)
634975.00 4175750.00 10.62279 (06100508) 635025.00
4175750.00 10.58012 (06100508)
635075.00 4175750.00 10.59414 (06100508) 635125.00
4175750.00 10.58591 (06100508)
635175.00 4175750.00 10.51847 (06100508) 635225.00
4175750.00 10.56193 (06100508)
634325.00 4175800.00 11.03468 (06100508) 634375.00
4175800.00 11.00722 (06100508)
634425.00 4175800.00 10.93867 (06100508) 634475.00
4175800.00 10.93810 (06100508)
634525.00 4175800.00 10.90722 (06100508) 634575.00
4175800.00 10.83715 (06100508)
634625.00 4175800.00 10.88320 (06100508) 634675.00
4175800.00 10.79667 (06100508)
634725.00 4175800.00 10.81321 (06100508) 634775.00
4175800.00 10.76018 (06100508)
634825.00 4175800.00 10.78406 (06100508) 634875.00
4175800.00 10.69824 (06100508)
634925.00 4175800.00 10.70535 (06100508) 634975.00
4175800.00 10.68039 (06100508)
635025.00 4175800.00 10.64421 (06100508) 635075.00
4175800.00 10.59847 (06100508)
635125.00 4175800.00 10.57703 (06100508) 635175.00
4175800.00 10.59468 (06100508)
635225.00 4175800.00 10.56721 (06100508) 635275.00
4175800.00 10.57576 (06100508)
635325.00 4175800.00 10.51692 (06100508) 634225.00
4175850.00 11.08101 (06100508)
634325.00 4175850.00 11.07292 (06100508) 634375.00
4175850.00 11.00872 (06100508)
634425.00 4175850.00 10.98270 (06100508) 634475.00
4175850.00 10.96664 (06100508)
634525.00 4175850.00 10.93311 (06100508) 634575.00
4175850.00 10.88322 (06100508)
634625.00 4175850.00 10.93370 (06100508) 634675.00
4175850.00 10.85578 (06100508)
634725.00 4175850.00 10.80593 (06100508) 634775.00
4175850.00 10.85492 (06100508)

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        634825.00   4175850.00       10.80682  (06100508)                634875.00
4175850.00       10.76332  (06100508)
        634925.00   4175850.00       10.70755  (06100508)                634975.00
4175850.00       10.69214  (06100508)
        635025.00   4175850.00       10.64507  (06100508)                635075.00
4175850.00       10.64486  (06100508)
        635125.00   4175850.00       10.62821  (06100508)                635175.00
4175850.00       10.61551  (06100508)
        635225.00   4175850.00       10.56226  (06100508)                635275.00
4175850.00       10.58411  (06100508)
        635325.00   4175850.00       10.54381  (06100508)                635375.00
4175850.00       10.47184  (06100508)
        635425.00   4175850.00       10.43991  (06100508)                634225.00
4175900.00       11.12423  (06100508)
        634325.00   4175900.00       11.13875  (06100508)                634375.00
4175900.00       11.06792  (06100508)
        634425.00   4175900.00       10.98447  (06100508)                634475.00
4175900.00       10.96021  (06100508)
        634525.00   4175900.00       10.93266  (06100508)                634575.00
4175900.00       10.90392  (06100508)
        634625.00   4175900.00       10.90853  (06100508)                634675.00
4175900.00       10.94022  (06100508)
        634725.00   4175900.00       10.87376  (06100508)                634775.00
4175900.00       10.88162  (06100508)
 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                          ***        01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                         ***        15:43:26

                                    PAGE 226
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  OFFSITE2 ***
                                    INCLUDING SOURCE(S):     L0006345    , L0006346
, L0006347    , L0006348    , L0006349    ,
                   L0006350    , L0006351    , L0006352    , L0006353    , L0006354
, L0006355    , L0006356    , L0006357    ,
                   L0006358    , L0006359    , L0006360    , L0006361    , L0006362
, L0006363    , L0006364    , L0006365    ,
                   L0006366    , L0006367    , L0006368    , L0006369    , L0006370
, L0006371    , L0006372    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                             ** CONC OF HRA      IN MICROGRAMS/M**3
                    **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
```

Y-COORD (M)   CONC   (YYMMDDHH)
- -
634875.00   4175900.00   10.79757 (06100508)   634925.00
4175900.00   10.73525 (06100508)
634975.00   4175900.00   10.73384 (06100508)   635025.00
4175900.00   10.69955 (06100508)
635075.00   4175900.00   10.68945 (06100508)   635125.00
4175900.00   10.62892 (06100508)
635175.00   4175900.00   10.61807 (06100508)   635225.00
4175900.00   10.59865 (06100508)
635275.00   4175900.00   10.55381 (06100508)   635325.00
4175900.00   10.57407 (06100508)
635375.00   4175900.00   10.45879 (06100508)   635425.00
4175900.00   10.44174 (06100508)
635475.00   4175900.00   10.40270 (06100508)   635525.00
4175900.00   10.37913 (06100508)
634325.00   4175950.00   11.12681 (06100508)   634375.00
4175950.00   11.10763 (06100508)
634425.00   4175950.00   11.05045 (06100508)   634475.00
4175950.00   11.03028 (06100508)
634525.00   4175950.00   10.98618 (06100508)   634575.00
4175950.00   10.93979 (06100508)
634625.00   4175950.00   10.96160 (06100508)   634675.00
4175950.00   10.97124 (06100508)
634875.00   4175950.00   10.79468 (06100508)   634925.00
4175950.00   10.75345 (06100508)
634975.00   4175950.00   10.75896 (06100508)   635025.00
4175950.00   10.71383 (06100508)
635075.00   4175950.00   10.68570 (06100508)   635125.00
4175950.00   10.67159 (06100508)
635175.00   4175950.00   10.65742 (06100508)   635225.00
4175950.00   10.58520 (06100508)
635275.00   4175950.00   10.61487 (06100508)   635325.00
4175950.00   10.52147 (06100508)
635375.00   4175950.00   10.50615 (06100508)   635425.00
4175950.00   10.47084 (06100508)
635475.00   4175950.00   10.42856 (06100508)   635525.00
4175950.00   10.34398 (06100508)
635575.00   4175950.00   10.32699 (06100508)   634725.00
4176000.00   10.97639 (06100508)
634925.00   4176000.00   10.76020 (06100508)   634975.00
4176000.00   10.79252 (06100508)
635025.00   4176000.00   10.76688 (06100508)   635075.00
4176000.00   10.69466 (06100508)
635125.00   4176000.00   10.68520 (06100508)   635175.00
4176000.00   10.64165 (06100508)
635225.00   4176000.00   10.61273 (06100508)   635275.00
4176000.00   10.62194 (06100508)
635325.00   4176000.00   10.54091 (06100508)   635375.00

```
4176000.00       10.52450  (06100508)
        635425.00   4176000.00       10.45481  (06100508)                635475.00
4176000.00       10.41766  (06100508)
        635525.00   4176000.00       10.37781  (06100508)                635575.00
4176000.00       10.30497  (06100508)
        634825.00   4176050.00       10.82598  (06100508)                634875.00
4176050.00       10.81625  (06100508)
        634925.00   4176050.00       10.80789  (06100508)                634975.00
4176050.00       10.78988  (06100508)
        635025.00   4176050.00       10.74452  (06100508)                635075.00
4176050.00       10.70947  (06100508)
        635125.00   4176050.00       10.70866  (06100508)                635175.00
4176050.00       10.66993  (06100508)
        635225.00   4176050.00       10.64115  (06100508)                635275.00
4176050.00       10.60420  (06100508)
        635325.00   4176050.00       10.55664  (06100508)                635375.00
4176050.00       10.48610  (06100508)
        635425.00   4176050.00       10.48252  (06100508)                635475.00
4176050.00       10.42071  (06100508)
        635525.00   4176050.00       10.37213  (06100508)                635575.00
4176050.00       10.29188  (06100508)
        634825.00   4176100.00       10.83524  (06100508)                634875.00
4176100.00       10.83936  (06100508)
        634925.00   4176100.00       10.77963  (06100508)                634975.00
4176100.00       10.76697  (06100508)
        635025.00   4176100.00       10.77257  (06100508)                635075.00
4176100.00       10.74517  (06100508)
        635125.00   4176100.00       10.70535  (06100508)                635175.00
4176100.00       10.65476  (06100508)
        635225.00   4176100.00       10.63664  (06100508)                635275.00
4176100.00       10.60218  (06100508)
        635325.00   4176100.00       10.56339  (06100508)                635375.00
4176100.00       10.54180  (06100508)
 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                          ***        01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                         ***        15:43:26

                                    PAGE 227
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  OFFSITE2 ***
                                    INCLUDING SOURCE(S):     L0006345    , L0006346
, L0006347    , L0006348    , L0006349    ,
                L0006350    , L0006351    , L0006352    , L0006353    , L0006354
, L0006355    , L0006356    , L0006357    ,
                L0006358    , L0006359    , L0006360    , L0006361    , L0006362
, L0006363    , L0006364    , L0006365    ,
                L0006366    , L0006367    , L0006368    , L0006369    , L0006370
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, L0006371   , L0006372   , . . .   ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF HRA IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
635425.00	4176100.00	10.43069	(06100508)	635475.00	4176100.00	10.42105	(06100508)
635525.00	4176100.00	10.37555	(06100508)	635575.00	4176100.00	10.33194	(06100508)
634825.00	4176150.00	10.84440	(06100508)	634875.00	4176150.00	10.85817	(06100508)
634925.00	4176150.00	10.78763	(06100508)	634975.00	4176150.00	10.77938	(06100508)
635025.00	4176150.00	10.77842	(06100508)	635075.00	4176150.00	10.72246	(06100508)
635125.00	4176150.00	10.72191	(06100508)	635175.00	4176150.00	10.67410	(06100508)
635225.00	4176150.00	10.59054	(06100508)	635275.00	4176150.00	10.60556	(06100508)
635325.00	4176150.00	10.55073	(06100508)	635375.00	4176150.00	10.51633	(06100508)
635425.00	4176150.00	10.42073	(06100508)	635475.00	4176150.00	10.40636	(06100508)
635525.00	4176150.00	10.35840	(06100508)	635575.00	4176150.00	10.31638	(06100508)
634875.00	4176200.00	10.88966	(06100508)	634925.00	4176200.00	10.82055	(06100508)
634975.00	4176200.00	10.77728	(06100508)	635125.00	4176200.00	10.69006	(06100508)
635175.00	4176200.00	10.67795	(06100508)	635225.00	4176200.00	10.60351	(06100508)
635525.00	4176200.00	10.32886	(06100508)	635575.00	4176200.00	10.25277	(06100508)
634325.00	4176250.00	11.15531	(06100508)	634375.00	4176250.00	11.12167	(06100508)
634875.00	4176250.00	10.88290	(06100508)	634925.00	4176250.00	10.86370	(06100508)
634975.00	4176250.00	10.82913	(06100508)	635025.00	4176250.00	10.78564	(06100508)
635075.00	4176250.00	10.72995	(06100508)	635125.00	4176250.00	10.69962	(06100508)
635175.00	4176250.00	10.64477	(06100508)	635225.00	4176250.00	10.63673	(06100508)

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        635275.00   4176250.00       10.57261  (06100508)                635375.00
4176250.00       10.42798  (06100508)
        635425.00   4176250.00       10.38853  (06100508)                635525.00
4176250.00       10.29823  (06100508)
        635575.00   4176250.00       10.24179  (06100508)                634875.00
4176300.00       10.87014  (06100508)
        634925.00   4176300.00       10.84363  (06100508)                634975.00
4176300.00       10.81487  (06100508)
        635025.00   4176300.00       10.78306  (06100508)                635075.00
4176300.00       10.73777  (06100508)
        635125.00   4176300.00       10.70246  (06100508)                635175.00
4176300.00       10.62800  (06100508)
        635225.00   4176300.00       10.59699  (06100508)                635275.00
4176300.00       10.58663  (06100508)
        635375.00   4176300.00       10.40471  (06100508)                635425.00
4176300.00       10.35656  (06100508)
        635525.00   4176300.00       10.24059  (06100508)                635575.00
4176300.00       10.13197  (06100508)
        634875.00   4176350.00       10.85085  (06100508)                634925.00
4176350.00       10.82604  (06100508)
        634975.00   4176350.00       10.78469  (06100508)                635025.00
4176350.00       10.75114  (06100508)
        635075.00   4176350.00       10.69901  (06100508)                635125.00
4176350.00       10.65716  (06100508)
        635175.00   4176350.00       10.58486  (06100508)                635225.00
4176350.00       10.58076  (06100508)
        635275.00   4176350.00       10.52843  (06100508)                635375.00
4176350.00       10.35493  (06100508)
        635425.00   4176350.00       10.30196  (06100508)                635525.00
4176350.00       10.15560  (06100508)
        635575.00   4176350.00       10.04537  (06100508)                634875.00
4176400.00       10.84630  (06100508)
        634925.00   4176400.00       10.80805  (06100508)                634975.00
4176400.00       10.76340  (06100508)
        635025.00   4176400.00       10.71509  (06100508)                635075.00
4176400.00       10.66991  (06100508)
        635125.00   4176400.00       10.62559  (06100508)                635175.00
4176400.00       10.57994  (06100508)
        635225.00   4176400.00       10.53757  (06100508)                635275.00
4176400.00       10.49021  (06100508)
        635425.00   4176400.00       10.23653  (06100508)                635525.00
4176400.00       10.03526  (06100508)
 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                          ***        01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                         ***        15:43:26

                                   PAGE 228
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*
```

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: OFFSITE2 ***

INCLUDING SOURCE(S): L0006345 , L0006346 , L0006347 , L0006348 , L0006349 , L0006350 , L0006351 , L0006352 , L0006353 , L0006354 , L0006355 , L0006356 , L0006357 , L0006358 , L0006359 , L0006360 , L0006361 , L0006362 , L0006363 , L0006364 , L0006365 , L0006366 , L0006367 , L0006368 , L0006369 , L0006370 , L0006371 , L0006372 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF HRA IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
635575.00	4176400.00	9.97019	(06100508)	633650.00	4176200.00	11.63416	(06100508)
633700.00	4176200.00	11.56765	(06100508)	633850.00	4176200.00	11.40956	(06100508)
633850.00	4176250.00	11.46962	(06100508)	633950.00	4176250.00	11.37537	(06100508)
634350.00	4176250.00	11.15593	(06100508)	633750.00	4176300.00	11.56254	(06100508)
633950.00	4176300.00	11.40907	(06100508)	634000.00	4176300.00	11.36851	(06100508)
634050.00	4176300.00	11.28461	(06100508)	634050.00	4176350.00	11.33282	(06100508)
634050.00	4176400.00	11.35674	(06100508)	634000.00	4176450.00	11.40057	(06100508)
634050.00	4176450.00	11.37644	(06100508)	634200.00	4176600.00	11.26597	(06100508)
634100.00	4176650.00	11.33828	(06100508)	634150.00	4176650.00	11.31375	(06100508)
634200.00	4176650.00	11.23104	(06100508)	634200.00	4176850.00	10.91969	(06100508)
634200.00	4176900.00	10.74349	(06100508)	634250.00	4176900.00	10.63640	(06100508)
634300.00	4176900.00	10.50849	(06100508)	634400.00	4177000.00	9.54620	(06100508)
634450.00	4177000.00	9.33095	(06100508)	634500.00	4177000.00	9.16178	(06100508)
634550.00	4177000.00	8.99363	(06100508)	634400.00	4177050.00	9.09935	(06100508)
634450.00	4177050.00	8.84036	(06100508)	634500.00			

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4177050.00        8.71442  (06100508)
        634550.00   4177050.00        8.54444  (06100508)                633750.00
4173175.00       10.94225  (08031018)
        634450.00   4173325.00        8.39485  (04022018)                634450.00
4173375.00        8.40404  (04022018)
        634350.00   4173475.00        8.56668  (04022018)                634300.00
4173625.00        8.62490  (04022018)
        634300.00   4173675.00        8.58404  (04022018)                634350.00
4173675.00        8.50425  (04022018)
        634250.00   4173775.00        8.60324  (04022018)                633950.00
4173825.00        8.90601  (05011520)
        634050.00   4173825.00        8.81781  (04022018)                634100.00
4173825.00        8.76376  (04022018)
        634250.00   4173825.00        8.56864  (04022018)                634250.00
4173975.00        8.22636  (04022018)
        634150.00   4174125.00        7.65829  (04022018)                634200.00
4174125.00        7.67438  (04022018)
        634250.00   4174125.00        7.62832  (04022018)                634250.00
4174225.00        6.92099  (04022018)
        634350.00   4174225.00        6.72760  (06122122)                634400.00
4174225.00        6.65412  (05021018)
        634200.00   4174325.00        6.54961  (04022018)                634250.00
4174325.00        6.21294  (06122122)
        634200.00   4174375.00        6.45241  (06122122)                634250.00
4174425.00        6.23865  (06011617)
        634000.00   4174475.00        7.40439  (04022018)                634250.00
4174525.00        6.30356  (06011617)
        634100.00   4174575.00        6.50856  (06011617)                634150.00
4174575.00        6.44431  (06011617)
        634200.00   4174575.00        6.38432  (06011617)                634250.00
4174575.00        6.31626  (06011617)
        634250.00   4174625.00        6.32841  (06011617)                634250.00
4174675.00        6.33719  (06011617)
        634250.00   4174825.00        6.34732  (06011617)                634250.00
4174875.00        6.34360  (06011617)
        634200.00   4174925.00        6.42317  (06011617)                634250.00
4174925.00        6.33421  (06011617)
        631950.00   4173950.00       14.52402  (08102618)                631550.00
4174000.00       26.79783  (04102617)
        631550.00   4174050.00       28.13600  (04102617)                631750.00
4174250.00       22.88172  (05021804)
        632300.00   4174300.00       18.03278  (04022318)                632350.00
4174300.00       17.28735  (04022318)
        632300.00   4174350.00       18.10297  (04022318)                632350.00
4174350.00       17.33051  (04022318)
        631600.00   4174400.00       31.22394  (07020623)                631650.00
4174400.00       31.37404  (04122824)
        632000.00   4174400.00       24.56112  (05011817)                632000.00
4174450.00       24.47154  (05011817)
        631950.00   4174500.00       25.69518  (07011417)                632150.00
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4174950.00   20.20444 (04022318)

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: OFFSITE2 ***
                                    INCLUDING SOURCE(S):   L0006345   , L0006346
, L0006347   , L0006348   , L0006349   ,
                  L0006350   , L0006351   , L0006352   , L0006353   , L0006354
, L0006355   , L0006356   , L0006357   ,
                  L0006358   , L0006359   , L0006360   , L0006361   , L0006362
, L0006363   , L0006364   , L0006365   ,
                  L0006366   , L0006367   , L0006368   , L0006369   , L0006370
, L0006371   , L0006372   , . . .   ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF HRA   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        632200.00   4174950.00   19.28265 (04122822)

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: OFFSITE3 ***
                                    INCLUDING SOURCE(S):   L0006575   , L0006576
, L0006577   , L0006578   , L0006579   ,
                  L0006580   , L0006581   , L0006582   , L0006583   , L0006584
, L0006585   , L0006586   , L0006587   ,
                  L0006588   , L0006589   , L0006590   , L0006591   , L0006592
, L0006593   , L0006594   , L0006595   ,
                  L0006596   , L0006597   , L0006598   , L0006599   , L0006600
, L0006601   , L0006602   , . . .   ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF HRA IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
631050.00	4178050.00	20.53036	(07091007)	631150.00	4178250.00	19.83800	(07091007)
631250.00	4178250.00	19.64490	(07091007)	631350.00	4178250.00	19.14429	(07091007)
631450.00	4178250.00	17.84841	(07091007)	631550.00	4178250.00	15.46608	(07091007)
631650.00	4178250.00	12.59409	(04102908)	631750.00	4178250.00	12.48502	(04102908)
631150.00	4178350.00	19.61500	(07091007)	631450.00	4178350.00	17.98674	(07091007)
631550.00	4178350.00	15.92165	(07091007)	631650.00	4178350.00	12.94121	(07091007)
631750.00	4178350.00	12.42302	(04102908)	630650.00	4178450.00	19.33749	(07091007)
630850.00	4178450.00	19.43442	(07091007)	631050.00	4178450.00	19.41131	(07091007)
631150.00	4178450.00	19.36205	(07091007)	631250.00	4178450.00	19.28904	(07091007)
631550.00	4178450.00	16.27263	(07091007)	631650.00	4178450.00	13.56915	(07091007)
631750.00	4178450.00	12.28543	(04102908)	631850.00	4178450.00	12.16583	(04102908)
631950.00	4178450.00	11.86316	(04102908)	632050.00	4178450.00	11.29586	(04102908)
632150.00	4178450.00	10.35035	(04102908)	630550.00	4178550.00	18.55265	(07091007)
630650.00	4178550.00	18.95184	(07091007)	630750.00	4178550.00	19.13940	(07091007)
630950.00	4178550.00	19.15280	(07091007)	631050.00	4178550.00	19.19338	(07091007)
631250.00	4178550.00	19.10054	(07091007)	631350.00	4178550.00	18.82186	(07091007)
631450.00	4178550.00	18.12182	(07091007)	631550.00	4178550.00	16.58534	(07091007)
631650.00	4178550.00	14.16832	(07091007)	631750.00	4178550.00	12.19813	(04102908)
631850.00	4178550.00	12.11077	(04102908)	631950.00	4178550.00	11.90014	(04102908)
632050.00	4178550.00	11.49372	(04102908)	632150.00			

4178550.00 10.73692 (04102908)
630450.00 4178650.00 16.93800 (07091007) 630550.00
4178650.00 18.08534 (07091007)
630650.00 4178650.00 18.58440 (07091007) 630750.00
4178650.00 18.84505 (07091007)
630850.00 4178650.00 18.92149 (07091007) 630950.00
4178650.00 18.95454 (07091007)
631050.00 4178650.00 18.99523 (07091007) 631150.00
4178650.00 18.97780 (07091007)
631250.00 4178650.00 18.91901 (07091007) 631350.00
4178650.00 18.67806 (07091007)
631450.00 4178650.00 18.07371 (07091007) 631550.00
4178650.00 16.81930 (07091007)
631650.00 4178650.00 14.70231 (07091007) 631750.00
4178650.00 12.07764 (04102908)
631850.00 4178650.00 12.05874 (04102908) 631950.00
4178650.00 11.90044 (04102908)
632050.00 4178650.00 11.60204 (04102908) 632150.00
4178650.00 11.03747 (04102908)
630350.00 4178750.00 14.17423 (07091007) 630450.00
4178750.00 16.21365 (07091007)
630550.00 4178750.00 17.56226 (07091007) 630650.00
4178750.00 18.23057 (07091007)
630750.00 4178750.00 18.56358 (07091007) 630850.00
4178750.00 18.70893 (07091007)
630950.00 4178750.00 18.76328 (07091007) 631050.00
4178750.00 18.77961 (07091007)
631150.00 4178750.00 18.79364 (07091007) 631250.00
4178750.00 18.75387 (07091007)
631350.00 4178750.00 18.55024 (07091007) 631450.00
4178750.00 18.04364 (07091007)
631550.00 4178750.00 16.97874 (07091007) 631650.00
4178750.00 15.15853 (07091007)
631750.00 4178750.00 12.50903 (07091007) 631850.00
4178750.00 11.95869 (04102908)
631950.00 4178750.00 11.88081 (04102908) 632050.00
4178750.00 11.65034 (04102908)
632150.00 4178750.00 11.22182 (04102908) 630250.00
4178850.00 10.49774 (07091007)
630350.00 4178850.00 13.24853 (07091007) 630450.00
4178850.00 15.46507 (07091007)

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION

VALUES FOR SOURCE GROUP: OFFSITE3 ***
                                INCLUDING SOURCE(S):   L0006575   , L0006576
, L0006577   , L0006578   , L0006579   ,
                L0006580   , L0006581   , L0006582   , L0006583   , L0006584
, L0006585   , L0006586   , L0006587   ,
                L0006588   , L0006589   , L0006590   , L0006591   , L0006592
, L0006593   , L0006594   , L0006595   ,
                L0006596   , L0006597   , L0006598   , L0006599   , L0006600
, L0006601   , L0006602   , . . .   ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF HRA   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        630550.00   4178850.00   16.99731 (07091007)   630650.00
4178850.00   17.80734 (07091007)
        630750.00   4178850.00   18.29918 (07091007)   630850.00
4178850.00   18.49375 (07091007)
        630950.00   4178850.00   18.58133 (07091007)   631050.00
4178850.00   18.58997 (07091007)
        631150.00   4178850.00   18.58755 (07091007)   631250.00
4178850.00   18.55151 (07091007)
        631350.00   4178850.00   18.40415 (07091007)   631450.00
4178850.00   17.98622 (07091007)
        631550.00   4178850.00   17.09220 (07091007)   631650.00
4178850.00   15.48851 (07091007)
        631750.00   4178850.00   13.10978 (07091007)   631850.00
4178850.00   11.85334 (04102908)
        631950.00   4178850.00   11.82374 (04102908)   632050.00
4178850.00   11.67323 (04102908)
        632150.00   4178850.00   11.35180 (04102908)   630250.00
4178950.00   9.57480 (07091007)
        630350.00   4178950.00   12.31663 (07091007)   630450.00
4178950.00   14.63569 (07091007)
        630550.00   4178950.00   16.37978 (07091007)   630650.00
4178950.00   17.38767 (07091007)
        630750.00   4178950.00   17.98907 (07091007)   630850.00
4178950.00   18.24631 (07091007)
        630950.00   4178950.00   18.40482 (07091007)   631050.00
4178950.00   18.41048 (07091007)
        631150.00   4178950.00   18.41544 (07091007)   631250.00
4178950.00   18.38584 (07091007)
        631350.00   4178950.00   18.28153 (07091007)   631450.00
4178950.00   17.91702 (07091007)

631550.00 4178950.00 17.16550 (07091007) 631650.00
4178950.00 15.79837 (07091007)
631750.00 4178950.00 13.64492 (07091007) 631850.00
4178950.00 11.69890 (04102908)
631950.00 4178950.00 11.73463 (04102908) 632050.00
4178950.00 11.64497 (04102908)
632150.00 4178950.00 11.43017 (04102908) 629950.00
4179050.00 8.47374 (04011809)
630250.00 4179050.00 8.70342 (07091007) 630350.00
4179050.00 11.38687 (07091007)
630450.00 4179050.00 13.82869 (07091007) 630550.00
4179050.00 15.70059 (07091007)
630650.00 4179050.00 16.88978 (07091007) 630750.00
4179050.00 17.61543 (07091007)
630850.00 4179050.00 17.99524 (07091007) 630950.00
4179050.00 18.19798 (07091007)
631050.00 4179050.00 18.25163 (07091007) 631150.00
4179050.00 18.25524 (07091007)
631250.00 4179050.00 18.22440 (07091007) 631350.00
4179050.00 18.14312 (07091007)
631450.00 4179050.00 17.87663 (07091007) 631550.00
4179050.00 17.19082 (07091007)
631650.00 4179050.00 15.99201 (07091007) 631750.00
4179050.00 14.09729 (07091007)
631850.00 4179050.00 11.58458 (07091007) 631950.00
4179050.00 11.62497 (04102908)
632050.00 4179050.00 11.58762 (04102908) 632150.00
4179050.00 11.44743 (04102908)
629850.00 4179150.00 8.41998 (04011809) 629950.00
4179150.00 8.39729 (04011809)
630150.00 4179150.00 8.14488 (04011809) 630250.00
4179150.00 7.87022 (07091007)
630350.00 4179150.00 10.48047 (07091007) 630450.00
4179150.00 12.95503 (07091007)
630550.00 4179150.00 14.98769 (07091007) 630650.00
4179150.00 16.41963 (07091007)
630750.00 4179150.00 17.25670 (07091007) 630850.00
4179150.00 17.71100 (07091007)
630950.00 4179150.00 17.94439 (07091007) 631050.00
4179150.00 18.05460 (07091007)
631150.00 4179150.00 18.09364 (07091007) 631250.00
4179150.00 18.07722 (07091007)
631350.00 4179150.00 17.99039 (07091007) 631450.00
4179150.00 17.79940 (07091007)
631550.00 4179150.00 17.22318 (07091007) 631650.00
4179150.00 16.17053 (07091007)
631750.00 4179150.00 14.52172 (07091007) 631850.00
4179150.00 12.22779 (07091007)
631950.00 4179150.00 11.41902 (04102908) 632050.00
4179150.00 11.50947 (04102908)

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: OFFSITE3 ***
INCLUDING SOURCE(S): L0006575 , L0006576 , L0006577 , L0006578 , L0006579 ,
L0006580 , L0006581 , L0006582 , L0006583 , L0006584 , L0006585 , L0006586 , L0006587 ,
L0006588 , L0006589 , L0006590 , L0006591 , L0006592 , L0006593 , L0006594 , L0006595 ,
L0006596 , L0006597 , L0006598 , L0006599 , L0006600 , L0006601 , L0006602 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF HRA IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
632150.00	4179150.00	11.42126	(04102908)	630850.00	4179250.00	17.44339	(07091007)
630950.00	4179250.00	17.72791	(07091007)	631050.00	4177625.00	21.79002	(07091007)
631100.00	4177725.00	21.46310	(07091007)	631100.00	4177825.00	21.18160	(07091007)
631350.00	4178225.00	19.17135	(07091007)	631400.00	4178225.00	18.61156	(07091007)
631450.00	4178225.00	17.80987	(07091007)	631500.00	4178225.00	16.72017	(07091007)
631100.00	4178275.00	19.80640	(07091007)	631150.00	4178275.00	19.80092	(07091007)
631200.00	4178275.00	19.72919	(07091007)	631250.00	4178275.00	19.63022	(07091007)
631300.00	4178275.00	19.44719	(07091007)	631350.00	4178275.00	19.13084	(07091007)
631400.00	4178275.00	18.64286	(07091007)	631450.00	4178275.00	17.91505	(07091007)
631500.00	4178275.00	16.90946	(07091007)	630950.00	4178325.00	19.75849	(07091007)
631100.00	4178325.00	19.70424	(07091007)	631150.00			

4178325.00 19.67379 (07091007)
631200.00 4178325.00 19.66704 (07091007) 631250.00
4178325.00 19.55485 (07091007)
631300.00 4178325.00 19.42064 (07091007) 631400.00
4178325.00 18.62607 (07091007)
631450.00 4178325.00 17.98374 (07091007) 631500.00
4178325.00 17.05024 (07091007)
630950.00 4178375.00 19.63061 (07091007) 631200.00
4178375.00 19.51139 (07091007)
631300.00 4178375.00 19.29221 (07091007) 631400.00
4178375.00 18.62666 (07091007)
631450.00 4178375.00 17.99350 (07091007) 631500.00
4178375.00 17.15059 (07091007)
630800.00 4178425.00 19.49982 (07091007) 630850.00
4178425.00 19.50423 (07091007)
631050.00 4178425.00 19.47217 (07091007) 631200.00
4178425.00 19.40533 (07091007)
631250.00 4178425.00 19.35220 (07091007) 631300.00
4178425.00 19.20904 (07091007)
630650.00 4178475.00 19.24443 (07091007) 630800.00
4178475.00 19.38068 (07091007)
630850.00 4178475.00 19.35812 (07091007) 631050.00
4178475.00 19.35420 (07091007)
631200.00 4178475.00 19.31105 (07091007) 631250.00
4178475.00 19.24677 (07091007)
631300.00 4178475.00 19.11769 (07091007) 631450.00
4178475.00 18.05108 (07091007)
631500.00 4178475.00 17.31732 (07091007) 630550.00
4178525.00 18.66852 (07091007)
630600.00 4178525.00 18.91824 (07091007) 630650.00
4178525.00 19.00702 (07091007)
630700.00 4178525.00 19.14573 (07091007) 630750.00
4178525.00 19.21237 (07091007)
630950.00 4178525.00 19.20536 (07091007) 631050.00
4178525.00 19.25177 (07091007)
631200.00 4178525.00 19.20993 (07091007) 631250.00
4178525.00 19.15040 (07091007)
631300.00 4178525.00 19.03284 (07091007) 631350.00
4178525.00 18.84960 (07091007)
631400.00 4178525.00 18.53836 (07091007) 631450.00
4178525.00 18.11300 (07091007)
631500.00 4178525.00 17.40916 (07091007) 630500.00
4178575.00 18.03156 (07091007)
630550.00 4178575.00 18.44317 (07091007) 630600.00
4178575.00 18.71798 (07091007)
630650.00 4178575.00 18.81152 (07091007) 630700.00
4178575.00 18.97171 (07091007)
630750.00 4178575.00 19.08158 (07091007) 630800.00
4178575.00 19.07551 (07091007)
630850.00 4178575.00 19.08370 (07091007) 631000.00

4178575.00   19.14411 (07091007)
        631050.00   4178575.00   19.14440 (07091007)   631200.00
4178575.00   19.11229 (07091007)
        631250.00   4178575.00   19.05191 (07091007)   631300.00
4178575.00   18.95436 (07091007)
        631350.00   4178575.00   18.77595 (07091007)   631400.00
4178575.00   18.51772 (07091007)
        631450.00   4178575.00   18.08113 (07091007)   631500.00
4178575.00   17.47836 (07091007)

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: OFFSITE3 ***
                                   INCLUDING SOURCE(S):   L0006575   , L0006576
, L0006577   , L0006578   , L0006579   ,
                  L0006580   , L0006581   , L0006582   , L0006583   , L0006584
, L0006585   , L0006586   , L0006587   ,
                  L0006588   , L0006589   , L0006590   , L0006591   , L0006592
, L0006593   , L0006594   , L0006595   ,
                  L0006596   , L0006597   , L0006598   , L0006599   , L0006600
, L0006601   , L0006602   , . . .   ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF HRA   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        630500.00   4178625.00   17.71728 (07091007)   630550.00
4178625.00   18.20451 (07091007)
        630600.00   4178625.00   18.50472 (07091007)   630650.00
4178625.00   18.64704 (07091007)
        630700.00   4178625.00   18.82252 (07091007)   630750.00
4178625.00   18.91528 (07091007)
        630800.00   4178625.00   18.98487 (07091007)   630850.00
4178625.00   19.01126 (07091007)
        631000.00   4178625.00   19.03154 (07091007)   631050.00
4178625.00   19.04101 (07091007)
        631100.00   4178625.00   19.02948 (07091007)   631150.00
4178625.00   19.00347 (07091007)

631200.00 4178625.00 19.00258 (07091007) 631250.00
4178625.00 18.96216 (07091007)
631300.00 4178625.00 18.86577 (07091007) 631350.00
4178625.00 18.71849 (07091007)
631400.00 4178625.00 18.46609 (07091007) 631450.00
4178625.00 18.08615 (07091007)
631500.00 4178625.00 17.52461 (07091007) 631100.00
4175700.00 53.43381 (07010217)
631150.00 4175700.00 53.37780 (07010217) 631200.00
4175700.00 53.40471 (07010217)
631250.00 4175700.00 53.31972 (07010217) 631100.00
4175750.00 62.22563 (07010217)
631150.00 4175750.00 61.79438 (07010217) 629400.00
4179050.00 8.44209 (08011009)
629450.00 4179050.00 8.43958 (08011009) 629500.00
4179050.00 8.42909 (08011009)
629400.00 4179100.00 8.32770 (08011009) 629450.00
4179100.00 8.32882 (08011009)
629400.00 4179150.00 8.21376 (08011009) 629500.00
4179150.00 8.20760 (08011009)
629550.00 4179150.00 8.26410 (04011809) 629600.00
4179150.00 8.34518 (04011809)
629650.00 4179150.00 8.39818 (04011809) 629700.00
4179150.00 8.42036 (04011809)
629800.00 4179200.00 8.40753 (04011809) 629400.00
4179300.00 7.88893 (08011009)
629400.00 4179350.00 7.78823 (08011009) 634375.00
4175350.00 13.86914 (06100508)
634425.00 4175350.00 13.29586 (06100508) 635425.00
4175350.00 8.98986 (05122420)
635425.00 4175400.00 8.99600 (05122420) 635475.00
4175400.00 8.86406 (05122420)
634325.00 4175450.00 12.33257 (05122420) 634475.00
4175450.00 11.87924 (05122420)
634525.00 4175450.00 11.71858 (05122420) 634525.00
4175500.00 11.82650 (05122420)
634325.00 4175550.00 12.68206 (07012218) 634525.00
4175550.00 11.90788 (07012218)
634575.00 4175550.00 11.71615 (07012218) 634775.00
4175550.00 10.96388 (07012218)
634825.00 4175550.00 10.77872 (07012218) 634625.00
4175600.00 11.53239 (05020819)
634675.00 4175600.00 11.34776 (05020819) 634725.00
4175600.00 11.18728 (05020819)
634775.00 4175600.00 11.00727 (05020819) 634825.00
4175600.00 10.84858 (05020819)
634875.00 4175600.00 10.67854 (05020819) 634925.00
4175600.00 10.51730 (05020819)
635375.00 4175600.00 9.18198 (05020819) 634275.00
4175650.00 13.07725 (05020819)

```
        634325.00   4175650.00       12.85157  (05020819)                634575.00
4175650.00       11.75298  (05020819)
        634625.00   4175650.00       11.53568  (05020819)                634675.00
4175650.00       11.34053  (05020819)
        634725.00   4175650.00       11.14408  (05020819)                634775.00
4175650.00       10.93522  (05020819)
        634825.00   4175650.00       10.75844  (05020819)                634875.00
4175650.00       10.56606  (05020819)
        634925.00   4175650.00       10.37008  (05020819)                634975.00
4175650.00       10.20018  (05020819)
        635025.00   4175650.00       10.00996  (05020819)                635325.00
4175650.00        9.08293  (07021102)
        635375.00   4175650.00        8.98809  (07021102)                634475.00
4175700.00       11.91435  (05020819)
        634525.00   4175700.00       11.66811  (05020819)                634575.00
4175700.00       11.42916  (05020819)
        634625.00   4175700.00       11.23250  (07021102)                634675.00
4175700.00       11.08523  (07021102)
* *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                         ***        01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                      ***        15:43:26

                                 PAGE 234
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  OFFSITE3 ***
                                 INCLUDING SOURCE(S):     L0006575    , L0006576
, L0006577    , L0006578    , L0006579    ,
                L0006580    , L0006581    , L0006582    , L0006583    , L0006584
, L0006585    , L0006586    , L0006587    ,
                L0006588    , L0006589    , L0006590    , L0006591    , L0006592
, L0006593    , L0006594    , L0006595    ,
                L0006596    , L0006597    , L0006598    , L0006599    , L0006600
, L0006601    , L0006602    ,  . . .      ,

                                            *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                         ** CONC OF HRA      IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - -
        634725.00   4175700.00       10.96903  (07021102)                634775.00
4175700.00       10.81840  (07021102)
        634825.00   4175700.00       10.65561  (07021102)                634875.00
```

4175700.00 10.53223 (07021102)
634925.00 4175700.00 10.37119 (07021102) 634975.00
4175700.00 10.24655 (07021102)
635025.00 4175700.00 10.09441 (07021102) 635075.00
4175700.00 9.97688 (07021102)
635125.00 4175700.00 9.84776 (07021102) 634425.00
4175750.00 12.38455 (07021102)
634575.00 4175750.00 11.80889 (07021102) 634625.00
4175750.00 11.61934 (07021102)
634675.00 4175750.00 11.43393 (07021102) 634725.00
4175750.00 11.27415 (07021102)
634775.00 4175750.00 11.09389 (07021102) 634825.00
4175750.00 10.92497 (07021102)
634875.00 4175750.00 10.74147 (07021102) 634925.00
4175750.00 10.58115 (07021102)
634975.00 4175750.00 10.42087 (07021102) 635025.00
4175750.00 10.25535 (07021102)
635075.00 4175750.00 10.11626 (07021102) 635125.00
4175750.00 9.97072 (07021102)
635175.00 4175750.00 9.80502 (07021102) 635225.00
4175750.00 9.68501 (07021102)
634325.00 4175800.00 12.95427 (07021102) 634375.00
4175800.00 12.72043 (07021102)
634425.00 4175800.00 12.47143 (07021102) 634475.00
4175800.00 12.26295 (07021102)
634525.00 4175800.00 12.04446 (07021102) 634575.00
4175800.00 11.81219 (07021102)
634625.00 4175800.00 11.64102 (07021102) 634675.00
4175800.00 11.41203 (07021102)
634725.00 4175800.00 11.23579 (07021102) 634775.00
4175800.00 11.03238 (07021102)
634825.00 4175800.00 10.86739 (07021102) 634875.00
4175800.00 10.65921 (07021102)
634925.00 4175800.00 10.49533 (07021102) 634975.00
4175800.00 10.32174 (07021102)
635025.00 4175800.00 10.14763 (07021102) 635075.00
4175800.00 9.97368 (07021102)
635125.00 4175800.00 9.81341 (07021102) 635175.00
4175800.00 9.67173 (07021102)
635225.00 4175800.00 9.51606 (07021102) 635275.00
4175800.00 9.37692 (07021102)
635325.00 4175800.00 9.21683 (07021102) 634225.00
4175850.00 13.13728 (07021102)
634325.00 4175850.00 12.65097 (07021102) 634375.00
4175850.00 12.38693 (07021102)
634425.00 4175850.00 12.14972 (07021102) 634475.00
4175850.00 11.92399 (07021102)
634525.00 4175850.00 11.69595 (07021102) 634575.00
4175850.00 11.46636 (07021102)
634625.00 4175850.00 11.32539 (06012822) 634675.00

4175850.00   11.13122 (06012822)
        634725.00   4175850.00   10.95384 (06012822)   634775.00
4175850.00   10.82367 (06012822)
        634825.00   4175850.00   10.65490 (06012822)   634875.00
4175850.00   10.49184 (06012822)
        634925.00   4175850.00   10.32730 (06012822)   634975.00
4175850.00   10.18311 (06012822)
        635025.00   4175850.00   10.02920 (06012822)   635075.00
4175850.00   9.89749 (06012822)
        635125.00   4175850.00   9.76205 (06012822)   635175.00
4175850.00   9.63098 (06012822)
        635225.00   4175850.00   9.48750 (06012822)   635275.00
4175850.00   9.37482 (06012822)
        635325.00   4175850.00   9.24199 (06012822)   635375.00
4175850.00   9.10053 (06012822)
        635425.00   4175850.00   8.97634 (06012822)   634225.00
4175900.00   13.35375 (06012822)
        634325.00   4175900.00   12.92930 (06012822)   634375.00
4175900.00   12.68498 (06012822)
        634425.00   4175900.00   12.44033 (06012822)   634475.00
4175900.00   12.23285 (06012822)
        634525.00   4175900.00   12.02917 (06012822)   634575.00
4175900.00   11.83024 (06012822)
        634625.00   4175900.00   11.65259 (06012822)   634675.00
4175900.00   11.49131 (06012822)
        634725.00   4175900.00   11.28967 (06012822)   634775.00
4175900.00   11.12603 (06012822)

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: OFFSITE3 ***
                                   INCLUDING SOURCE(S):   L0006575   , L0006576
, L0006577   , L0006578   , L0006579   ,
                L0006580   , L0006581   , L0006582   , L0006583   , L0006584
, L0006585   , L0006586   , L0006587   ,
                L0006588   , L0006589   , L0006590   , L0006591   , L0006592
, L0006593   , L0006594   , L0006595   ,
                L0006596   , L0006597   , L0006598   , L0006599   , L0006600
, L0006601   , L0006602   , . . .   ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                             ** CONC OF HRA   IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
634875.00	4175900.00	10.76808	(06012822)	634925.00	4175900.00	10.58704	(06012822)
634975.00	4175900.00	10.43605	(06012822)	635025.00	4175900.00	10.27508	(06012822)
635075.00	4175900.00	10.12771	(06012822)	635125.00	4175900.00	9.96382	(06012822)
635175.00	4175900.00	9.82334	(06012822)	635225.00	4175900.00	9.68277	(06012822)
635275.00	4175900.00	9.53584	(06012822)	635325.00	4175900.00	9.41646	(06012822)
635375.00	4175900.00	9.24997	(06012822)	635425.00	4175900.00	9.12329	(06012822)
635475.00	4175900.00	8.99138	(06012822)	635525.00	4175900.00	8.86810	(06012822)
634325.00	4175950.00	12.94437	(06012822)	634375.00	4175950.00	12.71822	(06012822)
634425.00	4175950.00	12.47900	(06012822)	634475.00	4175950.00	12.26538	(06012822)
634525.00	4175950.00	12.04580	(06012822)	634575.00	4175950.00	11.83118	(06012822)
634625.00	4175950.00	11.65514	(06012822)	634675.00	4175950.00	11.47738	(06012822)
634875.00	4175950.00	10.71971	(06012822)	634925.00	4175950.00	10.54371	(06012822)
634975.00	4175950.00	10.39179	(06012822)	635025.00	4175950.00	10.22286	(06012822)
635075.00	4175950.00	10.06504	(06012822)	635125.00	4175950.00	9.91668	(06012822)
635175.00	4175950.00	9.77187	(06012822)	635225.00	4175950.00	9.60844	(06012822)
635275.00	4175950.00	9.48732	(06012822)	635325.00	4175950.00	9.32358	(06012822)
635375.00	4175950.00	9.19242	(06012822)	635425.00	4175950.00	9.05708	(06012822)
635475.00	4175950.00	8.92244	(06012822)	635525.00	4175950.00	8.77551	(06012822)
635575.00	4175950.00	8.65647	(06012822)	634725.00	4176000.00	11.34285	(04122902)
634925.00	4176000.00	10.59495	(04122902)	634975.00	4176000.00	10.45617	(04122902)
635025.00	4176000.00	10.29682	(04122902)	635075.00	4176000.00	10.12280	(04122902)
635125.00	4176000.00	9.97811	(04122902)	635175.00	4176000.00	9.82361	(04122902)

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        635225.00   4176000.00        9.67859  (04122902)                635275.00
4176000.00        9.55147  (04122902)
        635325.00   4176000.00        9.39386  (04122902)                635375.00
4176000.00        9.26392  (04122902)
        635425.00   4176000.00        9.11749  (04122902)                635475.00
4176000.00        8.98644  (04122902)
        635525.00   4176000.00        8.85755  (04122902)                635575.00
4176000.00        8.71958  (04122902)
        634825.00   4176050.00       10.75409  (04122902)                634875.00
4176050.00       10.59505  (04122902)
        634925.00   4176050.00       10.44045  (04122902)                634975.00
4176050.00       10.28563  (04122902)
        635025.00   4176050.00       10.12363  (04122902)                635075.00
4176050.00        9.96979  (04122902)
        635125.00   4176050.00        9.83316  (04122902)                635175.00
4176050.00        9.68526  (04122902)
        635225.00   4176050.00        9.54475  (04122902)                635275.00
4176050.00        9.40463  (04122902)
        635325.00   4176050.00        9.26400  (04122902)                635375.00
4176050.00        9.11817  (04122902)
        635425.00   4176050.00        9.00043  (04122902)                635475.00
4176050.00        8.86443  (04122902)
        635525.00   4176050.00        8.73639  (04122902)                635575.00
4176050.00        8.59975  (04122902)
        634825.00   4176100.00       10.26594  (04122902)                634875.00
4176100.00       10.12749  (04122902)
        634925.00   4176100.00        9.96623  (04122902)                634975.00
4176100.00        9.82782  (04122902)
        635025.00   4176100.00        9.69965  (04122902)                635075.00
4176100.00        9.56177  (04122902)
        635125.00   4176100.00        9.42253  (04122902)                635175.00
4176100.00        9.28257  (04122902)
        635225.00   4176100.00        9.15784  (04122902)                635275.00
4176100.00        9.03013  (04122902)
        635325.00   4176100.00        8.90390  (04122902)                635375.00
4176100.00        8.78667  (04122902)
 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                          ***        01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                       ***        15:43:26

                                   PAGE 236
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  OFFSITE3 ***
                                   INCLUDING SOURCE(S):     L0006575    , L0006576
, L0006577    , L0006578    , L0006579    ,
                 L0006580    , L0006581    , L0006582    , L0006583    , L0006584
, L0006585    , L0006586    , L0006587    ,
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                 L0006588    , L0006589    , L0006590    , L0006591    , L0006592
, L0006593    , L0006594    , L0006595    ,
                 L0006596    , L0006597    , L0006598    , L0006599    , L0006600
, L0006601    , L0006602    ,  . . .      ,

                                              *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                         ** CONC OF HRA      IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        635425.00   4176100.00        8.64068  (04122902)               635475.00
4176100.00        8.53372  (04122902)
        635525.00   4176100.00        8.41674  (04122902)               635575.00
4176100.00        8.30318  (04122902)
        634825.00   4176150.00        9.84784  (06011619)               634875.00
4176150.00        9.71311  (06011619)
        634925.00   4176150.00        9.55215  (06011619)               634975.00
4176150.00        9.41647  (06011619)
        635025.00   4176150.00        9.28623  (06011619)               635075.00
4176150.00        9.14105  (06011619)
        635125.00   4176150.00        9.01712  (06011619)               635175.00
4176150.00        8.88120  (06011619)
        635225.00   4176150.00        8.73714  (06011619)               635275.00
4176150.00        8.62722  (06011619)
        635325.00   4176150.00        8.49849  (06011619)               635375.00
4176150.00        8.37894  (06011619)
        635425.00   4176150.00        8.24370  (06011619)               635475.00
4176150.00        8.13610  (06011619)
        635525.00   4176150.00        8.02103  (06011619)               635575.00
4176150.00        7.91046  (06011619)
        634875.00   4176200.00        9.85884  (07012309)               634925.00
4176200.00        9.67022  (07012309)
        634975.00   4176200.00        9.49842  (07012309)               635125.00
4176200.00        9.02608  (07012309)
        635175.00   4176200.00        8.88358  (07012309)               635225.00
4176200.00        8.71913  (07011518)
        635525.00   4176200.00        7.92007  (07011518)               635575.00
4176200.00        7.78933  (07011518)
        634325.00   4176250.00       13.28650  (07012309)               634375.00
4176250.00       13.07249  (07012309)
        634875.00   4176250.00       11.16761  (07012309)               634925.00
4176250.00       10.99739  (07012309)
        634975.00   4176250.00       10.82206  (07012309)               635025.00
4176250.00       10.64537  (07012309)
        635075.00   4176250.00       10.46576  (07012309)               635125.00
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4176250.00       10.30313  (07012309)
        635175.00   4176250.00       10.13116  (07012309)                635225.00
4176250.00        9.98679  (07012309)
        635275.00   4176250.00        9.81717  (07012309)                635375.00
4176250.00        9.48076  (07012309)
        635425.00   4176250.00        9.33439  (07012309)                635525.00
4176250.00        9.04626  (07012309)
        635575.00   4176250.00        8.90188  (07012309)                634875.00
4176300.00       12.18190  (07012309)
        634925.00   4176300.00       12.01636  (07012309)                634975.00
4176300.00       11.85177  (07012309)
        635025.00   4176300.00       11.68782  (07012309)                635075.00
4176300.00       11.51860  (07012309)
        635125.00   4176300.00       11.35786  (07012309)                635175.00
4176300.00       11.17763  (07012309)
        635225.00   4176300.00       11.02503  (07012309)                635275.00
4176300.00       10.88665  (07012309)
        635375.00   4176300.00       10.52967  (07012309)                635425.00
4176300.00       10.37966  (07012309)
        635525.00   4176300.00       10.07835  (07012309)                635575.00
4176300.00        9.90531  (07012309)
        634875.00   4176350.00       12.80195  (07012309)                634925.00
4176350.00       12.66234  (07012309)
        634975.00   4176350.00       12.51325  (07012309)                635025.00
4176350.00       12.37013  (07012309)
        635075.00   4176350.00       12.21689  (07012309)                635125.00
4176350.00       12.07149  (07012309)
        635175.00   4176350.00       11.90933  (07012309)                635225.00
4176350.00       11.79009  (07012309)
        635275.00   4176350.00       11.64375  (07012309)                635375.00
4176350.00       11.31696  (07012309)
        635425.00   4176350.00       11.17712  (07012309)                635525.00
4176350.00       10.88113  (07012309)
        635575.00   4176350.00       10.71542  (07012309)                634875.00
4176400.00       12.98242  (07012309)
        634925.00   4176400.00       12.87361  (07012309)                634975.00
4176400.00       12.76002  (07012309)
        635025.00   4176400.00       12.64368  (07012309)                635075.00
4176400.00       12.52912  (07012309)
        635125.00   4176400.00       12.41513  (07012309)                635175.00
4176400.00       12.30057  (07012309)
        635225.00   4176400.00       12.18848  (07012309)                635275.00
4176400.00       12.07398  (07012309)
        635425.00   4176400.00       11.66850  (07012309)                635525.00
4176400.00       11.38525  (07012309)
 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                          ***        01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                       ***        15:43:26
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: OFFSITE3 ***
INCLUDING SOURCE(S): L0006575 , L0006576 , L0006577 , L0006578 , L0006579 ,
L0006580 , L0006581 , L0006582 , L0006583 , L0006584 , L0006585 , L0006586 , L0006587 ,
L0006588 , L0006589 , L0006590 , L0006591 , L0006592 , L0006593 , L0006594 , L0006595 ,
L0006596 , L0006597 , L0006598 , L0006599 , L0006600 , L0006601 , L0006602 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF HRA IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
635575.00	4176400.00	11.26797	(07012309)	633650.00	4176200.00	16.43362	(06121322)
633700.00	4176200.00	15.97603	(06121322)	633850.00	4176200.00	14.72147	(06121322)
633850.00	4176250.00	15.71893	(06121322)	633950.00	4176250.00	14.98308	(06121322)
634350.00	4176250.00	13.19045	(07012309)	633750.00	4176300.00	16.67563	(06121322)
633950.00	4176300.00	15.52197	(07012309)	634000.00	4176300.00	15.33186	(07012309)
634050.00	4176300.00	15.10864	(07012309)	634050.00	4176350.00	15.05449	(07012309)
634050.00	4176400.00	14.39889	(07011318)	634000.00	4176450.00	14.35096	(07021221)
634050.00	4176450.00	14.01129	(07021221)	634200.00	4176600.00	13.42241	(04121118)
634100.00	4176650.00	13.73810	(06011620)	634150.00	4176650.00	13.50233	(06011620)
634200.00	4176650.00	13.22358	(06011620)	634200.00	4176850.00	12.66190	(04021505)
634200.00	4176900.00	12.25250	(06020208)	634250.00	4176900.00	12.06186	(04021505)
634300.00	4176900.00	11.98198	(04021505)	634400.00	4177000.00	11.56412	(06020208)
634450.00	4177000.00	11.34505	(06020208)	634500.00	4177000.00	11.14267	(06020208)

634550.00 4177000.00 10.92924 (06020208) 634400.00
4177050.00 11.38032 (06020208)
634450.00 4177050.00 11.22656 (06020208) 634500.00
4177050.00 11.14476 (06020208)
634550.00 4177050.00 11.01687 (06020208) 633750.00
4173175.00 9.52029 (08030618)
634450.00 4173325.00 7.38006 (04021501) 634450.00
4173375.00 7.42221 (04021501)
634350.00 4173475.00 7.60842 (04021501) 634300.00
4173625.00 8.03121 (05020801)
634300.00 4173675.00 8.22923 (06012018) 634350.00
4173675.00 8.27388 (06012018)
634250.00 4173775.00 8.69259 (06012018) 633950.00
4173825.00 8.81794 (05020801)
634050.00 4173825.00 8.86098 (06012018) 634100.00
4173825.00 8.90213 (06012018)
634250.00 4173825.00 8.82952 (06012018) 634250.00
4173975.00 9.06473 (08022005)
634150.00 4174125.00 9.70314 (04022221) 634200.00
4174125.00 9.61850 (04022221)
634250.00 4174125.00 9.50016 (04022221) 634250.00
4174225.00 9.60973 (06022418)
634350.00 4174225.00 9.44971 (06022418) 634400.00
4174225.00 9.32070 (06022418)
634200.00 4174325.00 9.86103 (06022418) 634250.00
4174325.00 9.66996 (06022418)
634200.00 4174375.00 9.72882 (06022418) 634250.00
4174425.00 9.36774 (05021801)
634000.00 4174475.00 10.31877 (06022418) 634250.00
4174525.00 10.04042 (04022222)
634100.00 4174575.00 10.47120 (04022222) 634150.00
4174575.00 10.56212 (06100508)
634200.00 4174575.00 11.03786 (06100508) 634250.00
4174575.00 11.51508 (06100508)
634250.00 4174625.00 13.47461 (06100508) 634250.00
4174675.00 15.52440 (06100508)
634250.00 4174825.00 21.46507 (06100508) 634250.00
4174875.00 23.06968 (06100508)
634200.00 4174925.00 24.29565 (06100508) 634250.00
4174925.00 24.32867 (06100508)
631950.00 4173950.00 14.25276 (05011317) 631550.00
4174000.00 15.95249 (08031018)
631550.00 4174050.00 16.25983 (08031018) 631750.00
4174250.00 17.22470 (08031018)
632300.00 4174300.00 16.85971 (06011617) 632350.00
4174300.00 17.20242 (06011617)
632300.00 4174350.00 17.27545 (06011617) 632350.00
4174350.00 17.46605 (06011617)
631600.00 4174400.00 17.49505 (04022018) 631650.00
4174400.00 17.43921 (04022018)

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        632000.00   4174400.00       17.35466  (04022018)                632000.00
4174450.00       17.61977  (04022018)
        631950.00   4174500.00       17.38171  (04022018)                632150.00
4174950.00       18.42935  (06011617)
⏧ *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                          ***        01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                         ***        15:43:26

                                    PAGE 238
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  OFFSITE3 ***
                                    INCLUDING SOURCE(S):     L0006575    , L0006576
, L0006577    , L0006578    , L0006579    ,
                   L0006580    , L0006581    , L0006582    , L0006583    , L0006584
, L0006585    , L0006586    , L0006587    ,
                   L0006588    , L0006589    , L0006590    , L0006591    , L0006592
, L0006593    , L0006594    , L0006595    ,
                   L0006596    , L0006597    , L0006598    , L0006599    , L0006600
, L0006601    , L0006602    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                        ** CONC OF HRA      IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        632200.00   4174950.00       18.50471  (06120617)

⏧ *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                          ***        01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                         ***        15:43:26

                                    PAGE 239
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  OFFSITE4 ***
                                    INCLUDING SOURCE(S):     L0006750    , L0006751
, L0006752    , L0006753    , L0006754    ,
                   L0006755    , L0006756    , L0006757    , L0006758    , L0006759
, L0006760    , L0006761    , L0006762    ,
                   L0006763    , L0006764    , L0006765    , L0006766    , L0006767
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, L0006768   , L0006769   , L0006770   ,
                L0006771   , L0006772   , L0006773   , L0006774   , L0006775
, L0006776   , L0006777   , . . .   ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF HRA   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        631050.00   4178050.00   10.90827 (08031008)   631150.00
4178250.00   10.62701 (08031008)
        631250.00   4178250.00   10.50593 (08031008)   631350.00
4178250.00   10.42441 (08031008)
        631450.00   4178250.00   10.33717 (08031008)   631550.00
4178250.00   10.25620 (08031008)
        631650.00   4178250.00   10.18017 (08031008)   631750.00
4178250.00   10.09438 (08031008)
        631150.00   4178350.00   10.61571 (08031008)   631450.00
4178350.00   10.29260 (08031008)
        631550.00   4178350.00   10.19778 (08031008)   631650.00
4178350.00   10.14732 (08031008)
        631750.00   4178350.00   10.05555 (08031008)   630650.00
4178450.00   12.45080 (07022408)
        630850.00   4178450.00   11.07353 (08031008)   631050.00
4178450.00   10.76233 (08031008)
        631150.00   4178450.00   10.60706 (08031008)   631250.00
4178450.00   10.49099 (08031008)
        631550.00   4178450.00   10.15066 (08031008)   631650.00
4178450.00   10.06519 (08031008)
        631750.00   4178450.00   9.97082 (08031008)   631850.00
4178450.00   9.89495 (08031008)
        631950.00   4178450.00   9.81383 (08031008)   632050.00
4178450.00   9.75030 (08031008)
        632150.00   4178450.00   9.68198 (08031008)   630550.00
4178550.00   13.59994 (04102908)
        630650.00   4178550.00   12.26188 (07022408)   630750.00
4178550.00   11.66627 (07022408)
        630950.00   4178550.00   10.88145 (08031008)   631050.00
4178550.00   10.76971 (08031008)
        631250.00   4178550.00   10.50362 (08031008)   631350.00
4178550.00   10.37822 (08031008)
        631450.00   4178550.00   10.27767 (08031008)   631550.00
4178550.00   10.14806 (08031008)
        631650.00   4178550.00   10.04349 (08031008)   631750.00
4178550.00   9.95572 (08031008)

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        631850.00   4178550.00        9.86002  (08031008)                631950.00
4178550.00        9.77707  (08031008)
        632050.00   4178550.00        9.72233  (08031008)                632150.00
4178550.00        9.64224  (08031008)
        630450.00   4178650.00       15.15767  (04102908)                630550.00
4178650.00       14.11085  (04102908)
        630650.00   4178650.00       12.56729  (04102908)                630750.00
4178650.00       11.53939  (07022408)
        630850.00   4178650.00       10.97566  (07022408)                630950.00
4178650.00       10.85102  (08031008)
        631050.00   4178650.00       10.75852  (08031008)                631150.00
4178650.00       10.63434  (08031008)
        631250.00   4178650.00       10.51375  (08031008)                631350.00
4178650.00       10.38294  (08031008)
        631450.00   4178650.00       10.26382  (08031008)                631550.00
4178650.00       10.15782  (08031008)
        631650.00   4178650.00       10.05472  (08031008)                631750.00
4178650.00        9.94052  (08031008)
        631850.00   4178650.00        9.86247  (08031008)                631950.00
4178650.00        9.75798  (08031008)
        632050.00   4178650.00        9.69023  (08031008)                632150.00
4178650.00        9.62603  (08031008)
        630350.00   4178750.00       15.86274  (04102908)                630450.00
4178750.00       15.31568  (04102908)
        630550.00   4178750.00       14.48442  (04102908)                630650.00
4178750.00       13.19539  (04102908)
        630750.00   4178750.00       11.55245  (04102908)                630850.00
4178750.00       10.91054  (07022408)
        630950.00   4178750.00       10.73638  (08031008)                631050.00
4178750.00       10.67353  (08031008)
        631150.00   4178750.00       10.59869  (08031008)                631250.00
4178750.00       10.50422  (08031008)
        631350.00   4178750.00       10.38471  (08031008)                631450.00
4178750.00       10.26955  (08031008)
        631550.00   4178750.00       10.16366  (08031008)                631650.00
4178750.00       10.07907  (08031008)
        631750.00   4178750.00        9.95515  (08031008)                631850.00
4178750.00        9.85355  (08031008)
        631950.00   4178750.00        9.76517  (08031008)                632050.00
4178750.00        9.66942  (08031008)
        632150.00   4178750.00        9.59500  (08031008)                630250.00
4178850.00       20.66630  (07091007)
        630350.00   4178850.00       15.85505  (04102908)                630450.00
4178850.00       15.42209  (04102908)
 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                          ***        01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                         ***        15:43:26
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: OFFSITE4 ***
INCLUDING SOURCE(S): L0006750 , L0006751 , L0006752 , L0006753 , L0006754 ,
L0006755 , L0006756 , L0006757 , L0006758 , L0006759 , L0006760 , L0006761 , L0006762 ,
L0006763 , L0006764 , L0006765 , L0006766 , L0006767 , L0006768 , L0006769 , L0006770 ,
L0006771 , L0006772 , L0006773 , L0006774 , L0006775 , L0006776 , L0006777 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF HRA IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
630550.00	4178850.00	14.75303	(04102908)	630650.00	4178850.00	13.66771	(04102908)
630750.00	4178850.00	12.28690	(04102908)	630850.00	4178850.00	10.83127	(07022408)
630950.00	4178850.00	10.38164	(08031008)	631050.00	4178850.00	10.43814	(08031008)
631150.00	4178850.00	10.43736	(08031008)	631250.00	4178850.00	10.39743	(08031008)
631350.00	4178850.00	10.32962	(08031008)	631450.00	4178850.00	10.24146	(08031008)
631550.00	4178850.00	10.15480	(08031008)	631650.00	4178850.00	10.06573	(08031008)
631750.00	4178850.00	9.96020	(08031008)	631850.00	4178850.00	9.86495	(08031008)
631950.00	4178850.00	9.77352	(08031008)	632050.00	4178850.00	9.67885	(08031008)
632150.00	4178850.00	9.59235	(08031008)	630250.00	4178950.00	22.44244	(07091007)
630350.00	4178950.00	15.83293	(04102908)	630450.00	4178950.00	15.43932	(04102908)
630550.00	4178950.00	14.93090	(04102908)	630650.00	4178950.00	14.05208	(04102908)
630750.00	4178950.00	12.88205	(04102908)	630850.00	4178950.00	11.33694	(04102908)
630950.00	4178950.00	10.31498	(07022408)	631050.00	4178950.00	9.84959	(07022408)
631150.00	4178950.00	10.03162	(08031008)	631250.00			

4178950.00 10.12721 (08031008)
631350.00 4178950.00 10.16356 (08031008) 631450.00
4178950.00 10.13049 (08031008)
631550.00 4178950.00 10.08936 (08031008) 631650.00
4178950.00 10.04441 (08031008)
631750.00 4178950.00 9.94993 (08031008) 631850.00
4178950.00 9.83993 (08031008)
631950.00 4178950.00 9.77269 (08031008) 632050.00
4178950.00 9.67887 (08031008)
632150.00 4178950.00 9.60367 (08031008) 629950.00
4179050.00 41.02279 (07091007)
630250.00 4179050.00 24.12226 (07091007) 630350.00
4179050.00 17.33477 (07091007)
630450.00 4179050.00 15.47835 (04102908) 630550.00
4179050.00 15.02877 (04102908)
630650.00 4179050.00 14.31109 (04102908) 630750.00
4179050.00 13.33441 (04102908)
630850.00 4179050.00 12.01795 (04102908) 630950.00
4179050.00 10.41308 (04102908)
631050.00 4179050.00 9.81779 (07022408) 631150.00
4179050.00 9.38975 (07022408)
631250.00 4179050.00 9.50081 (08031008) 631350.00
4179050.00 9.72405 (08031008)
631450.00 4179050.00 9.85174 (08031008) 631550.00
4179050.00 9.87888 (08031008)
631650.00 4179050.00 9.89112 (08031008) 631750.00
4179050.00 9.86542 (08031008)
631850.00 4179050.00 9.79792 (08031008) 631950.00
4179050.00 9.74871 (08031008)
632050.00 4179050.00 9.66600 (08031008) 632150.00
4179050.00 9.59661 (08031008)
629850.00 4179150.00 43.78872 (07091007) 629950.00
4179150.00 41.21678 (07091007)
630150.00 4179150.00 31.96370 (07091007) 630250.00
4179150.00 25.61811 (07091007)
630350.00 4179150.00 18.97342 (07091007) 630450.00
4179150.00 15.44537 (04102908)
630550.00 4179150.00 15.08554 (04102908) 630650.00
4179150.00 14.54935 (04102908)
630750.00 4179150.00 13.71360 (04102908) 630850.00
4179150.00 12.57578 (04102908)
630950.00 4179150.00 11.14019 (04102908) 631050.00
4179150.00 9.75396 (07022408)
631150.00 4179150.00 9.36704 (07022408) 631250.00
4179150.00 8.96048 (07022408)
631350.00 4179150.00 8.85626 (08031008) 631450.00
4179150.00 9.22044 (08031008)
631550.00 4179150.00 9.42943 (08031008) 631650.00
4179150.00 9.56465 (08031008)
631750.00 4179150.00 9.66259 (08031008) 631850.00

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: OFFSITE4 ***
INCLUDING SOURCE(S): L0006750 , L0006751 , L0006752 , L0006753 , L0006754 ,
L0006755 , L0006756 , L0006757 , L0006758 , L0006759 , L0006760 , L0006761 , L0006762 ,
L0006763 , L0006764 , L0006765 , L0006766 , L0006767 , L0006768 , L0006769 , L0006770 ,
L0006771 , L0006772 , L0006773 , L0006774 , L0006775 , L0006776 , L0006777 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF HRA IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
632150.00	4179150.00	9.55306	(08031008)	630850.00	4179250.00	13.05339	(04102908)
630950.00	4179250.00	11.78808	(04102908)	631050.00	4177625.00	11.17020	(08031008)
631100.00	4177725.00	11.08247	(08031008)	631100.00	4177825.00	11.03975	(08031008)
631350.00	4178225.00	10.44133	(08031008)	631400.00	4178225.00	10.39429	(08031008)
631450.00	4178225.00	10.35387	(08031008)	631500.00	4178225.00	10.31424	(08031008)
631100.00	4178275.00	10.68220	(08031008)	631150.00	4178275.00	10.63069	(08031008)
631200.00	4178275.00	10.56419	(08031008)	631250.00	4178275.00	10.51203	(08031008)
631300.00	4178275.00	10.46319	(08031008)	631350.00	4178275.00	10.41575	(08031008)
631400.00	4178275.00	10.37628	(08031008)	631450.00	4178275.00	10.33687	(08031008)

631500.00 4178275.00 10.29678 (08031008) 630950.00
4178325.00 10.92155 (08031008)
631100.00 4178325.00 10.68647 (08031008) 631150.00
4178325.00 10.61773 (08031008)
631200.00 4178325.00 10.57596 (08031008) 631250.00
4178325.00 10.50860 (08031008)
631300.00 4178325.00 10.47028 (08031008) 631400.00
4178325.00 10.34569 (08031008)
631450.00 4178325.00 10.31438 (08031008) 631500.00
4178325.00 10.26918 (08031008)
630950.00 4178375.00 10.92467 (08031008) 631200.00
4178375.00 10.54901 (08031008)
631300.00 4178375.00 10.43728 (08031008) 631400.00
4178375.00 10.33363 (08031008)
631450.00 4178375.00 10.27565 (08031008) 631500.00
4178375.00 10.23588 (08031008)
630800.00 4178425.00 11.40372 (07022408) 630850.00
4178425.00 11.08104 (08031008)
631050.00 4178425.00 10.76128 (08031008) 631200.00
4178425.00 10.55069 (08031008)
631250.00 4178425.00 10.49705 (08031008) 631300.00
4178425.00 10.43249 (08031008)
630650.00 4178475.00 12.40717 (07022408) 630800.00
4178475.00 11.40453 (07022408)
630850.00 4178475.00 11.06010 (08031008) 631050.00
4178475.00 10.76460 (08031008)
631200.00 4178475.00 10.56116 (08031008) 631250.00
4178475.00 10.49614 (08031008)
631300.00 4178475.00 10.42925 (08031008) 631450.00
4178475.00 10.25259 (08031008)
631500.00 4178475.00 10.19536 (08031008) 630550.00
4178525.00 13.45329 (04102908)
630600.00 4178525.00 12.65047 (07022408) 630650.00
4178525.00 12.27648 (07022408)
630700.00 4178525.00 11.99811 (07022408) 630750.00
4178525.00 11.69391 (07022408)
630950.00 4178525.00 10.88412 (08031008) 631050.00
4178525.00 10.77219 (08031008)
631200.00 4178525.00 10.56859 (08031008) 631250.00
4178525.00 10.50172 (08031008)
631300.00 4178525.00 10.43290 (08031008) 631350.00
4178525.00 10.37359 (08031008)
631400.00 4178525.00 10.31127 (08031008) 631450.00
4178525.00 10.27439 (08031008)
631500.00 4178525.00 10.19984 (08031008) 630500.00
4178575.00 14.42329 (04102908)
630550.00 4178575.00 13.74303 (04102908) 630600.00
4178575.00 12.94278 (04102908)
630650.00 4178575.00 12.17858 (07022408) 630700.00
4178575.00 11.91480 (07022408)

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: OFFSITE4 ***
INCLUDING SOURCE(S): L0006750 , L0006751 , L0006752 , L0006753 , L0006754 ,
L0006755 , L0006756 , L0006757 , L0006758 , L0006759 , L0006760 , L0006761 , L0006762 ,
L0006763 , L0006764 , L0006765 , L0006766 , L0006767 , L0006768 , L0006769 , L0006770 ,
L0006771 , L0006772 , L0006773 , L0006774 , L0006775 , L0006776 , L0006777 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF HRA IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
630500.00	4178625.00	14.58839	(04102908)	630550.00	4178625.00	13.99483	(04102908)
630600.00	4178625.00	13.25292	(04102908)	630650.00	4178625.00	12.37621	(04102908)
630700.00	4178625.00	11.84943	(07022408)	630750.00	4178625.00	11.57000	(07022408)
630800.00	4178625.00	11.30026	(07022408)	630850.00	4178625.00	11.01193	(07022408)
631000.00	4178625.00	10.81885	(08031008)	631050.00			

4178625.00 10.76305 (08031008)
631100.00 4178625.00 10.69582 (08031008) 631150.00
4178625.00 10.62348 (08031008)
631200.00 4178625.00 10.57206 (08031008) 631250.00
4178625.00 10.51167 (08031008)
631300.00 4178625.00 10.44362 (08031008) 631350.00
4178625.00 10.38431 (08031008)
631400.00 4178625.00 10.32228 (08031008) 631450.00
4178625.00 10.26577 (08031008)
631500.00 4178625.00 10.20667 (08031008) 631100.00
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4179050.00 49.79310 (06011704)
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4179100.00 51.07773 (06122002)
629400.00 4179150.00 50.53539 (05122403) 629500.00
4179150.00 45.81853 (06011704)
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4179150.00 39.22728 (07121904)
629650.00 4179150.00 35.24253 (07091007) 629700.00
4179150.00 40.76971 (07091007)
629800.00 4179200.00 43.72140 (07091007) 629400.00
4179300.00 43.83284 (05122403)
629400.00 4179350.00 41.97374 (05122403) 634375.00
4175350.00 8.67832 (06100508)
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634325.00 4175450.00 8.90704 (06100508) 634475.00
4175450.00 8.87347 (06100508)
634525.00 4175450.00 8.85714 (06100508) 634525.00
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4175600.00 8.86297 (06100508)
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4175600.00        8.82369  (06100508)
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4175700.00        8.98592  (06100508)
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4175700.00        8.92637  (06100508)
 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                          ***        01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                         ***        15:43:26

                                    PAGE 243
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  OFFSITE4 ***
                                    INCLUDING SOURCE(S):     L0006750    , L0006751
, L0006752    , L0006753    , L0006754    ,
                  L0006755    , L0006756    , L0006757    , L0006758    , L0006759
, L0006760    , L0006761    , L0006762    ,
                  L0006763    , L0006764    , L0006765    , L0006766    , L0006767
, L0006768    , L0006769    , L0006770    ,
                  L0006771    , L0006772    , L0006773    , L0006774    , L0006775
, L0006776    , L0006777    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF HRA      IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - -
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634925.00 4175700.00 8.83916 (06100508) 634975.00
4175700.00 8.84078 (06100508)
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4175700.00 8.80262 (06100508)
635125.00 4175700.00 8.78785 (06100508) 634425.00
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4175850.00 9.06480 (06100508)

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        634625.00   4175900.00        9.99384  (06100508)                634675.00
4175900.00        9.00785  (06100508)
        634725.00   4175900.00        8.95934  (06100508)                634775.00
4175900.00        8.95742  (06100508)
 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                         ***        01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                        ***        15:43:26

                                   PAGE 244
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  OFFSITE4 ***
                                   INCLUDING SOURCE(S):     L0006750    , L0006751
, L0006752    , L0006753    , L0006754    ,
                  L0006755    , L0006756    , L0006757    , L0006758    , L0006759
, L0006760    , L0006761    , L0006762    ,
                  L0006763    , L0006764    , L0006765    , L0006766    , L0006767
, L0006768    , L0006769    , L0006770    ,
                  L0006771    , L0006772    , L0006773    , L0006774    , L0006775
, L0006776    , L0006777    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
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** CONC OF HRA IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
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635075.00	4175900.00	8.78333	(06100508)	635125.00	4175900.00	8.73409	(06100508)
635175.00	4175900.00	8.71559	(06100508)	635225.00	4175900.00	8.69090	(06100508)
635275.00	4175900.00	8.64937	(06100508)	635325.00	4175900.00	8.64811	(06100508)
635375.00	4175900.00	8.56049	(06100508)	635425.00	4175900.00	8.53405	(06100508)
635475.00	4175900.00	8.49285	(06100508)	635525.00	4175900.00	8.46052	(06100508)
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634425.00	4175950.00	9.08914	(06100508)	634475.00	4175950.00	9.07123	(06100508)
634525.00	4175950.00	9.03782	(06100508)	634575.00	4175950.00	9.00252	(06100508)
634625.00	4175950.00	9.00985	(06100508)	634675.00	4175950.00	9.00893	(06100508)
634875.00	4175950.00	8.86406	(06100508)	634925.00	4175950.00	8.82805	(06100508)
634975.00	4175950.00	8.82082	(06100508)	635025.00	4175950.00	8.78089	(06100508)
635075.00	4175950.00	8.75088	(06100508)	635125.00	4175950.00	8.72888	(06100508)
635175.00	4175950.00	8.70598	(06100508)	635225.00	4175950.00	8.64569	(06100508)
635275.00	4175950.00	8.64851	(06100508)	635325.00	4175950.00	8.57315	(06100508)
635375.00	4175950.00	8.54586	(06100508)	635425.00	4175950.00	8.50507	(06100508)
635475.00	4175950.00	8.45894	(06100508)	635525.00	4175950.00	8.38532	(06100508)
635575.00	4175950.00	8.35312	(06100508)	634725.00	4176000.00	8.98269	(06100508)
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635025.00	4176000.00	8.78045	(06100508)	635075.00			

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4176000.00        8.60531  (06100508)
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        635525.00   4176000.00        8.34289  (06100508)                635575.00
4176000.00        8.27244  (06100508)
        634825.00   4176050.00        8.83737  (06100508)                634875.00
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4176100.00        8.46487  (06100508)
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4176100.00        8.37094  (06100508)
 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                          ***        01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                          ***        15:43:26

                                   PAGE 245
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  OFFSITE4 ***
                                   INCLUDING SOURCE(S):     L0006750    , L0006751
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, L0006752    , L0006753    , L0006754    ,
                L0006755    , L0006756    , L0006757    , L0006758    , L0006759
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                L0006763    , L0006764    , L0006765    , L0006766    , L0006767
, L0006768    , L0006769    , L0006770    ,
                L0006771    , L0006772    , L0006773    , L0006774    , L0006775
, L0006776    , L0006777    ,  . . .      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                     ** CONC OF HRA      IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - -
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        635125.00   4176150.00        8.54302  (06100508)                635175.00
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        635225.00   4176150.00        8.40436  (06100508)                635275.00
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        635425.00   4176150.00        8.17002  (06100508)                635475.00
4176150.00        8.12570  (06100508)
        635525.00   4176150.00        8.06012  (06100508)                635575.00
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        634975.00   4176200.00        8.58181  (06100508)                635125.00
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        635175.00   4176200.00        8.39604  (06100508)                635225.00
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4176250.00        8.57789  (06100508)
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635025.00 4176400.00 8.02509 (06100508) 635075.00
4176400.00 7.94777 (06100508)
635125.00 4176400.00 7.87020 (06100508) 635175.00
4176400.00 7.79125 (06100508)
635225.00 4176400.00 7.71359 (06100508) 635275.00
4176400.00 7.63273 (06100508)
635425.00 4176400.00 7.32756 (06100508) 635525.00
4176400.00 7.10749 (06100508)

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: OFFSITE4 ***
INCLUDING SOURCE(S):   L0006750   , L0006751   , L0006752   , L0006753   , L0006754   ,
L0006755   , L0006756   , L0006757   , L0006758   , L0006759   , L0006760   , L0006761   , L0006762   ,
L0006763   , L0006764   , L0006765   , L0006766   , L0006767   , L0006768   , L0006769   , L0006770   ,
L0006771   , L0006772   , L0006773   , L0006774   , L0006775   , L0006776   , L0006777   , . . .   ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF HRA   IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
635575.00	4176400.00	7.01743	(06100508)	633650.00	4176200.00	9.45443	(06100508)
633700.00	4176200.00	9.41080	(06100508)	633850.00	4176200.00	9.30248	(06100508)
633850.00	4176250.00	9.32582	(06100508)	633950.00	4176250.00	9.25492	(06100508)
634350.00	4176250.00	9.03076	(06100508)	633750.00	4176300.00	9.37817	(06100508)
633950.00	4176300.00	9.25388	(06100508)	634000.00	4176300.00	9.21895	(06100508)
634050.00	4176300.00	9.15609	(06100508)	634050.00	4176350.00	9.15058	(06100508)
634050.00	4176400.00	9.11861	(06100508)	634000.00	4176450.00	9.10814	(06100508)
634050.00	4176450.00	9.06949	(06100508)	634200.00	4176600.00	8.54982	(06100508)
634100.00	4176650.00	8.53131	(06100508)	634150.00	4176650.00	8.45932	(06100508)
634200.00	4176650.00	8.35252	(06100508)	634200.00	4176850.00	7.19973	(06100508)
634200.00	4176900.00	6.81229	(06100508)	634250.00	4176900.00	6.68048	(06100508)
634300.00	4176900.00	6.54088	(06100508)	634400.00			

4177000.00 5.37721 (06100508)
634450.00 4177000.00 5.22231 (06100508) 634500.00
4177000.00 5.09024 (06100508)
634550.00 4177000.00 4.96160 (06100508) 634400.00
4177050.00 4.91871 (06100508)
634450.00 4177050.00 4.75651 (06100508) 634500.00
4177050.00 4.65170 (06100508)
634550.00 4177050.00 4.53180 (06100508) 633750.00
4173175.00 6.09934 (06122122)
634450.00 4173325.00 3.96964 (06011617) 634450.00
4173375.00 4.00757 (06011617)
634350.00 4173475.00 4.08524 (06011617) 634300.00
4173625.00 4.10424 (06011617)
634300.00 4173675.00 4.11621 (06011617) 634350.00
4173675.00 4.07687 (06011617)
634250.00 4173775.00 4.15987 (06011617) 633950.00
4173825.00 4.42904 (06011617)
634050.00 4173825.00 4.33981 (06011617) 634100.00
4173825.00 4.29687 (06011617)
634250.00 4173825.00 4.15286 (06011617) 634250.00
4173975.00 4.06471 (06011617)
634150.00 4174125.00 4.06574 (06011617) 634200.00
4174125.00 3.98344 (06011617)
634250.00 4174125.00 3.89764 (06011617) 634250.00
4174225.00 3.74423 (06120617)
634350.00 4174225.00 3.70940 (06120617) 634400.00
4174225.00 3.68944 (06120617)
634200.00 4174325.00 3.81998 (06120617) 634250.00
4174325.00 3.79539 (06120617)
634200.00 4174375.00 3.84168 (06120617) 634250.00
4174425.00 3.82493 (06120617)
634000.00 4174475.00 3.99057 (06120617) 634250.00
4174525.00 3.83662 (06120617)
634100.00 4174575.00 3.94457 (06120617) 634150.00
4174575.00 3.90935 (06120617)
634200.00 4174575.00 3.87355 (06120617) 634250.00
4174575.00 3.83760 (06120617)
634250.00 4174625.00 3.83511 (06120617) 634250.00
4174675.00 3.82877 (06120617)
634250.00 4174825.00 5.01824 (06100508) 634250.00
4174875.00 5.49915 (06100508)
634200.00 4174925.00 5.88435 (06100508) 634250.00
4174925.00 5.97169 (06100508)
631950.00 4173950.00 9.99101 (08031018) 631550.00
4174000.00 13.09645 (08031018)
631550.00 4174050.00 13.05284 (08031018) 631750.00
4174250.00 11.03974 (08031018)
632300.00 4174300.00 8.68952 (04022018) 632350.00
4174300.00 8.62136 (04022018)
632300.00 4174350.00 8.69132 (04022018) 632350.00

4174350.00   8.61489 (04022018)
        631600.00   4174400.00   11.18024 (08031018)   631650.00
4174400.00   10.75821 (05011521)
        632000.00   4174400.00   9.36632 (05011520)   632000.00
4174450.00   9.22149 (05011520)
        631950.00   4174500.00   9.26540 (05011520)   632150.00
4174950.00   6.75558 (06011617)

                                *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: OFFSITE4 ***
                                    INCLUDING SOURCE(S):   L0006750   , L0006751
, L0006752   , L0006753   , L0006754   ,
                   L0006755   , L0006756   , L0006757   , L0006758   , L0006759
, L0006760   , L0006761   , L0006762   ,
                   L0006763   , L0006764   , L0006765   , L0006766   , L0006767
, L0006768   , L0006769   , L0006770   ,
                   L0006771   , L0006772   , L0006773   , L0006774   , L0006775
, L0006776   , L0006777   , . . .   ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                        ** CONC OF HRA   IN MICROGRAMS/M**3
                    **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        632200.00   4174950.00   6.65505 (06011617)

                                *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: OFFSITE5 ***
                                    INCLUDING SOURCE(S):   L0006998   , L0006999
, L0007000   , L0007001   , L0007002   ,

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                L0007003    , L0007004    , L0007005    , L0007006    , L0007007
, L0007008    , L0007009    , L0007010    ,
                L0007011    , L0007012    , L0007013    , L0007014    , L0007015
, L0007016    , L0007017    , L0007018    ,
                L0007019    , L0007020    , L0007021    , L0007022    , L0007023
, L0007024    , L0007025    ,  . . .      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF HRA      IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        631050.00   4178050.00       41.65610  (07022408)               631150.00
4178250.00       36.83407  (07022408)
        631250.00   4178250.00       33.83764  (07022408)               631350.00
4178250.00       33.69280  (04121902)
        631450.00   4178250.00       33.98507  (07021107)               631550.00
4178250.00       33.39094  (08120923)
        631650.00   4178250.00       32.29126  (04021406)               631750.00
4178250.00       30.94516  (08120922)
        631150.00   4178350.00       35.30033  (07010324)               631450.00
4178350.00       32.26056  (04121902)
        631550.00   4178350.00       32.10910  (07021107)               631650.00
4178350.00       31.48724  (08120923)
        631750.00   4178350.00       30.43927  (04021406)               630650.00
4178450.00       44.77433  (04102908)
        630850.00   4178450.00       35.91696  (04121823)               631050.00
4178450.00       34.87008  (04011805)
        631150.00   4178450.00       34.09801  (08022124)               631250.00
4178450.00       33.20069  (04021405)
        631550.00   4178450.00       30.72624  (04121902)               631650.00
4178450.00       30.33013  (07021107)
        631750.00   4178450.00       29.53907  (08120923)               631850.00
4178450.00       28.63843  (04021406)
        631950.00   4178450.00       27.70081  (08120922)               632050.00
4178450.00       26.96708  (08021908)
        632150.00   4178450.00       26.11705  (08122821)               630550.00
4178550.00       35.93403  (06121919)
        630650.00   4178550.00       37.82679  (04102908)               630750.00
4178550.00       44.59278  (04102908)
        630950.00   4178550.00       34.07208  (04121823)               631050.00
4178550.00       33.42367  (07013019)
        631250.00   4178550.00       31.81070  (07010324)               631350.00
4178550.00       31.64307  (04021405)
        631450.00   4178550.00       30.96018  (07022408)               631550.00
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4178550.00       25.25916  (07122918)
        631650.00   4178550.00       29.25308  (04121902)                631750.00
4178550.00       28.69385  (07021107)
        631850.00   4178550.00       27.90506  (08120923)                631950.00
4178550.00       27.08510  (04021406)
        632050.00   4178550.00       26.35549  (08120922)                632150.00
4178550.00       25.65112  (08021908)
        630450.00   4178650.00       35.09590  (08121603)                630550.00
4178650.00       34.72819  (08121602)
        630650.00   4178650.00       33.60877  (06121919)                630750.00
4178650.00       41.32008  (04102908)
        630850.00   4178650.00       41.42525  (04102908)                630950.00
4178650.00       32.65019  (08121001)
        631050.00   4178650.00       31.18723  (04022324)                631150.00
4178650.00       31.62299  (07013019)
        631250.00   4178650.00       30.64821  (08022124)                631350.00
4178650.00       30.49375  (07010324)
        631450.00   4178650.00       29.61674  (04021405)                631550.00
4178650.00       28.64918  (07022408)
        631650.00   4178650.00       24.08419  (07122918)                631750.00
4178650.00       27.78397  (04121902)
        631850.00   4178650.00       27.17765  (07021107)                631950.00
4178650.00       26.40723  (08120923)
        632050.00   4178650.00       25.72124  (04021406)                632150.00
4178650.00       25.07907  (08120922)
        630350.00   4178750.00       29.14122  (06012820)                630450.00
4178750.00       32.26315  (08121603)
        630550.00   4178750.00       30.51869  (08121602)                630650.00
4178750.00       32.64895  (06121919)
        630750.00   4178750.00       34.83585  (04102908)                630850.00
4178750.00       41.85880  (04102908)
        630950.00   4178750.00       36.37224  (04102908)                631050.00
4178750.00       31.03231  (04121823)
        631150.00   4178750.00       29.42541  (04022324)                631250.00
4178750.00       29.66157  (04011805)
        631350.00   4178750.00       29.46630  (08022124)                631450.00
4178750.00       28.58537  (07010324)
        631550.00   4178750.00       27.83008  (07022408)                631650.00
4178750.00       26.42622  (07022408)
        631750.00   4178750.00       23.26382  (04121902)                631850.00
4178750.00       26.37083  (04121902)
        631950.00   4178750.00       25.73027  (07021107)                632050.00
4178750.00       25.04487  (08120923)
        632150.00   4178750.00       24.43347  (04021406)                630250.00
4178850.00       52.11468  (07091007)
        630350.00   4178850.00       32.43395  (08122909)                630450.00
4178850.00       28.08111  (05021722)
 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                           ***        01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: OFFSITE5 ***
INCLUDING SOURCE(S): L0006998 , L0006999 , L0007000 , L0007001 , L0007002 ,
L0007003 , L0007004 , L0007005 , L0007006 , L0007007 , L0007008 , L0007009 , L0007010 ,
L0007011 , L0007012 , L0007013 , L0007014 , L0007015 , L0007016 , L0007017 , L0007018 ,
L0007019 , L0007020 , L0007021 , L0007022 , L0007023 , L0007024 , L0007025 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF HRA IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
630550.00	4178850.00	31.74336	(08121603)	630650.00	4178850.00	31.58054	(08121602)
630750.00	4178850.00	30.55293	(06121919)	630850.00	4178850.00	38.38237	(04102908)
630950.00	4178850.00	39.77627	(04102908)	631050.00	4178850.00	30.37365	(04102908)
631150.00	4178850.00	29.02060	(04121823)	631250.00	4178850.00	28.72904	(07013019)
631350.00	4178850.00	28.44048	(04011805)	631450.00	4178850.00	27.53456	(08022124)
631550.00	4178850.00	26.74467	(04021405)	631650.00	4178850.00	26.79953	(07022408)
631750.00	4178850.00	24.16820	(07022408)	631850.00	4178850.00	22.86154	(04121902)
631950.00	4178850.00	25.00713	(04121902)	632050.00	4178850.00	24.38892	(07021107)
632150.00	4178850.00	23.80199	(08120923)	630250.00	4178950.00	59.36685	(07091007)
630350.00	4178950.00	35.00289	(08122909)	630450.00	4178950.00	25.32863	(05021722)
630550.00	4178950.00	30.34082	(08121603)	630650.00	4178950.00	28.50167	(08121602)
630750.00	4178950.00	29.92012	(06121919)	630850.00	4178950.00	32.25764	(04102908)

630950.00 4178950.00 39.44112 (04102908) 631050.00
4178950.00 35.70299 (04102908)
631150.00 4178950.00 27.68129 (04121823) 631250.00
4178950.00 27.02029 (04022324)
631350.00 4178950.00 27.41342 (07013019) 631450.00
4178950.00 26.40047 (04011805)
631550.00 4178950.00 26.08295 (07010324) 631650.00
4178950.00 25.92792 (04021405)
631750.00 4178950.00 25.55320 (07022408) 631850.00
4178950.00 22.01699 (07022408)
631950.00 4178950.00 22.36928 (04121902) 632050.00
4178950.00 23.66099 (04121902)
632150.00 4178950.00 23.15185 (07021107) 629950.00
4179050.00 30.24411 (06021702)
630250.00 4179050.00 64.61139 (07091007) 630350.00
4179050.00 38.75896 (07091007)
630450.00 4179050.00 26.71746 (08122909) 630550.00
4179050.00 26.62117 (08121603)
630650.00 4179050.00 28.40025 (08121603) 630750.00
4179050.00 28.93523 (08121602)
630850.00 4179050.00 27.88254 (06121919) 630950.00
4179050.00 35.78243 (04102908)
631050.00 4179050.00 38.06365 (04102908) 631150.00
4179050.00 30.58698 (04102908)
631250.00 4179050.00 27.36374 (05110608) 631350.00
4179050.00 25.46727 (04022324)
631450.00 4179050.00 25.55659 (04011805) 631550.00
4179050.00 25.47511 (08022124)
631650.00 4179050.00 25.15334 (07010324) 631750.00
4179050.00 24.66837 (04021405)
631850.00 4179050.00 24.14168 (07022408) 631950.00
4179050.00 20.06042 (07022408)
632050.00 4179050.00 21.79482 (04121902) 632150.00
4179050.00 22.40614 (04121902)
629850.00 4179150.00 29.00196 (05121701) 629950.00
4179150.00 28.80542 (06021702)
630150.00 4179150.00 65.09401 (07091007) 630250.00
4179150.00 67.37004 (07091007)
630350.00 4179150.00 46.28989 (07091007) 630450.00
4179150.00 31.02118 (08122909)
630550.00 4179150.00 24.08853 (05021722) 630650.00
4179150.00 28.16730 (08121603)
630750.00 4179150.00 26.69073 (08121602) 630850.00
4179150.00 27.47711 (06121919)
630950.00 4179150.00 29.96349 (04102908) 631050.00
4179150.00 37.07808 (04102908)
631150.00 4179150.00 34.85905 (04102908) 631250.00
4179150.00 25.97698 (08121001)
631350.00 4179150.00 25.57515 (05110608) 631450.00
4179150.00 25.10741 (07013019)

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: OFFSITE5 ***
INCLUDING SOURCE(S): L0006998 , L0006999 , L0007000 , L0007001 , L0007002 ,
L0007003 , L0007004 , L0007005 , L0007006 , L0007007 , L0007008 , L0007009 , L0007010 ,
L0007011 , L0007012 , L0007013 , L0007014 , L0007015 , L0007016 , L0007017 , L0007018 ,
L0007019 , L0007020 , L0007021 , L0007022 , L0007023 , L0007024 , L0007025 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF HRA IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
632150.00	4179150.00	21.18616	(04121902)	630850.00	4179250.00	26.61549	(08121602)
630950.00	4179250.00	25.60056	(06121919)	631050.00	4177625.00	49.64152	(08120922)
631100.00	4177725.00	47.14108	(04021406)	631100.00	4177825.00	44.73771	(07021107)
631350.00	4178225.00	35.15896	(04121902)	631400.00	4178225.00	34.69097	(04121902)
631450.00	4178225.00	34.65315	(07021107)	631500.00	4178225.00	33.70038	(08120923)
631100.00	4178275.00	36.49991	(07010324)	631150.00	4178275.00	36.71151	(04021405)
631200.00	4178275.00	36.77639	(07022408)	631250.00	4178275.00	34.97456	(07022408)
631300.00	4178275.00	30.44443	(07022408)	631350.00			

4178275.00 31.67923 (04121902)
631400.00 4178275.00 34.24056 (04121902) 631450.00
4178275.00 33.48362 (04121902)
631500.00 4178275.00 33.61363 (07021107) 630950.00
4178325.00 37.05073 (04011805)
631100.00 4178325.00 36.47403 (07010324) 631150.00
4178325.00 35.56551 (04021405)
631200.00 4178325.00 35.26140 (04021405) 631250.00
4178325.00 35.62755 (07022408)
631300.00 4178325.00 33.40333 (07022408) 631400.00
4178325.00 31.19006 (04121902)
631450.00 4178325.00 33.32543 (04121902) 631500.00
4178325.00 32.27917 (04121902)
630950.00 4178375.00 37.00312 (07013019) 631200.00
4178375.00 34.80386 (04021405)
631300.00 4178375.00 34.37295 (07022408) 631400.00
4178375.00 27.94496 (07122918)
631450.00 4178375.00 30.66130 (04121902) 631500.00
4178375.00 32.36059 (04121902)
630800.00 4178425.00 37.20578 (08121001) 630850.00
4178425.00 36.80998 (04121823)
631050.00 4178425.00 35.45736 (04011805) 631200.00
4178425.00 34.07776 (07010324)
631250.00 4178425.00 33.92168 (04021405) 631300.00
4178425.00 33.47238 (07022408)
630650.00 4178475.00 43.33450 (04102908) 630800.00
4178475.00 38.67811 (04102908)
630850.00 4178475.00 35.56618 (08121001) 631050.00
4178475.00 33.82745 (07013019)
631200.00 4178475.00 33.30576 (07010324) 631250.00
4178475.00 32.67317 (07010324)
631300.00 4178475.00 32.85494 (04021405) 631450.00
4178475.00 28.58362 (07022408)
631500.00 4178475.00 26.49147 (07122918) 630550.00
4178525.00 36.76046 (06121919)
630600.00 4178525.00 36.13212 (08021923) 630650.00
4178525.00 39.75624 (04102908)
630700.00 4178525.00 44.15311 (04102908) 630750.00
4178525.00 44.71207 (04102908)
630950.00 4178525.00 33.84404 (04121823) 631050.00
4178525.00 34.02420 (07013019)
631200.00 4178525.00 32.91344 (08022124) 631250.00
4178525.00 32.58770 (07010324)
631300.00 4178525.00 31.61422 (04021405) 631350.00
4178525.00 31.71211 (04021405)
631400.00 4178525.00 31.79811 (07022408) 631450.00
4178525.00 30.57183 (07022408)
631500.00 4178525.00 27.10909 (07022408) 630500.00
4178575.00 35.45005 (08121602)
630550.00 4178575.00 35.50225 (08121602) 630600.00

4178575.00   35.60753 (06121919)
        630650.00   4178575.00   35.67142 (04102908)   630700.00
4178575.00   41.52960 (04102908)
        630750.00   4178575.00   44.19906 (04102908)   630800.00
4178575.00   42.92949 (04102908)
        630850.00   4178575.00   38.28730 (04102908)   631000.00
4178575.00   32.37829 (04022324)
        631050.00   4178575.00   32.42154 (07013019)   631200.00
4178575.00   31.99183 (08022124)
        631250.00   4178575.00   31.59329 (08022124)   631300.00
4178575.00   31.67990 (07010324)
        631350.00   4178575.00   31.06819 (04021405)   631400.00
4178575.00   30.49766 (04021405)
        631450.00   4178575.00   30.88428 (07022408)   631500.00
4178575.00   29.24824 (07022408)

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: OFFSITE5 ***
                                    INCLUDING SOURCE(S):   L0006998   , L0006999
, L0007000   , L0007001   , L0007002   ,
                   L0007003   , L0007004   , L0007005   , L0007006   , L0007007
, L0007008   , L0007009   , L0007010   ,
                   L0007011   , L0007012   , L0007013   , L0007014   , L0007015
, L0007016   , L0007017   , L0007018   ,
                   L0007019   , L0007020   , L0007021   , L0007022   , L0007023
, L0007024   , L0007025   , . . .   ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF HRA   IN MICROGRAMS/M**3
                    **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        630500.00   4178625.00   32.93775 (08121602)   630550.00
4178625.00   35.24274 (08121602)
        630600.00   4178625.00   34.96613 (06121919)   630650.00
4178625.00   34.18682 (08021923)
        630700.00   4178625.00   38.16456 (04102908)   630750.00
4178625.00   42.50726 (04102908)

630800.00 4178625.00 43.42252 (04102908) 630850.00
4178625.00 40.69366 (04102908)
631000.00 4178625.00 32.73851 (04121823) 631050.00
4178625.00 31.66481 (04022324)
631100.00 4178625.00 32.13015 (07013019) 631150.00
4178625.00 31.33542 (07013019)
631200.00 4178625.00 31.68838 (04011805) 631250.00
4178625.00 31.39098 (08022124)
631300.00 4178625.00 30.37003 (07010324) 631350.00
4178625.00 30.62719 (07010324)
631400.00 4178625.00 30.39944 (04021405) 631450.00
4178625.00 29.71124 (07022408)
631500.00 4178625.00 29.93399 (07022408) 631100.00
4175700.00 48.45566 (07012218)
631150.00 4175700.00 47.24948 (07012218) 631200.00
4175700.00 46.09080 (07012218)
631250.00 4175700.00 44.87885 (05020819) 631100.00
4175750.00 48.65609 (05020819)
631150.00 4175750.00 47.19325 (05020819) 629400.00
4179050.00 29.68162 (06122002)
629450.00 4179050.00 29.83902 (08122707) 629500.00
4179050.00 29.88712 (06011704)
629400.00 4179100.00 29.13348 (06122002) 629450.00
4179100.00 29.29498 (08122707)
629400.00 4179150.00 28.58818 (06122002) 629500.00
4179150.00 28.75112 (06011704)
629550.00 4179150.00 28.77383 (07020803) 629600.00
4179150.00 28.67436 (05022220)
629650.00 4179150.00 28.54167 (07121904) 629700.00
4179150.00 28.62767 (07121904)
629800.00 4179200.00 26.53443 (07121817) 629400.00
4179300.00 27.02872 (06122002)
629400.00 4179350.00 26.54230 (06122002) 634375.00
4175350.00 14.60587 (07012218)
634425.00 4175350.00 14.43092 (07012218) 635425.00
4175350.00 11.45558 (05020819)
635425.00 4175400.00 11.18007 (05020819) 635475.00
4175400.00 11.01608 (05020819)
634325.00 4175450.00 14.85256 (05020819) 634475.00
4175450.00 14.25315 (05020819)
634525.00 4175450.00 14.04515 (05020819) 634525.00
4175500.00 13.28204 (05020819)
634325.00 4175550.00 13.81650 (07021102) 634525.00
4175550.00 13.41464 (07021102)
634575.00 4175550.00 13.31033 (07021102) 634775.00
4175550.00 12.88256 (07021102)
634825.00 4175550.00 12.77187 (07021102) 634625.00
4175600.00 13.80305 (07021102)
634675.00 4175600.00 13.62823 (07021102) 634725.00
4175600.00 13.47874 (07021102)

```
        634775.00   4175600.00       13.30702  (07021102)                634825.00
4175600.00       13.15766  (07021102)
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4175600.00       12.84065  (07021102)
        635375.00   4175600.00       11.53544  (07021102)                634275.00
4175650.00       15.03074  (07021102)
        634325.00   4175650.00       14.81342  (07021102)                634575.00
4175650.00       13.74660  (07021102)
        634625.00   4175650.00       13.53305  (07021102)                634675.00
4175650.00       13.34186  (07021102)
        634725.00   4175650.00       13.14837  (07021102)                634775.00
4175650.00       12.94067  (07021102)
        634825.00   4175650.00       12.76619  (07021102)                634875.00
4175650.00       12.57402  (07021102)
        634925.00   4175650.00       12.37690  (07021102)                634975.00
4175650.00       12.20695  (07021102)
        635025.00   4175650.00       12.01391  (07021102)                635325.00
4175650.00       11.03217  (07021102)
        635375.00   4175650.00       10.87754  (07021102)                634475.00
4175700.00       13.14367  (07021102)
        634525.00   4175700.00       12.90888  (07021102)                634575.00
4175700.00       12.68023  (07021102)
        634625.00   4175700.00       12.44480  (07021102)                634675.00
4175700.00       12.23426  (07021102)
 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                          ***        01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                         ***        15:43:26

                                    PAGE 252
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  OFFSITE5 ***
                                    INCLUDING SOURCE(S):     L0006998    , L0006999
, L0007000    , L0007001    , L0007002    ,
                   L0007003    , L0007004    , L0007005    , L0007006    , L0007007
, L0007008    , L0007009    , L0007010    ,
                   L0007011    , L0007012    , L0007013    , L0007014    , L0007015
, L0007016    , L0007017    , L0007018    ,
                   L0007019    , L0007020    , L0007021    , L0007022    , L0007023
, L0007024    , L0007025    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                             ** CONC OF HRA      IN MICROGRAMS/M**3
                    **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
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Y-COORD (M)   CONC   (YYMMDDHH)
- -

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4175700.00   11.97710 (06012822)
634825.00   4175700.00   11.85319 (06012822)   634875.00
4175700.00   11.76800 (06012822)
634925.00   4175700.00   11.64353 (06012822)   634975.00
4175700.00   11.55510 (06012822)
635025.00   4175700.00   11.43738 (06012822)   635075.00
4175700.00   11.35427 (06012822)
635125.00   4175700.00   11.25818 (06012822)   634425.00
4175750.00   14.10833 (06012822)
634575.00   4175750.00   13.64339 (06012822)   634625.00
4175750.00   13.48776 (06012822)
634675.00   4175750.00   13.33487 (06012822)   634725.00
4175750.00   13.20744 (06012822)
634775.00   4175750.00   13.05696 (06012822)   634825.00
4175750.00   12.91700 (06012822)
634875.00   4175750.00   12.75992 (06012822)   634925.00
4175750.00   12.62615 (06012822)
634975.00   4175750.00   12.49100 (06012822)   635025.00
4175750.00   12.34870 (06012822)
635075.00   4175750.00   12.23383 (06012822)   635125.00
4175750.00   12.11063 (06012822)
635175.00   4175750.00   11.96372 (06012822)   635225.00
4175750.00   11.86621 (06012822)
634325.00   4175800.00   15.00238 (06012822)   634375.00
4175800.00   14.80789 (06012822)
634425.00   4175800.00   14.59533 (06012822)   634475.00
4175800.00   14.42256 (06012822)
634525.00   4175800.00   14.23721 (06012822)   634575.00
4175800.00   14.03511 (06012822)
634625.00   4175800.00   13.89565 (06012822)   634675.00
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634725.00   4175800.00   13.54398 (06012822)   634775.00
4175800.00   13.36418 (06012822)
634825.00   4175800.00   13.22425 (06012822)   634875.00
4175800.00   13.03521 (06012822)
634925.00   4175800.00   12.89293 (06012822)   634975.00
4175800.00   12.73824 (06012822)
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4175800.00   12.42254 (06012822)
635125.00   4175800.00   12.27756 (06012822)   635175.00
4175800.00   12.15209 (06012822)
635225.00   4175800.00   12.00922 (06012822)   635275.00
4175800.00   11.88382 (06012822)
635325.00   4175800.00   11.73272 (06012822)   634225.00
4175850.00   15.04308 (04122902)
634325.00   4175850.00   14.68503 (04122902)   634375.00

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        634425.00   4175850.00       14.29783  (04122902)                634475.00
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        634525.00   4175850.00       13.94657  (04122902)                634575.00
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        634625.00   4175850.00       13.63318  (04122902)                634675.00
4175850.00       13.44310  (04122902)
        634725.00   4175850.00       13.26990  (04122902)                634775.00
4175850.00       13.14688  (04122902)
        634825.00   4175850.00       12.98078  (04122902)                634875.00
4175850.00       12.81983  (04122902)
        634925.00   4175850.00       12.65616  (04122902)                634975.00
4175850.00       12.51387  (04122902)
        635025.00   4175850.00       12.35986  (04122902)                635075.00
4175850.00       12.22956  (04122902)
        635125.00   4175850.00       12.09425  (04122902)                635175.00
4175850.00       11.96300  (04122902)
        635225.00   4175850.00       11.81689  (04122902)                635275.00
4175850.00       11.70477  (04122902)
        635325.00   4175850.00       11.56900  (04122902)                635375.00
4175850.00       11.42255  (04122902)
        635425.00   4175850.00       11.29496  (04122902)                634225.00
4175900.00       15.38232  (04122902)
        634325.00   4175900.00       15.02125  (04122902)                634375.00
4175900.00       14.80433  (04122902)
        634425.00   4175900.00       14.58456  (04122902)                634475.00
4175900.00       14.40080  (04122902)
        634525.00   4175900.00       14.21891  (04122902)                634575.00
4175900.00       14.03996  (04122902)
        634625.00   4175900.00       13.88150  (04122902)                634675.00
4175900.00       13.73882  (04122902)
        634725.00   4175900.00       13.55134  (04122902)                634775.00
4175900.00       13.40283  (04122902)
 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                          ***        01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                         ***        15:43:26

                                    PAGE 253
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  OFFSITE5 ***
                                    INCLUDING SOURCE(S):     L0006998    , L0006999
, L0007000    , L0007001    , L0007002    ,
                   L0007003    , L0007004    , L0007005    , L0007006    , L0007007
, L0007008    , L0007009    , L0007010    ,
                   L0007011    , L0007012    , L0007013    , L0007014    , L0007015
, L0007016    , L0007017    , L0007018    ,
                   L0007019    , L0007020    , L0007021    , L0007022    , L0007023
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, L0007024   , L0007025   , . . .   ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF HRA IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
634875.00	4175900.00	13.06776	(04122902)	634925.00	4175900.00	12.89545	(04122902)
634975.00	4175900.00	12.75443	(04122902)	635025.00	4175900.00	12.60104	(04122902)
635075.00	4175900.00	12.46126	(04122902)	635125.00	4175900.00	12.30179	(04122902)
635175.00	4175900.00	12.16702	(04122902)	635225.00	4175900.00	12.03094	(04122902)
635275.00	4175900.00	11.88648	(04122902)	635325.00	4175900.00	11.77195	(04122902)
635375.00	4175900.00	11.60293	(04122902)	635425.00	4175900.00	11.47786	(04122902)
635475.00	4175900.00	11.34581	(04122902)	635525.00	4175900.00	11.22258	(04122902)
634325.00	4175950.00	14.29782	(04122902)	634375.00	4175950.00	14.12501	(04122902)
634425.00	4175950.00	13.93633	(04122902)	634475.00	4175950.00	13.76976	(04122902)
634525.00	4175950.00	13.59449	(04122902)	634575.00	4175950.00	13.42136	(04122902)
634625.00	4175950.00	13.28437	(04122902)	634675.00	4175950.00	13.14351	(04122902)
634875.00	4175950.00	12.50950	(04122902)	634925.00	4175950.00	12.35938	(04122902)
634975.00	4175950.00	12.23255	(04122902)	635025.00	4175950.00	12.08597	(04122902)
635075.00	4175950.00	11.94929	(04122902)	635125.00	4175950.00	11.82097	(04122902)
635175.00	4175950.00	11.69483	(04122902)	635225.00	4175950.00	11.54695	(04122902)
635275.00	4175950.00	11.44331	(04122902)	635325.00	4175950.00	11.29179	(04122902)
635375.00	4175950.00	11.17430	(04122902)	635425.00	4175950.00	11.05085	(04122902)
635475.00	4175950.00	10.92679	(04122902)	635525.00	4175950.00	10.78777	(04122902)
635575.00	4175950.00	10.67831	(04122902)	634725.00	4176000.00	12.42372	(06011619)

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        634925.00   4176000.00       11.77628  (06011619)                634975.00
4176000.00       11.65303  (06011619)
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4176000.00       11.35534  (06011619)
        635125.00   4176000.00       11.22429  (06011619)                635175.00
4176000.00       11.08379  (06011619)
        635225.00   4176000.00       10.95080  (06011619)                635275.00
4176000.00       10.83291  (06011619)
        635325.00   4176000.00       10.68723  (06011619)                635375.00
4176000.00       10.56544  (06011619)
        635425.00   4176000.00       10.42825  (06011619)                635475.00
4176000.00       10.30417  (06011619)
        635525.00   4176000.00       10.18144  (06011619)                635575.00
4176000.00       10.04994  (06011619)
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4176050.00       11.50683  (06011619)
        634925.00   4176050.00       11.38521  (06011619)                634975.00
4176050.00       11.26197  (06011619)
        635025.00   4176050.00       11.13121  (06011619)                635075.00
4176050.00       11.00601  (06011619)
        635125.00   4176050.00       10.89431  (06011619)                635175.00
4176050.00       10.77169  (06011619)
        635225.00   4176050.00       10.65426  (06011619)                635275.00
4176050.00       10.53604  (06011619)
        635325.00   4176050.00       10.41625  (06011619)                635375.00
4176050.00       10.29081  (06011619)
        635425.00   4176050.00       10.18911  (06011619)                635475.00
4176050.00       10.07033  (06011619)
        635525.00   4176050.00        9.95765  (06011619)                635575.00
4176050.00        9.83641  (06011619)
        634825.00   4176100.00       11.29070  (07011518)                634875.00
4176100.00       11.12067  (07011518)
        634925.00   4176100.00       10.93159  (07011518)                634975.00
4176100.00       10.76223  (07011518)
        635025.00   4176100.00       10.60192  (07011518)                635075.00
4176100.00       10.43377  (07011518)
        635125.00   4176100.00       10.26488  (07011518)                635175.00
4176100.00       10.09585  (07011518)
        635225.00   4176100.00        9.94021  (07011518)                635275.00
4176100.00        9.80511  (06011619)
        635325.00   4176100.00        9.71132  (06011619)                635375.00
4176100.00        9.62390  (06011619)
 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                          ***        01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                         ***        15:43:26

                                   PAGE 254
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*
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*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: OFFSITE5 ***

INCLUDING SOURCE(S): L0006998 , L0006999 , L0007000 , L0007001 , L0007002 , L0007003 , L0007004 , L0007005 , L0007006 , L0007007 , L0007008 , L0007009 , L0007010 , L0007011 , L0007012 , L0007013 , L0007014 , L0007015 , L0007016 , L0007017 , L0007018 , L0007019 , L0007020 , L0007021 , L0007022 , L0007023 , L0007024 , L0007025 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF HRA IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
635425.00	4176100.00	9.51059	(06011619)	635475.00	4176100.00	9.42946	(06011619)
635525.00	4176100.00	9.33859	(06011619)	635575.00	4176100.00	9.24956	(06011619)
634825.00	4176150.00	11.92342	(07011518)	634875.00	4176150.00	11.76999	(07011518)
634925.00	4176150.00	11.58775	(07011518)	634975.00	4176150.00	11.43083	(07011518)
635025.00	4176150.00	11.27856	(07011518)	635075.00	4176150.00	11.10946	(07011518)
635125.00	4176150.00	10.96189	(07011518)	635175.00	4176150.00	10.80071	(07011518)
635225.00	4176150.00	10.63006	(07011518)	635275.00	4176150.00	10.49494	(07011518)
635325.00	4176150.00	10.33912	(07011518)	635375.00	4176150.00	10.19248	(07011518)
635425.00	4176150.00	10.02855	(07011518)	635475.00	4176150.00	9.89356	(07011518)
635525.00	4176150.00	9.75018	(07011518)	635575.00	4176150.00	9.61120	(07011518)
634875.00	4176200.00	11.87508	(07011518)	634925.00	4176200.00	11.72044	(07011518)
634975.00	4176200.00	11.57653	(07011518)	635125.00	4176200.00	11.16801	(07011518)
635175.00	4176200.00	11.04033	(07011518)	635225.00	4176200.00	10.89275	(07011518)
635525.00	4176200.00	10.10100	(07011518)	635575.00	4176200.00	9.96508	(07011518)
634325.00	4176250.00	17.50710	(07012309)	634375.00			

4176250.00 17.18463 (07012309)
634875.00 4176250.00 14.08357 (07012309) 634925.00
4176250.00 13.78945 (07012309)
634975.00 4176250.00 13.49001 (07012309) 635025.00
4176250.00 13.18958 (07012309)
635075.00 4176250.00 12.88680 (07012309) 635125.00
4176250.00 12.60255 (07012309)
635175.00 4176250.00 12.30969 (07012309) 635225.00
4176250.00 12.04631 (07012309)
635275.00 4176250.00 11.75849 (07012309) 635375.00
4176250.00 11.19092 (07012309)
635425.00 4176250.00 10.93173 (07012309) 635525.00
4176250.00 10.42352 (07012309)
635575.00 4176250.00 10.17217 (07012309) 634875.00
4176300.00 16.57916 (07012309)
634925.00 4176300.00 16.31184 (07012309) 634975.00
4176300.00 16.04249 (07012309)
635025.00 4176300.00 15.77109 (07012309) 635075.00
4176300.00 15.49124 (07012309)
635125.00 4176300.00 15.21897 (07012309) 635175.00
4176300.00 14.92278 (07012309)
635225.00 4176300.00 14.65648 (07012309) 635275.00
4176300.00 14.40486 (07012309)
635375.00 4176300.00 13.80908 (07012309) 635425.00
4176300.00 13.54234 (07012309)
635525.00 4176300.00 13.00689 (07012309) 635575.00
4176300.00 12.71488 (07012309)
634875.00 4176350.00 18.04888 (07012309) 634925.00
4176350.00 17.86601 (07012309)
634975.00 4176350.00 17.66537 (07012309) 635025.00
4176350.00 17.46594 (07012309)
635075.00 4176350.00 17.24869 (07012309) 635125.00
4176350.00 17.03559 (07012309)
635175.00 4176350.00 16.79739 (07012309) 635225.00
4176350.00 16.60624 (07012309)
635275.00 4176350.00 16.37820 (07012309) 635375.00
4176350.00 15.86984 (07012309)
635425.00 4176350.00 15.63881 (07012309) 635525.00
4176350.00 15.14859 (07012309)
635575.00 4176350.00 14.87871 (07012309) 634875.00
4176400.00 18.18870 (07012309)
634925.00 4176400.00 18.11810 (07012309) 634975.00
4176400.00 18.03327 (07012309)
635025.00 4176400.00 17.93688 (07012309) 635075.00
4176400.00 17.83470 (07012309)
635125.00 4176400.00 17.72556 (07012309) 635175.00
4176400.00 17.60833 (07012309)
635225.00 4176400.00 17.48705 (07012309) 635275.00
4176400.00 17.35598 (07012309)
635425.00 4176400.00 16.84813 (07012309) 635525.00

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: OFFSITE5 ***
                                    INCLUDING SOURCE(S):   L0006998   , L0006999
, L0007000   , L0007001   , L0007002   ,
                  L0007003   , L0007004   , L0007005   , L0007006   , L0007007
, L0007008   , L0007009   , L0007010   ,
                  L0007011   , L0007012   , L0007013   , L0007014   , L0007015
, L0007016   , L0007017   , L0007018   ,
                  L0007019   , L0007020   , L0007021   , L0007022   , L0007023
, L0007024   , L0007025   , . . .   ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF HRA   IN MICROGRAMS/M**3
                    **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        635575.00   4176400.00   16.29518 (07012309)   633650.00
4176200.00   19.54145 (07012309)
        633700.00   4176200.00   19.13607 (07012309)   633850.00
4176200.00   17.95321 (07012309)
        633850.00   4176250.00   20.44743 (07012309)   633950.00
4176250.00   19.83783 (07012309)
        634350.00   4176250.00   17.35854 (07012309)   633750.00
4176300.00   21.29052 (07012309)
        633950.00   4176300.00   20.78704 (07012309)   634000.00
4176300.00   20.62364 (07012309)
        634050.00   4176300.00   20.41102 (07012309)   634050.00
4176350.00   19.78353 (07012309)
        634050.00   4176400.00   17.43075 (07012309)   634000.00
4176450.00   16.00595 (07011318)
        634050.00   4176450.00   15.96068 (07011318)   634200.00
4176600.00   16.29241 (07021221)
        634100.00   4176650.00   16.77997 (04121118)   634150.00
4176650.00   16.52929 (04121118)
        634200.00   4176650.00   16.21795 (04121118)   634200.00
4176850.00   16.24465 (06020205)

634200.00 4176900.00 15.88259 (04021505) 634250.00
4176900.00 15.58100 (06020205)
634300.00 4176900.00 15.53649 (06020205) 634400.00
4177000.00 15.22594 (04021505)
634450.00 4177000.00 15.06070 (04021505) 634500.00
4177000.00 14.88526 (04021505)
634550.00 4177000.00 14.67003 (04021505) 634400.00
4177050.00 14.26222 (04021505)
634450.00 4177050.00 14.31204 (04021505) 634500.00
4177050.00 14.41057 (04021505)
634550.00 4177050.00 14.42931 (04021505) 633750.00
4173175.00 12.34931 (05020802)
634450.00 4173325.00 12.31887 (04022221) 634450.00
4173375.00 12.51159 (04022221)
634350.00 4173475.00 12.47695 (04022221) 634300.00
4173625.00 12.89879 (06022418)
634300.00 4173675.00 12.94999 (06022418) 634350.00
4173675.00 12.63140 (06022418)
634250.00 4173775.00 12.03853 (06022418) 633950.00
4173825.00 14.17225 (06022418)
634050.00 4173825.00 13.39215 (06022418) 634100.00
4173825.00 12.83588 (06022418)
634250.00 4173825.00 11.85735 (05021801) 634250.00
4173975.00 9.11668 (04022222)
634150.00 4174125.00 13.18969 (04022222) 634200.00
4174125.00 13.42591 (04022222)
634250.00 4174125.00 13.57734 (04022222) 634250.00
4174225.00 13.66625 (04022222)
634350.00 4174225.00 13.66263 (08120417) 634400.00
4174225.00 13.54574 (08120417)
634200.00 4174325.00 14.03014 (08120417) 634250.00
4174325.00 13.65127 (08120417)
634200.00 4174375.00 16.01137 (06100508) 634250.00
4174425.00 21.67844 (06100508)
634000.00 4174475.00 20.79746 (06100508) 634250.00
4174525.00 30.31980 (06100508)
634100.00 4174575.00 31.90760 (06100508) 634150.00
4174575.00 32.51947 (06100508)
634200.00 4174575.00 33.01546 (06100508) 634250.00
4174575.00 33.41077 (06100508)
634250.00 4174625.00 35.07821 (06100508) 634250.00
4174675.00 35.05598 (06100508)
634250.00 4174825.00 25.89683 (06100508) 634250.00
4174875.00 21.14290 (06100508)
634200.00 4174925.00 17.57205 (06100508) 634250.00
4174925.00 16.39970 (06100508)
631950.00 4173950.00 41.01598 (06011617) 631550.00
4174000.00 33.19688 (05030408)
631550.00 4174050.00 33.95513 (05030408) 631750.00
4174250.00 32.18399 (06011617)

```
        632300.00   4174300.00       23.24066  (08022005)                632350.00
4174300.00       22.43771  (08022005)
        632300.00   4174350.00       22.50970  (04022221)                632350.00
4174350.00       22.89356  (04022221)
        631600.00   4174400.00       29.21419  (04021501)                631650.00
4174400.00       26.80685  (04021501)
        632000.00   4174400.00       25.63559  (06012018)                632000.00
4174450.00       26.02898  (08022005)
        631950.00   4174500.00       26.26528  (08022005)                632150.00
4174950.00       27.04437  (08120417)
 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                          ***        01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                         ***        15:43:26

                                    PAGE 256
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  OFFSITE5 ***
                                    INCLUDING SOURCE(S):     L0006998    , L0006999
, L0007000    , L0007001    , L0007002    ,
                  L0007003    , L0007004    , L0007005    , L0007006    , L0007007
, L0007008    , L0007009    , L0007010    ,
                  L0007011    , L0007012    , L0007013    , L0007014    , L0007015
, L0007016    , L0007017    , L0007018    ,
                  L0007019    , L0007020    , L0007021    , L0007022    , L0007023
, L0007024    , L0007025    ,  . . .      ,

                                               *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                         ** CONC OF HRA      IN MICROGRAMS/M**3
                    **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - -
        632200.00   4174950.00       26.58458  (08120417)

 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                          ***        01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                         ***        15:43:26

                                    PAGE 257
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
```

VALUES FOR SOURCE GROUP: ONSITE   ***
                                INCLUDING SOURCE(S):   L0007410   , L0007411
, L0007412   , L0007413   , L0007414   ,
                L0007415   , L0007416   , L0007417   , L0007418   , L0007419
, L0007420   , L0007421   , L0007422   ,
                L0007423   , L0007424   , L0007425   , L0007426   , L0007427
, L0007428   , L0007429   , L0007430   ,
                L0007431   , L0007432   , L0007433   , L0007434   , L0007435
, L0007436   , L0007437   , . . .   ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF HRA   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        631050.00   4178050.00   17.48798 (05122923)   631150.00
4178250.00   18.14478 (08011010)
        631250.00   4178250.00   18.12084 (05022703)   631350.00
4178250.00   18.52268 (07121206)
        631450.00   4178250.00   18.59268 (06011018)   631550.00
4178250.00   19.24570 (06011018)
        631650.00   4178250.00   21.63697 (05011001)   631750.00
4178250.00   23.48850 (05011001)
        631150.00   4178350.00   17.85404 (08011010)   631450.00
4178350.00   18.28890 (06011018)
        631550.00   4178350.00   19.03174 (05011001)   631650.00
4178350.00   21.94402 (05011001)
        631750.00   4178350.00   22.50694 (07012805)   630650.00
4178450.00   14.20946 (05122923)
        630850.00   4178450.00   15.37343 (06021721)   631050.00
4178450.00   17.49202 (08011010)
        631150.00   4178450.00   16.48287 (07121206)   631250.00
4178450.00   16.89655 (05022705)
        631550.00   4178450.00   19.95397 (05011001)   631650.00
4178450.00   21.19661 (05011001)
        631750.00   4178450.00   21.12153 (06122519)   631850.00
4178450.00   21.96128 (05122622)
        631950.00   4178450.00   22.28437 (07122907)   632050.00
4178450.00   22.53601 (06021720)
        632150.00   4178450.00   22.83893 (06020123)   630550.00
4178550.00   13.53488 (05122923)
        630650.00   4178550.00   13.13086 (06021721)   630750.00
4178550.00   14.49943 (06021721)
        630950.00   4178550.00   17.00966 (08011010)   631050.00
4178550.00   16.34415 (08011010)

631250.00 4178550.00 15.95874 (06011018) 631350.00
4178550.00 16.53740 (06011018)
631450.00 4178550.00 17.84395 (05011001) 631550.00
4178550.00 20.01509 (05011001)
631650.00 4178550.00 20.37346 (07012805) 631750.00
4178550.00 20.78183 (06122519)
631850.00 4178550.00 20.90711 (05122622) 631950.00
4178550.00 21.37635 (07122907)
632050.00 4178550.00 20.96910 (06021720) 632150.00
4178550.00 22.04957 (06020123)
630450.00 4178650.00 12.91257 (05122923) 630550.00
4178650.00 12.44245 (04120903)
630650.00 4178650.00 13.67195 (06021721) 630750.00
4178650.00 15.06604 (08011010)
630850.00 4178650.00 16.50300 (08011010) 630950.00
4178650.00 16.24932 (08011010)
631050.00 4178650.00 15.13918 (07121206) 631150.00
4178650.00 15.31532 (05022705)
631250.00 4178650.00 15.76046 (06011018) 631350.00
4178650.00 15.85000 (06012819)
631450.00 4178650.00 18.46231 (05011001) 631550.00
4178650.00 19.24906 (05011001)
631650.00 4178650.00 19.25260 (06122519) 631750.00
4178650.00 19.94785 (05122622)
631850.00 4178650.00 20.15278 (07122907) 631950.00
4178650.00 20.53715 (06021720)
632050.00 4178650.00 20.24650 (06020123) 632150.00
4178650.00 20.90529 (06020123)
630350.00 4178750.00 12.34197 (05122923) 630450.00
4178750.00 11.81908 (04120903)
630550.00 4178750.00 12.91641 (06021721) 630650.00
4178750.00 14.28501 (08011010)
630750.00 4178750.00 15.94322 (08011010) 630850.00
4178750.00 16.08035 (08011010)
630950.00 4178750.00 14.54429 (08011010) 631050.00
4178750.00 14.64714 (05022705)
631150.00 4178750.00 14.86156 (06011018) 631250.00
4178750.00 15.10608 (06012819)
631350.00 4178750.00 16.70045 (05011001) 631450.00
4178750.00 18.34317 (05011001)
631550.00 4178750.00 18.57813 (07012805) 631650.00
4178750.00 18.97926 (06122519)
631750.00 4178750.00 19.13998 (05122622) 631850.00
4178750.00 19.55302 (07122907)
631950.00 4178750.00 19.43427 (06021720) 632050.00
4178750.00 19.93403 (06020123)
632150.00 4178750.00 20.02890 (07021207) 630250.00
4178850.00 11.80825 (05122923)
630350.00 4178850.00 11.45308 (06013009) 630450.00
4178850.00 12.19977 (06021721)

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ONSITE ***
INCLUDING SOURCE(S): L0007410 , L0007411
, L0007412 , L0007413 , L0007414 ,
L0007415 , L0007416 , L0007417 , L0007418 , L0007419
, L0007420 , L0007421 , L0007422 ,
L0007423 , L0007424 , L0007425 , L0007426 , L0007427
, L0007428 , L0007429 , L0007430 ,
L0007431 , L0007432 , L0007433 , L0007434 , L0007435
, L0007436 , L0007437 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS
***

** CONC OF HRA IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
630550.00	4178850.00	13.58703	(08011010)	630650.00	4178850.00	15.33794	(08011010)
630750.00	4178850.00	15.83737	(08011010)	630850.00	4178850.00	14.71204	(08011010)
630950.00	4178850.00	13.91875	(05022705)	631050.00	4178850.00	13.88099	(06011018)
631150.00	4178850.00	14.39772	(06011018)	631250.00	4178850.00	14.84513	(05011001)
631350.00	4178850.00	17.10363	(05011001)	631450.00	4178850.00	17.61267	(07012805)
631550.00	4178850.00	17.60980	(06122519)	631650.00	4178850.00	18.22367	(05122622)
631750.00	4178850.00	18.25920	(07122907)	631850.00	4178850.00	18.75780	(06021720)
631950.00	4178850.00	17.96984	(06021720)	632050.00	4178850.00	19.27970	(06020123)
632150.00	4178850.00	19.48537	(07021207)	630250.00	4178950.00	11.24409	(06013009)
630350.00	4178950.00	11.53033	(06021721)	630450.00	4178950.00	12.83509	(08011010)
630550.00	4178950.00	14.82091	(08011010)	630650.00			

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4178950.00       15.49908  (08011010)
        630750.00   4178950.00       14.77998  (08011010)                630850.00
4178950.00       13.20063  (07121206)
        630950.00   4178950.00       13.35198  (05022705)                631050.00
4178950.00       13.75425  (06011018)
        631150.00   4178950.00       13.85956  (06012819)                631250.00
4178950.00       15.64534  (05011001)
        631350.00   4178950.00       16.87058  (05011001)                631450.00
4178950.00       17.00608  (07012805)
        631550.00   4178950.00       17.37245  (06122519)                631650.00
4178950.00       17.59489  (05122622)
        631750.00   4178950.00       17.90855  (07122907)                631850.00
4178950.00       17.95764  (06021720)
        631950.00   4178950.00       17.91755  (06020123)                632050.00
4178950.00       18.30414  (06020123)
        632150.00   4178950.00       18.69056  (07021207)                629950.00
4179050.00       10.79761  (05122923)
        630250.00   4179050.00       10.90331  (06021721)                630350.00
4179050.00       12.15064  (08011010)
        630450.00   4179050.00       14.20623  (08011010)                630550.00
4179050.00       15.18116  (08011010)
        630650.00   4179050.00       14.72465  (08011010)                630750.00
4179050.00       12.99523  (08011010)
        630850.00   4179050.00       12.83947  (05022705)                630950.00
4179050.00       13.02184  (06011018)
        631050.00   4179050.00       13.20504  (06012819)                631150.00
4179050.00       14.07850  (05011001)
        631250.00   4179050.00       15.87417  (05011001)                631350.00
4179050.00       16.24598  (07012805)
        631450.00   4179050.00       16.20138  (06122519)                631550.00
4179050.00       16.69234  (05122622)
        631650.00   4179050.00       16.59759  (07122907)                631750.00
4179050.00       17.13450  (07122907)
        631850.00   4179050.00       16.85594  (06021720)                631950.00
4179050.00       17.61971  (06020123)
        632050.00   4179050.00       17.57715  (07021207)                632150.00
4179050.00       18.04213  (04022120)
        629850.00   4179150.00       10.34016  (05122923)                629950.00
4179150.00       10.84783  (06013009)
        630150.00   4179150.00       10.31077  (06021721)                630250.00
4179150.00       11.46972  (08011010)
        630350.00   4179150.00       13.55885  (08011010)                630450.00
4179150.00       14.74082  (08011010)
        630550.00   4179150.00       14.67893  (08011010)                630650.00
4179150.00       13.29368  (08011010)
        630750.00   4179150.00       12.27973  (05022705)                630850.00
4179150.00       12.20917  (06011018)
        630950.00   4179150.00       12.67582  (06011018)                631050.00
4179150.00       12.71172  (06012819)
        631150.00   4179150.00       14.67385  (05011001)                631250.00
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4179150.00   15.55348 (05011001)
        631350.00   4179150.00   15.64611 (07012805)   631450.00
4179150.00   16.01355 (06122519)
        631550.00   4179150.00   16.20354 (05122622)   631650.00
4179150.00   16.41842 (07122907)
        631750.00   4179150.00   16.63310 (06021720)   631850.00
4179150.00   16.02709 (06020123)
        631950.00   4179150.00   16.94822 (06020123)   632050.00
4179150.00   17.18862 (07021207)

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ONSITE   ***
                                   INCLUDING SOURCE(S):   L0007410   , L0007411
, L0007412   , L0007413   , L0007414   ,
                L0007415   , L0007416   , L0007417   , L0007418   , L0007419
, L0007420   , L0007421   , L0007422   ,
                L0007423   , L0007424   , L0007425   , L0007426   , L0007427
, L0007428   , L0007429   , L0007430   ,
                L0007431   , L0007432   , L0007433   , L0007434   , L0007435
, L0007436   , L0007437   , . . .   ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF HRA   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        632150.00   4179150.00   17.44820 (08011009)   630850.00
4179250.00   12.13742 (06011018)
        630950.00   4179250.00   12.23101 (06012819)   631050.00
4177625.00   21.16046 (05022704)
        631100.00   4177725.00   20.87870 (04120901)   631100.00
4177825.00   20.19313 (04120902)
        631350.00   4178225.00   18.76200 (07121206)   631400.00
4178225.00   18.96481 (05022705)
        631450.00   4178225.00   18.96648 (05022705)   631500.00
4178225.00   19.32167 (06011018)
        631100.00   4178275.00   17.60197 (08011010)   631150.00
4178275.00   18.22071 (08011010)

631200.00 4178275.00 18.24661 (08011010) 631250.00 4178275.00 17.96154 (05022703)
631300.00 4178275.00 18.20987 (07121206) 631350.00 4178275.00 18.36438 (05022705)
631400.00 4178275.00 18.52311 (05022705) 631450.00 4178275.00 18.61209 (06011018)
631500.00 4178275.00 19.03427 (06011018) 630950.00 4178325.00 16.35389 (06021721)
631100.00 4178325.00 17.90350 (08011010) 631150.00 4178325.00 18.05891 (08011010)
631200.00 4178325.00 17.69330 (08011010) 631250.00 4178325.00 17.65449 (07121206)
631300.00 4178325.00 17.80572 (07121206) 631400.00 4178325.00 17.87063 (06011018)
631450.00 4178325.00 18.45829 (06011018) 631500.00 4178325.00 18.51088 (06011018)
630950.00 4178375.00 16.18990 (06021721) 631200.00 4178375.00 17.08469 (07121206)
631300.00 4178375.00 17.54625 (05022705) 631400.00 4178375.00 17.84359 (06011018)
631450.00 4178375.00 18.06837 (06011018) 631500.00 4178375.00 18.15494 (06012819)
630800.00 4178425.00 14.71491 (06021721) 630850.00 4178425.00 15.37804 (06021721)
631050.00 4178425.00 17.59999 (08011010) 631200.00 4178425.00 16.87723 (07121206)
631250.00 4178425.00 17.03231 (05022705) 631300.00 4178425.00 17.11976 (05022705)
630650.00 4178475.00 13.84566 (05122923) 630800.00 4178475.00 14.91569 (06021721)
630850.00 4178475.00 15.31059 (06021721) 631050.00 4178475.00 17.30944 (08011010)
631200.00 4178475.00 16.50174 (05022705) 631250.00 4178475.00 16.71448 (05022705)
631300.00 4178475.00 16.55603 (06011018) 631450.00 4178475.00 17.26159 (06012819)
631500.00 4178475.00 18.68142 (05011001) 630550.00 4178525.00 13.81501 (05122923)
630600.00 4178525.00 13.52265 (05122923) 630650.00 4178525.00 13.21500 (04120903)
630700.00 4178525.00 13.77877 (06021721) 630750.00 4178525.00 14.46536 (06021721)
630950.00 4178525.00 17.02391 (08011010) 631050.00 4178525.00 16.73644 (08011010)
631200.00 4178525.00 16.28754 (05022705) 631250.00 4178525.00 16.20464 (05022705)
631300.00 4178525.00 16.53841 (06011018) 631350.00 4178525.00 16.76292 (06011018)
631400.00 4178525.00 16.82254 (06012819) 631450.00 4178525.00 17.56468 (05011001)

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ONSITE   ***
                                   INCLUDING SOURCE(S):   L0007410   , L0007411
, L0007412   , L0007413   , L0007414   ,
                  L0007415   , L0007416   , L0007417   , L0007418   , L0007419
, L0007420   , L0007421   , L0007422   ,
                  L0007423   , L0007424   , L0007425   , L0007426   , L0007427
, L0007428   , L0007429   , L0007430   ,
                  L0007431   , L0007432   , L0007433   , L0007434   , L0007435
, L0007436   , L0007437   , . . .   ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                             ** CONC OF HRA   IN MICROGRAMS/M**3
                    **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        630500.00   4178625.00   12.90895 (05122923)   630550.00
4178625.00   12.52774 (04120903)
        630600.00   4178625.00   12.91764 (06021721)   630650.00

4178625.00 13.60164 (06021721)
630700.00 4178625.00 14.07953 (06021721) 630750.00
4178625.00 14.69721 (08011010)
630800.00 4178625.00 15.77319 (08011010) 630850.00
4178625.00 16.47304 (08011010)
631000.00 4178625.00 15.91906 (08011010) 631050.00
4178625.00 15.28375 (07121206)
631100.00 4178625.00 15.38205 (05022705) 631150.00
4178625.00 15.52763 (05022705)
631200.00 4178625.00 15.39366 (06011018) 631250.00
4178625.00 15.87480 (06011018)
631300.00 4178625.00 15.95445 (06011018) 631350.00
4178625.00 16.05327 (06012819)
631400.00 4178625.00 17.01490 (05011001) 631450.00
4178625.00 18.37880 (05011001)
631500.00 4178625.00 19.24024 (05011001) 631100.00
4175700.00 62.19360 (04121304)
631150.00 4175700.00 63.72472 (04121304) 631200.00
4175700.00 65.37911 (04121304)
631250.00 4175700.00 66.96749 (04121304) 631100.00
4175750.00 62.82791 (04121304)
631150.00 4175750.00 64.77565 (04121304) 629400.00
4179050.00 9.51045 (07012618)
629450.00 4179050.00 9.69212 (05022704) 629500.00
4179050.00 9.85475 (05022704)
629400.00 4179100.00 9.51141 (05022704) 629450.00
4179100.00 9.65821 (05022704)
629400.00 4179150.00 9.46559 (05022704) 629500.00
4179150.00 9.43527 (05022704)
629550.00 4179150.00 9.56455 (04120901) 629600.00
4179150.00 9.81082 (04120901)
629650.00 4179150.00 9.95035 (04120901) 629700.00
4179150.00 9.97375 (04120901)
629800.00 4179200.00 10.16504 (06013009) 629400.00
4179300.00 9.03526 (04120901)
629400.00 4179350.00 9.06955 (04120901) 634375.00
4175350.00 50.57620 (04022222)
634425.00 4175350.00 49.62845 (04022222) 635425.00
4175350.00 39.86870 (06100508)
635425.00 4175400.00 35.52145 (06100508) 635475.00
4175400.00 34.01852 (06100508)
634325.00 4175450.00 59.10373 (06100508) 634475.00
4175450.00 59.85340 (06100508)
634525.00 4175450.00 59.30560 (06100508) 634525.00
4175500.00 59.45055 (06100508)
634325.00 4175550.00 65.24206 (06100508) 634525.00
4175550.00 54.94337 (06100508)
634575.00 4175550.00 52.25398 (06100508) 634775.00
4175550.00 41.94407 (06100508)
634825.00 4175550.00 39.54340 (06100508) 634625.00

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4175600.00       45.56959  (08011020)
        634675.00   4175600.00       43.62487  (08011020)                634725.00
4175600.00       41.81481  (08011020)
        634775.00   4175600.00       40.11155  (05122420)                634825.00
4175600.00       38.95189  (05122420)
        634875.00   4175600.00       37.74638  (05122420)                634925.00
4175600.00       36.58066  (05122420)
        635375.00   4175600.00       27.90891  (07012218)                634275.00
4175650.00       62.35668  (08011020)
        634325.00   4175650.00       59.27801  (08011020)                634575.00
4175650.00       47.81851  (05122420)
        634625.00   4175650.00       45.88007  (05122420)                634675.00
4175650.00       44.08922  (05122420)
        634725.00   4175650.00       42.46821  (07012218)                634775.00
4175650.00       40.95097  (07012218)
        634825.00   4175650.00       39.60040  (07012218)                634875.00
4175650.00       38.21346  (07012218)
        634925.00   4175650.00       36.84397  (07012218)                634975.00
4175650.00       35.60965  (07012218)
        635025.00   4175650.00       34.34589  (05020819)                635325.00
4175650.00       28.79225  (05020819)
        635375.00   4175650.00       27.96644  (05020819)                634475.00
4175700.00       52.34522  (07012218)
        634525.00   4175700.00       50.17962  (05020819)                634575.00
4175700.00       48.16498  (05020819)
        634625.00   4175700.00       46.18697  (05020819)                634675.00
4175700.00       44.40833  (05020819)
 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                          ***        01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                       ***        15:43:26

                                   PAGE 261
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ONSITE   ***
                                   INCLUDING SOURCE(S):     L0007410    , L0007411
, L0007412    , L0007413    , L0007414    ,
                  L0007415    , L0007416    , L0007417    , L0007418    , L0007419
, L0007420    , L0007421    , L0007422    ,
                  L0007423    , L0007424    , L0007425    , L0007426    , L0007427
, L0007428    , L0007429    , L0007430    ,
                  L0007431    , L0007432    , L0007433    , L0007434    , L0007435
, L0007436    , L0007437    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                             ** CONC OF HRA      IN MICROGRAMS/M**3
```

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
634725.00	4175700.00	42.84758	(05020819)	634775.00	4175700.00	41.19287	(05020819)
634825.00	4175700.00	39.55417	(05020819)	634875.00	4175700.00	38.14979	(05020819)
634925.00	4175700.00	36.64867	(05020819)	634975.00	4175700.00	35.35406	(05020819)
635025.00	4175700.00	34.00496	(05020819)	635075.00	4175700.00	33.00162	(07021102)
635125.00	4175700.00	32.06772	(07021102)	634425.00	4175750.00	54.96461	(07021102)
634575.00	4175750.00	48.47236	(07021102)	634625.00	4175750.00	46.53720	(07021102)
634675.00	4175750.00	44.71680	(07021102)	634725.00	4175750.00	43.10178	(07021102)
634775.00	4175750.00	41.47030	(07021102)	634825.00	4175750.00	39.96209	(07021102)
634875.00	4175750.00	38.45921	(07021102)	634925.00	4175750.00	37.11817	(07021102)
634975.00	4175750.00	35.83382	(07021102)	635025.00	4175750.00	34.58167	(07021102)
635075.00	4175750.00	33.48267	(07021102)	635125.00	4175750.00	32.40195	(07021102)
635175.00	4175750.00	31.28993	(07021102)	635225.00	4175750.00	30.38245	(07021102)
634325.00	4175800.00	60.82519	(06012822)	634375.00	4175800.00	58.01594	(06012822)
634425.00	4175800.00	55.29508	(06012822)	634475.00	4175800.00	52.96411	(06012822)
634525.00	4175800.00	50.71032	(06012822)	634575.00	4175800.00	48.50837	(06012822)
634625.00	4175800.00	46.73873	(06012822)	634675.00	4175800.00	44.77547	(06012822)
634725.00	4175800.00	43.16380	(06012822)	634775.00	4175800.00	41.50365	(06012822)
634825.00	4175800.00	40.09390	(06012822)	634875.00	4175800.00	38.56054	(06012822)
634925.00	4175800.00	37.28462	(06012822)	634975.00	4175800.00	36.02230	(06012822)
635025.00	4175800.00	34.81049	(06012822)	635075.00	4175800.00	33.64803	(06012822)
635125.00	4175800.00	32.58499	(06012822)	635175.00	4175800.00	31.63308	(06012822)
635225.00	4175800.00	30.66421	(06012822)	635275.00	4175800.00	29.78942	(06012822)

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        635325.00   4175800.00       28.87253  (06012822)                634225.00
4175850.00       67.24923  (04122902)
        634325.00   4175850.00       61.01058  (04122902)                634375.00
4175850.00       58.04787  (04122902)
        634425.00   4175850.00       55.43186  (04122902)                634475.00
4175850.00       53.03267  (04122902)
        634525.00   4175850.00       50.75079  (04122902)                634575.00
4175850.00       48.58270  (04122902)
        634625.00   4175850.00       46.80867  (04122902)                634675.00
4175850.00       44.85068  (04122902)
        634725.00   4175850.00       43.07860  (04122902)                634775.00
4175850.00       41.62530  (04122902)
        634825.00   4175850.00       40.06511  (04122902)                634875.00
4175850.00       38.60600  (04122902)
        634925.00   4175850.00       37.20857  (04122902)                634975.00
4175850.00       35.96330  (04122902)
        635025.00   4175850.00       34.73177  (04122902)                635075.00
4175850.00       33.64533  (04122902)
        635125.00   4175850.00       32.58885  (04122902)                635175.00
4175850.00       31.59236  (04122902)
        635225.00   4175850.00       30.58872  (04122902)                635275.00
4175850.00       29.73776  (04122902)
        635325.00   4175850.00       28.84665  (04122902)                635375.00
4175850.00       27.95739  (04122902)
        635425.00   4175850.00       27.16043  (04122902)                634225.00
4175900.00       68.62273  (06121322)
        634325.00   4175900.00       61.20207  (06121322)                634375.00
4175900.00       57.63294  (06121322)
        634425.00   4175900.00       54.28989  (06121322)                634475.00
4175900.00       51.43315  (07011518)
        634525.00   4175900.00       49.08222  (07011518)                634575.00
4175900.00       46.89154  (07011518)
        634625.00   4175900.00       44.92268  (07011518)                634675.00
4175900.00       43.12819  (07011518)
        634725.00   4175900.00       41.26729  (07011518)                634775.00
4175900.00       39.72068  (06011619)
 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                          ***        01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                       ***        15:43:26

                                   PAGE 262
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ONSITE   ***
                                   INCLUDING SOURCE(S):     L0007410    , L0007411
, L0007412    , L0007413    , L0007414    ,
                L0007415    , L0007416    , L0007417    , L0007418    , L0007419
, L0007420    , L0007421    , L0007422    ,
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                L0007423    , L0007424    , L0007425    , L0007426    , L0007427
, L0007428    , L0007429    , L0007430    ,
                L0007431    , L0007432    , L0007433    , L0007434    , L0007435
, L0007436    , L0007437    ,  . . .      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                      ** CONC OF HRA      IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        634875.00   4175900.00       36.85154  (06011619)               634925.00
4175900.00       35.50773  (06011619)
        634975.00   4175900.00       34.33098  (06011619)               635025.00
4175900.00       33.17036  (06011619)
        635075.00   4175900.00       32.10452  (06011619)               635125.00
4175900.00       31.02833  (06011619)
        635175.00   4175900.00       30.07106  (06011619)               635225.00
4175900.00       29.15081  (06011619)
        635275.00   4175900.00       28.24620  (06011619)               635325.00
4175900.00       27.46517  (04122902)
        635375.00   4175900.00       26.59972  (04122902)               635425.00
4175900.00       25.89467  (04122902)
        635475.00   4175900.00       25.19321  (04122902)               635525.00
4175900.00       24.54092  (04122902)
        634325.00   4175950.00       64.70605  (06121322)               634375.00
4175950.00       61.73749  (06121322)
        634425.00   4175950.00       58.79079  (06121322)               634475.00
4175950.00       56.13712  (06121322)
        634525.00   4175950.00       53.54654  (06121322)               634575.00
4175950.00       51.09413  (06121322)
        634625.00   4175950.00       48.97818  (06121322)               634675.00
4175950.00       46.93071  (06121322)
        634875.00   4175950.00       39.32078  (06121322)               634925.00
4175950.00       37.67764  (06121322)
        634975.00   4175950.00       36.21490  (06121322)               635025.00
4175950.00       34.73327  (06121322)
        635075.00   4175950.00       33.36041  (06121322)               635125.00
4175950.00       32.08231  (06121322)
        635175.00   4175950.00       30.86862  (06121322)               635225.00
4175950.00       29.62809  (06121322)
        635275.00   4175950.00       28.60020  (06121322)               635325.00
4175950.00       27.45043  (06121322)
        635375.00   4175950.00       26.52256  (07011518)               635425.00
4175950.00       25.72765  (07011518)
        635475.00   4175950.00       24.96077  (07011518)               635525.00
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4175950.00       24.18183  (07011518)
        635575.00   4175950.00       23.50858  (07011518)                634725.00
4176000.00       45.53343  (06121322)
        634925.00   4176000.00       39.33695  (06121322)                634975.00
4176000.00       38.11029  (06121322)
        635025.00   4176000.00       36.81003  (06121322)                635075.00
4176000.00       35.47373  (06121322)
        635125.00   4176000.00       34.30561  (06121322)                635175.00
4176000.00       33.12325  (06121322)
        635225.00   4176000.00       32.01336  (06121322)                635275.00
4176000.00       31.00777  (06121322)
        635325.00   4176000.00       29.90375  (06121322)                635375.00
4176000.00       28.94218  (06121322)
        635425.00   4176000.00       27.94101  (06121322)                635475.00
4176000.00       27.02805  (06121322)
        635525.00   4176000.00       26.14852  (06121322)                635575.00
4176000.00       25.25830  (06121322)
        634825.00   4176050.00       41.23405  (07021221)                634875.00
4176050.00       39.70627  (07011318)
        634925.00   4176050.00       38.52244  (07011318)                634975.00
4176050.00       37.33838  (07011318)
        635025.00   4176050.00       36.12648  (07011318)                635075.00
4176050.00       34.96444  (07011318)
        635125.00   4176050.00       33.89395  (07011318)                635175.00
4176050.00       32.94664  (06121322)
        635225.00   4176050.00       32.06198  (06121322)                635275.00
4176050.00       31.18395  (06121322)
        635325.00   4176050.00       30.31046  (06121322)                635375.00
4176050.00       29.42289  (06121322)
        635425.00   4176050.00       28.66340  (06121322)                635475.00
4176050.00       27.83647  (06121322)
        635525.00   4176050.00       27.05283  (06121322)                635575.00
4176050.00       26.24473  (06121322)
        634825.00   4176100.00       41.81518  (07021221)                634875.00
4176100.00       40.54579  (07021221)
        634925.00   4176100.00       39.12399  (07021221)                634975.00
4176100.00       37.81827  (07021221)
        635025.00   4176100.00       36.55960  (07021221)                635075.00
4176100.00       35.25157  (07021221)
        635125.00   4176100.00       33.94623  (07021221)                635175.00
4176100.00       32.65246  (07021221)
        635225.00   4176100.00       31.44842  (07021221)                635275.00
4176100.00       30.38135  (07011318)
        635325.00   4176100.00       29.61104  (07011318)                635375.00
4176100.00       28.87484  (07011318)
 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                           ***        01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                           ***       15:43:26
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ONSITE ***
INCLUDING SOURCE(S): L0007410 , L0007411 , L0007412 , L0007413 , L0007414 ,
L0007415 , L0007416 , L0007417 , L0007418 , L0007419 , L0007420 , L0007421 , L0007422 ,
L0007423 , L0007424 , L0007425 , L0007426 , L0007427 , L0007428 , L0007429 , L0007430 ,
L0007431 , L0007432 , L0007433 , L0007434 , L0007435 , L0007436 , L0007437 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF HRA IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
635425.00	4176100.00	28.01415	(07011318)	635475.00	4176100.00	27.32073	(07011318)
635525.00	4176100.00	26.58601	(07011318)	635575.00	4176100.00	25.86883	(07011318)
634825.00	4176150.00	41.77552	(06011620)	634875.00	4176150.00	40.38644	(06011620)
634925.00	4176150.00	38.77737	(06011620)	634975.00	4176150.00	37.56486	(04121118)
635025.00	4176150.00	36.45088	(04121118)	635075.00	4176150.00	35.21331	(04121118)
635125.00	4176150.00	34.07855	(04121118)	635175.00	4176150.00	33.01662	(07021221)
635225.00	4176150.00	32.01353	(07021221)	635275.00	4176150.00	31.18071	(07021221)
635325.00	4176150.00	30.22904	(07021221)	635375.00	4176150.00	29.31710	(07021221)
635425.00	4176150.00	28.31819	(07021221)	635475.00	4176150.00	27.46235	(07021221)
635525.00	4176150.00	26.56892	(07021221)	635575.00	4176150.00	25.70221	(07021221)
634875.00	4176200.00	40.12017	(06020205)	634925.00	4176200.00	38.74976	(06020205)
634975.00	4176200.00	37.38653	(06020205)	635125.00	4176200.00	34.00343	(06011620)
635175.00	4176200.00	32.95452	(06011620)	635225.00	4176200.00	31.78001	(06011620)

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        635525.00   4176200.00       26.75418  (07021221)                635575.00
4176200.00       26.05725  (07021221)
        634325.00   4176250.00       60.84163  (05121218)                634375.00
4176250.00       58.53380  (06012919)
        634875.00   4176250.00       39.38201  (04021505)                634925.00
4176250.00       38.41197  (04021505)
        634975.00   4176250.00       37.30240  (04021505)                635025.00
4176250.00       36.09294  (04021505)
        635075.00   4176250.00       34.79989  (04021505)                635125.00
4176250.00       33.74711  (06020205)
        635175.00   4176250.00       32.75697  (06020205)                635225.00
4176250.00       31.80762  (06020205)
        635275.00   4176250.00       30.73077  (06020205)                635375.00
4176250.00       29.03335  (06011620)
        635425.00   4176250.00       28.23907  (06011620)                635525.00
4176250.00       26.58887  (06011620)
        635575.00   4176250.00       25.92694  (04121118)                634875.00
4176300.00       39.44488  (06020208)
        634925.00   4176300.00       38.23373  (06020208)                634975.00
4176300.00       36.88771  (06020208)
        635025.00   4176300.00       35.43799  (06020208)                635075.00
4176300.00       34.06002  (04021505)
        635125.00   4176300.00       33.35573  (04021505)                635175.00
4176300.00       32.49145  (04021505)
        635225.00   4176300.00       31.63366  (04021505)                635275.00
4176300.00       30.75033  (04021505)
        635375.00   4176300.00       28.82720  (06020205)                635425.00
4176300.00       28.09593  (06020205)
        635525.00   4176300.00       26.51125  (06020205)                635575.00
4176300.00       25.71243  (06011620)
        634875.00   4176350.00       39.15146  (05010918)                634925.00
4176350.00       37.81235  (05011419)
        634975.00   4176350.00       36.70851  (05011419)                635025.00
4176350.00       35.47304  (05011419)
        635075.00   4176350.00       34.32991  (06020208)                635125.00
4176350.00       33.35455  (06020208)
        635175.00   4176350.00       32.22323  (06020208)                635225.00
4176350.00       31.13608  (06020208)
        635275.00   4176350.00       29.90682  (06020208)                635375.00
4176350.00       28.58022  (04021505)
        635425.00   4176350.00       27.92891  (04021505)                635525.00
4176350.00       26.41921  (04021505)
        635575.00   4176350.00       25.55596  (04021505)                634875.00
4176400.00       38.76634  (06012919)
        634925.00   4176400.00       37.54707  (06012919)                634975.00
4176400.00       36.23887  (05010918)
        635025.00   4176400.00       35.22339  (05010918)                635075.00
4176400.00       34.05080  (05010918)
        635125.00   4176400.00       33.09260  (05011419)                635175.00
4176400.00       32.17267  (05011419)
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 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ONSITE   ***
                                   INCLUDING SOURCE(S):   L0007410   , L0007411
, L0007412   , L0007413   , L0007414   ,
                  L0007415   , L0007416   , L0007417   , L0007418   , L0007419
, L0007420   , L0007421   , L0007422   ,
                  L0007423   , L0007424   , L0007425   , L0007426   , L0007427
, L0007428   , L0007429   , L0007430   ,
                  L0007431   , L0007432   , L0007433   , L0007434   , L0007435
, L0007436   , L0007437   , . . .   ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF HRA   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        635575.00   4176400.00   25.35346 (04021505)   633650.00
4176200.00   145.81336 (08120919)
        633700.00   4176200.00   133.88500 (07121419)   633850.00
4176200.00   103.28843 (04121105)
        633850.00   4176250.00   100.72115 (04121104)   633950.00
4176250.00   89.61870 (04121105)
        634350.00   4176250.00   59.56680 (06012919)   633750.00
4176300.00   124.32159 (08021808)
        633950.00   4176300.00   87.20125 (04121104)   634000.00
4176300.00   82.35522 (08121019)
        634050.00   4176300.00   78.24718 (04121105)   634050.00
4176350.00   76.33895 (08121019)
        634050.00   4176400.00   79.25123 (07121419)   634000.00
4176450.00   82.10919 (04120904)
        634050.00   4176450.00   78.67771 (08120919)   634200.00
4176600.00   64.07475 (08021808)
        634100.00   4176650.00   66.75493 (04011022)   634150.00

4176650.00 67.51171 (08021808)
634200.00 4176650.00 65.45525 (08021808) 634200.00
4176850.00 58.15534 (08021908)
634200.00 4176900.00 57.32400 (08021908) 634250.00
4176900.00 54.94686 (08021908)
634300.00 4176900.00 50.38573 (08021908) 634400.00
4177000.00 45.72755 (08021908)
634450.00 4177000.00 43.85596 (08121003) 634500.00
4177000.00 42.00526 (08121003)
634550.00 4177000.00 41.56201 (04011022) 634400.00
4177050.00 46.76381 (08021908)
634450.00 4177050.00 43.41196 (08021908) 634500.00
4177050.00 41.84333 (08121003)
634550.00 4177050.00 40.52721 (08121003) 633750.00
4173175.00 35.73805 (04122824)
634450.00 4173325.00 36.55754 (04122822) 634450.00
4173375.00 37.54068 (04122822)
634350.00 4173475.00 38.38699 (04122822) 634300.00
4173625.00 41.52019 (04122822)
634300.00 4173675.00 42.04299 (04122822) 634350.00
4173675.00 40.66830 (05020818)
634250.00 4173775.00 43.57183 (04122822) 633950.00
4173825.00 47.28738 (06020105)
634050.00 4173825.00 42.45403 (04022318) 634100.00
4173825.00 40.11788 (04122822)
634250.00 4173825.00 43.25446 (04122822) 634250.00
4173975.00 44.48119 (05020818)
634150.00 4174125.00 46.41794 (05020818) 634200.00
4174125.00 43.21099 (05020818)
634250.00 4174125.00 43.06741 (05011521) 634250.00
4174225.00 46.18171 (05011521)
634350.00 4174225.00 45.42785 (05011520) 634400.00
4174225.00 43.75149 (05011520)
634200.00 4174325.00 47.65108 (05011521) 634250.00
4174325.00 45.95389 (05011520)
634200.00 4174375.00 48.17881 (05011520) 634250.00
4174425.00 45.13643 (05011520)
634000.00 4174475.00 52.27919 (05011521) 634250.00
4174525.00 40.86095 (04022018)
634100.00 4174575.00 54.41790 (05011520) 634150.00
4174575.00 48.85356 (05011520)
634200.00 4174575.00 43.14138 (04022018) 634250.00
4174575.00 43.69153 (04022018)
634250.00 4174625.00 44.38169 (04022018) 634250.00
4174675.00 42.81342 (04022018)
634250.00 4174825.00 41.92054 (07012702) 634250.00
4174875.00 43.08170 (06011617)
634200.00 4174925.00 46.75097 (06011617) 634250.00
4174925.00 48.21371 (06011617)
631950.00 4173950.00 25.76139 (07122718) 631550.00

4174000.00   23.91205 (08121017)
        631550.00   4174050.00   24.02635 (04012317)   631750.00
4174250.00   30.55195 (08121017)
        632300.00   4174300.00   48.24902 (05012117)   632350.00
4174300.00   50.04570 (05030118)
        632300.00   4174350.00   52.68726 (05012117)   632350.00
4174350.00   50.94897 (05030118)
        631600.00   4174400.00   37.08022 (05110618)   631650.00
4174400.00   41.34835 (04012317)
        632000.00   4174400.00   52.18757 (07121217)   632000.00
4174450.00   51.19925 (07121217)
        631950.00   4174500.00   57.98919 (04012317)   632150.00
4174950.00   77.59188 (05110618)

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ONSITE   ***
                                    INCLUDING SOURCE(S):   L0007410   , L0007411
, L0007412   , L0007413   , L0007414   ,
                   L0007415   , L0007416   , L0007417   , L0007418   , L0007419
, L0007420   , L0007421   , L0007422   ,
                   L0007423   , L0007424   , L0007425   , L0007426   , L0007427
, L0007428   , L0007429   , L0007430   ,
                   L0007431   , L0007432   , L0007433   , L0007434   , L0007435
, L0007436   , L0007437   , . . .   ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                         ** CONC OF HRA   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        632200.00   4174950.00   81.49518 (04012317)

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: PUMP ***
INCLUDING SOURCE(S): PUMP ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF HRA IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
631050.00	4178050.00	22.60190	(04121223)	631150.00	4178250.00	21.28201	(07012719)
631250.00	4178250.00	21.84027	(07122917)	631350.00	4178250.00	22.83410	(07122917)
631450.00	4178250.00	22.80175	(08122718)	631550.00	4178250.00	23.67057	(07021218)
631650.00	4178250.00	23.10083	(04022021)	631750.00	4178250.00	23.96245	(04022021)
631150.00	4178350.00	20.77729	(07012719)	631450.00	4178350.00	22.21666	(08122718)
631550.00	4178350.00	22.36863	(07021218)	631650.00	4178350.00	22.82176	(04022021)
631750.00	4178350.00	22.79030	(07012720)	630650.00	4178450.00	17.49116	(04120903)
630850.00	4178450.00	19.67337	(04120908)	631050.00	4178450.00	19.77591	(07012719)
631150.00	4178450.00	20.34668	(07122917)	631250.00	4178450.00	20.69404	(07122917)
631550.00	4178450.00	20.79884	(04022021)	631650.00	4178450.00	21.64895	(04022021)
631750.00	4178450.00	21.14301	(07012720)	631850.00	4178450.00	20.35059	(07012722)
631950.00	4178450.00	21.89595	(07012722)	632050.00	4178450.00	20.79382	(07012722)
632150.00	4178450.00	23.28750	(08011009)	630550.00	4178550.00	16.86914	(04120903)
630650.00	4178550.00	17.58147	(04121223)	630750.00	4178550.00	18.68561	(04120908)
630950.00	4178550.00	18.63487	(07012719)	631050.00	4178550.00	19.09307	(07122917)
631250.00	4178550.00	19.50379	(08122718)	631350.00	4178550.00	20.34437	(08122718)
631450.00	4178550.00	20.53121	(07021218)	631550.00	4178550.00	20.63188	(04022021)

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        631650.00   4178550.00       20.75265  (07012720)                631750.00
4178550.00       19.56745  (07012720)
        631850.00   4178550.00       20.32995  (07012722)                631950.00
4178550.00       20.90197  (07012722)
        632050.00   4178550.00       20.57865  (06013008)                632150.00
4178550.00       22.60595  (08011009)
        630450.00   4178650.00       16.32395  (04120903)                630550.00
4178650.00       16.75715  (04121223)
        630650.00   4178650.00       17.63862  (04120908)                630750.00
4178650.00       17.99407  (04120908)
        630850.00   4178650.00       17.57053  (07012719)                630950.00
4178650.00       18.23022  (07012719)
        631050.00   4178650.00       19.04192  (07122917)                631150.00
4178650.00       18.88729  (07122917)
        631250.00   4178650.00       19.40836  (08122718)                631350.00
4178650.00       19.77421  (07021218)
        631450.00   4178650.00       19.15342  (04022021)                631550.00
4178650.00       19.98898  (04022021)
        631650.00   4178650.00       19.78157  (07012720)                631750.00
4178650.00       18.13315  (07012722)
        631850.00   4178650.00       20.11076  (07012722)                631950.00
4178650.00       19.77015  (07012722)
        632050.00   4178650.00       20.26203  (06013008)                632150.00
4178650.00       21.86499  (08011009)
        630350.00   4178750.00       15.90904  (04120903)                630450.00
4178750.00       15.87810  (04121223)
        630550.00   4178750.00       16.89424  (04120908)                630650.00
4178750.00       17.30362  (04120908)
        630750.00   4178750.00       16.81050  (04120908)                630850.00
4178750.00       17.45976  (07012719)
        630950.00   4178750.00       17.97180  (07122917)                631050.00
4178750.00       18.36842  (07122917)
        631150.00   4178750.00       18.26604  (08122718)                631250.00
4178750.00       18.88000  (07021218)
        631350.00   4178750.00       18.86517  (07021218)                631450.00
4178750.00       19.02852  (04022021)
        631550.00   4178750.00       19.25486  (07012720)                631650.00
4178750.00       18.55121  (07012720)
        631750.00   4178750.00       18.41325  (07012722)                631850.00
4178750.00       19.51470  (07012722)
        631950.00   4178750.00       18.57249  (07012722)                632050.00
4178750.00       19.87949  (08011009)
        632150.00   4178750.00       20.94721  (08011009)                630250.00
4178850.00       15.46626  (04120903)
        630350.00   4178850.00       15.16462  (04121223)                630450.00
4178850.00       16.05709  (04120908)
 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                          ***        01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                         ***       15:43:26
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: PUMP ***
INCLUDING SOURCE(S): PUMP ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF HRA IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
630550.00	4178850.00	16.76540	(04120908)	630650.00	4178850.00	16.36870	(04120908)
630750.00	4178850.00	16.65590	(07012719)	630850.00	4178850.00	16.90100	(07122917)
630950.00	4178850.00	17.73985	(07122917)	631050.00	4178850.00	17.28895	(07122917)
631150.00	4178850.00	18.02983	(08122718)	631250.00	4178850.00	18.35175	(07021218)
631350.00	4178850.00	17.74160	(04022021)	631450.00	4178850.00	18.50863	(04022021)
631550.00	4178850.00	18.45594	(07012720)	631650.00	4178850.00	17.02370	(07012720)
631750.00	4178850.00	18.37158	(07012722)	631850.00	4178850.00	18.77315	(07012722)
631950.00	4178850.00	18.12908	(06013008)	632050.00	4178850.00	19.72274	(08011009)
632150.00	4178850.00	20.02415	(08011009)	630250.00	4178950.00	14.43209	(04121223)
630350.00	4178950.00	15.27390	(04120908)	630450.00	4178950.00	16.03291	(04120908)
630550.00	4178950.00	16.11580	(04120908)	630650.00	4178950.00	15.76729	(07012719)
630750.00	4178950.00	16.29790	(07012719)	630850.00	4178950.00	16.90385	(07122917)
630950.00	4178950.00	17.06183	(07122917)	631050.00	4178950.00	17.10606	(08122718)
631150.00	4178950.00	17.57155	(07021218)	631250.00	4178950.00	17.51903	(07021218)
631350.00	4178950.00	17.71139	(04022021)	631450.00	4178950.00	17.88544	(07012720)
631550.00	4178950.00	17.41406	(07012720)	631650.00	4178950.00	16.70352	(07012722)

631750.00 4178950.00 18.11257 (07012722) 631850.00
4178950.00 17.78114 (07012722)
631950.00 4178950.00 18.02090 (06013008) 632050.00
4178950.00 19.37575 (08011009)
632150.00 4178950.00 19.20199 (07021108) 629950.00
4179050.00 14.92728 (04120903)
630250.00 4179050.00 14.63457 (04121223) 630350.00
4179050.00 15.40622 (04120908)
630450.00 4179050.00 15.63637 (04120908) 630550.00
4179050.00 15.01860 (07012719)
630650.00 4179050.00 15.61101 (07012719) 630750.00
4179050.00 16.01377 (07122917)
630850.00 4179050.00 16.49176 (07122917) 630950.00
4179050.00 16.09175 (08122718)
631050.00 4179050.00 16.90344 (08122718) 631150.00
4179050.00 17.14650 (07021218)
631250.00 4179050.00 16.52567 (04022021) 631350.00
4179050.00 17.31807 (04022021)
631450.00 4179050.00 17.35001 (07012720) 631550.00
4179050.00 16.17475 (07012720)
631650.00 4179050.00 16.76782 (07012722) 631750.00
4179050.00 17.62054 (07012722)
631850.00 4179050.00 16.77954 (07012722) 631950.00
4179050.00 17.77319 (06013008)
632050.00 4179050.00 18.91095 (08011009) 632150.00
4179050.00 18.79278 (07021108)
629850.00 4179150.00 14.35822 (04120903) 629950.00
4179150.00 14.17224 (04120903)
630150.00 4179150.00 13.95734 (04121223) 630250.00
4179150.00 14.72795 (04120908)
630350.00 4179150.00 15.06879 (04120908) 630450.00
4179150.00 14.69614 (04120908)
630550.00 4179150.00 15.06001 (07012719) 630650.00
4179150.00 15.23671 (07122917)
630750.00 4179150.00 15.90943 (07122917) 630850.00
4179150.00 15.68353 (07122917)
630950.00 4179150.00 16.05716 (08122718) 631050.00
4179150.00 16.48195 (07021218)
631150.00 4179150.00 16.39015 (07021218) 631250.00
4179150.00 16.52008 (04022021)
631350.00 4179150.00 16.72371 (07012720) 631450.00
4179150.00 16.52632 (07012720)
631550.00 4179150.00 15.04782 (07012722) 631650.00
4179150.00 16.69308 (07012722)
631750.00 4179150.00 17.05047 (07012722) 631850.00
4179150.00 16.26581 (06013008)
631950.00 4179150.00 17.47076 (08011009) 632050.00
4179150.00 18.36449 (08011009)

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: PUMP ***
INCLUDING SOURCE(S): PUMP ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF HRA IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
632150.00	4179150.00	18.29790	(07021108)	630850.00	4179250.00	15.18900	(08122718)
630950.00	4179250.00	15.77968	(08122718)	631050.00	4177625.00	28.24586	(04010518)
631100.00	4177725.00	27.67126	(04120903)	631100.00	4177825.00	25.97980	(04120903)
631350.00	4178225.00	23.15305	(07122917)	631400.00	4178225.00	22.92579	(07122917)
631450.00	4178225.00	22.85098	(08122718)	631500.00	4178225.00	23.55522	(08122718)
631100.00	4178275.00	20.61611	(04120908)	631150.00	4178275.00	21.27817	(07012719)
631200.00	4178275.00	21.49082	(07012719)	631250.00	4178275.00	21.94738	(07122917)
631300.00	4178275.00	22.50115	(07122917)	631350.00	4178275.00	22.51239	(07122917)
631400.00	4178275.00	21.99684	(07122917)	631450.00	4178275.00	22.80004	(08122718)
631500.00	4178275.00	23.13025	(08122718)	630950.00	4178325.00	20.90961	(04120908)
631100.00	4178325.00	20.62225	(07012719)	631150.00	4178325.00	20.98555	(07012719)
631200.00	4178325.00	21.24828	(07122917)	631250.00	4178325.00	21.88048	(07122917)
631300.00	4178325.00	22.16864	(07122917)	631400.00	4178325.00	21.87293	(08122718)
631450.00	4178325.00	22.50231	(08122718)	631500.00	4178325.00	22.79027	(07021218)
630950.00	4178375.00	20.43077	(04120908)	631200.00	4178375.00	21.12268	(07122917)

631300.00 4178375.00 21.39324 (07122917) 631400.00
4178375.00 21.75814 (08122718)
631450.00 4178375.00 21.91820 (07021218) 631500.00
4178375.00 22.27667 (07021218)
630800.00 4178425.00 19.33652 (04120908) 630850.00
4178425.00 19.81978 (04120908)
631050.00 4178425.00 19.88545 (07012719) 631200.00
4178425.00 20.93150 (07122917)
631250.00 4178425.00 21.03831 (07122917) 631300.00
4178425.00 20.60046 (07122917)
630650.00 4178475.00 17.57175 (04121223) 630800.00
4178475.00 19.31014 (04120908)
630850.00 4178475.00 19.46517 (04120908) 631050.00
4178475.00 19.63118 (07012719)
631200.00 4178475.00 20.59326 (07122917) 631250.00
4178475.00 20.36800 (07122917)
631300.00 4178475.00 20.22453 (08122718) 631450.00
4178475.00 21.23881 (07021218)
631500.00 4178475.00 20.92201 (07021218) 630550.00
4178525.00 17.32912 (04120903)
630600.00 4178525.00 17.02982 (04121223) 630650.00
4178525.00 17.53536 (04121223)
630700.00 4178525.00 18.14963 (04120908) 630750.00
4178525.00 18.75780 (04120908)
630950.00 4178525.00 18.64514 (07012719) 631050.00
4178525.00 19.24579 (07012719)
631200.00 4178525.00 20.08021 (07122917) 631250.00
4178525.00 19.59416 (07122917)
631300.00 4178525.00 20.19272 (08122718) 631350.00
4178525.00 20.53668 (08122718)
631400.00 4178525.00 20.76072 (07021218) 631450.00
4178525.00 20.82863 (07021218)
631500.00 4178525.00 20.17913 (07021218) 630500.00
4178575.00 17.02993 (04120903)
630550.00 4178575.00 16.52230 (04121223) 630600.00
4178575.00 17.16633 (04121223)
630650.00 4178575.00 17.44919 (04120908) 630700.00
4178575.00 18.16175 (04120908)
630750.00 4178575.00 18.60486 (04120908) 630800.00
4178575.00 18.56550 (04120908)
630850.00 4178575.00 18.29134 (04120908) 631000.00
4178575.00 18.86082 (07012719)
631050.00 4178575.00 19.14116 (07122917) 631200.00
4178575.00 19.43999 (07122917)
631250.00 4178575.00 19.52515 (08122718) 631300.00
4178575.00 20.03161 (08122718)
631350.00 4178575.00 20.17909 (07021218) 631400.00
4178575.00 20.41659 (07021218)
631450.00 4178575.00 20.09039 (07021218) 631500.00
4178575.00 19.97872 (04022021)

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: PUMP ***
INCLUDING SOURCE(S): PUMP ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF HRA IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
630500.00	4178625.00	16.10101	(04120903)	630550.00	4178625.00	16.71027	(04121223)
630600.00	4178625.00	17.13776	(04121223)	630650.00	4178625.00	17.58333	(04120908)
630700.00	4178625.00	18.06740	(04120908)	630750.00	4178625.00	18.21464	(04120908)
630800.00	4178625.00	18.09736	(04120908)	630850.00	4178625.00	17.63989	(04120908)
631000.00	4178625.00	18.48963	(07122917)	631050.00	4178625.00	19.10414	(07122917)
631100.00	4178625.00	19.32215	(07122917)	631150.00	4178625.00	19.13919	(07122917)
631200.00	4178625.00	18.80644	(08122718)	631250.00	4178625.00	19.47870	(08122718)
631300.00	4178625.00	19.71325	(08122718)	631350.00	4178625.00	19.95754	(07021218)
631400.00	4178625.00	19.89104	(07021218)	631450.00	4178625.00	19.37917	(07021218)
631500.00	4178625.00	19.88645	(04022021)	631100.00	4175700.00	36.35939	(04121304)
631150.00	4175700.00	37.11350	(04121304)	631200.00	4175700.00	37.98016	(04121304)
631250.00	4175700.00	38.75739	(04121304)	631100.00	4175750.00	33.68765	(04010517)
631150.00	4175750.00	34.50298	(04010517)	629400.00	4179050.00	12.64858	(04021521)
629450.00	4179050.00	12.59256	(04010518)	629500.00	4179050.00	13.15661	(04010518)

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        629400.00   4179100.00       12.37562  (04010518)                629450.00
4179100.00       12.94919  (04010518)
        629400.00   4179150.00       12.70171  (04010518)                629500.00
4179150.00       13.56363  (04010518)
        629550.00   4179150.00       13.87476  (04010518)                629600.00
4179150.00       14.06029  (04010518)
        629650.00   4179150.00       14.12043  (04010518)                629700.00
4179150.00       14.01625  (04010518)
        629800.00   4179200.00       14.17669  (04120903)                629400.00
4179300.00       13.06945  (04010518)
        629400.00   4179350.00       12.99790  (04010518)                634375.00
4175350.00       98.96443  (04022224)
        634425.00   4175350.00       90.06536  (04022224)                635425.00
4175350.00       28.08545  (08011001)
        635425.00   4175400.00       30.44351  (05122223)                635475.00
4175400.00       29.50209  (05122223)
        634325.00   4175450.00       99.83801  (08011001)                634475.00
4175450.00       88.88501  (08011001)
        634525.00   4175450.00       83.88554  (08011001)                634525.00
4175500.00       76.40501  (08011001)
        634325.00   4175550.00      100.93055  (05122223)                634525.00
4175550.00       85.71191  (05122223)
        634575.00   4175550.00       81.24940  (05122223)                634775.00
4175550.00       64.77718  (05121217)
        634825.00   4175550.00       61.23095  (05121217)                634625.00
4175600.00       76.99649  (05121217)
        634675.00   4175600.00       71.90692  (05121217)                634725.00
4175600.00       67.44032  (05121217)
        634775.00   4175600.00       62.81970  (05121217)                634825.00
4175600.00       58.80105  (05121217)
        634875.00   4175600.00       54.81177  (05121217)                634925.00
4175600.00       51.21001  (05121217)
        635375.00   4175600.00       28.94995  (05121217)                634275.00
4175650.00      109.98964  (05121217)
        634325.00   4175650.00      103.17121  (05121217)                634575.00
4175650.00       72.47381  (05121217)
        634625.00   4175650.00       67.16792  (05121217)                634675.00
4175650.00       57.24515  (05121217)
        634725.00   4175650.00       53.59233  (05121217)                634775.00
4175650.00       49.91700  (05121217)
        634825.00   4175650.00       46.90193  (05121217)                634875.00
4175650.00       43.82625  (05121217)
        634925.00   4175650.00       40.87673  (05121217)                634975.00
4175650.00       38.47819  (05121217)
        635025.00   4175650.00       35.95203  (05121217)                635325.00
4175650.00       26.19778  (05121217)
        635375.00   4175650.00       25.08886  (05121217)                634475.00
4175700.00       59.68096  (05121217)
        634525.00   4175700.00       55.29228  (05121217)                634575.00
4175700.00       51.24926  (05121217)
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: PUMP ***
INCLUDING SOURCE(S): PUMP ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF HRA IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
634725.00	4175700.00	41.43359	(05121217)	634775.00	4175700.00	38.58546	(05121217)
634825.00	4175700.00	35.81714	(05121217)	634875.00	4175700.00	33.75224	(05121217)
634925.00	4175700.00	31.41995	(05121217)	634975.00	4175700.00	29.70214	(05121217)
635025.00	4175700.00	27.82463	(05121217)	635075.00	4175700.00	26.54258	(08011019)
635125.00	4175700.00	26.06114	(08011019)	634425.00	4175750.00	41.36917	(05121217)
634575.00	4175750.00	33.62054	(05121217)	634625.00	4175750.00	31.45627	(05121217)
634675.00	4175750.00	29.67561	(06011619)	634725.00	4175750.00	29.40140	(06011619)
634775.00	4175750.00	28.77478	(06011619)	634825.00	4175750.00	28.27511	(06011619)
634875.00	4175750.00	27.53436	(06011619)	634925.00	4175750.00	27.08056	(06011619)
634975.00	4175750.00	26.59303	(06011619)	635025.00	4175750.00	26.00756	(06011619)
635075.00	4175750.00	25.73246	(06011619)	635125.00	4175750.00	25.34518	(06011619)
635175.00	4175750.00	24.67103	(06011619)	635225.00	4175750.00	24.55310	(06011619)
634325.00	4175800.00	35.55597	(06011619)	634375.00	4175800.00	34.91845	(06011619)

634425.00 4175800.00 33.93216 (06011619) 634475.00
4175800.00 33.52680 (06011619)
634525.00 4175800.00 32.87282 (06011619) 634575.00
4175800.00 31.94027 (06011619)
634625.00 4175800.00 31.86694 (06011619) 634675.00
4175800.00 30.84267 (06011619)
634725.00 4175800.00 30.54745 (06011619) 634775.00
4175800.00 29.79369 (06011619)
634825.00 4175800.00 29.54619 (06011619) 634875.00
4175800.00 28.62071 (06011619)
634925.00 4175800.00 28.27330 (06011619) 634975.00
4175800.00 27.74501 (06011619)
635025.00 4175800.00 27.16660 (06011619) 635075.00
4175800.00 26.55431 (06011619)
635125.00 4175800.00 26.08285 (06011619) 635175.00
4175800.00 25.81594 (06011619)
635225.00 4175800.00 25.32979 (06011619) 635275.00
4175800.00 25.02861 (06011619)
635325.00 4175800.00 24.41499 (06011619) 634225.00
4175850.00 36.04110 (07011518)
634325.00 4175850.00 35.26809 (07011518) 634375.00
4175850.00 34.33389 (07011518)
634425.00 4175850.00 33.72015 (07011518) 634475.00
4175850.00 33.17657 (07011518)
634525.00 4175850.00 32.49688 (07011518) 634575.00
4175850.00 31.70895 (07011518)
634625.00 4175850.00 31.62647 (07011518) 634675.00
4175850.00 30.64844 (07011518)
634725.00 4175850.00 29.89233 (07011518) 634775.00
4175850.00 29.76610 (07011518)
634825.00 4175850.00 29.02957 (07011518) 634875.00
4175850.00 28.34244 (07011518)
634925.00 4175850.00 27.65460 (06011619) 634975.00
4175850.00 27.23580 (06011619)
635025.00 4175850.00 26.65788 (06011619) 635075.00
4175850.00 26.32695 (06011619)
635125.00 4175850.00 25.91736 (06011619) 635175.00
4175850.00 25.53273 (06011619)
635225.00 4175850.00 24.96380 (06011619) 635275.00
4175850.00 24.75214 (06011619)
635325.00 4175850.00 24.26075 (06011619) 635375.00
4175850.00 23.64854 (06011619)
635425.00 4175850.00 23.22251 (06011619) 634225.00
4175900.00 37.35624 (06121322)
634325.00 4175900.00 36.10453 (06121322) 634375.00
4175900.00 34.78333 (06121322)
634425.00 4175900.00 33.41469 (06121322) 634475.00
4175900.00 32.53440 (07012318)
634525.00 4175900.00 31.89049 (07012318) 634575.00
4175900.00 31.23302 (07012318)

634625.00 4175900.00 30.87528 (07011518) 634675.00 4175900.00 30.76714 (07011518)
634725.00 4175900.00 30.00840 (07011518) 634775.00 4175900.00 29.71939 (07011518)

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: PUMP ***
INCLUDING SOURCE(S): PUMP ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF HRA IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
634875.00	4175900.00	28.52437	(07011518)	634925.00	4175900.00	27.83051	(07011518)
634975.00	4175900.00	27.47171	(07011518)	635025.00	4175900.00	26.94231	(07011518)
635075.00	4175900.00	26.54134	(07011518)	635125.00	4175900.00	25.89914	(07011518)
635175.00	4175900.00	25.50466	(07011518)	635225.00	4175900.00	25.07536	(07011518)
635275.00	4175900.00	24.54061	(07011518)	635325.00	4175900.00	24.29859	(07011518)
635375.00	4175900.00	23.49230	(07011518)	635425.00	4175900.00	23.10737	(07011518)
635475.00	4175900.00	22.64644	(07011518)	635525.00	4175900.00	22.25370	(07011518)
634325.00	4175950.00	35.28826	(07011318)	634375.00	4175950.00	34.62641	(07011318)
634425.00	4175950.00	33.63442	(07011318)	634475.00	4175950.00	32.89555	(07011318)
634525.00	4175950.00	31.97109	(07011318)	634575.00	4175950.00	31.24247	(07012318)
634625.00	4175950.00	31.08737	(07012318)	634675.00	4175950.00	30.83120	(07012318)
634875.00	4175950.00	28.34117	(07012318)	634925.00	4175950.00	27.74066	(07012318)

634975.00 4175950.00 27.38042 (07012318) 635025.00
4175950.00 26.76305 (07012318)
635075.00 4175950.00 26.23624 (07012318) 635125.00
4175950.00 25.77949 (07012318)
635175.00 4175950.00 25.32564 (07012318) 635225.00
4175950.00 24.62266 (07012318)
635275.00 4175950.00 24.36928 (07012318) 635325.00
4175950.00 23.60612 (07012318)
635375.00 4175950.00 23.23991 (07011518) 635425.00
4175950.00 22.84924 (07011518)
635475.00 4175950.00 22.43880 (07011518) 635525.00
4175950.00 21.88992 (07011518)
635575.00 4175950.00 21.58449 (07011518) 634725.00
4176000.00 29.68893 (07012418)
634925.00 4176000.00 27.04513 (07012318) 634975.00
4176000.00 26.96538 (07012318)
635025.00 4176000.00 26.58654 (07012318) 635075.00
4176000.00 25.98216 (07012318)
635125.00 4176000.00 25.66445 (07012318) 635175.00
4176000.00 25.18984 (07012318)
635225.00 4176000.00 24.77826 (07012318) 635275.00
4176000.00 24.52486 (07012318)
635325.00 4176000.00 23.89908 (07012318) 635375.00
4176000.00 23.53915 (07012318)
635425.00 4176000.00 22.98147 (07012318) 635475.00
4176000.00 22.55362 (07012318)
635525.00 4176000.00 22.12282 (07012318) 635575.00
4176000.00 21.59273 (07012318)
634825.00 4176050.00 28.39922 (07012418) 634875.00
4176050.00 27.95685 (07012418)
634925.00 4176050.00 27.50048 (07012418) 634975.00
4176050.00 26.98148 (07012418)
635025.00 4176050.00 26.32579 (07012418) 635075.00
4176050.00 25.71655 (07012418)
635125.00 4176050.00 25.25409 (07012418) 635175.00
4176050.00 24.62747 (07012418)
635225.00 4176050.00 24.04740 (07012418) 635275.00
4176050.00 23.54655 (07012318)
635325.00 4176050.00 23.19149 (07012318) 635375.00
4176050.00 22.75154 (07012318)
635425.00 4176050.00 22.54773 (07012318) 635475.00
4176050.00 22.13709 (07012318)
635525.00 4176050.00 21.77433 (07012318) 635575.00
4176050.00 21.31627 (07012318)
634825.00 4176100.00 28.03997 (06121320) 634875.00
4176100.00 27.56099 (06121320)
634925.00 4176100.00 26.92151 (07012418) 634975.00
4176100.00 26.64201 (07012418)
635025.00 4176100.00 26.41395 (07012418) 635075.00
4176100.00 26.01382 (07012418)

635125.00   4176100.00   25.54204 (07012418)   635175.00
4176100.00   25.01484 (07012418)
635225.00   4176100.00   24.61015 (07012418)   635275.00
4176100.00   24.13226 (07012418)
635325.00   4176100.00   23.63436 (07012418)   635375.00
4176100.00   23.19835 (07012418)

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: PUMP   ***
INCLUDING SOURCE(S):   PUMP   ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF HRA   IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
635425.00	4176100.00	22.45211	(07012418)	635475.00	4176100.00	22.05885	(07012418)
635525.00	4176100.00	21.55135	(07012418)	635575.00	4176100.00	21.05692	(07012418)
634825.00	4176150.00	29.43739	(08010924)	634875.00	4176150.00	27.63826	(05012018)
634925.00	4176150.00	27.03204	(06121320)	634975.00	4176150.00	26.67742	(06121320)
635025.00	4176150.00	26.31943	(06121320)	635075.00	4176150.00	25.70013	(06121320)
635125.00	4176150.00	25.29119	(06121320)	635175.00	4176150.00	24.67391	(06121320)
635225.00	4176150.00	23.96361	(07012418)	635275.00	4176150.00	23.84019	(07012418)
635325.00	4176150.00	23.44222	(07012418)	635375.00	4176150.00	23.10559	(07012418)
635425.00	4176150.00	22.55433	(07012418)	635475.00	4176150.00	22.26606	(07012418)
635525.00	4176150.00	21.86365	(07012418)	635575.00	4176150.00	21.47719	(07012418)
634875.00	4176200.00	34.91899	(08010924)	634925.00	4176200.00	31.47535	(08010924)

634975.00 4176200.00 28.49317 (08010924) 635125.00
4176200.00 25.11169 (05012018)
635175.00 4176200.00 24.76225 (06121320) 635225.00
4176200.00 24.23081 (06121320)
635525.00 4176200.00 21.40474 (06121320) 635575.00
4176200.00 21.02213 (07012418)
634325.00 4176250.00 91.23189 (05122401) 634375.00
4176250.00 84.70734 (05122401)
634875.00 4176250.00 44.30725 (08010924) 634925.00
4176250.00 37.92354 (08010924)
634975.00 4176250.00 34.96154 (08010924) 635025.00
4176250.00 32.10722 (08010924)
635075.00 4176250.00 29.40713 (08010924) 635125.00
4176250.00 27.03723 (08010924)
635175.00 4176250.00 24.81745 (08010924) 635225.00
4176250.00 24.22811 (05012018)
635275.00 4176250.00 23.76251 (05012018) 635375.00
4176250.00 22.72517 (05012018)
635425.00 4176250.00 22.31068 (06121320) 635525.00
4176250.00 21.64904 (06121320)
635575.00 4176250.00 21.26540 (06121320) 634875.00
4176300.00 48.72562 (08010924)
634925.00 4176300.00 45.29962 (08010924) 634975.00
4176300.00 41.96434 (08010924)
635025.00 4176300.00 38.79047 (08010924) 635075.00
4176300.00 33.58572 (08010924)
635125.00 4176300.00 31.38748 (08010924) 635175.00
4176300.00 29.11107 (08010924)
635225.00 4176300.00 27.12566 (08010924) 635275.00
4176300.00 25.35142 (08010924)
635375.00 4176300.00 22.46667 (05012018) 635425.00
4176300.00 22.19687 (05012018)
635525.00 4176300.00 21.52851 (05012018) 635575.00
4176300.00 21.02918 (05012018)
634875.00 4176350.00 48.43633 (08010924) 634925.00
4176350.00 46.29446 (08010924)
634975.00 4176350.00 43.83589 (08010924) 635025.00
4176350.00 41.31027 (08010924)
635075.00 4176350.00 38.68065 (08010924) 635125.00
4176350.00 36.16912 (08010924)
635175.00 4176350.00 33.64640 (08010924) 635225.00
4176350.00 31.56894 (08010924)
635275.00 4176350.00 28.13907 (08010924) 635375.00
4176350.00 24.75460 (08010924)
635425.00 4176350.00 23.30614 (08010924) 635525.00
4176350.00 21.14536 (06012918)
635575.00 4176350.00 20.60603 (05012018) 634875.00
4176400.00 46.85034 (05122401)
634925.00 4176400.00 43.10843 (05122401) 634975.00
4176400.00 41.58971 (08010924)

635025.00 4176400.00 40.26096 (08010924) 635075.00
4176400.00 38.69701 (08010924)
635125.00 4176400.00 36.97215 (08010924) 635175.00
4176400.00 35.15459 (08010924)
635225.00 4176400.00 33.33169 (08010924) 635275.00
4176400.00 31.52088 (08010924)
635425.00 4176400.00 26.22295 (08010924) 635525.00
4176400.00 22.65953 (08010924)

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: PUMP ***
INCLUDING SOURCE(S): PUMP ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF HRA IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
635575.00	4176400.00	21.56204	(08010924)	633650.00	4176200.00	177.27206	(07071002)
633700.00	4176200.00	169.40931	(04111606)	633850.00	4176200.00	147.15475	(05101805)
633850.00	4176250.00	142.59319	(06082704)	633950.00	4176250.00	127.44150	(04112919)
634350.00	4176250.00	88.25418	(05122401)	633750.00	4176300.00	151.38593	(05071606)
633950.00	4176300.00	124.90669	(08121018)	634000.00	4176300.00	119.97582	(04011021)
634050.00	4176300.00	113.18561	(07122919)	634050.00	4176350.00	113.11336	(08121018)
634050.00	4176400.00	109.85935	(05020806)	634000.00	4176450.00	113.17140	(05011818)
634050.00	4176450.00	107.95338	(08122902)	634200.00	4176600.00	89.55898	(04121101)
634100.00	4176650.00	84.46395	(07031619)	634150.00	4176650.00	85.51630	(08122903)
634200.00	4176650.00	86.05470	(08122903)	634200.00	4176850.00	35.64740	(07031619)

634200.00 4176900.00 30.23601 (08121003) 634250.00
4176900.00 30.65070 (07031619)
634300.00 4176900.00 36.53796 (07031619) 634400.00
4177000.00 27.49445 (07031619)
634450.00 4177000.00 31.30584 (07031619) 634500.00
4177000.00 34.62454 (07031619)
634550.00 4177000.00 36.96800 (07031619) 634400.00
4177050.00 27.15433 (07021220)
634450.00 4177050.00 26.37132 (08121517) 634500.00
4177050.00 27.65901 (07031619)
634550.00 4177050.00 30.72296 (07031619) 633750.00
4173175.00 31.02570 (07011417)
634450.00 4173325.00 23.53585 (05020818) 634450.00
4173375.00 22.60617 (05020818)
634350.00 4173475.00 26.09510 (05020818) 634300.00
4173625.00 27.00999 (05011521)
634300.00 4173675.00 30.48173 (05011521) 634350.00
4173675.00 32.56761 (05011521)
634250.00 4173775.00 34.84278 (05011521) 633950.00
4173825.00 43.26429 (04122822)
634050.00 4173825.00 40.66355 (05020818) 634100.00
4173825.00 38.08019 (05020818)
634250.00 4173825.00 38.32642 (05011521) 634250.00
4173975.00 43.71428 (05011520)
634150.00 4174125.00 53.88244 (05011520) 634200.00
4174125.00 51.32405 (05011520)
634250.00 4174125.00 45.18264 (05011520) 634250.00
4174225.00 53.94356 (04022018)
634350.00 4174225.00 53.95918 (04022018) 634400.00
4174225.00 48.31260 (04022018)
634200.00 4174325.00 65.24716 (04022018) 634250.00
4174325.00 63.47648 (04022018)
634200.00 4174375.00 68.71946 (04022018) 634250.00
4174425.00 63.01717 (05021018)
634000.00 4174475.00 72.92949 (04022018) 634250.00
4174525.00 70.93100 (08030618)
634100.00 4174575.00 81.34994 (05021018) 634150.00
4174575.00 77.46436 (05021018)
634200.00 4174575.00 77.74266 (08030618) 634250.00
4174575.00 72.62374 (08030618)
634250.00 4174625.00 72.04596 (05030408) 634250.00
4174675.00 77.46244 (05030408)
634250.00 4174825.00 101.56129 (06011617) 634250.00
4174875.00 84.67697 (06011617)
634200.00 4174925.00 92.10286 (07012703) 634250.00
4174925.00 95.74061 (07012703)
631950.00 4173950.00 28.43262 (05012117) 631550.00
4174000.00 19.28849 (08121017)
631550.00 4174050.00 20.77089 (08121017) 631750.00
4174250.00 34.52668 (06011109)

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        632300.00   4174300.00       64.93580  (06102817)                632350.00
4174300.00       69.18260  (06102817)
        632300.00   4174350.00       63.02795  (06102817)                632350.00
4174350.00       71.37608  (06102817)
        631600.00   4174400.00       44.30202  (04012317)                631650.00
4174400.00       45.03150  (04012317)
        632000.00   4174400.00       72.09487  (06011109)                632000.00
4174450.00       69.74646  (07011517)
        631950.00   4174500.00       65.90163  (07121217)                632150.00
4174950.00      115.14235  (04110819)
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                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  PUMP     ***
                                 INCLUDING SOURCE(S):     PUMP        ,

                                           *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                        ** CONC OF HRA      IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
        632200.00   4174950.00      114.94796  (04110819)
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                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  YARD     ***
                                 INCLUDING SOURCE(S):     L0007191    , L0007192
, L0007193    , L0007194    , L0007195    ,
                L0007196    , L0007197    , L0007198    , L0007199    , L0007200
, L0007201    , L0007202    , L0007203    ,
                L0007204    , L0007205    , L0007206    , L0007207    , L0007208
, L0007209    , L0007210    , L0007211    ,
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L0007212 , L0007213 , L0007214 , L0007215 , L0007216
, L0007217 , L0007218 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS
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** CONC OF HRA IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
631050.00	4178050.00	17.49898	(04120903)	631150.00	4178250.00	19.09180	(08011010)
631250.00	4178250.00	18.57414	(05022703)	631350.00	4178250.00	19.04614	(05022705)
631450.00	4178250.00	19.33261	(06011018)	631550.00	4178250.00	19.74956	(06012819)
631650.00	4178250.00	22.83198	(05011001)	631750.00	4178250.00	23.99461	(07012805)
631150.00	4178350.00	18.20626	(08011010)	631450.00	4178350.00	18.63295	(06011018)
631550.00	4178350.00	20.21531	(05011001)	631650.00	4178350.00	22.72378	(05011001)
631750.00	4178350.00	22.93092	(07012805)	630650.00	4178450.00	14.14682	(05122923)
630850.00	4178450.00	15.80468	(06021721)	631050.00	4178450.00	17.96766	(08011010)
631150.00	4178450.00	16.93070	(07121206)	631250.00	4178450.00	17.21320	(05022705)
631550.00	4178450.00	20.88193	(05011001)	631650.00	4178450.00	21.68138	(07012805)
631750.00	4178450.00	21.93044	(06122519)	631850.00	4178450.00	22.46398	(05122622)
631950.00	4178450.00	22.84012	(07122907)	632050.00	4178450.00	22.67162	(06021720)
632150.00	4178450.00	23.41698	(06020123)	630550.00	4178550.00	13.48956	(05122923)
630650.00	4178550.00	13.76266	(06021721)	630750.00	4178550.00	14.93354	(06021721)
630950.00	4178550.00	17.57599	(08011010)	631050.00	4178550.00	16.25284	(08011010)
631250.00	4178550.00	16.51068	(06011018)	631350.00	4178550.00	16.84292	(06012819)
631450.00	4178550.00	18.81060	(05011001)	631550.00	4178550.00	20.57842	(05011001)
631650.00	4178550.00	20.66579	(07012805)	631750.00	4178550.00	21.20621	(06122519)
631850.00	4178550.00	20.99447	(05122622)	631950.00			

4178550.00 21.76277 (06021720)
 632050.00 4178550.00 20.99802 (06020123) 632150.00
4178550.00 22.30759 (06020123)
 630450.00 4178650.00 12.88153 (05122923) 630550.00
4178650.00 12.89303 (06021721)
 630650.00 4178650.00 14.10287 (06021721) 630750.00
4178650.00 16.01189 (08011010)
 630850.00 4178650.00 17.13459 (08011010) 630950.00
4178650.00 16.30848 (08011010)
 631050.00 4178650.00 15.38254 (05022705) 631150.00
4178650.00 15.40470 (05022705)
 631250.00 4178650.00 16.02841 (06011018) 631350.00
4178650.00 16.56815 (05011001)
 631450.00 4178650.00 19.18277 (05011001) 631550.00
4178650.00 19.73422 (07012805)
 631650.00 4178650.00 19.92368 (06122519) 631750.00
4178650.00 20.39633 (05122622)
 631850.00 4178650.00 20.69372 (07122907) 631950.00
4178650.00 20.78573 (06021720)
 632050.00 4178650.00 20.88638 (06020123) 632150.00
4178650.00 20.94192 (07021207)
 630350.00 4178750.00 12.32282 (05122923) 630450.00
4178750.00 12.08447 (06021721)
 630550.00 4178750.00 13.34098 (06021721) 630650.00
4178750.00 15.19932 (08011010)
 630750.00 4178750.00 16.61827 (08011010) 630850.00
4178750.00 16.26411 (08011010)
 630950.00 4178750.00 14.65142 (07121206) 631050.00
4178750.00 14.84054 (05022705)
 631150.00 4178750.00 15.22561 (06011018) 631250.00
4178750.00 15.36212 (06012819)
 631350.00 4178750.00 17.48591 (05011001) 631450.00
4178750.00 18.74623 (05011001)
 631550.00 4178750.00 18.77675 (07012805) 631650.00
4178750.00 19.33880 (06122519)
 631750.00 4178750.00 19.25547 (05122622) 631850.00
4178750.00 19.79115 (07122907)
 631950.00 4178750.00 19.38654 (06021720) 632050.00
4178750.00 20.33482 (06020123)
 632150.00 4178750.00 20.47291 (07021207) 630250.00
4178850.00 11.88713 (06013009)
 630350.00 4178850.00 11.46226 (06013009) 630450.00
4178850.00 12.61463 (06021721)

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YARD ***

INCLUDING SOURCE(S): L0007191 , L0007192 , L0007193 , L0007194 , L0007195 , L0007196 , L0007197 , L0007198 , L0007199 , L0007200 , L0007201 , L0007202 , L0007203 , L0007204 , L0007205 , L0007206 , L0007207 , L0007208 , L0007209 , L0007210 , L0007211 , L0007212 , L0007213 , L0007214 , L0007215 , L0007216 , L0007217 , L0007218 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF HRA IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
630550.00	4178850.00	14.46855	(08011010)	630650.00	4178850.00	16.03844	(08011010)
630750.00	4178850.00	16.12253	(08011010)	630850.00	4178850.00	14.45100	(08011010)
630950.00	4178850.00	14.18828	(05022705)	631050.00	4178850.00	14.30549	(06011018)
631150.00	4178850.00	14.55737	(06012819)	631250.00	4178850.00	15.62812	(05011001)
631350.00	4178850.00	17.66098	(05011001)	631450.00	4178850.00	18.03084	(07012805)
631550.00	4178850.00	18.17246	(06122519)	631650.00	4178850.00	18.62518	(05122622)
631750.00	4178850.00	18.77199	(07122907)	631850.00	4178850.00	19.06843	(06021720)
631950.00	4178850.00	18.52640	(06020123)	632050.00	4178850.00	19.44765	(06020123)
632150.00	4178850.00	19.72403	(07021207)	630250.00	4178950.00	11.26902	(06013009)
630350.00	4178950.00	11.93355	(06021721)	630450.00	4178950.00	13.67584	(08011010)
630550.00	4178950.00	15.53787	(08011010)	630650.00	4178950.00	15.86451	(08011010)
630750.00	4178950.00	14.65024	(08011010)	630850.00	4178950.00	13.46331	(05022705)
630950.00	4178950.00	13.38368	(05022705)	631050.00	4178950.00	13.96814	(06011018)
631150.00	4178950.00	13.99033	(06012819)	631250.00	4178950.00	16.28236	(05011001)

631350.00 4178950.00 17.15357 (05011001) 631450.00
4178950.00 17.13637 (07012805)
631550.00 4178950.00 17.67923 (06122519) 631650.00
4178950.00 17.72566 (05122622)
631750.00 4178950.00 18.18170 (07122907) 631850.00
4178950.00 18.02527 (06021720)
631950.00 4178950.00 18.38343 (06020123) 632050.00
4178950.00 18.26189 (06020123)
632150.00 4178950.00 18.90609 (04022120) 629950.00
4179050.00 10.99183 (05122923)
630250.00 4179050.00 11.29356 (06021721) 630350.00
4179050.00 12.95153 (08011010)
630450.00 4179050.00 14.92507 (08011010) 630550.00
4179050.00 15.61051 (08011010)
630650.00 4179050.00 14.70966 (08011010) 630750.00
4179050.00 12.79961 (07121206)
630850.00 4179050.00 12.95492 (05022705) 630950.00
4179050.00 13.30876 (06011018)
631050.00 4179050.00 13.43016 (06012819) 631150.00
4179050.00 14.73756 (05011001)
631250.00 4179050.00 16.30332 (05011001) 631350.00
4179050.00 16.56809 (07012805)
631450.00 4179050.00 16.67904 (06122519) 631550.00
4179050.00 17.05222 (05122622)
631650.00 4179050.00 17.07691 (07122907) 631750.00
4179050.00 17.45680 (06021720)
631850.00 4179050.00 16.70918 (06021720) 631950.00
4179050.00 17.90451 (06020123)
632050.00 4179050.00 17.94211 (07021207) 632150.00
4179050.00 18.22587 (04022120)
629850.00 4179150.00 10.65017 (06013009) 629950.00
4179150.00 11.09384 (06013009)
630150.00 4179150.00 10.68696 (06021721) 630250.00
4179150.00 12.22863 (08011010)
630350.00 4179150.00 14.26969 (08011010) 630450.00
4179150.00 15.21680 (08011010)
630550.00 4179150.00 14.76220 (08011010) 630650.00
4179150.00 12.93450 (08011010)
630750.00 4179150.00 12.45962 (05022705) 630850.00
4179150.00 12.54395 (06011018)
630950.00 4179150.00 12.77306 (06011018) 631050.00
4179150.00 13.12157 (05011001)
631150.00 4179150.00 15.18947 (05011001) 631250.00
4179150.00 15.74571 (05011001)
631350.00 4179150.00 15.72644 (07012805) 631450.00
4179150.00 16.27862 (06122519)
631550.00 4179150.00 16.34109 (05122622) 631650.00
4179150.00 16.70661 (07122907)
631750.00 4179150.00 16.77545 (06021720) 631850.00
4179150.00 16.50973 (06020123)

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YARD ***
INCLUDING SOURCE(S): L0007191 , L0007192 , L0007193 , L0007194 , L0007195 ,
L0007196 , L0007197 , L0007198 , L0007199 , L0007200 , L0007201 , L0007202 , L0007203 ,
L0007204 , L0007205 , L0007206 , L0007207 , L0007208 , L0007209 , L0007210 , L0007211 ,
L0007212 , L0007213 , L0007214 , L0007215 , L0007216 , L0007217 , L0007218 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF HRA IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
632150.00	4179150.00	17.83784	(08011009)	630850.00	4179250.00	12.31182	(06011018)
630950.00	4179250.00	12.36004	(06012819)	631050.00	4177625.00	22.11389	(05022704)
631100.00	4177725.00	21.67456	(04120901)	631100.00	4177825.00	20.87721	(05122923)
631350.00	4178225.00	19.15131	(05022705)	631400.00	4178225.00	19.42206	(05022705)
631450.00	4178225.00	19.34945	(06011018)	631500.00	4178225.00	19.91313	(06011018)
631100.00	4178275.00	18.67479	(08011010)	631150.00	4178275.00	19.03307	(08011010)
631200.00	4178275.00	18.69304	(08011010)	631250.00	4178275.00	18.37944	(07121206)
631300.00	4178275.00	18.63968	(07121206)	631350.00	4178275.00	18.87595	(05022705)
631400.00	4178275.00	18.74410	(05022705)	631450.00	4178275.00	19.25883	(06011018)
631500.00	4178275.00	19.40242	(06011018)	630950.00			

4178325.00 16.86738 (06021721)
631100.00 4178325.00 18.74657 (08011010) 631150.00
4178325.00 18.57012 (08011010)
631200.00 4178325.00 17.84548 (05022703) 631250.00
4178325.00 18.12721 (07121206)
631300.00 4178325.00 18.31704 (05022705) 631400.00
4178325.00 18.55603 (06011018)
631450.00 4178325.00 18.90562 (06011018) 631500.00
4178325.00 18.95952 (06012819)
630950.00 4178375.00 16.78693 (08011010) 631200.00
4178375.00 17.59059 (07121206)
631300.00 4178375.00 17.90413 (05022705) 631400.00
4178375.00 18.35318 (06011018)
631450.00 4178375.00 18.34558 (06012819) 631500.00
4178375.00 18.48990 (05011001)
630800.00 4178425.00 15.35258 (06021721) 630850.00
4178425.00 15.88850 (06021721)
631050.00 4178425.00 18.21354 (08011010) 631200.00
4178425.00 17.19697 (07121206)
631250.00 4178425.00 17.44093 (05022705) 631300.00
4178425.00 17.27725 (05022705)
630650.00 4178475.00 13.69386 (05122923) 630800.00
4178475.00 15.42241 (06021721)
630850.00 4178475.00 15.78632 (08011010) 631050.00
4178475.00 17.64311 (08011010)
631200.00 4178475.00 16.95082 (05022705) 631250.00
4178475.00 16.93851 (05022705)
631300.00 4178475.00 17.14801 (06011018) 631450.00
4178475.00 17.93056 (05011001)
631500.00 4178475.00 19.69923 (05011001) 630550.00
4178525.00 13.85240 (05122923)
630600.00 4178525.00 13.38464 (05122923) 630650.00
4178525.00 13.54407 (06021721)
630700.00 4178525.00 14.38441 (06021721) 630750.00
4178525.00 14.96696 (06021721)
630950.00 4178525.00 17.70758 (08011010) 631050.00
4178525.00 16.78416 (08011010)
631200.00 4178525.00 16.56779 (05022705) 631250.00
4178525.00 16.51241 (06011018)
631300.00 4178525.00 16.98117 (06011018) 631350.00
4178525.00 16.97833 (06011018)
631400.00 4178525.00 17.10345 (06012819) 631450.00
4178525.00 18.57517 (05011001)
631500.00 4178525.00 19.96911 (05011001) 630500.00
4178575.00 13.52313 (05122923)
630550.00 4178575.00 13.08679 (05122923) 630600.00
4178575.00 13.09935 (06021721)
630650.00 4178575.00 13.91709 (06021721) 630700.00
4178575.00 14.52141 (06021721)
630750.00 4178575.00 14.85252 (08011010) 630800.00

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YARD ***
INCLUDING SOURCE(S): L0007191 , L0007192 , L0007193 , L0007194 , L0007195 ,
L0007196 , L0007197 , L0007198 , L0007199 , L0007200 , L0007201 , L0007202 , L0007203 ,
L0007204 , L0007205 , L0007206 , L0007207 , L0007208 , L0007209 , L0007210 , L0007211 ,
L0007212 , L0007213 , L0007214 , L0007215 , L0007216 , L0007217 , L0007218 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF HRA IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
630500.00	4178625.00	12.79506	(05122923)	630550.00	4178625.00	12.70283	(04120903)
630600.00	4178625.00	13.49167	(06021721)	630650.00	4178625.00	14.08982	(06021721)
630700.00	4178625.00	14.44666	(06021721)	630750.00	4178625.00	15.68349	(08011010)
630800.00	4178625.00	16.67330	(08011010)	630850.00	4178625.00	17.20479	(08011010)
631000.00	4178625.00	15.77658	(08011010)	631050.00	4178625.00	15.55846	(07121206)

631100.00 4178625.00 15.74749 (05022705) 631150.00
4178625.00 15.69582 (05022705)
631200.00 4178625.00 15.90917 (06011018) 631250.00
4178625.00 16.21641 (06011018)
631300.00 4178625.00 16.21919 (06012819) 631350.00
4178625.00 16.25072 (06012819)
631400.00 4178625.00 17.93079 (05011001) 631450.00
4178625.00 19.16965 (05011001)
631500.00 4178625.00 19.80778 (05011001) 631100.00
4175700.00 68.51584 (04121304)
631150.00 4175700.00 70.53658 (04121304) 631200.00
4175700.00 72.78374 (04121304)
631250.00 4175700.00 74.90545 (04121304) 631100.00
4175750.00 65.38928 (04121304)
631150.00 4175750.00 67.71754 (04121304) 629400.00
4179050.00 9.69773 (05022704)
629450.00 4179050.00 9.90121 (05022704) 629500.00
4179050.00 9.99914 (05022704)
629400.00 4179100.00 9.70510 (05022704) 629450.00
4179100.00 9.78891 (05022704)
629400.00 4179150.00 9.58332 (05022704) 629500.00
4179150.00 9.52386 (04120901)
629550.00 4179150.00 9.81846 (04120901) 629600.00
4179150.00 10.00552 (04120901)
629650.00 4179150.00 10.07550 (04120901) 629700.00
4179150.00 10.18789 (04120902)
629800.00 4179200.00 10.54464 (06013009) 629400.00
4179300.00 9.25449 (04120901)
629400.00 4179350.00 9.22594 (04120901) 634375.00
4175350.00 57.37160 (04022222)
634425.00 4175350.00 55.31520 (04022222) 635425.00
4175350.00 38.83587 (06100508)
635425.00 4175400.00 33.37043 (06100508) 635475.00
4175400.00 31.72510 (06100508)
634325.00 4175450.00 67.14822 (06100508) 634475.00
4175450.00 65.71825 (06100508)
634525.00 4175450.00 64.32218 (06100508) 634525.00
4175500.00 61.73912 (06100508)
634325.00 4175550.00 68.31134 (06100508) 634525.00
4175550.00 53.78511 (06100508)
634575.00 4175550.00 51.19062 (06121504) 634775.00
4175550.00 43.44971 (08011020)
634825.00 4175550.00 41.68745 (08011020) 634625.00
4175600.00 48.73959 (05122420)
634675.00 4175600.00 46.97014 (05122420) 634725.00
4175600.00 45.32543 (05122420)
634775.00 4175600.00 43.60860 (05122420) 634825.00
4175600.00 42.01505 (05122420)
634875.00 4175600.00 40.40307 (05122420) 634925.00
4175600.00 38.86529 (05122420)

```
        635375.00   4175600.00       29.14993  (05020819)                634275.00
4175650.00       68.93650  (05122420)
        634325.00   4175650.00       65.76755  (05122420)                634575.00
4175650.00       51.89457  (07012218)
        634625.00   4175650.00       49.67458  (07012218)                634675.00
4175650.00       47.63810  (07012218)
        634725.00   4175650.00       45.66244  (07012218)                634775.00
4175650.00       43.69798  (07012218)
        634825.00   4175650.00       42.19251  (05020819)                634875.00
4175650.00       40.67264  (05020819)
        634925.00   4175650.00       39.18145  (05020819)                634975.00
4175650.00       37.84528  (05020819)
        635025.00   4175650.00       36.46583  (05020819)                635325.00
4175650.00       29.70173  (05020819)
        635375.00   4175650.00       28.73116  (05020819)                634475.00
4175700.00       57.15547  (05020819)
        634525.00   4175700.00       54.37031  (05020819)                634575.00
4175700.00       51.76570  (05020819)
        634625.00   4175700.00       49.25687  (05020819)                634675.00
4175700.00       47.01432  (05020819)
 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                          ***        01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                         ***        15:43:26

                                    PAGE 279
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  YARD     ***
                                    INCLUDING SOURCE(S):     L0007191    , L0007192
, L0007193    , L0007194    , L0007195    ,
                   L0007196    , L0007197    , L0007198    , L0007199    , L0007200
, L0007201    , L0007202    , L0007203    ,
                   L0007204    , L0007205    , L0007206    , L0007207    , L0007208
, L0007209    , L0007210    , L0007211    ,
                   L0007212    , L0007213    , L0007214    , L0007215    , L0007216
, L0007217    , L0007218    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                             ** CONC OF HRA      IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - -
        634725.00   4175700.00       45.20260  (07021102)                634775.00
```

4175700.00 43.55550 (07021102)
634825.00 4175700.00 41.92397 (07021102) 634875.00
4175700.00 40.54351 (07021102)
634925.00 4175700.00 39.05527 (07021102) 634975.00
4175700.00 37.78775 (07021102)
635025.00 4175700.00 36.45686 (07021102) 635075.00
4175700.00 35.32304 (07021102)
635125.00 4175700.00 34.18795 (07021102) 634425.00
4175750.00 60.26286 (07021102)
634575.00 4175750.00 52.10961 (07021102) 634625.00
4175750.00 49.73869 (07021102)
634675.00 4175750.00 47.53156 (07021102) 634725.00
4175750.00 45.58034 (07021102)
634775.00 4175750.00 43.64169 (07021102) 634825.00
4175750.00 41.86213 (07021102)
634875.00 4175750.00 40.11274 (07021102) 634925.00
4175750.00 38.60158 (06012822)
634975.00 4175750.00 37.28308 (06012822) 635025.00
4175750.00 36.00137 (06012822)
635075.00 4175750.00 34.88372 (06012822) 635125.00
4175750.00 33.78682 (06012822)
635175.00 4175750.00 32.65752 (06012822) 635225.00
4175750.00 31.74555 (06012822)
634325.00 4175800.00 66.98442 (06012822) 634375.00
4175800.00 63.53607 (06012822)
634425.00 4175800.00 60.24074 (06012822) 634475.00
4175800.00 57.42533 (06012822)
634525.00 4175800.00 54.73495 (06012822) 634575.00
4175800.00 52.13726 (06012822)
634625.00 4175800.00 50.04141 (06012822) 634675.00
4175800.00 47.76169 (06012822)
634725.00 4175800.00 45.89575 (04122902) 634775.00
4175800.00 44.01250 (04122902)
634825.00 4175800.00 42.41417 (04122902) 634875.00
4175800.00 40.69658 (04122902)
634925.00 4175800.00 39.26671 (04122902) 634975.00
4175800.00 37.86164 (04122902)
635025.00 4175800.00 36.51965 (04122902) 635075.00
4175800.00 35.23839 (04122902)
635125.00 4175800.00 34.06992 (04122902) 635175.00
4175800.00 33.02547 (04122902)
635225.00 4175800.00 31.96861 (04122902) 635275.00
4175800.00 31.01617 (04122902)
635325.00 4175800.00 30.02373 (04122902) 634225.00
4175850.00 71.38262 (04122902)
634325.00 4175850.00 64.35877 (04122902) 634375.00
4175850.00 61.06267 (04122902)
634425.00 4175850.00 58.16256 (04122902) 634475.00
4175850.00 55.51632 (04122902)
634525.00 4175850.00 53.01305 (04122902) 634575.00

4175850.00   50.64637 (04122902)
        634625.00   4175850.00   48.70994 (04122902)   634675.00
4175850.00   46.59039 (04122902)
        634725.00   4175850.00   44.67727 (04122902)   634775.00
4175850.00   43.10803 (04122902)
        634825.00   4175850.00   41.43372 (04122902)   634875.00
4175850.00   39.87215 (04122902)
        634925.00   4175850.00   38.38108 (04122902)   634975.00
4175850.00   37.05416 (04122902)
        635025.00   4175850.00   35.74610 (04122902)   635075.00
4175850.00   34.59320 (04122902)
        635125.00   4175850.00   33.47492 (04122902)   635175.00
4175850.00   32.42212 (04122902)
        635225.00   4175850.00   31.36466 (04122902)   635275.00
4175850.00   30.46813 (04122902)
        635325.00   4175850.00   29.53211 (04122902)   635375.00
4175850.00   28.60008 (04122902)
        635425.00   4175850.00   27.76542 (04122902)   634225.00
4175900.00   78.08371 (06121322)
        634325.00   4175900.00   69.52689 (06121322)   634375.00
4175900.00   65.41288 (06121322)
        634425.00   4175900.00   61.56139 (06121322)   634475.00
4175900.00   58.23017 (06121322)
        634525.00   4175900.00   55.12819 (06121322)   634575.00
4175900.00   52.24682 (06121322)
        634625.00   4175900.00   49.67087 (06121322)   634675.00
4175900.00   47.33409 (06121322)
        634725.00   4175900.00   44.90982 (06121322)   634775.00
4175900.00   42.82353 (06121322)

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: YARD   ***
                                    INCLUDING SOURCE(S):   L0007191   , L0007192
, L0007193   , L0007194   , L0007195   ,
                   L0007196   , L0007197   , L0007198   , L0007199   , L0007200
, L0007201   , L0007202   , L0007203   ,
                   L0007204   , L0007205   , L0007206   , L0007207   , L0007208
, L0007209   , L0007210   , L0007211   ,
                   L0007212   , L0007213   , L0007214   , L0007215   , L0007216
, L0007217   , L0007218   , . . .   ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

** CONC OF HRA IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
634875.00	4175900.00	38.84156	(06121322)	634925.00	4175900.00	37.00974	(07011518)
634975.00	4175900.00	35.66839	(07011518)	635025.00	4175900.00	34.35259	(07011518)
635075.00	4175900.00	33.14433	(07011518)	635125.00	4175900.00	31.93299	(07011518)
635175.00	4175900.00	30.85286	(07011518)	635225.00	4175900.00	29.81786	(07011518)
635275.00	4175900.00	28.80551	(07011518)	635325.00	4175900.00	27.91919	(07011518)
635375.00	4175900.00	26.92520	(07011518)	635425.00	4175900.00	26.08902	(07011518)
635475.00	4175900.00	25.32708	(06011619)	635525.00	4175900.00	24.63395	(06011619)
634325.00	4175950.00	69.17828	(07011318)	634375.00	4175950.00	65.81102	(06121322)
634425.00	4175950.00	62.86306	(06121322)	634475.00	4175950.00	60.18694	(06121322)
634525.00	4175950.00	57.54242	(06121322)	634575.00	4175950.00	55.01721	(06121322)
634625.00	4175950.00	52.83308	(06121322)	634675.00	4175950.00	50.70302	(06121322)
634875.00	4175950.00	42.66699	(06121322)	634925.00	4175950.00	40.91543	(06121322)
634975.00	4175950.00	39.35422	(06121322)	635025.00	4175950.00	37.76605	(06121322)
635075.00	4175950.00	36.29186	(06121322)	635125.00	4175950.00	34.91712	(06121322)
635175.00	4175950.00	33.60922	(06121322)	635225.00	4175950.00	32.26853	(06121322)
635275.00	4175950.00	31.15849	(06121322)	635325.00	4175950.00	29.91217	(06121322)
635375.00	4175950.00	28.84425	(06121322)	635425.00	4175950.00	27.79800	(06121322)
635475.00	4175950.00	26.79197	(06121322)	635525.00	4175950.00	25.77388	(06121322)
635575.00	4175950.00	24.89747	(06121322)	634725.00	4176000.00	47.54111	(07011318)
634925.00	4176000.00	40.83928	(06121322)	634975.00	4176000.00	39.67867	(06121322)
635025.00	4176000.00	38.42310	(06121322)	635075.00	4176000.00	37.11372	(06121322)

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        635125.00   4176000.00       35.96829  (06121322)                635175.00
4176000.00       34.79586  (06121322)
        635225.00   4176000.00       33.68973  (06121322)                635275.00
4176000.00       32.68525  (06121322)
        635325.00   4176000.00       31.56795  (06121322)                635375.00
4176000.00       30.59505  (06121322)
        635425.00   4176000.00       29.57362  (06121322)                635475.00
4176000.00       28.64061  (06121322)
        635525.00   4176000.00       27.73832  (06121322)                635575.00
4176000.00       26.82017  (06121322)
        634825.00   4176050.00       44.19173  (07021221)                634875.00
4176050.00       42.43463  (07021221)
        634925.00   4176050.00       40.71833  (07021221)                634975.00
4176050.00       39.02536  (07021221)
        635025.00   4176050.00       37.32863  (07021221)                635075.00
4176050.00       36.03095  (07011318)
        635125.00   4176050.00       35.04985  (07011318)                635175.00
4176050.00       34.01243  (07011318)
        635225.00   4176050.00       33.01072  (07011318)                635275.00
4176050.00       32.01557  (07011318)
        635325.00   4176050.00       31.02599  (07011318)                635375.00
4176050.00       30.02400  (07011318)
        635425.00   4176050.00       29.29967  (06121322)                635475.00
4176050.00       28.52533  (06121322)
        635525.00   4176050.00       27.78669  (06121322)                635575.00
4176050.00       27.01462  (06121322)
        634825.00   4176100.00       43.86260  (04121118)                634875.00
4176100.00       42.39573  (04121118)
        634925.00   4176100.00       40.75703  (04121118)                634975.00
4176100.00       39.23407  (04121118)
        635025.00   4176100.00       38.10255  (07021221)                635075.00
4176100.00       36.90658  (07021221)
        635125.00   4176100.00       35.68679  (07021221)                635175.00
4176100.00       34.45567  (07021221)
        635225.00   4176100.00       33.29934  (07021221)                635275.00
4176100.00       32.13148  (07021221)
        635325.00   4176100.00       30.97946  (07021221)                635375.00
4176100.00       29.88115  (07021221)
 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                          ***        01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                         ***        15:43:26

                                    PAGE 281
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  YARD     ***
                                    INCLUDING SOURCE(S):     L0007191    , L0007192
, L0007193    , L0007194    , L0007195    ,
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                L0007196    , L0007197    , L0007198    , L0007199    , L0007200
, L0007201    , L0007202    , L0007203    ,
                L0007204    , L0007205    , L0007206    , L0007207    , L0007208
, L0007209    , L0007210    , L0007211    ,
                L0007212    , L0007213    , L0007214    , L0007215    , L0007216
, L0007217    , L0007218    ,  . . .      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF HRA      IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        635425.00   4176100.00       28.66991  (07021221)               635475.00
4176100.00       27.79786  (07011318)
        635525.00   4176100.00       27.13504  (07011318)               635575.00
4176100.00       26.48001  (07011318)
        634825.00   4176150.00       43.56075  (06020205)               634875.00
4176150.00       41.93153  (06020205)
        634925.00   4176150.00       40.48667  (06011620)               634975.00
4176150.00       39.19661  (06011620)
        635025.00   4176150.00       37.88124  (06011620)               635075.00
4176150.00       36.43029  (06011620)
        635125.00   4176150.00       35.38641  (04121118)               635175.00
4176150.00       34.29423  (04121118)
        635225.00   4176150.00       33.12262  (04121118)               635275.00
4176150.00       32.12599  (04121118)
        635325.00   4176150.00       31.08195  (07021221)               635375.00
4176150.00       30.27317  (07021221)
        635425.00   4176150.00       29.35629  (07021221)               635475.00
4176150.00       28.57291  (07021221)
        635525.00   4176150.00       27.73629  (07021221)               635575.00
4176150.00       26.91513  (07021221)
        634875.00   4176200.00       41.81800  (04021505)               634925.00
4176200.00       40.22054  (04021505)
        634975.00   4176200.00       38.66501  (06020205)               635125.00
4176200.00       35.06275  (06020205)
        635175.00   4176200.00       34.00068  (06011620)               635225.00
4176200.00       32.97975  (06011620)
        635525.00   4176200.00       27.58210  (04121118)               635575.00
4176200.00       26.74757  (04121118)
        634325.00   4176250.00       64.26282  (05121218)               634375.00
4176250.00       61.16866  (05121218)
        634875.00   4176250.00       41.20840  (06020208)               634925.00
4176250.00       39.45170  (06020208)
        634975.00   4176250.00       37.95817  (04021505)               635025.00
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4176250.00       37.05873  (04021505)
        635075.00   4176250.00       36.02173  (04021505)                635125.00
4176250.00       34.94669  (04021505)
        635175.00   4176250.00       33.75612  (04021505)                635225.00
4176250.00       32.67620  (06020205)
        635275.00   4176250.00       31.77391  (06020205)                635375.00
4176250.00       29.80988  (06020205)
        635425.00   4176250.00       28.87529  (06011620)                635525.00
4176250.00       27.46936  (06011620)
        635575.00   4176250.00       26.71192  (06011620)                634875.00
4176300.00       40.90251  (05011419)
        634925.00   4176300.00       39.45366  (05011419)                634975.00
4176300.00       38.12788  (06020208)
        635025.00   4176300.00       36.97657  (06020208)                635075.00
4176300.00       35.66782  (06020208)
        635125.00   4176300.00       34.28140  (06020208)                635175.00
4176300.00       32.76897  (04021505)
        635225.00   4176300.00       32.16973  (04021505)                635275.00
4176300.00       31.50946  (04021505)
        635375.00   4176300.00       29.69914  (04021505)                635425.00
4176300.00       28.79045  (04021505)
        635525.00   4176300.00       27.25321  (06020205)                635575.00
4176300.00       26.46883  (06020205)
        634875.00   4176350.00       40.19947  (06012919)                634925.00
4176350.00       39.04206  (05010918)
        634975.00   4176350.00       37.70656  (05010918)                635025.00
4176350.00       36.49926  (05011419)
        635075.00   4176350.00       35.41830  (05011419)                635125.00
4176350.00       34.21426  (05011419)
        635175.00   4176350.00       33.15057  (06020208)                635225.00
4176350.00       32.30408  (06020208)
        635275.00   4176350.00       31.26785  (06020208)                635375.00
4176350.00       28.87225  (06020208)
        635425.00   4176350.00       28.18702  (04021505)                635525.00
4176350.00       27.02684  (04021505)
        635575.00   4176350.00       26.30088  (04021505)                634875.00
4176400.00       39.19825  (07021104)
        634925.00   4176400.00       38.34773  (06012919)                634975.00
4176400.00       37.33852  (06012919)
        635025.00   4176400.00       36.08493  (06012919)                635075.00
4176400.00       34.97074  (05010918)
        635125.00   4176400.00       33.97870  (05010918)                635175.00
4176400.00       32.82739  (05010918)
        635225.00   4176400.00       32.00821  (05011419)                635275.00
4176400.00       31.12243  (05011419)
        635425.00   4176400.00       28.47018  (06020208)                635525.00
4176400.00       26.62891  (06020208)
 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                          ***        01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YARD ***
INCLUDING SOURCE(S): L0007191 , L0007192 , L0007193 , L0007194 , L0007195 , L0007196 , L0007197 , L0007198 , L0007199 , L0007200 , L0007201 , L0007202 , L0007203 , L0007204 , L0007205 , L0007206 , L0007207 , L0007208 , L0007209 , L0007210 , L0007211 , L0007212 , L0007213 , L0007214 , L0007215 , L0007216 , L0007217 , L0007218 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF HRA IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
635575.00	4176400.00	25.68983	(06020208)	633650.00	4176200.00	158.57612	(08021808)
633700.00	4176200.00	141.96156	(08120919)	633850.00	4176200.00	108.54076	(08121019)
633850.00	4176250.00	110.04464	(07121419)	633950.00	4176250.00	93.17395	(08121019)
634350.00	4176250.00	62.89349	(05121218)	633750.00	4176300.00	128.29974	(08021808)
633950.00	4176300.00	93.07925	(07121419)	634000.00	4176300.00	85.50893	(04121104)
634050.00	4176300.00	80.75235	(08121019)	634050.00	4176350.00	79.56177	(07121419)
634050.00	4176400.00	82.66418	(07121419)	634000.00	4176450.00	85.54768	(08021808)
634050.00	4176450.00	79.66258	(04120904)	634200.00	4176600.00	66.33179	(08021808)
634100.00	4176650.00	65.69444	(08121003)	634150.00	4176650.00	64.65079	(08021808)
634200.00	4176650.00	64.82851	(08021808)	634200.00	4176850.00	58.13151	(08021908)
634200.00	4176900.00	55.60406	(08021908)	634250.00	4176900.00	54.80000	(08021908)
634300.00	4176900.00	51.58805	(08021908)	634400.00	4177000.00	46.50975	(08021908)

634450.00 4177000.00 42.94598 (08121003) 634500.00
4177000.00 42.31651 (08121003)
634550.00 4177000.00 40.79343 (04011022) 634400.00
4177050.00 46.39654 (08021908)
634450.00 4177050.00 44.03303 (08021908) 634500.00
4177050.00 40.88881 (08021908)
634550.00 4177050.00 40.59581 (08121003) 633750.00
4173175.00 37.50118 (04122824)
634450.00 4173325.00 39.36041 (04122822) 634450.00
4173375.00 39.75112 (04122822)
634350.00 4173475.00 41.86003 (04122822) 634300.00
4173625.00 44.41139 (04122822)
634300.00 4173675.00 44.08456 (04122822) 634350.00
4173675.00 44.03475 (05020818)
634250.00 4173775.00 45.52456 (04122822) 633950.00
4173825.00 49.69433 (06020105)
634050.00 4173825.00 42.60443 (04022318) 634100.00
4173825.00 44.89835 (04122822)
634250.00 4173825.00 46.67976 (05020818) 634250.00
4173975.00 45.62725 (05020818)
634150.00 4174125.00 47.94506 (05020818) 634200.00
4174125.00 43.78483 (05011521)
634250.00 4174125.00 47.77127 (05011521) 634250.00
4174225.00 49.25583 (05011521)
634350.00 4174225.00 48.12675 (05011520) 634400.00
4174225.00 44.69238 (05011520)
634200.00 4174325.00 50.07710 (05011521) 634250.00
4174325.00 49.27365 (05011520)
634200.00 4174375.00 52.25018 (05011520) 634250.00
4174425.00 46.12117 (05011520)
634000.00 4174475.00 59.01317 (05011521) 634250.00
4174525.00 44.00312 (04022018)
634100.00 4174575.00 57.11302 (05011520) 634150.00
4174575.00 49.64748 (05122304)
634200.00 4174575.00 47.35579 (04022018) 634250.00
4174575.00 45.45471 (04022018)
634250.00 4174625.00 43.74528 (04022018) 634250.00
4174675.00 40.87296 (05021018)
634250.00 4174825.00 44.23605 (07012702) 634250.00
4174875.00 48.54783 (06011617)
634200.00 4174925.00 52.78547 (06011617) 634250.00
4174925.00 53.62864 (06011617)
631950.00 4173950.00 26.01347 (07122718) 631550.00
4174000.00 23.02788 (08121017)
631550.00 4174050.00 25.08836 (04012317) 631750.00
4174250.00 31.73321 (04012317)
632300.00 4174300.00 49.11567 (05012117) 632350.00
4174300.00 50.65935 (05030118)
632300.00 4174350.00 52.92811 (05012117) 632350.00
4174350.00 51.32378 (05030118)

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        631600.00   4174400.00       38.05938  (05110618)                631650.00
4174400.00       40.64094  (05110618)
        632000.00   4174400.00       51.53570  (07121217)                632000.00
4174450.00       49.39899  (07121217)
        631950.00   4174500.00       60.74262  (04012317)                632150.00
4174950.00       87.00758  (06121421)
 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                          ***        01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                         ***        15:43:26

                                    PAGE 283
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  YARD     ***
                                    INCLUDING SOURCE(S):     L0007191    , L0007192
, L0007193    , L0007194    , L0007195    ,
                   L0007196    , L0007197    , L0007198    , L0007199    , L0007200
, L0007201    , L0007202    , L0007203    ,
                   L0007204    , L0007205    , L0007206    , L0007207    , L0007208
, L0007209    , L0007210    , L0007211    ,
                   L0007212    , L0007213    , L0007214    , L0007215    , L0007216
, L0007217    , L0007218    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                             ** CONC OF HRA      IN MICROGRAMS/M**3
                   **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        632200.00   4174950.00       80.20600  (05110618)

 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                          ***        01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                         ***        15:43:26

                                    PAGE 284
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  TANK     ***
                                    INCLUDING SOURCE(S):     TANK        ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
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***

** CONC OF HRA IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
631050.00	4178050.00	24.85880	(05021421)	631150.00	4178250.00	23.46191	(05022705)
631250.00	4178250.00	23.85900	(06011018)	631350.00	4178250.00	26.28814	(07122917)
631450.00	4178250.00	29.00470	(05011001)	631550.00	4178250.00	31.29887	(07012805)
631650.00	4178250.00	32.24068	(06122519)	631750.00	4178250.00	33.07810	(05122622)
631150.00	4178350.00	21.64655	(06011018)	631450.00	4178350.00	28.94004	(05011001)
631550.00	4178350.00	28.83358	(07012805)	631650.00	4178350.00	30.18603	(06122519)
631750.00	4178350.00	30.15370	(07122907)	630650.00	4178450.00	18.90721	(06021721)
630850.00	4178450.00	21.84588	(08011010)	631050.00	4178450.00	20.63603	(05022705)
631150.00	4178450.00	21.42271	(06011018)	631250.00	4178450.00	21.53548	(07122917)
631550.00	4178450.00	27.84077	(06122519)	631650.00	4178450.00	28.61400	(05122622)
631750.00	4178450.00	29.03922	(07122907)	631850.00	4178450.00	28.19110	(06021720)
631950.00	4178450.00	30.14878	(06020123)	632050.00	4178450.00	30.66427	(07021207)
632150.00	4178450.00	42.20025	(08011009)	630550.00	4178550.00	17.86439	(06021721)
630650.00	4178550.00	20.92050	(08011010)	630750.00	4178550.00	21.61579	(08011010)
630950.00	4178550.00	19.66290	(05022705)	631050.00	4178550.00	20.00821	(06011018)
631250.00	4178550.00	22.67304	(05011001)	631350.00	4178550.00	25.53505	(05011001)
631450.00	4178550.00	25.34386	(07012805)	631550.00	4178550.00	26.47240	(06122519)
631650.00	4178550.00	26.05370	(07122907)	631750.00	4178550.00	27.40949	(06021720)
631850.00	4178550.00	25.71287	(06020123)	631950.00	4178550.00	28.14194	(06020123)
632050.00	4178550.00	28.76148	(07021207)	632150.00	4178550.00	43.35281	(08011009)
630450.00	4178650.00	16.87213	(06021721)	630550.00			

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4178650.00       19.79676  (08011010)
        630650.00   4178650.00       21.12810  (08011010)                630750.00
4178650.00       18.86453  (08011010)
        630850.00   4178650.00       18.52341  (05022705)                630950.00
4178650.00       18.38194  (06011018)
        631050.00   4178650.00       19.17222  (06011018)                631150.00
4178650.00       19.24823  (05011001)
        631250.00   4178650.00       23.60663  (05011001)                631350.00
4178650.00       24.35135  (07012805)
        631450.00   4178650.00       24.70854  (06122519)                631550.00
4178650.00       25.39446  (05122622)
        631650.00   4178650.00       25.77286  (07122907)                631750.00
4178650.00       25.71409  (06021720)
        631850.00   4178650.00       26.04617  (06020123)                631950.00
4178650.00       25.97101  (07021207)
        632050.00   4178650.00       27.37978  (04022120)                632150.00
4178650.00       40.91025  (08011009)
        630350.00   4178750.00       15.93631  (06021721)                630450.00
4178750.00       18.60060  (08011010)
        630550.00   4178750.00       20.63269  (08011010)                630650.00
4178750.00       19.17733  (08011010)
        630750.00   4178750.00       17.43592  (07121206)                630850.00
4178750.00       17.56195  (05022705)
        630950.00   4178750.00       18.30725  (06011018)                631050.00
4178750.00       18.38035  (06012819)
        631150.00   4178750.00       21.08829  (05011001)                631250.00
4178750.00       22.89567  (05011001)
        631350.00   4178750.00       22.64682  (07012805)                631450.00
4178750.00       23.72207  (06122519)
        631550.00   4178750.00       23.30086  (05122622)                631650.00
4178750.00       24.33678  (06021720)
        631750.00   4178750.00       23.24952  (06021720)                631850.00
4178750.00       25.36168  (06020123)
        631950.00   4178750.00       25.57285  (07021207)                632050.00
4178750.00       27.35305  (08011009)
        632150.00   4178750.00       36.08206  (08011009)                630250.00
4178850.00       15.04306  (06021721)
        630350.00   4178850.00       17.49107  (08011010)                630450.00
4178850.00       19.94546  (08011010)
 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                          ***        01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                          ***       15:43:26

                                    PAGE 285
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  TANK     ***
                                    INCLUDING SOURCE(S):     TANK        ,
```

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF HRA IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
630550.00	4178850.00	19.36271	(08011010)	630650.00	4178850.00	16.62897	(07121206)
630750.00	4178850.00	16.91588	(05022705)	630850.00	4178850.00	17.19369	(06011018)
630950.00	4178850.00	17.50448	(06012819)	631050.00	4178850.00	18.30750	(05011001)
631150.00	4178850.00	21.54884	(05011001)	631250.00	4178850.00	22.00711	(07012805)
631350.00	4178850.00	22.26942	(06122519)	631450.00	4178850.00	22.86321	(05122622)
631550.00	4178850.00	23.07249	(07122907)	631650.00	4178850.00	23.44731	(06021720)
631750.00	4178850.00	22.44140	(06020123)	631850.00	4178850.00	23.94799	(06020123)
631950.00	4178850.00	24.49110	(07021207)	632050.00	4178850.00	28.23462	(08011009)
632150.00	4178850.00	30.94820	(08011009)	630250.00	4178950.00	16.37176	(08011010)
630350.00	4178950.00	19.18364	(08011010)	630450.00	4178950.00	19.25357	(08011010)
630550.00	4178950.00	16.49454	(08011010)	630650.00	4178950.00	16.10257	(05022705)
630750.00	4178950.00	15.91953	(06011018)	630850.00	4178950.00	16.63081	(06011018)
630950.00	4178950.00	16.56637	(06012819)	631050.00	4178950.00	19.62207	(05011001)
631150.00	4178950.00	20.70582	(05011001)	631250.00	4178950.00	20.48036	(07012805)
631350.00	4178950.00	21.53521	(06122519)	631450.00	4178950.00	21.33379	(05122622)
631550.00	4178950.00	22.20568	(07122907)	631650.00	4178950.00	21.80756	(06021720)
631750.00	4178950.00	22.55606	(06020123)	631850.00	4178950.00	22.17878	(07021207)
631950.00	4178950.00	23.34749	(04022120)	632050.00	4178950.00	27.88154	(08011009)
632150.00	4178950.00	26.55492	(08011009)	629950.00	4179050.00	12.85960	(06013009)
630250.00	4179050.00	18.35904	(08011010)	630350.00			

4179050.00 19.04442 (08011010)
  630450.00 4179050.00 16.98464 (08011010) 630550.00
4179050.00 15.20022 (05022705)
  630650.00 4179050.00 15.21512 (05022705) 630750.00
4179050.00 15.90739 (06011018)
  630850.00 4179050.00 16.02452 (06012819) 630950.00
4179050.00 17.37550 (05011001)
  631050.00 4179050.00 19.78564 (05011001) 631150.00
4179050.00 20.06450 (07012805)
  631250.00 4179050.00 20.27414 (06122519) 631350.00
4179050.00 20.81163 (05122622)
  631450.00 4179050.00 20.80630 (07122907) 631550.00
4179050.00 21.32677 (06021720)
  631650.00 4179050.00 19.60568 (06021720) 631750.00
4179050.00 21.97609 (06020123)
  631850.00 4179050.00 22.00200 (07021207) 631950.00
4179050.00 22.43199 (04022120)
  632050.00 4179050.00 26.53623 (08011009) 632150.00
4179050.00 23.10825 (08011009)
  629850.00 4179150.00 12.65490 (06013009) 629950.00
4179150.00 12.63682 (06021721)
  630150.00 4179150.00 17.44390 (08011010) 630250.00
4179150.00 18.66443 (08011010)
  630350.00 4179150.00 17.25670 (08011010) 630450.00
4179150.00 14.55778 (07121206)
  630550.00 4179150.00 14.77006 (05022705) 630650.00
4179150.00 15.01240 (06011018)
  630750.00 4179150.00 15.22809 (06012819) 630850.00
4179150.00 14.98700 (05011001)
  630950.00 4179150.00 18.27489 (05011001) 631050.00
4179150.00 18.88173 (07012805)
  631150.00 4179150.00 18.67190 (07012805) 631250.00
4179150.00 19.69895 (06122519)
  631350.00 4179150.00 19.65390 (05122622) 631450.00
4179150.00 20.36473 (07122907)
  631550.00 4179150.00 20.28405 (06021720) 631650.00
4179150.00 19.85174 (06020123)
  631750.00 4179150.00 20.87551 (06020123) 631850.00
4179150.00 21.37162 (07021207)
  631950.00 4179150.00 21.43455 (08011009) 632050.00
4179150.00 24.66518 (08011009)

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                            *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION

VALUES FOR SOURCE GROUP: TANK   ***
                                INCLUDING SOURCE(S):   TANK   ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF HRA   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        632150.00   4179150.00   21.84775 (07122905)   630850.00
4179250.00   16.43803 (05011001)
        630950.00   4179250.00   18.20542 (05011001)   631050.00
4177625.00   32.38432 (04010518)
        631100.00   4177725.00   32.72988 (04120903)   631100.00
4177825.00   27.94130 (04120903)
        631350.00   4178225.00   26.99335 (07122917)   631400.00
4178225.00   26.26877 (07122917)
        631450.00   4178225.00   28.55688 (05011001)   631500.00
4178225.00   31.32926 (05011001)
        631100.00   4178275.00   22.67954 (05022705)   631150.00
4178275.00   23.10347 (05022705)
        631200.00   4178275.00   22.64730 (06011018)   631250.00
4178275.00   23.71395 (06011018)
        631300.00   4178275.00   25.18590 (07122917)   631350.00
4178275.00   25.41974 (07122917)
        631400.00   4178275.00   26.04945 (05011001)   631450.00
4178275.00   29.28339 (05011001)
        631500.00   4178275.00   30.63247 (05011001)   630950.00
4178325.00   22.63159 (08011010)
        631100.00   4178325.00   22.37689 (05022705)   631150.00
4178325.00   22.01229 (05022705)
        631200.00   4178325.00   22.77324 (06011018)   631250.00
4178325.00   23.43584 (07122917)
        631300.00   4178325.00   24.32539 (07122917)   631400.00
4178325.00   27.12945 (05011001)
        631450.00   4178325.00   29.24336 (05011001)   631500.00
4178325.00   29.36028 (07012805)
        630950.00   4178375.00   20.90073 (05022703)   631200.00
4178375.00   22.38028 (06011018)
        631300.00   4178375.00   22.87569 (07122917)   631400.00
4178375.00   27.59581 (05011001)
        631450.00   4178375.00   28.48249 (05011001)   631500.00
4178375.00   28.78490 (07012805)
        630800.00   4178425.00   22.67860 (08011010)   630850.00
4178425.00   22.42798 (08011010)
        631050.00   4178425.00   21.06492 (05022705)   631200.00

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4178425.00       21.78639  (07122917)
        631250.00   4178425.00       22.14400  (07122917)                631300.00
4178425.00       22.91641  (05011001)
        630650.00   4178475.00       19.24099  (08011010)                630800.00
4178475.00       22.24473  (08011010)
        630850.00   4178475.00       21.11519  (08011010)                631050.00
4178475.00       20.11819  (05022705)
        631200.00   4178475.00       21.27632  (07122917)                631250.00
4178475.00       20.89944  (05011001)
        631300.00   4178475.00       24.00390  (05011001)                631450.00
4178475.00       26.96738  (07012805)
        631500.00   4178475.00       26.12230  (07012805)                630550.00
4178525.00       17.95049  (06021721)
        630600.00   4178525.00       18.51033  (08011010)                630650.00
4178525.00       20.45356  (08011010)
        630700.00   4178525.00       21.72906  (08011010)                630750.00
4178525.00       21.98127  (08011010)
        630950.00   4178525.00       19.87307  (05022705)                631050.00
4178525.00       19.99859  (06011018)
        631200.00   4178525.00       20.54475  (06012819)                631250.00
4178525.00       22.17802  (05011001)
        631300.00   4178525.00       24.62839  (05011001)                631350.00
4178525.00       25.84559  (05011001)
        631400.00   4178525.00       25.94462  (07012805)                631450.00
4178525.00       25.98624  (07012805)
        631500.00   4178525.00       26.20363  (06122519)                630500.00
4178575.00       17.40874  (06021721)
        630550.00   4178575.00       17.80394  (08011010)                630600.00
4178575.00       19.87903  (08011010)
        630650.00   4178575.00       21.13955  (08011010)                630700.00
4178575.00       21.64111  (08011010)
        630750.00   4178575.00       21.12419  (08011010)                630800.00
4178575.00       19.53959  (08011010)
        630850.00   4178575.00       19.06994  (07121206)                631000.00
4178575.00       19.11393  (06011018)
        631050.00   4178575.00       19.92766  (06011018)                631200.00
4178575.00       20.37004  (05011001)
        631250.00   4178575.00       23.06555  (05011001)                631300.00
4178575.00       24.77318  (05011001)
        631350.00   4178575.00       25.10576  (05011001)                631400.00
4178575.00       25.42320  (07012805)
        631450.00   4178575.00       24.59884  (07012805)                631500.00
4178575.00       26.03034  (06122519)
 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                          ***        01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                         ***        15:43:26

                                   PAGE 287
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*
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*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TANK ***
INCLUDING SOURCE(S): TANK ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF HRA IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
630500.00	4178625.00	17.22007	(06021721)	630550.00	4178625.00	19.24725	(08011010)
630600.00	4178625.00	20.71299	(08011010)	630650.00	4178625.00	21.26292	(08011010)
630700.00	4178625.00	20.98139	(08011010)	630750.00	4178625.00	19.71010	(08011010)
630800.00	4178625.00	18.52289	(07121206)	630850.00	4178625.00	18.56970	(05022705)
631000.00	4178625.00	19.22962	(06011018)	631050.00	4178625.00	19.50303	(06011018)
631100.00	4178625.00	19.59174	(06012819)	631150.00	4178625.00	19.35479	(06012819)
631200.00	4178625.00	21.45190	(05011001)	631250.00	4178625.00	23.53336	(05011001)
631300.00	4178625.00	24.45077	(05011001)	631350.00	4178625.00	24.56585	(07012805)
631400.00	4178625.00	24.48931	(07012805)	631450.00	4178625.00	24.73762	(06122519)
631500.00	4178625.00	25.44046	(06122519)	631100.00	4175700.00	89.65908	(04121304)
631150.00	4175700.00	93.29473	(04121304)	631200.00	4175700.00	97.50777	(04121304)
631250.00	4175700.00	101.48072	(04121304)	631100.00	4175750.00	78.52169	(04010517)
631150.00	4175750.00	81.36303	(04010517)	629400.00	4179050.00	11.69225	(04120901)
629450.00	4179050.00	12.08531	(04120901)	629500.00	4179050.00	12.27568	(04120901)
629400.00	4179100.00	11.83556	(04120901)	629450.00	4179100.00	12.01238	(04120901)
629400.00	4179150.00	11.75653	(04120901)	629500.00	4179150.00	12.01650	(04120902)
629550.00	4179150.00	12.05553	(04120902)	629600.00	4179150.00	12.34379	(06013009)
629650.00	4179150.00	12.96186	(06013009)	629700.00			

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4179150.00       13.30876  (06013009)
        629800.00   4179200.00       12.59644  (06013009)                629400.00
4179300.00       11.31515  (04120902)
        629400.00   4179350.00       11.62239  (06013009)                634375.00
4175350.00      214.77962  (04022224)
        634425.00   4175350.00      192.27585  (07020218)                635425.00
4175350.00       38.09247  (08011020)
        635425.00   4175400.00       41.66901  (05122223)                635475.00
4175400.00       40.46469  (05122223)
        634325.00   4175450.00      222.65999  (07020218)                634475.00
4175450.00      219.20770  (08011001)
        634525.00   4175450.00      210.21837  (08011001)                634525.00
4175500.00      162.32399  (08011001)
        634325.00   4175550.00      202.29689  (05122223)                634525.00
4175550.00      205.62180  (05122223)
        634575.00   4175550.00      198.70091  (05122223)                634775.00
4175550.00      152.65492  (05122223)
        634825.00   4175550.00      139.28119  (05121217)                634625.00
4175600.00      193.52359  (05121217)
        634675.00   4175600.00      177.43186  (05121217)                634725.00
4175600.00      161.95552  (05121217)
        634775.00   4175600.00      146.30068  (05121217)                634825.00
4175600.00      131.76173  (05121217)
        634875.00   4175600.00      117.79226  (05121217)                634925.00
4175600.00      104.97976  (05121217)
        635375.00   4175600.00       35.21052  (05121217)                634275.00
4175650.00      275.25069  (05121217)
        634325.00   4175650.00      251.88681  (05121217)                634575.00
4175650.00      143.55151  (05121217)
        634625.00   4175650.00      125.97247  (05121217)                634675.00
4175650.00      100.38479  (05121217)
        634725.00   4175650.00       88.00548  (05121217)                634775.00
4175650.00       76.87355  (05121217)
        634825.00   4175650.00       67.47601  (05121217)                634875.00
4175650.00       59.17030  (05121217)
        634925.00   4175650.00       52.01461  (05121217)                634975.00
4175650.00       46.11396  (05121217)
        635025.00   4175650.00       40.99222  (05121217)                635325.00
4175650.00       31.89867  (07021102)
        635375.00   4175650.00       31.01426  (07021102)                634475.00
4175700.00       66.04822  (05121217)
        634525.00   4175700.00       57.26126  (05121217)                634575.00
4175700.00       52.95480  (07021102)
        634625.00   4175700.00       50.64978  (07021102)                634675.00
4175700.00       48.58655  (07021102)
 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                          ***        01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                       ***        15:43:26
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TANK ***
INCLUDING SOURCE(S): TANK ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF HRA IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
634725.00	4175700.00	46.77660	(07021102)	634775.00	4175700.00	44.91592	(07021102)
634825.00	4175700.00	43.10382	(07021102)	634875.00	4175700.00	41.54584	(07021102)
634925.00	4175700.00	39.91933	(07021102)	634975.00	4175700.00	38.51368	(07021102)
635025.00	4175700.00	37.07332	(07021102)	635075.00	4175700.00	35.85912	(06012822)
635125.00	4175700.00	34.83183	(06012822)	634425.00	4175750.00	60.70306	(06012822)
634575.00	4175750.00	53.27621	(06012822)	634625.00	4175750.00	51.10856	(06012822)
634675.00	4175750.00	49.08496	(06012822)	634725.00	4175750.00	47.28780	(06012822)
634775.00	4175750.00	45.50080	(06012822)	634825.00	4175750.00	43.85451	(06012822)
634875.00	4175750.00	42.23219	(06012822)	634925.00	4175750.00	40.78288	(06012822)
634975.00	4175750.00	39.40283	(06012822)	635025.00	4175750.00	38.06617	(06012822)
635075.00	4175750.00	36.88996	(06012822)	635125.00	4175750.00	35.74084	(06012822)
635175.00	4175750.00	34.56823	(06012822)	635225.00	4175750.00	33.60471	(06012822)
634325.00	4175800.00	65.25255	(04122902)	634375.00	4175800.00	62.26753	(04122902)
634425.00	4175800.00	59.39548	(04122902)	634475.00	4175800.00	56.91092	(04122902)
634525.00	4175800.00	54.52510	(04122902)	634575.00	4175800.00	52.20834	(04122902)
634625.00	4175800.00	50.31158	(04122902)	634675.00	4175800.00	48.25125	(04122902)
634725.00	4175800.00	46.53427	(04122902)	634775.00			

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4175800.00       44.78459  (04122902)
        634825.00   4175800.00       43.28263  (04122902)                634875.00
4175800.00       41.67324  (04122902)
        634925.00   4175800.00       40.31729  (04122902)                634975.00
4175800.00       38.98220  (04122902)
        635025.00   4175800.00       37.70223  (04122902)                635075.00
4175800.00       36.47559  (04122902)
        635125.00   4175800.00       35.35014  (04122902)                635175.00
4175800.00       34.33724  (04122902)
        635225.00   4175800.00       33.31228  (04122902)                635275.00
4175800.00       32.38284  (04122902)
        635325.00   4175800.00       31.41563  (04122902)                634225.00
4175850.00       71.14911  (06121322)
        634325.00   4175850.00       62.82810  (06121322)                634375.00
4175850.00       58.98434  (06121322)
        634425.00   4175850.00       56.22301  (07011518)                634475.00
4175850.00       53.71208  (07011518)
        634525.00   4175850.00       51.33308  (07011518)                634575.00
4175850.00       49.07823  (07011518)
        634625.00   4175850.00       47.15495  (07011518)                634675.00
4175850.00       45.12790  (07011518)
        634725.00   4175850.00       43.27181  (07011518)                634775.00
4175850.00       41.68508  (07011518)
        634825.00   4175850.00       40.04523  (07011518)                634875.00
4175850.00       38.50700  (07011518)
        634925.00   4175850.00       37.03897  (07011518)                634975.00
4175850.00       35.86680  (06011619)
        635025.00   4175850.00       34.71495  (06011619)                635075.00
4175850.00       33.68025  (06011619)
        635125.00   4175850.00       32.67475  (06011619)                635175.00
4175850.00       31.72133  (06011619)
        635225.00   4175850.00       30.76784  (06011619)                635275.00
4175850.00       29.93818  (06011619)
        635325.00   4175850.00       29.08245  (06011619)                635375.00
4175850.00       28.23278  (06011619)
        635425.00   4175850.00       27.45992  (06011619)                634225.00
4175900.00       77.32574  (06121322)
        634325.00   4175900.00       70.33913  (06121322)                634375.00
4175900.00       66.82616  (06121322)
        634425.00   4175900.00       63.45173  (06121322)                634475.00
4175900.00       60.45918  (06121322)
        634525.00   4175900.00       57.61739  (06121322)                634575.00
4175900.00       54.92755  (06121322)
        634625.00   4175900.00       52.47615  (06121322)                634675.00
4175900.00       50.21392  (06121322)
        634725.00   4175900.00       47.85095  (06121322)                634775.00
4175900.00       45.77878  (06121322)
 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                          ***        01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TANK ***
INCLUDING SOURCE(S): TANK ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF HRA IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
634875.00	4175900.00	41.77293	(06121322)	634925.00	4175900.00	39.89576	(06121322)
634975.00	4175900.00	38.23232	(06121322)	635025.00	4175900.00	36.60076	(06121322)
635075.00	4175900.00	35.09563	(06121322)	635125.00	4175900.00	33.59234	(06121322)
635175.00	4175900.00	32.24326	(06121322)	635225.00	4175900.00	31.04799	(07011518)
635275.00	4175900.00	30.10168	(07011518)	635325.00	4175900.00	29.26423	(07011518)
635375.00	4175900.00	28.32228	(07011518)	635425.00	4175900.00	27.52063	(07011518)
635475.00	4175900.00	26.72943	(07011518)	635525.00	4175900.00	25.98620	(07011518)
634325.00	4175950.00	67.42397	(07021221)	634375.00	4175950.00	64.88018	(07011318)
634425.00	4175950.00	62.25649	(07011318)	634475.00	4175950.00	59.79174	(07011318)
634525.00	4175950.00	57.30607	(07011318)	634575.00	4175950.00	54.88131	(07011318)
634625.00	4175950.00	53.03646	(06121322)	634675.00	4175950.00	51.35976	(06121322)
634875.00	4175950.00	44.53925	(06121322)	634925.00	4175950.00	42.96239	(06121322)
634975.00	4175950.00	41.53036	(06121322)	635025.00	4175950.00	40.04838	(06121322)
635075.00	4175950.00	38.65022	(06121322)	635125.00	4175950.00	37.32659	(06121322)
635175.00	4175950.00	36.05023	(06121322)	635225.00	4175950.00	34.72903	(06121322)
635275.00	4175950.00	33.61593	(06121322)	635325.00			

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4175950.00       32.36279  (06121322)
        635375.00   4175950.00       31.27261  (06121322)                635425.00
4175950.00       30.19660  (06121322)
        635475.00   4175950.00       29.15385  (06121322)                635525.00
4175950.00       28.09438  (06121322)
        635575.00   4175950.00       27.16939  (06121322)                634725.00
4176000.00       47.86222  (07021221)
        634925.00   4176000.00       42.01752  (07011318)                634975.00
4176000.00       40.80425  (07011318)
        635025.00   4176000.00       39.49205  (07011318)                635075.00
4176000.00       38.12062  (07011318)
        635125.00   4176000.00       37.02783  (06121322)                635175.00
4176000.00       36.06272  (06121322)
        635225.00   4176000.00       35.13058  (06121322)                635275.00
4176000.00       34.26820  (06121322)
        635325.00   4176000.00       33.27876  (06121322)                635375.00
4176000.00       32.40480  (06121322)
        635425.00   4176000.00       31.46740  (06121322)                635475.00
4176000.00       30.59824  (06121322)
        635525.00   4176000.00       29.74470  (06121322)                635575.00
4176000.00       28.86341  (06121322)
        634825.00   4176050.00       45.67039  (07021221)                634875.00
4176050.00       44.08354  (07021221)
        634925.00   4176050.00       42.48687  (07021221)                634975.00
4176050.00       40.87216  (07021221)
        635025.00   4176050.00       39.22102  (07021221)                635075.00
4176050.00       37.61665  (07021221)
        635125.00   4176050.00       36.10435  (07021221)                635175.00
4176050.00       34.97775  (07011318)
        635225.00   4176050.00       34.17951  (07011318)                635275.00
4176050.00       33.35774  (07011318)
        635325.00   4176050.00       32.51441  (07011318)                635375.00
4176050.00       31.63520  (07011318)
        635425.00   4176050.00       30.85960  (07011318)                635475.00
4176050.00       30.00329  (07011318)
        635525.00   4176050.00       29.17500  (07011318)                635575.00
4176050.00       28.31174  (07011318)
        634825.00   4176100.00       45.04221  (04121118)                634875.00
4176100.00       43.78503  (04121118)
        634925.00   4176100.00       42.31331  (04121118)                634975.00
4176100.00       40.89491  (04121118)
        635025.00   4176100.00       39.47648  (04121118)                635075.00
4176100.00       38.33893  (07021221)
        635125.00   4176100.00       37.27965  (07021221)                635175.00
4176100.00       36.17140  (07021221)
        635225.00   4176100.00       35.09924  (07021221)                635275.00
4176100.00       33.98762  (07021221)
        635325.00   4176100.00       32.86605  (07021221)                635375.00
4176100.00       31.77414  (07021221)
 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
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*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: TANK ***
INCLUDING SOURCE(S): TANK ,

*** DISCRETE CARTESIAN RECEPTOR POINTS
***

** CONC OF HRA IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
635425.00	4176100.00	30.55688	(07021221)	635475.00	4176100.00	29.50940	(07021221)
635525.00	4176100.00	28.42594	(07021221)	635575.00	4176100.00	27.56912	(07011318)
634825.00	4176150.00	44.98614	(06020205)	634875.00	4176150.00	43.35709	(06020205)
634925.00	4176150.00	41.91661	(06011620)	634975.00	4176150.00	40.74840	(06011620)
635025.00	4176150.00	39.50449	(06011620)	635075.00	4176150.00	38.09131	(06011620)
635125.00	4176150.00	36.84853	(04121118)	635175.00	4176150.00	35.89185	(04121118)
635225.00	4176150.00	34.82131	(04121118)	635275.00	4176150.00	33.87952	(04121118)
635325.00	4176150.00	32.79262	(04121118)	635375.00	4176150.00	31.73565	(07021221)
635425.00	4176150.00	30.94046	(07021221)	635475.00	4176150.00	30.24399	(07021221)
635525.00	4176150.00	29.47313	(07021221)	635575.00	4176150.00	28.69567	(07021221)
634875.00	4176200.00	43.33040	(04021505)	634925.00	4176200.00	41.69819	(04021505)
634975.00	4176200.00	40.19868	(06020205)	635125.00	4176200.00	36.69822	(06020205)
635175.00	4176200.00	35.54642	(06011620)	635225.00	4176200.00	34.62682	(06011620)
635525.00	4176200.00	29.28449	(04121118)	635575.00	4176200.00	28.48780	(04121118)
634325.00	4176250.00	63.77799	(07021104)	634375.00			

4176250.00 61.69048 (06012919)
634875.00 4176250.00 42.31935 (06020208) 634925.00
4176250.00 40.26157 (06020208)
634975.00 4176250.00 39.54385 (04021505) 635025.00
4176250.00 38.72487 (04021505)
635075.00 4176250.00 37.71664 (04021505) 635125.00
4176250.00 36.61967 (04021505)
635175.00 4176250.00 35.37079 (04021505) 635225.00
4176250.00 34.32425 (06020205)
635275.00 4176250.00 33.47551 (06020205) 635375.00
4176250.00 31.51448 (06020205)
635425.00 4176250.00 30.50256 (06020205) 635525.00
4176250.00 29.16269 (06011620)
635575.00 4176250.00 28.42867 (06011620) 634875.00
4176300.00 42.39794 (05011419)
634925.00 4176300.00 41.00126 (06020208) 634975.00
4176300.00 39.88919 (06020208)
635025.00 4176300.00 38.55377 (06020208) 635075.00
4176300.00 37.02390 (06020208)
635125.00 4176300.00 35.38639 (06020208) 635175.00
4176300.00 34.39748 (04021505)
635225.00 4176300.00 33.87786 (04021505) 635275.00
4176300.00 33.25125 (04021505)
635375.00 4176300.00 31.41020 (04021505) 635425.00
4176300.00 30.43480 (04021505)
635525.00 4176300.00 28.96080 (06020205) 635575.00
4176300.00 28.18468 (06020205)
634875.00 4176350.00 42.06378 (05010918) 634925.00
4176350.00 40.59762 (05010918)
634975.00 4176350.00 39.39235 (05011419) 635025.00
4176350.00 38.31941 (05011419)
635075.00 4176350.00 36.98372 (05011419) 635125.00
4176350.00 35.92784 (06020208)
635175.00 4176350.00 34.97410 (06020208) 635225.00
4176350.00 33.97007 (06020208)
635275.00 4176350.00 32.74805 (06020208) 635375.00
4176350.00 30.22686 (04021505)
635425.00 4176350.00 29.87099 (04021505) 635525.00
4176350.00 28.76992 (04021505)
635575.00 4176350.00 28.02887 (04021505) 634875.00
4176400.00 41.49174 (06012919)
634925.00 4176400.00 40.35587 (06012919) 634975.00
4176400.00 38.86631 (06012919)
635025.00 4176400.00 37.88692 (05010918) 635075.00
4176400.00 36.79100 (05010918)
635125.00 4176400.00 35.46142 (05010918) 635175.00
4176400.00 34.72791 (05011419)
635225.00 4176400.00 33.80026 (05011419) 635275.00
4176400.00 32.69234 (05011419)
635425.00 4176400.00 30.16269 (06020208) 635525.00

4176400.00 27.99053 (06020208)

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TANK ***
INCLUDING SOURCE(S): TANK ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF HRA IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
635575.00	4176400.00	26.85532	(06020208)	633650.00	4176200.00	139.84940	(04121906)
633700.00	4176200.00	130.24352	(04121108)	633850.00	4176200.00	106.93825	(06122321)
633850.00	4176250.00	102.46820	(04121105)	633950.00	4176250.00	93.41072	(06122321)
634350.00	4176250.00	62.45597	(07021104)	633750.00	4176300.00	125.09625	(07121419)
633950.00	4176300.00	89.16132	(08121019)	634000.00	4176300.00	86.50712	(04121105)
634050.00	4176300.00	81.99606	(06122321)	634050.00	4176350.00	78.56363	(04121108)
634050.00	4176400.00	78.30583	(04121104)	634000.00	4176450.00	87.62128	(07121419)
634050.00	4176450.00	81.03430	(07121419)	634200.00	4176600.00	68.57434	(08120919)
634100.00	4176650.00	73.00780	(08021808)	634150.00	4176650.00	69.07999	(04121907)
634200.00	4176650.00	66.39319	(04120904)	634200.00	4176850.00	58.68293	(08121003)
634200.00	4176900.00	58.42665	(08121003)	634250.00	4176900.00	56.06656	(08121003)
634300.00	4176900.00	54.92884	(04011022)	634400.00	4177000.00	48.41796	(04011022)
634450.00	4177000.00	47.92350	(04011022)	634500.00	4177000.00	46.65270	(07121519)
634550.00	4177000.00	45.88485	(08021808)	634400.00			

4177050.00 48.47937 (08121003)
634450.00 4177050.00 45.30668 (08121003) 634500.00
4177050.00 45.81516 (04011022)
634550.00 4177050.00 44.58892 (07121519) 633750.00
4173175.00 64.80366 (07011417)
634450.00 4173325.00 41.66059 (05020818) 634450.00
4173375.00 37.03725 (06072804)
634350.00 4173475.00 47.54599 (05020818) 634300.00
4173625.00 41.47944 (05020818)
634300.00 4173675.00 51.94710 (05011521) 634350.00
4173675.00 61.16592 (05011521)
634250.00 4173775.00 62.22228 (05011521) 633950.00
4173825.00 87.81379 (04122822)
634050.00 4173825.00 82.01305 (05020818) 634100.00
4173825.00 73.63180 (05020818)
634250.00 4173825.00 72.60455 (05011521) 634250.00
4173975.00 82.15261 (05011520)
634150.00 4174125.00 100.62292 (05011520) 634200.00
4174125.00 95.04132 (05011520)
634250.00 4174125.00 77.10892 (05011520) 634250.00
4174225.00 93.07934 (04022018)
634350.00 4174225.00 99.93716 (04022018) 634400.00
4174225.00 86.08130 (06122122)
634200.00 4174325.00 120.70882 (04022018) 634250.00
4174325.00 117.28470 (04022018)
634200.00 4174375.00 130.03054 (04022018) 634250.00
4174425.00 107.31053 (05021018)
634000.00 4174475.00 122.31044 (04022018) 634250.00
4174525.00 125.78913 (05112916)
634100.00 4174575.00 155.80399 (05021018) 634150.00
4174575.00 149.58350 (05112916)
634200.00 4174575.00 139.39789 (05112916) 634250.00
4174575.00 124.97542 (08030618)
634250.00 4174625.00 124.40264 (05030408) 634250.00
4174675.00 141.23340 (05030408)
634250.00 4174825.00 194.89055 (06011617) 634250.00
4174875.00 138.64774 (05112917)
634200.00 4174925.00 169.63955 (07012703) 634250.00
4174925.00 202.65131 (07012703)
631950.00 4173950.00 67.54164 (05012117) 631550.00
4174000.00 40.58476 (07121217)
631550.00 4174050.00 41.68414 (08121017) 631750.00
4174250.00 79.41815 (07121217)
632300.00 4174300.00 170.48140 (06102817) 632350.00
4174300.00 200.53549 (06102817)
632300.00 4174350.00 151.22514 (06102817) 632350.00
4174350.00 212.61187 (06102817)
631600.00 4174400.00 107.27252 (04012317) 631650.00
4174400.00 123.82102 (04012317)
632000.00 4174400.00 236.86033 (06011109) 632000.00

4174450.00   207.01747 (06011109)
        631950.00   4174500.00   160.45630 (07121217)   632150.00
4174950.00   324.31774 (04012317)

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: TANK   ***
                                   INCLUDING SOURCE(S):   TANK   ,

                                        *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                     ** CONC OF HRA   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        632200.00   4174950.00   255.58977 (04012317)

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: FORK   ***
                                   INCLUDING SOURCE(S):   L0011492   , L0011493
, L0011494   , L0011495   , L0011496   ,
                  L0011497   , L0011498   , L0011499   , L0011500   , L0011501
, L0011502   , L0011503   , L0011504   ,
                  L0011505   , L0011506   , L0011507   , L0011508   , L0011509
, L0011510   , L0011511   , L0011512   ,
                  L0011513   , L0011514   , L0011515   , L0011516   , L0011517
, L0011518   , L0011519   , . . .   ,

                                        *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                     ** CONC OF HRA   IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
631050.00	4178050.00	19.00051	(04120903)	631150.00	4178250.00	20.90532	(08011010)
631250.00	4178250.00	20.20792	(05022703)	631350.00	4178250.00	20.74647	(05022705)
631450.00	4178250.00	21.04495	(06011018)	631550.00	4178250.00	21.47823	(06012819)
631650.00	4178250.00	24.71900	(05011001)	631750.00	4178250.00	26.04475	(07012805)
631150.00	4178350.00	19.74092	(08011010)	631450.00	4178350.00	20.22064	(06011018)
631550.00	4178350.00	21.71388	(05011001)	631650.00	4178350.00	24.67729	(05011001)
631750.00	4178350.00	24.78731	(07012805)	630650.00	4178450.00	15.17833	(05122923)
630850.00	4178450.00	17.25210	(06021721)	631050.00	4178450.00	19.58671	(08011010)
631150.00	4178450.00	18.45636	(07121206)	631250.00	4178450.00	18.70886	(05022705)
631550.00	4178450.00	22.66384	(05011001)	631650.00	4178450.00	23.55969	(07012805)
631750.00	4178450.00	23.81054	(06122519)	631850.00	4178450.00	24.33479	(05122622)
631950.00	4178450.00	24.75124	(07122907)	632050.00	4178450.00	24.38477	(06021720)
632150.00	4178450.00	25.36265	(06020123)	630550.00	4178550.00	14.50085	(05122923)
630650.00	4178550.00	14.90850	(06021721)	630750.00	4178550.00	16.31091	(06021721)
630950.00	4178550.00	19.23099	(08011010)	631050.00	4178550.00	17.38811	(07121206)
631250.00	4178550.00	17.99156	(06011018)	631350.00	4178550.00	18.35506	(06012819)
631450.00	4178550.00	20.28786	(05011001)	631550.00	4178550.00	22.36053	(05011001)
631650.00	4178550.00	22.34819	(07012805)	631750.00	4178550.00	22.98006	(06122519)
631850.00	4178550.00	22.74466	(07122907)	631950.00	4178550.00	23.61395	(06021720)
632050.00	4178550.00	22.66191	(06020123)	632150.00	4178550.00	24.09292	(06020123)
630450.00	4178650.00	13.87090	(05122923)	630550.00	4178650.00	13.93411	(06021721)
630650.00	4178650.00	15.40562	(06021721)	630750.00	4178650.00	17.44387	(08011010)

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        630850.00   4178650.00       18.79043  (08011010)                630950.00
4178650.00       17.57380  (08011010)
        631050.00   4178650.00       16.78139  (05022705)                631150.00
4178650.00       16.65640  (05022705)
        631250.00   4178650.00       17.43163  (06011018)                631350.00
4178650.00       17.67351  (05011001)
        631450.00   4178650.00       20.85618  (05011001)                631550.00
4178650.00       21.45960  (07012805)
        631650.00   4178650.00       21.65094  (06122519)                631750.00
4178650.00       22.13536  (05122622)
        631850.00   4178650.00       22.46851  (07122907)                631950.00
4178650.00       22.47713  (06021720)
        632050.00   4178650.00       22.64510  (06020123)                632150.00
4178650.00       22.67660  (07021207)
        630350.00   4178750.00       13.38287  (06013009)                630450.00
4178750.00       13.02770  (06021721)
        630550.00   4178750.00       14.56709  (06021721)                630650.00
4178750.00       16.49639  (08011010)
        630750.00   4178750.00       18.24191  (08011010)                630850.00
4178750.00       17.64591  (08011010)
        630950.00   4178750.00       15.96946  (07121206)                631050.00
4178750.00       16.13257  (05022705)
        631150.00   4178750.00       16.60356  (06011018)                631250.00
4178750.00       16.72656  (06012819)
        631350.00   4178750.00       18.92281  (05011001)                631450.00
4178750.00       20.37177  (05011001)
        631550.00   4178750.00       20.30840  (07012805)                631650.00
4178750.00       20.98438  (06122519)
        631750.00   4178750.00       20.76193  (05122622)                631850.00
4178750.00       21.41590  (07122907)
        631950.00   4178750.00       20.79268  (06021720)                632050.00
4178750.00       22.06162  (06020123)
        632150.00   4178750.00       22.20976  (07021207)                630250.00
4178850.00       13.08028  (06013009)
        630350.00   4178850.00       12.44925  (06013009)                630450.00
4178850.00       13.76351  (06021721)
 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                          ***        01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                         ***        15:43:26

                                    PAGE 294
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  FORK     ***
                                    INCLUDING SOURCE(S):     L0011492    , L0011493
, L0011494    , L0011495    , L0011496    ,
                 L0011497    , L0011498    , L0011499    , L0011500    , L0011501
, L0011502    , L0011503    , L0011504    ,
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                L0011505    , L0011506    , L0011507    , L0011508    , L0011509
, L0011510    , L0011511    , L0011512    ,
                L0011513    , L0011514    , L0011515    , L0011516    , L0011517
, L0011518    , L0011519    ,  . . .      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF HRA      IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        630550.00   4178850.00       15.63235  (08011010)               630650.00
4178850.00       17.60240  (08011010)
        630750.00   4178850.00       17.58372  (08011010)               630850.00
4178850.00       15.30478  (08011010)
        630950.00   4178850.00       15.47212  (05022705)               631050.00
4178850.00       15.60005  (06011018)
        631150.00   4178850.00       15.88416  (06012819)               631250.00
4178850.00       16.75609  (05011001)
        631350.00   4178850.00       19.22559  (05011001)               631450.00
4178850.00       19.61842  (07012805)
        631550.00   4178850.00       19.76377  (06122519)               631650.00
4178850.00       20.24175  (05122622)
        631750.00   4178850.00       20.40333  (07122907)               631850.00
4178850.00       20.69304  (06021720)
        631950.00   4178850.00       20.04325  (06020123)               632050.00
4178850.00       21.03483  (06020123)
        632150.00   4178850.00       21.37140  (07021207)               630250.00
4178950.00       12.26493  (06013009)
        630350.00   4178950.00       13.00598  (06021721)               630450.00
4178950.00       14.69943  (08011010)
        630550.00   4178950.00       17.03275  (08011010)               630650.00
4178950.00       17.36780  (08011010)
        630750.00   4178950.00       15.66868  (08011010)               630850.00
4178950.00       14.69998  (05022705)
        630950.00   4178950.00       14.50531  (06011018)               631050.00
4178950.00       15.21578  (06011018)
        631150.00   4178950.00       15.20299  (06012819)               631250.00
4178950.00       17.66708  (05011001)
        631350.00   4178950.00       18.63668  (05011001)               631450.00
4178950.00       18.53535  (07012805)
        631550.00   4178950.00       19.20743  (06122519)               631650.00
4178950.00       19.16295  (05122622)
        631750.00   4178950.00       19.73334  (07122907)               631850.00
4178950.00       19.45398  (06021720)
        631950.00   4178950.00       19.96461  (06020123)               632050.00
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4178950.00       19.76947  (07021207)
        632150.00   4178950.00       20.52550  (04022120)                629950.00
4179050.00       12.01811  (05122923)
        630250.00   4179050.00       12.29127  (06021721)                630350.00
4179050.00       13.84084  (08011010)
        630450.00   4179050.00       16.32689  (08011010)                630550.00
4179050.00       17.13242  (08011010)
        630650.00   4179050.00       15.85954  (08011010)                630750.00
4179050.00       13.94226  (07121206)
        630850.00   4179050.00       14.08208  (05022705)                630950.00
4179050.00       14.52612  (06011018)
        631050.00   4179050.00       14.65012  (06012819)                631150.00
4179050.00       15.86816  (05011001)
        631250.00   4179050.00       17.76197  (05011001)                631350.00
4179050.00       18.03297  (07012805)
        631450.00   4179050.00       18.15088  (06122519)                631550.00
4179050.00       18.55394  (05122622)
        631650.00   4179050.00       18.56600  (07122907)                631750.00
4179050.00       18.98415  (06021720)
        631850.00   4179050.00       17.85775  (06021720)                631950.00
4179050.00       19.44869  (06020123)
        632050.00   4179050.00       19.49147  (07021207)                632150.00
4179050.00       19.76496  (04022120)
        629850.00   4179150.00       11.68510  (06013009)                629950.00
4179150.00       12.22441  (06013009)
        630150.00   4179150.00       11.61233  (06021721)                630250.00
4179150.00       12.98657  (08011010)
        630350.00   4179150.00       15.56500  (08011010)                630450.00
4179150.00       16.72288  (08011010)
        630550.00   4179150.00       16.01986  (08011010)                630650.00
4179150.00       13.57120  (08011010)
        630750.00   4179150.00       13.58897  (05022705)                630850.00
4179150.00       13.68634  (06011018)
        630950.00   4179150.00       13.89678  (06012819)                631050.00
4179150.00       13.96495  (05011001)
        631150.00   4179150.00       16.51493  (05011001)                631250.00
4179150.00       17.09923  (05011001)
        631350.00   4179150.00       17.00909  (07012805)                631450.00
4179150.00       17.70280  (06122519)
        631550.00   4179150.00       17.70631  (05122622)                631650.00
4179150.00       18.16955  (07122907)
        631750.00   4179150.00       18.18444  (06021720)                631850.00
4179150.00       17.89629  (06020123)
        631950.00   4179150.00       18.47365  (06020123)                632050.00
4179150.00       18.89636  (07021207)
 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                          ***        01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                       ***        15:43:26
```

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: FORK ***
INCLUDING SOURCE(S): L0011492 , L0011493 , L0011494 , L0011495 , L0011496 ,
L0011497 , L0011498 , L0011499 , L0011500 , L0011501 , L0011502 , L0011503 , L0011504 ,
L0011505 , L0011506 , L0011507 , L0011508 , L0011509 , L0011510 , L0011511 , L0011512 ,
L0011513 , L0011514 , L0011515 , L0011516 , L0011517 , L0011518 , L0011519 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF HRA IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
632150.00	4179150.00	19.14050	(08011009)	630850.00	4179250.00	13.42800	(06011018)
630950.00	4179250.00	13.46510	(06012819)	631050.00	4177625.00	24.14459	(05022704)
631100.00	4177725.00	23.62685	(04120901)	631100.00	4177825.00	22.78068	(05122923)
631350.00	4178225.00	20.86274	(05022705)	631400.00	4178225.00	21.10330	(05022705)
631450.00	4178225.00	21.04429	(06011018)	631500.00	4178225.00	21.66183	(06011018)
631100.00	4178275.00	20.44290	(08011010)	631150.00	4178275.00	20.82171	(08011010)
631200.00	4178275.00	20.29457	(08011010)	631250.00	4178275.00	20.03318	(07121206)
631300.00	4178275.00	20.26789	(07121206)	631350.00	4178275.00	20.54400	(05022705)
631400.00	4178275.00	20.26190	(05022705)	631450.00	4178275.00	20.96852	(06011018)
631500.00	4178275.00	21.04151	(06011018)	630950.00	4178325.00	18.40771	(06021721)
631100.00	4178325.00	20.52919	(08011010)	631150.00	4178325.00	20.21542	(08011010)
631200.00	4178325.00	19.40752	(05022703)	631250.00	4178325.00	19.73915	(07121206)
631300.00	4178325.00	19.95567	(05022705)	631400.00	4178325.00	20.20551	(06011018)

631450.00 4178325.00 20.55184 (06011018) 631500.00 4178325.00 20.63117 (06012819)
630950.00 4178375.00 18.19282 (08011010) 631200.00 4178375.00 19.17387 (07121206)
631300.00 4178375.00 19.45816 (05022705) 631400.00 4178375.00 19.98198 (06011018)
631450.00 4178375.00 19.98438 (06012819) 631500.00 4178375.00 20.01934 (06012819)
630800.00 4178425.00 16.72096 (06021721) 630850.00 4178425.00 17.34808 (06021721)
631050.00 4178425.00 19.90862 (08011010) 631200.00 4178425.00 18.69421 (07121206)
631250.00 4178425.00 18.98726 (05022705) 631300.00 4178425.00 18.67921 (05022705)
630650.00 4178475.00 14.79824 (04120903) 630800.00 4178475.00 16.83984 (06021721)
630850.00 4178475.00 17.07497 (06021721) 631050.00 4178475.00 19.16266 (08011010)
631200.00 4178475.00 18.47485 (05022705) 631250.00 4178475.00 18.36789 (05022705)
631300.00 4178475.00 18.68197 (06011018) 631450.00 4178475.00 19.10952 (05011001)
631500.00 4178475.00 21.27309 (05011001) 630550.00 4178525.00 14.96444 (05122923)
630600.00 4178525.00 14.38471 (04120903) 630650.00 4178525.00 14.61213 (06021721)
630700.00 4178525.00 15.64551 (06021721) 630750.00 4178525.00 16.34155 (06021721)
630950.00 4178525.00 19.40498 (08011010) 631050.00 4178525.00 18.04646 (08011010)
631200.00 4178525.00 18.00833 (05022705) 631250.00 4178525.00 17.97546 (06011018)
631300.00 4178525.00 18.50184 (06011018) 631350.00 4178525.00 18.47712 (06012819)
631400.00 4178525.00 18.58650 (06012819) 631450.00 4178525.00 19.96601 (05011001)
631500.00 4178525.00 21.66246 (05011001) 630500.00 4178575.00 14.61900 (05122923)
630550.00 4178575.00 13.98812 (04120903) 630600.00 4178575.00 14.16524 (04120903)
630650.00 4178575.00 15.12604 (06021721) 630700.00 4178575.00 15.85269 (06021721)
630750.00 4178575.00 16.20958 (06021721) 630800.00 4178575.00 17.50900 (08011010)
630850.00 4178575.00 18.62417 (08011010) 631000.00 4178575.00 18.11942 (08011010)
631050.00 4178575.00 17.30415 (07121206) 631200.00 4178575.00 17.29140 (05022705)
631250.00 4178575.00 17.94273 (06011018) 631300.00 4178575.00 18.06543 (06011018)

631350.00 4178575.00 18.16811 (06012819) 631400.00
4178575.00 18.59428 (05011001)
631450.00 4178575.00 20.52023 (05011001) 631500.00
4178575.00 21.74833 (05011001)

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: FORK ***
INCLUDING SOURCE(S): L0011492 , L0011493
, L0011494 , L0011495 , L0011496 ,
L0011497 , L0011498 , L0011499 , L0011500 , L0011501
, L0011502 , L0011503 , L0011504 ,
L0011505 , L0011506 , L0011507 , L0011508 , L0011509
, L0011510 , L0011511 , L0011512 ,
L0011513 , L0011514 , L0011515 , L0011516 , L0011517
, L0011518 , L0011519 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS
***

** CONC OF HRA IN MICROGRAMS/M**3
**

X-COORD (M) Y-COORD (M) CONC (YYMMDDHH) X-COORD (M)
Y-COORD (M) CONC (YYMMDDHH)
- -
- -
630500.00 4178625.00 13.69020 (05122923) 630550.00
4178625.00 13.80098 (04120903)
630600.00 4178625.00 14.64967 (06021721) 630650.00
4178625.00 15.37759 (06021721)
630700.00 4178625.00 15.77924 (06021721) 630750.00
4178625.00 17.01438 (08011010)
630800.00 4178625.00 18.24400 (08011010) 630850.00
4178625.00 18.87623 (08011010)
631000.00 4178625.00 16.81939 (08011010) 631050.00
4178625.00 16.93654 (07121206)
631100.00 4178625.00 17.16815 (05022705) 631150.00
4178625.00 17.02178 (05022705)
631200.00 4178625.00 17.33971 (06011018) 631250.00
4178625.00 17.66015 (06011018)
631300.00 4178625.00 17.68212 (06012819) 631350.00
4178625.00 17.63958 (06012819)
631400.00 4178625.00 19.31432 (05011001) 631450.00

4178625.00 20.81722 (05011001)
631500.00 4178625.00 21.54027 (05011001) 631100.00
4175700.00 74.56248 (04121304)
631150.00 4175700.00 76.76050 (04121304) 631200.00
4175700.00 79.26578 (04121304)
631250.00 4175700.00 81.54105 (04121304) 631100.00
4175750.00 70.57743 (04121304)
631150.00 4175750.00 73.16726 (04121304) 629400.00
4179050.00 10.60172 (05022704)
629450.00 4179050.00 10.83743 (05022704) 629500.00
4179050.00 10.93174 (05022704)
629400.00 4179100.00 10.62304 (05022704) 629450.00
4179100.00 10.69939 (05022704)
629400.00 4179150.00 10.47238 (05022704) 629500.00
4179150.00 10.37934 (04120901)
629550.00 4179150.00 10.73605 (04120901) 629600.00
4179150.00 10.94906 (04120901)
629650.00 4179150.00 11.00519 (04120901) 629700.00
4179150.00 11.14752 (04120902)
629800.00 4179200.00 11.56697 (06013009) 629400.00
4179300.00 10.12347 (04120901)
629400.00 4179350.00 10.09729 (04120901) 634375.00
4175350.00 62.89839 (04022222)
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4175400.00 32.30996 (06100508)
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4175600.00 53.56612 (05122420)
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634775.00 4175600.00 48.04044 (05122420) 634825.00
4175600.00 46.27842 (05122420)
634875.00 4175600.00 44.48531 (05122420) 634925.00
4175600.00 42.76021 (05122420)
635375.00 4175600.00 32.04556 (05020819) 634275.00
4175650.00 76.01919 (05122420)
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4175650.00 57.22214 (07012218)
634625.00 4175650.00 54.77649 (07012218) 634675.00
4175650.00 52.51025 (07012218)
634725.00 4175650.00 50.30120 (07012218) 634775.00

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4175650.00       48.10126  (07012218)
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4175700.00       57.01192  (05020819)
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4175700.00       51.65783  (05020819)
🡅 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                         ***       01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                      ***        15:43:26

                                  PAGE 297
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  FORK     ***
                                  INCLUDING SOURCE(S):     L0011492    , L0011493
, L0011494    , L0011495    , L0011496    ,
                L0011497    , L0011498    , L0011499    , L0011500    , L0011501
, L0011502    , L0011503    , L0011504    ,
                L0011505    , L0011506    , L0011507    , L0011508    , L0011509
, L0011510    , L0011511    , L0011512    ,
                L0011513    , L0011514    , L0011515    , L0011516    , L0011517
, L0011518    , L0011519    ,  . . .      ,

                                             *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                        ** CONC OF HRA      IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -
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4175700.00       47.85810  (07021102)
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4175700.00       44.59205  (07021102)
        634925.00   4175700.00       42.97580  (07021102)                634975.00
4175700.00       41.58787  (07021102)
        635025.00   4175700.00       40.13444  (07021102)                635075.00
4175700.00       38.88623  (07021102)
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635125.00 4175700.00 37.63762 (07021102) 634425.00
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4175750.00 54.79132 (07021102)
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4175750.00 50.13387 (07021102)
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4175750.00 45.97722 (07021102)
634875.00 4175750.00 44.02720 (07021102) 634925.00
4175750.00 42.33456 (06012822)
634975.00 4175750.00 40.89897 (06012822) 635025.00
4175750.00 39.50416 (06012822)
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4175800.00 63.39752 (06012822)
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4175850.00 43.70937 (04122902)

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4175900.00       46.16154  (06121322)
 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                          ***        01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                         ***        15:43:26

                                    PAGE 298
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  FORK     ***
                                    INCLUDING SOURCE(S):     L0011492    , L0011493
, L0011494    , L0011495    , L0011496    ,
                   L0011497    , L0011498    , L0011499    , L0011500    , L0011501
, L0011502    , L0011503    , L0011504    ,
                   L0011505    , L0011506    , L0011507    , L0011508    , L0011509
, L0011510    , L0011511    , L0011512    ,
                   L0011513    , L0011514    , L0011515    , L0011516    , L0011517
, L0011518    , L0011519    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                             ** CONC OF HRA      IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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        635075.00   4175900.00       36.19304  (07011518)                635125.00
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        635175.00   4175900.00       33.66420  (07011518)                635225.00
4175900.00       32.52014  (07011518)
        635275.00   4175900.00       31.40344  (07011518)                635325.00
4175900.00       30.41998  (07011518)
        635375.00   4175900.00       29.32955  (07011518)                635425.00
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4176100.00   37.93467 (07021221)
        635225.00   4176100.00   36.62341 (07021221)   635275.00
4176100.00   35.29285 (07021221)
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4176100.00   32.70871 (07021221)

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                               *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: FORK   ***
                                   INCLUDING SOURCE(S):   L0011492   , L0011493
, L0011494   , L0011495   , L0011496   ,
                L0011497   , L0011498   , L0011499   , L0011500   , L0011501
, L0011502   , L0011503   , L0011504   ,
                L0011505   , L0011506   , L0011507   , L0011508   , L0011509
, L0011510   , L0011511   , L0011512   ,
                L0011513   , L0011514   , L0011515   , L0011516   , L0011517
, L0011518   , L0011519   , . . .   ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF HRA IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
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634925.00	4176150.00	44.62706	(06011620)	634975.00	4176150.00	43.19744	(06011620)
635025.00	4176150.00	41.71237	(06011620)	635075.00	4176150.00	40.06249	(06011620)
635125.00	4176150.00	38.97906	(04121118)	635175.00	4176150.00	37.77886	(04121118)
635225.00	4176150.00	36.47655	(04121118)	635275.00	4176150.00	35.34429	(04121118)
635325.00	4176150.00	34.20411	(07021221)	635375.00	4176150.00	33.33026	(07021221)
635425.00	4176150.00	32.32913	(07021221)	635475.00	4176150.00	31.45851	(07021221)
635525.00	4176150.00	30.52267	(07021221)	635575.00	4176150.00	29.59607	(07021221)
634875.00	4176200.00	46.08280	(04021505)	634925.00	4176200.00	44.28894	(04021505)
634975.00	4176200.00	42.58477	(06020205)	635125.00	4176200.00	38.57423	(06020205)
635175.00	4176200.00	37.43395	(06011620)	635225.00	4176200.00	36.32414	(06011620)
635525.00	4176200.00	30.36271	(04121118)	635575.00	4176200.00	29.42816	(04121118)
634325.00	4176250.00	70.83024	(05121218)	634375.00	4176250.00	67.26508	(05121218)
634875.00	4176250.00	45.31864	(06020208)	634925.00	4176250.00	43.26247	(06020208)
634975.00	4176250.00	41.69234	(04021505)	635025.00	4176250.00	40.77917	(04021505)
635075.00	4176250.00	39.67152	(04021505)	635125.00	4176250.00	38.48209	(04021505)
635175.00	4176250.00	37.13672	(04021505)	635225.00	4176250.00	35.96140	(06020205)
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        635425.00   4176250.00       31.76522  (06011620)                635525.00
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4176300.00       45.04509  (05011419)
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        635125.00   4176300.00       37.59523  (06020208)                635175.00
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4176400.00       29.21345  (06020208)
 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                          ***        01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                         ***        15:43:26

                                    PAGE 300
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  FORK     ***
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```
                                  INCLUDING SOURCE(S):     L0011492    , L0011493
, L0011494    , L0011495    , L0011496    ,
                  L0011497    , L0011498    , L0011499    , L0011500    , L0011501
, L0011502    , L0011503    , L0011504    ,
                  L0011505    , L0011506    , L0011507    , L0011508    , L0011509
, L0011510    , L0011511    , L0011512    ,
                  L0011513    , L0011514    , L0011515    , L0011516    , L0011517
, L0011518    , L0011519    ,  . . .      ,

                                             *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF HRA      IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        635575.00   4176400.00       28.10627  (06020208)                633650.00
4176200.00      169.95051  (08021808)
        633700.00   4176200.00      154.75788  (08120919)                633850.00
4176200.00      118.99365  (08121019)
        633850.00   4176250.00      119.21817  (07121419)                633950.00
4176250.00      102.08623  (08121019)
        634350.00   4176250.00       69.26841  (05121218)                633750.00
4176300.00      138.50554  (08021808)
        633950.00   4176300.00      100.32676  (07121419)                634000.00
4176300.00       93.66245  (04121104)
        634050.00   4176300.00       88.45914  (08121019)                634050.00
4176350.00       86.02126  (04121906)
        634050.00   4176400.00       90.39350  (07121419)                634000.00
4176450.00       91.86798  (08021808)
        634050.00   4176450.00       86.96058  (04120904)                634200.00
4176600.00       71.47881  (08021808)
        634100.00   4176650.00       71.02859  (08121003)                634150.00
4176650.00       69.87431  (04011022)
        634200.00   4176650.00       70.27977  (08021808)                634200.00
4176850.00       62.68121  (08021908)
        634200.00   4176900.00       60.02834  (08021908)                634250.00
4176900.00       59.13994  (08021908)
        634300.00   4176900.00       55.16415  (08021908)                634400.00
4177000.00       49.89768  (08021908)
        634450.00   4177000.00       46.78701  (08121003)                634500.00
4177000.00       46.06227  (08121003)
        634550.00   4177000.00       44.49915  (04011022)                634400.00
4177050.00       50.17498  (08021908)
        634450.00   4177050.00       47.31698  (08021908)                634500.00
4177050.00       44.42825  (08121003)
        634550.00   4177050.00       44.23355  (08121003)                633750.00
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4173175.00       39.80861  (04122824)
        634450.00   4173325.00       41.77591  (04122822)                634450.00
4173375.00       41.99715  (04122822)
        634350.00   4173475.00       44.37347  (04122822)                634300.00
4173625.00       46.75763  (04122822)
        634300.00   4173675.00       46.08833  (04122822)                634350.00
4173675.00       46.39722  (05020818)
        634250.00   4173775.00       47.40086  (04122822)                633950.00
4173825.00       51.78965  (06020105)
        634050.00   4173825.00       43.85564  (04022318)                634100.00
4173825.00       46.93308  (04122822)
        634250.00   4173825.00       49.00370  (05020818)                634250.00
4173975.00       46.89277  (05020818)
        634150.00   4174125.00       48.94170  (05020818)                634200.00
4174125.00       44.96363  (05011521)
        634250.00   4174125.00       49.46578  (05011521)                634250.00
4174225.00       50.47969  (05011521)
        634350.00   4174225.00       49.40104  (05011520)                634400.00
4174225.00       45.36263  (05011520)
        634200.00   4174325.00       50.82574  (05011520)                634250.00
4174325.00       50.09446  (05011520)
        634200.00   4174375.00       53.27951  (05011520)                634250.00
4174425.00       47.08058  (05122304)
        634000.00   4174475.00       60.40331  (05011521)                634250.00
4174525.00       46.13412  (04022018)
        634100.00   4174575.00       57.28832  (05011520)                634150.00
4174575.00       51.62795  (05122304)
        634200.00   4174575.00       49.08168  (04022018)                634250.00
4174575.00       46.95038  (04022018)
        634250.00   4174625.00       44.58856  (04022018)                634250.00
4174675.00       43.36953  (05021018)
        634250.00   4174825.00       47.13380  (07012702)                634250.00
4174875.00       51.70875  (06011617)
        634200.00   4174925.00       56.41271  (06011617)                634250.00
4174925.00       57.78258  (06011617)
        631950.00   4173950.00       28.47657  (07122718)                631550.00
4174000.00       24.47508  (08121017)
        631550.00   4174050.00       27.71810  (04012317)                631750.00
4174250.00       34.39551  (04012317)
        632300.00   4174300.00       52.26412  (05012117)                632350.00
4174300.00       53.61583  (05030118)
        632300.00   4174350.00       56.38564  (05012117)                632350.00
4174350.00       54.22453  (05030118)
        631600.00   4174400.00       41.63118  (05110618)                631650.00
4174400.00       43.59471  (05110618)
        632000.00   4174400.00       55.36444  (07121217)                632000.00
4174450.00       52.82369  (07121217)
        631950.00   4174500.00       63.80962  (04012317)                632150.00
4174950.00       90.41723  (06121421)
 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
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                         ***        01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                       ***        15:43:26

                                  PAGE 301
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  FORK     ***
                                  INCLUDING SOURCE(S):     L0011492    , L0011493
, L0011494    , L0011495    , L0011496    ,
                 L0011497    , L0011498    , L0011499    , L0011500    , L0011501
, L0011502    , L0011503    , L0011504    ,
                 L0011505    , L0011506    , L0011507    , L0011508    , L0011509
, L0011510    , L0011511    , L0011512    ,
                 L0011513    , L0011514    , L0011515    , L0011516    , L0011517
, L0011518    , L0011519    ,  . . .      ,

                                             *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                        ** CONC OF HRA      IN MICROGRAMS/M**3
                   **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
        632200.00   4174950.00       84.40210  (05110618)

🡅 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                         ***        01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                       ***        15:43:26

                                  PAGE 302
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                        *** THE SUMMARY OF MAXIMUM PERIOD ( 43848
HRS) RESULTS ***


                                    ** CONC OF HRA      IN MICROGRAMS/M**3
               **


                        NETWORK
GROUP ID                      AVERAGE CONC                RECEPTOR  (XR, YR, ZELEV,
ZHILL, ZFLAG)  OF TYPE  GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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- - - - - - - - - - - - - - - - - - -

IDLING1 1ST HIGHEST VALUE IS 1.58508 AT (633650.00, 4176200.00, 31.94,
  31.94, 0.00) DC
  2ND HIGHEST VALUE IS 1.49365 AT (633700.00, 4176200.00, 31.32,
  31.32, 0.00) DC
  3RD HIGHEST VALUE IS 1.26109 AT (633850.00, 4176200.00, 29.92,
  29.92, 0.00) DC
  4TH HIGHEST VALUE IS 1.25529 AT (634225.00, 4175850.00, 31.44,
  31.44, 0.00) DC
  5TH HIGHEST VALUE IS 1.24017 AT (634225.00, 4175900.00, 31.16,
  31.16, 0.00) DC
  6TH HIGHEST VALUE IS 1.11777 AT (633850.00, 4176250.00, 30.17,
  30.17, 0.00) DC
  7TH HIGHEST VALUE IS 1.10258 AT (634325.00, 4175850.00, 31.62,
  31.62, 0.00) DC
  8TH HIGHEST VALUE IS 1.09916 AT (634325.00, 4175800.00, 32.14,
  32.14, 0.00) DC
  9TH HIGHEST VALUE IS 1.09111 AT (634325.00, 4175900.00, 31.69,
  31.69, 0.00) DC
 10TH HIGHEST VALUE IS 1.08879 AT (633750.00, 4176300.00, 30.39,
  30.39, 0.00) DC

IDLING2 1ST HIGHEST VALUE IS 1.18630 AT (634225.00, 4175850.00, 31.44,
  31.44, 0.00) DC
  2ND HIGHEST VALUE IS 1.15707 AT (633650.00, 4176200.00, 31.94,
  31.94, 0.00) DC
  3RD HIGHEST VALUE IS 1.15590 AT (634275.00, 4175650.00, 33.30,
  33.30, 0.00) DC
  4TH HIGHEST VALUE IS 1.13015 AT (634225.00, 4175900.00, 31.16,
  31.16, 0.00) DC
  5TH HIGHEST VALUE IS 1.09616 AT (633700.00, 4176200.00, 31.32,
  31.32, 0.00) DC
  6TH HIGHEST VALUE IS 1.08568 AT (634325.00, 4175650.00, 33.07,
  33.07, 0.00) DC
  7TH HIGHEST VALUE IS 1.08046 AT (634325.00, 4175800.00, 32.14,
  32.14, 0.00) DC
  8TH HIGHEST VALUE IS 1.04841 AT (634325.00, 4175850.00, 31.62,
  31.62, 0.00) DC
  9TH HIGHEST VALUE IS 1.01912 AT (634325.00, 4175550.00, 34.07,
  34.07, 0.00) DC
 10TH HIGHEST VALUE IS 1.01691 AT (634375.00, 4175800.00, 31.87,
  31.87, 0.00) DC

IDLING3 1ST HIGHEST VALUE IS 1.81723 AT (633650.00, 4176200.00, 31.94,
  31.94, 0.00) DC
  2ND HIGHEST VALUE IS 1.69342 AT (633700.00, 4176200.00, 31.32,
  31.32, 0.00) DC
  3RD HIGHEST VALUE IS 1.63807 AT (634225.00, 4175850.00, 31.44,
  31.44, 0.00) DC

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          4TH HIGHEST VALUE IS       1.58744 AT (  634225.00,  4175900.00,    31.16,
   31.16,    0.00)  DC
          5TH HIGHEST VALUE IS       1.42175 AT (  634325.00,  4175800.00,    32.14,
   32.14,    0.00)  DC
          6TH HIGHEST VALUE IS       1.41095 AT (  634275.00,  4175650.00,    33.30,
   33.30,    0.00)  DC
          7TH HIGHEST VALUE IS       1.40813 AT (  634325.00,  4175850.00,    31.62,
   31.62,    0.00)  DC
          8TH HIGHEST VALUE IS       1.40745 AT (  633850.00,  4176200.00,    29.92,
   29.92,    0.00)  DC
          9TH HIGHEST VALUE IS       1.37087 AT (  634325.00,  4175900.00,    31.69,
   31.69,    0.00)  DC
         10TH HIGHEST VALUE IS       1.32358 AT (  634375.00,  4175800.00,    31.87,
   31.87,    0.00)  DC

OFFSITE1  1ST HIGHEST VALUE IS       1.05017 AT (  633650.00,  4176200.00,    31.94,
   31.94,    0.00)  DC
          2ND HIGHEST VALUE IS       0.98321 AT (  633700.00,  4176200.00,    31.32,
   31.32,    0.00)  DC
          3RD HIGHEST VALUE IS       0.84395 AT (  631150.00,  4175750.00,    55.52,
   55.52,    0.00)  DC
          4TH HIGHEST VALUE IS       0.81969 AT (  633850.00,  4176200.00,    29.92,
   29.92,    0.00)  DC
          5TH HIGHEST VALUE IS       0.79383 AT (  631250.00,  4175700.00,    56.28,
   56.28,    0.00)  DC
          6TH HIGHEST VALUE IS       0.77206 AT (  633750.00,  4176300.00,    30.39,
   30.39,    0.00)  DC
          7TH HIGHEST VALUE IS       0.76058 AT (  633850.00,  4176250.00,    30.17,
   30.17,    0.00)  DC
          8TH HIGHEST VALUE IS       0.71495 AT (  631100.00,  4175750.00,    55.78,
   55.78,    0.00)  DC
          9TH HIGHEST VALUE IS       0.69984 AT (  631200.00,  4175700.00,    56.45,
   56.45,    0.00)  DC
         10TH HIGHEST VALUE IS       0.68770 AT (  633950.00,  4176250.00,    29.36,
   29.36,    0.00)  DC
 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                          ***       01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                         ***       15:43:26

                                  PAGE 303
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                       *** THE SUMMARY OF MAXIMUM PERIOD ( 43848
HRS) RESULTS ***


                                     ** CONC OF HRA      IN MICROGRAMS/M**3
               **
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GROUP ID	NETWORK AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	GRID-ID
OFFSITE2	1ST HIGHEST VALUE IS	17.98099 AT (631050.00, 4177625.00, 38.90, 38.90, 0.00)	DC	
	2ND HIGHEST VALUE IS	13.47313 AT (631050.00, 4178050.00, 35.24, 35.24, 0.00)	DC	
	3RD HIGHEST VALUE IS	9.10062 AT (631100.00, 4177725.00, 37.98, 37.98, 0.00)	DC	
	4TH HIGHEST VALUE IS	8.75313 AT (631100.00, 4177825.00, 37.23, 37.23, 0.00)	DC	
	5TH HIGHEST VALUE IS	1.36668 AT (631150.00, 4178250.00, 31.60, 31.60, 0.00)	DC	
	6TH HIGHEST VALUE IS	1.31514 AT (631100.00, 4178275.00, 31.70, 31.70, 0.00)	DC	
	7TH HIGHEST VALUE IS	1.21048 AT (631150.00, 4178275.00, 31.56, 31.56, 0.00)	DC	
	8TH HIGHEST VALUE IS	1.15876 AT (630950.00, 4178325.00, 32.63, 32.63, 0.00)	DC	
	9TH HIGHEST VALUE IS	1.13965 AT (631250.00, 4178250.00, 30.71, 30.71, 0.00)	DC	
	10TH HIGHEST VALUE IS	1.11370 AT (631200.00, 4178275.00, 31.07, 31.07, 0.00)	DC	
OFFSITE3	1ST HIGHEST VALUE IS	2.31117 AT (631100.00, 4175750.00, 55.78, 55.78, 0.00)	DC	
	2ND HIGHEST VALUE IS	2.16704 AT (631150.00, 4175750.00, 55.52, 55.52, 0.00)	DC	
	3RD HIGHEST VALUE IS	1.89104 AT (631100.00, 4175700.00, 56.24, 56.24, 0.00)	DC	
	4TH HIGHEST VALUE IS	1.79922 AT (631150.00, 4175700.00, 56.16, 56.16, 0.00)	DC	
	5TH HIGHEST VALUE IS	1.69755 AT (631200.00, 4175700.00, 56.45, 56.45, 0.00)	DC	
	6TH HIGHEST VALUE IS	1.59097 AT (631250.00, 4175700.00, 56.28, 56.28, 0.00)	DC	
	7TH HIGHEST VALUE IS	0.23738 AT (632150.00, 4174950.00, 57.18, 57.18, 0.00)	DC	
	8TH HIGHEST VALUE IS	0.23332 AT (632200.00, 4174950.00, 57.28, 57.28, 0.00)	DC	
	9TH HIGHEST VALUE IS	0.23292 AT (633650.00, 4176200.00, 31.94, 31.94, 0.00)	DC	
	10TH HIGHEST VALUE IS	0.22735 AT (633700.00, 4176200.00, 31.32, 31.32, 0.00)	DC	
OFFSITE4	1ST HIGHEST VALUE IS	0.45894 AT (631050.00, 4177625.00, 38.90,		

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   38.90,    0.00)  DC
          2ND HIGHEST VALUE IS       0.43017 AT (  631100.00,  4177725.00,    37.98,
   37.98,    0.00)  DC
          3RD HIGHEST VALUE IS       0.41464 AT (  631100.00,  4177825.00,    37.23,
   37.23,    0.00)  DC
          4TH HIGHEST VALUE IS       0.38160 AT (  631050.00,  4178050.00,    35.24,
   35.24,    0.00)  DC
          5TH HIGHEST VALUE IS       0.34765 AT (  630650.00,  4178450.00,    33.05,
   33.05,    0.00)  DC
          6TH HIGHEST VALUE IS       0.33674 AT (  630650.00,  4178475.00,    32.65,
   32.65,    0.00)  DC
          7TH HIGHEST VALUE IS       0.33603 AT (  630550.00,  4178525.00,    32.40,
   32.40,    0.00)  DC
          8TH HIGHEST VALUE IS       0.32669 AT (  630950.00,  4178325.00,    32.63,
   32.63,    0.00)  DC
          9TH HIGHEST VALUE IS       0.32588 AT (  630600.00,  4178525.00,    32.26,
   32.26,    0.00)  DC
         10TH HIGHEST VALUE IS       0.32503 AT (  630550.00,  4178550.00,    32.13,
   32.13,    0.00)  DC

OFFSITE5  1ST HIGHEST VALUE IS       0.70235 AT (  631100.00,  4175750.00,    55.78,
   55.78,    0.00)  DC
          2ND HIGHEST VALUE IS       0.67741 AT (  631100.00,  4175700.00,    56.24,
   56.24,    0.00)  DC
          3RD HIGHEST VALUE IS       0.67315 AT (  631150.00,  4175750.00,    55.52,
   55.52,    0.00)  DC
          4TH HIGHEST VALUE IS       0.65035 AT (  631150.00,  4175700.00,    56.16,
   56.16,    0.00)  DC
          5TH HIGHEST VALUE IS       0.62523 AT (  631200.00,  4175700.00,    56.45,
   56.45,    0.00)  DC
          6TH HIGHEST VALUE IS       0.60127 AT (  631250.00,  4175700.00,    56.28,
   56.28,    0.00)  DC
          7TH HIGHEST VALUE IS       0.18594 AT (  632150.00,  4174950.00,    57.18,
   57.18,    0.00)  DC
          8TH HIGHEST VALUE IS       0.18369 AT (  632200.00,  4174950.00,    57.28,
   57.28,    0.00)  DC
          9TH HIGHEST VALUE IS       0.16023 AT (  633650.00,  4176200.00,    31.94,
   31.94,    0.00)  DC
         10TH HIGHEST VALUE IS       0.15756 AT (  633700.00,  4176200.00,    31.32,
   31.32,    0.00)  DC
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*** THE SUMMARY OF MAXIMUM PERIOD (43848 HRS) RESULTS ***

** CONC OF HRA IN MICROGRAMS/M**3 **

GROUP ID	NETWORK AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	GRID-ID
ONSITE	1ST HIGHEST VALUE IS	1.71054 AT (633650.00, 4176200.00, 31.94, 31.94, 0.00)	DC	
	2ND HIGHEST VALUE IS	1.59945 AT (633700.00, 4176200.00, 31.32, 31.32, 0.00)	DC	
	3RD HIGHEST VALUE IS	1.39804 AT (634225.00, 4175850.00, 31.44, 31.44, 0.00)	DC	
	4TH HIGHEST VALUE IS	1.37132 AT (634225.00, 4175900.00, 31.16, 31.16, 0.00)	DC	
	5TH HIGHEST VALUE IS	1.33237 AT (633850.00, 4176200.00, 29.92, 29.92, 0.00)	DC	
	6TH HIGHEST VALUE IS	1.22088 AT (634325.00, 4175800.00, 32.14, 32.14, 0.00)	DC	
	7TH HIGHEST VALUE IS	1.21865 AT (634325.00, 4175850.00, 31.62, 31.62, 0.00)	DC	
	8TH HIGHEST VALUE IS	1.19829 AT (634325.00, 4175900.00, 31.69, 31.69, 0.00)	DC	
	9TH HIGHEST VALUE IS	1.19321 AT (634275.00, 4175650.00, 33.30, 33.30, 0.00)	DC	
	10TH HIGHEST VALUE IS	1.17105 AT (633850.00, 4176250.00, 30.17, 30.17, 0.00)	DC	
PUMP	1ST HIGHEST VALUE IS	1.32210 AT (633650.00, 4176200.00, 31.94, 31.94, 0.00)	DC	
	2ND HIGHEST VALUE IS	1.31982 AT (633700.00, 4176200.00, 31.32, 31.32, 0.00)	DC	
	3RD HIGHEST VALUE IS	1.19171 AT (633850.00, 4176200.00, 29.92, 29.92, 0.00)	DC	
	4TH HIGHEST VALUE IS	1.06573 AT (633850.00, 4176250.00, 30.17, 30.17, 0.00)	DC	
	5TH HIGHEST VALUE IS	1.04674 AT (634275.00, 4175650.00, 33.30, 33.30, 0.00)	DC	
	6TH HIGHEST VALUE IS	0.99085 AT (634225.00, 4175850.00, 31.44, 31.44, 0.00)	DC	
	7TH HIGHEST VALUE IS	0.98239 AT (634325.00, 4175550.00, 34.07, 34.07, 0.00)	DC	
	8TH HIGHEST VALUE IS	0.97933 AT (633950.00, 4176250.00, 29.36, 29.36, 0.00)	DC	
	9TH HIGHEST VALUE IS	0.97610 AT (634325.00, 4175650.00, 33.07,		

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   33.07,    0.00)  DC
         10TH HIGHEST VALUE IS       0.95442 AT (  634225.00,  4175900.00,    31.16,
   31.16,    0.00)  DC

YARD       1ST HIGHEST VALUE IS       1.52063 AT (  633650.00,  4176200.00,    31.94,
   31.94,    0.00)  DC
          2ND HIGHEST VALUE IS       1.42844 AT (  633700.00,  4176200.00,    31.32,
   31.32,    0.00)  DC
          3RD HIGHEST VALUE IS       1.39198 AT (  634225.00,  4175850.00,    31.44,
   31.44,    0.00)  DC
          4TH HIGHEST VALUE IS       1.34982 AT (  634225.00,  4175900.00,    31.16,
   31.16,    0.00)  DC
          5TH HIGHEST VALUE IS       1.22764 AT (  634275.00,  4175650.00,    33.30,
   33.30,    0.00)  DC
          6TH HIGHEST VALUE IS       1.22706 AT (  634325.00,  4175800.00,    32.14,
   32.14,    0.00)  DC
          7TH HIGHEST VALUE IS       1.21346 AT (  634325.00,  4175850.00,    31.62,
   31.62,    0.00)  DC
          8TH HIGHEST VALUE IS       1.20981 AT (  633850.00,  4176200.00,    29.92,
   29.92,    0.00)  DC
          9TH HIGHEST VALUE IS       1.18152 AT (  634325.00,  4175900.00,    31.69,
   31.69,    0.00)  DC
         10TH HIGHEST VALUE IS       1.15251 AT (  634325.00,  4175650.00,    33.07,
   33.07,    0.00)  DC

TANK       1ST HIGHEST VALUE IS       1.16641 AT (  634275.00,  4175650.00,    33.30,
   33.30,    0.00)  DC
          2ND HIGHEST VALUE IS       1.11499 AT (  634325.00,  4175550.00,    34.07,
   34.07,    0.00)  DC
          3RD HIGHEST VALUE IS       1.09026 AT (  634225.00,  4175850.00,    31.44,
   31.44,    0.00)  DC
          4TH HIGHEST VALUE IS       1.07943 AT (  634325.00,  4175650.00,    33.07,
   33.07,    0.00)  DC
          5TH HIGHEST VALUE IS       1.04829 AT (  634225.00,  4175900.00,    31.16,
   31.16,    0.00)  DC
          6TH HIGHEST VALUE IS       1.04540 AT (  633650.00,  4176200.00,    31.94,
   31.94,    0.00)  DC
          7TH HIGHEST VALUE IS       1.00216 AT (  633700.00,  4176200.00,    31.32,
   31.32,    0.00)  DC
          8TH HIGHEST VALUE IS       0.99319 AT (  634325.00,  4175800.00,    32.14,
   32.14,    0.00)  DC
          9TH HIGHEST VALUE IS       0.98925 AT (  634325.00,  4175450.00,    34.93,
   34.93,    0.00)  DC
         10TH HIGHEST VALUE IS       0.97313 AT (  634325.00,  4175850.00,    31.62,
   31.62,    0.00)  DC
↟ *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                           ***       01/07/21
 *** AERMET - VERSION  18081 ***   *** Operational HRA - DPM
                           ***      15:43:26
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*** THE SUMMARY OF MAXIMUM PERIOD (43848 HRS) RESULTS ***

** CONC OF HRA IN MICROGRAMS/M**3 **

GROUP ID	NETWORK AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	GRID-ID
FORK	1ST HIGHEST VALUE IS	1.48079 AT (633650.00, 4176200.00, 31.94, 31.94, 0.00)	DC	
	2ND HIGHEST VALUE IS	1.42000 AT (634225.00, 4175850.00, 31.44, 31.44, 0.00)	DC	
	3RD HIGHEST VALUE IS	1.38900 AT (633700.00, 4176200.00, 31.32, 31.32, 0.00)	DC	
	4TH HIGHEST VALUE IS	1.37215 AT (634225.00, 4175900.00, 31.16, 31.16, 0.00)	DC	
	5TH HIGHEST VALUE IS	1.25370 AT (634325.00, 4175800.00, 32.14, 32.14, 0.00)	DC	
	6TH HIGHEST VALUE IS	1.24517 AT (634275.00, 4175650.00, 33.30, 33.30, 0.00)	DC	
	7TH HIGHEST VALUE IS	1.23820 AT (634325.00, 4175850.00, 31.62, 31.62, 0.00)	DC	
	8TH HIGHEST VALUE IS	1.20172 AT (634325.00, 4175900.00, 31.69, 31.69, 0.00)	DC	
	9TH HIGHEST VALUE IS	1.17769 AT (633850.00, 4176200.00, 29.92, 29.92, 0.00)	DC	
	10TH HIGHEST VALUE IS	1.17447 AT (634375.00, 4175800.00, 31.87, 31.87, 0.00)	DC	

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR

*** THE SUMMARY OF HIGHEST 1-HR RESULTS ***

** CONC OF HRA IN MICROGRAMS/M**3 **

GROUP ID	AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	NETWORK OF TYPE	GRID-ID
IDLING1 HIGH 1ST HIGH VALUE IS	140.39269	ON 04121104:	AT (633650.00, 4176200.00, 31.94, 31.94, 0.00)	DC	
IDLING2 HIGH 1ST HIGH VALUE IS	139.84831	ON 08021808:	AT (633650.00, 4176200.00, 31.94, 31.94, 0.00)	DC	
IDLING3 HIGH 1ST HIGH VALUE IS	195.84013	ON 08121003:	AT (633650.00, 4176200.00, 31.94, 31.94, 0.00)	DC	
OFFSITE1 HIGH 1ST HIGH VALUE IS	87.13054	ON 06020109:	AT (631250.00, 4175700.00, 56.28, 56.28, 0.00)	DC	
OFFSITE2 HIGH 1ST HIGH VALUE IS	209.65378	ON 05122220:	AT (631050.00, 4177625.00, 38.90, 38.90, 0.00)	DC	
OFFSITE3 HIGH 1ST HIGH VALUE IS	62.22563	ON 07010217:	AT (631100.00, 4175750.00, 55.78, 55.78, 0.00)	DC	
OFFSITE4 HIGH 1ST HIGH VALUE IS	56.12565	ON 05122403:	AT (629400.00, 4179050.00, 37.93, 37.93, 0.00)	DC	
OFFSITE5 HIGH 1ST HIGH VALUE IS	67.37004	ON 07091007:	AT (630250.00, 4179150.00, 29.14, 29.14, 0.00)	DC	
ONSITE HIGH 1ST HIGH VALUE IS	145.81336	ON 08120919:	AT (633650.00, 4176200.00, 31.94, 31.94, 0.00)	DC	
PUMP HIGH 1ST HIGH VALUE IS	177.27206	ON 07071002:	AT (633650.00, 4176200.00, 31.94, 31.94, 0.00)	DC	
YARD HIGH 1ST HIGH VALUE IS	158.57612	ON 08021808:	AT (633650.00, 4176200.00, 31.94, 31.94, 0.00)	DC	
TANK HIGH 1ST HIGH VALUE IS	324.31774	ON 04012317:	AT (632150.00, 4174950.00, 57.18, 57.18, 0.00)	DC	

FORK   HIGH   1ST HIGH VALUE IS   169.95051 ON 08021808: AT (633650.00,
4176200.00,   31.94,   31.94,   0.00) DC

 *** RECEPTOR TYPES: GC = GRIDCART
                      GP = GRIDPOLR
                      DC = DISCCART
                      DP = DISCPOLR
 *** AERMOD - VERSION 16216r ***   *** Schulte Warehouse
                          ***   01/07/21
 *** AERMET - VERSION 18081 ***   *** Operational HRA - DPM
                          ***   15:43:26

                                   PAGE 307
 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

 *** Message Summary : AERMOD Model Execution ***

  --------- Summary of Total Messages --------

 A Total of   0 Fatal Error Message(s)
 A Total of   2 Warning Message(s)
 A Total of   375 Informational Message(s)

 A Total of   43848 Hours Were Processed

 A Total of   375 Calm Hours Identified

 A Total of   0 Missing Hours Identified (0.00 Percent)

    ******** FATAL ERROR MESSAGES ********
               *** NONE ***

    ********   WARNING MESSAGES   ********
 SO W320   3695   PPARM: Input Parameter May Be Out-of-Range for Parameter
       VS
 ME W187   4084   MEOPEN: ADJ_U* Option for Low Winds used in AERMET

    ****
    *** AERMOD Finishes Successfully ***
    ****

*HARP - HRACalc v19044 1/12/2021 10:04:49 AM - Cancer Risk - Input File: C:\Users\swang\Desktop\SchulteOpUnmit\hra\70yrCancerUnmitHRAInput.hra

REC	GRP	NETID	X	Y	RISK_SUM	SCENARIO	INH_RISK	SOIL_RISK	DERMAL_R	MMILK_RIS	WATER_RI	FISH_RISK	CROP_RISK	BEEF_RISK	DAIRY_RISI	PIG_RISK	CHICKEN_R	EGG_RISK
1	ALL		631050	4178050	3.84E-06	70YrCancer	3.84E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2	ALL		631150	4178250	4.13E-06	70YrCancer	4.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3	ALL		631250	4178250	4.05E-06	70YrCancer	4.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4	ALL		631350	4178250	4.15E-06	70YrCancer	4.15E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5	ALL		631450	4178250	4.23E-06	70YrCancer	4.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6	ALL		631550	4178250	4.32E-06	70YrCancer	4.32E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7	ALL		631650	4178250	4.92E-06	70YrCancer	4.92E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8	ALL		631750	4178250	5.16E-06	70YrCancer	5.16E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9	ALL		631150	4178350	3.94E-06	70YrCancer	3.94E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
10	ALL		631450	4178350	4.07E-06	70YrCancer	4.07E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
11	ALL		631550	4178350	4.38E-06	70YrCancer	4.38E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
12	ALL		631650	4178350	4.88E-06	70YrCancer	4.88E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
13	ALL		631750	4178350	4.93E-06	70YrCancer	4.93E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
14	ALL		630650	4178450	3.08E-06	70YrCancer	3.08E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
15	ALL		630850	4178450	3.42E-06	70YrCancer	3.42E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
16	ALL		631050	4178450	3.86E-06	70YrCancer	3.86E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
17	ALL		631150	4178450	3.68E-06	70YrCancer	3.68E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
18	ALL		631250	4178450	3.75E-06	70YrCancer	3.75E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
19	ALL		631550	4178450	4.48E-06	70YrCancer	4.48E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
20	ALL		631650	4178450	4.65E-06	70YrCancer	4.65E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
21	ALL		631750	4178450	4.71E-06	70YrCancer	4.71E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
22	ALL		631850	4178450	4.82E-06	70YrCancer	4.82E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
23	ALL		631950	4178450	4.90E-06	70YrCancer	4.90E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
24	ALL		632050	4178450	4.88E-06	70YrCancer	4.88E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
25	ALL		632150	4178450	5.03E-06	70YrCancer	5.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
26	ALL		630550	4178550	2.93E-06	70YrCancer	2.93E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
27	ALL		630650	4178550	3.00E-06	70YrCancer	3.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
28	ALL		630750	4178550	3.23E-06	70YrCancer	3.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
29	ALL		630950	4178550	3.75E-06	70YrCancer	3.75E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
30	ALL		631050	4178550	3.52E-06	70YrCancer	3.52E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
31	ALL		631250	4178550	3.59E-06	70YrCancer	3.59E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
32	ALL		631350	4178550	3.67E-06	70YrCancer	3.67E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
33	ALL		631450	4178550	4.06E-06	70YrCancer	4.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
34	ALL		631550	4178550	4.40E-06	70YrCancer	4.40E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
35	ALL		631650	4178550	4.43E-06	70YrCancer	4.43E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
36	ALL		631750	4178550	4.54E-06	70YrCancer	4.54E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
37	ALL		631850	4178550	4.51E-06	70YrCancer	4.51E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
38	ALL		631950	4178550	4.67E-06	70YrCancer	4.67E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
39	ALL		632050	4178550	4.53E-06	70YrCancer	4.53E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
40	ALL		632150	4178550	4.79E-06	70YrCancer	4.79E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
41	ALL		630450	4178650	2.79E-06	70YrCancer	2.79E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
42	ALL		630550	4178650	2.81E-06	70YrCancer	2.81E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
43	ALL		630650	4178650	3.05E-06	70YrCancer	3.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
44	ALL		630750	4178650	3.42E-06	70YrCancer	3.42E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
45	ALL		630850	4178650	3.64E-06	70YrCancer	3.64E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
46	ALL		630950	4178650	3.50E-06	70YrCancer	3.50E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
47	ALL		631050	4178650	3.34E-06	70YrCancer	3.34E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

48	ALL	631150	4178650	3.35E-06	70YrCancer	3.35E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
49	ALL	631250	4178650	3.48E-06	70YrCancer	3.48E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
50	ALL	631350	4178650	3.60E-06	70YrCancer	3.60E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
51	ALL	631450	4178650	4.10E-06	70YrCancer	4.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
52	ALL	631550	4178650	4.22E-06	70YrCancer	4.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
53	ALL	631650	4178650	4.27E-06	70YrCancer	4.27E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
54	ALL	631750	4178650	4.36E-06	70YrCancer	4.36E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
55	ALL	631850	4178650	4.43E-06	70YrCancer	4.43E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
56	ALL	631950	4178650	4.45E-06	70YrCancer	4.45E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
57	ALL	632050	4178650	4.48E-06	70YrCancer	4.48E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
58	ALL	632150	4178650	4.51E-06	70YrCancer	4.51E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
59	ALL	630350	4178750	2.67E-06	70YrCancer	2.67E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
60	ALL	630450	4178750	2.63E-06	70YrCancer	2.63E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
61	ALL	630550	4178750	2.88E-06	70YrCancer	2.88E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
62	ALL	630650	4178750	3.24E-06	70YrCancer	3.24E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
63	ALL	630750	4178750	3.52E-06	70YrCancer	3.52E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
64	ALL	630850	4178750	3.47E-06	70YrCancer	3.47E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
65	ALL	630950	4178750	3.17E-06	70YrCancer	3.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
66	ALL	631050	4178750	3.22E-06	70YrCancer	3.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
67	ALL	631150	4178750	3.30E-06	70YrCancer	3.30E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
68	ALL	631250	4178750	3.34E-06	70YrCancer	3.34E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
69	ALL	631350	4178750	3.75E-06	70YrCancer	3.75E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
70	ALL	631450	4178750	4.00E-06	70YrCancer	4.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
71	ALL	631550	4178750	4.02E-06	70YrCancer	4.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
72	ALL	631650	4178750	4.13E-06	70YrCancer	4.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
73	ALL	631750	4178750	4.12E-06	70YrCancer	4.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL	631850	4178750	4.23E-06	70YrCancer	4.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
75	ALL	631950	4178750	4.16E-06	70YrCancer	4.16E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
76	ALL	632050	4178750	4.35E-06	70YrCancer	4.35E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
77	ALL	632150	4178750	4.39E-06	70YrCancer	4.39E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
78	ALL	630250	4178850	2.57E-06	70YrCancer	2.57E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
79	ALL	630350	4178850	2.50E-06	70YrCancer	2.50E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
80	ALL	630450	4178850	2.72E-06	70YrCancer	2.72E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
81	ALL	630550	4178850	3.08E-06	70YrCancer	3.08E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
82	ALL	630650	4178850	3.39E-06	70YrCancer	3.39E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
83	ALL	630750	4178850	3.42E-06	70YrCancer	3.42E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
84	ALL	630850	4178850	3.11E-06	70YrCancer	3.11E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
85	ALL	630950	4178850	3.07E-06	70YrCancer	3.07E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
86	ALL	631050	4178850	3.10E-06	70YrCancer	3.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
87	ALL	631150	4178850	3.16E-06	70YrCancer	3.16E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
88	ALL	631250	4178850	3.37E-06	70YrCancer	3.37E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
89	ALL	631350	4178850	3.77E-06	70YrCancer	3.77E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
90	ALL	631450	4178850	3.85E-06	70YrCancer	3.85E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
91	ALL	631550	4178850	3.88E-06	70YrCancer	3.88E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
92	ALL	631650	4178850	3.98E-06	70YrCancer	3.98E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
93	ALL	631750	4178850	4.01E-06	70YrCancer	4.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
94	ALL	631850	4178850	4.07E-06	70YrCancer	4.07E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
95	ALL	631950	4178850	3.98E-06	70YrCancer	3.98E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
96	ALL	632050	4178850	4.16E-06	70YrCancer	4.16E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

97	ALL	632150	4178850	4.23E-06	70YrCancer	4.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
98	ALL	630250	4178950	2.44E-06	70YrCancer	2.44E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
99	ALL	630350	4178950	2.58E-06	70YrCancer	2.58E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
100	ALL	630450	4178950	2.91E-06	70YrCancer	2.91E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
101	ALL	630550	4178950	3.27E-06	70YrCancer	3.27E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
102	ALL	630650	4178950	3.35E-06	70YrCancer	3.35E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
103	ALL	630750	4178950	3.12E-06	70YrCancer	3.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
104	ALL	630850	4178950	2.91E-06	70YrCancer	2.91E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
105	ALL	630950	4178950	2.90E-06	70YrCancer	2.90E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
106	ALL	631050	4178950	3.02E-06	70YrCancer	3.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
107	ALL	631150	4178950	3.04E-06	70YrCancer	3.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
108	ALL	631250	4178950	3.48E-06	70YrCancer	3.48E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
109	ALL	631350	4178950	3.65E-06	70YrCancer	3.65E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
110	ALL	631450	4178950	3.66E-06	70YrCancer	3.66E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
111	ALL	631550	4178950	3.77E-06	70YrCancer	3.77E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
112	ALL	631650	4178950	3.78E-06	70YrCancer	3.78E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
113	ALL	631750	4178950	3.87E-06	70YrCancer	3.87E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
114	ALL	631850	4178950	3.85E-06	70YrCancer	3.85E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
115	ALL	631950	4178950	3.93E-06	70YrCancer	3.93E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
116	ALL	632050	4178950	3.92E-06	70YrCancer	3.92E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
117	ALL	632150	4178950	4.05E-06	70YrCancer	4.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
118	ALL	629950	4179050	2.36E-06	70YrCancer	2.36E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
119	ALL	630250	4179050	2.44E-06	70YrCancer	2.44E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
120	ALL	630350	4179050	2.76E-06	70YrCancer	2.76E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
121	ALL	630450	4179050	3.14E-06	70YrCancer	3.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
122	ALL	630550	4179050	3.28E-06	70YrCancer	3.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
123	ALL	630650	4179050	3.12E-06	70YrCancer	3.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
124	ALL	630750	4179050	2.76E-06	70YrCancer	2.76E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
125	ALL	630850	4179050	2.80E-06	70YrCancer	2.80E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
126	ALL	630950	4179050	2.88E-06	70YrCancer	2.88E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
127	ALL	631050	4179050	2.91E-06	70YrCancer	2.91E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
128	ALL	631150	4179050	3.16E-06	70YrCancer	3.16E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
129	ALL	631250	4179050	3.47E-06	70YrCancer	3.47E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
130	ALL	631350	4179050	3.53E-06	70YrCancer	3.53E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
131	ALL	631450	4179050	3.56E-06	70YrCancer	3.56E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
132	ALL	631550	4179050	3.63E-06	70YrCancer	3.63E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
133	ALL	631650	4179050	3.64E-06	70YrCancer	3.64E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
134	ALL	631750	4179050	3.72E-06	70YrCancer	3.72E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
135	ALL	631850	4179050	3.58E-06	70YrCancer	3.58E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
136	ALL	631950	4179050	3.82E-06	70YrCancer	3.82E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
137	ALL	632050	4179050	3.84E-06	70YrCancer	3.84E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
138	ALL	632150	4179050	3.90E-06	70YrCancer	3.90E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
139	ALL	629850	4179150	2.28E-06	70YrCancer	2.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
140	ALL	629950	4179150	2.37E-06	70YrCancer	2.37E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
141	ALL	630150	4179150	2.31E-06	70YrCancer	2.31E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
142	ALL	630250	4179150	2.61E-06	70YrCancer	2.61E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
143	ALL	630350	4179150	3.00E-06	70YrCancer	3.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
144	ALL	630450	4179150	3.19E-06	70YrCancer	3.19E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
145	ALL	630550	4179150	3.11E-06	70YrCancer	3.11E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

146	ALL	630650	4179150	2.77E-06	70YrCancer	2.77E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
147	ALL	630750	4179150	2.69E-06	70YrCancer	2.69E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
148	ALL	630850	4179150	2.71E-06	70YrCancer	2.71E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
149	ALL	630950	4179150	2.76E-06	70YrCancer	2.76E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
150	ALL	631050	4179150	2.84E-06	70YrCancer	2.84E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
151	ALL	631150	4179150	3.24E-06	70YrCancer	3.24E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
152	ALL	631250	4179150	3.35E-06	70YrCancer	3.35E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
153	ALL	631350	4179150	3.35E-06	70YrCancer	3.35E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
154	ALL	631450	4179150	3.46E-06	70YrCancer	3.46E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
155	ALL	631550	4179150	3.48E-06	70YrCancer	3.48E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
156	ALL	631650	4179150	3.55E-06	70YrCancer	3.55E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
157	ALL	631750	4179150	3.57E-06	70YrCancer	3.57E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
158	ALL	631850	4179150	3.53E-06	70YrCancer	3.53E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
159	ALL	631950	4179150	3.64E-06	70YrCancer	3.64E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
160	ALL	632050	4179150	3.72E-06	70YrCancer	3.72E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
161	ALL	632150	4179150	3.81E-06	70YrCancer	3.81E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
162	ALL	630850	4179250	2.66E-06	70YrCancer	2.66E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
163	ALL	630950	4179250	2.67E-06	70YrCancer	2.67E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
164	ALL	631050	4177625	4.77E-06	70YrCancer	4.77E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
165	ALL	631100	4177725	4.70E-06	70YrCancer	4.70E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
166	ALL	631100	4177825	4.53E-06	70YrCancer	4.53E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
167	ALL	631350	4178225	4.18E-06	70YrCancer	4.18E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
168	ALL	631400	4178225	4.24E-06	70YrCancer	4.24E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
169	ALL	631450	4178225	4.24E-06	70YrCancer	4.24E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
170	ALL	631500	4178225	4.35E-06	70YrCancer	4.35E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
171	ALL	631100	4178275	4.03E-06	70YrCancer	4.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
172	ALL	631150	4178275	4.11E-06	70YrCancer	4.11E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
173	ALL	631200	4178275	4.05E-06	70YrCancer	4.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
174	ALL	631250	4178275	4.00E-06	70YrCancer	4.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
175	ALL	631300	4178275	4.06E-06	70YrCancer	4.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
176	ALL	631350	4178275	4.12E-06	70YrCancer	4.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
177	ALL	631400	4178275	4.10E-06	70YrCancer	4.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
178	ALL	631450	4178275	4.21E-06	70YrCancer	4.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
179	ALL	631500	4178275	4.24E-06	70YrCancer	4.24E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
180	ALL	630950	4178325	3.66E-06	70YrCancer	3.66E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
181	ALL	631100	4178325	4.04E-06	70YrCancer	4.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
182	ALL	631150	4178325	4.01E-06	70YrCancer	4.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
183	ALL	631200	4178325	3.88E-06	70YrCancer	3.88E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
184	ALL	631250	4178325	3.95E-06	70YrCancer	3.95E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
185	ALL	631300	4178325	3.99E-06	70YrCancer	3.99E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
186	ALL	631400	4178325	4.05E-06	70YrCancer	4.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
187	ALL	631450	4178325	4.13E-06	70YrCancer	4.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
188	ALL	631500	4178325	4.14E-06	70YrCancer	4.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
189	ALL	630950	4178375	3.63E-06	70YrCancer	3.63E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
190	ALL	631200	4178375	3.83E-06	70YrCancer	3.83E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
191	ALL	631300	4178375	3.90E-06	70YrCancer	3.90E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
192	ALL	631400	4178375	4.00E-06	70YrCancer	4.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
193	ALL	631450	4178375	4.01E-06	70YrCancer	4.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
194	ALL	631500	4178375	4.04E-06	70YrCancer	4.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

195	ALL	630800	4178425	3.33E-06	70YrCancer	3.33E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
196	ALL	630850	4178425	3.44E-06	70YrCancer	3.44E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
197	ALL	631050	4178425	3.91E-06	70YrCancer	3.91E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
198	ALL	631200	4178425	3.74E-06	70YrCancer	3.74E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
199	ALL	631250	4178425	3.79E-06	70YrCancer	3.79E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
200	ALL	631300	4178425	3.77E-06	70YrCancer	3.77E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
201	ALL	630650	4178475	2.99E-06	70YrCancer	2.99E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
202	ALL	630800	4178475	3.34E-06	70YrCancer	3.34E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
203	ALL	630850	4178475	3.41E-06	70YrCancer	3.41E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
204	ALL	631050	4178475	3.79E-06	70YrCancer	3.79E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
205	ALL	631200	4178475	3.68E-06	70YrCancer	3.68E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
206	ALL	631250	4178475	3.69E-06	70YrCancer	3.69E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
207	ALL	631300	4178475	3.74E-06	70YrCancer	3.74E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
208	ALL	631450	4178475	3.91E-06	70YrCancer	3.91E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
209	ALL	631500	4178475	4.25E-06	70YrCancer	4.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
210	ALL	630550	4178525	3.00E-06	70YrCancer	3.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
211	ALL	630600	4178525	2.92E-06	70YrCancer	2.92E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
212	ALL	630650	4178525	2.96E-06	70YrCancer	2.96E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
213	ALL	630700	4178525	3.12E-06	70YrCancer	3.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
214	ALL	630750	4178525	3.24E-06	70YrCancer	3.24E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
215	ALL	630950	4178525	3.78E-06	70YrCancer	3.78E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
216	ALL	631050	4178525	3.62E-06	70YrCancer	3.62E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
217	ALL	631200	4178525	3.60E-06	70YrCancer	3.60E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
218	ALL	631250	4178525	3.60E-06	70YrCancer	3.60E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
219	ALL	631300	4178525	3.69E-06	70YrCancer	3.69E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
220	ALL	631350	4178525	3.70E-06	70YrCancer	3.70E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
221	ALL	631400	4178525	3.73E-06	70YrCancer	3.73E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
222	ALL	631450	4178525	4.02E-06	70YrCancer	4.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
223	ALL	631500	4178525	4.29E-06	70YrCancer	4.29E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
224	ALL	630500	4178575	2.93E-06	70YrCancer	2.93E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
225	ALL	630550	4178575	2.85E-06	70YrCancer	2.85E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
226	ALL	630600	4178575	2.86E-06	70YrCancer	2.86E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
227	ALL	630650	4178575	3.02E-06	70YrCancer	3.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
228	ALL	630700	4178575	3.14E-06	70YrCancer	3.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
229	ALL	630750	4178575	3.21E-06	70YrCancer	3.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
230	ALL	630800	4178575	3.45E-06	70YrCancer	3.45E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
231	ALL	630850	4178575	3.63E-06	70YrCancer	3.63E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
232	ALL	631000	4178575	3.61E-06	70YrCancer	3.61E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
233	ALL	631050	4178575	3.44E-06	70YrCancer	3.44E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
234	ALL	631200	4178575	3.48E-06	70YrCancer	3.48E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
235	ALL	631250	4178575	3.58E-06	70YrCancer	3.58E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
236	ALL	631300	4178575	3.61E-06	70YrCancer	3.61E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
237	ALL	631350	4178575	3.63E-06	70YrCancer	3.63E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
238	ALL	631400	4178575	3.78E-06	70YrCancer	3.78E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
239	ALL	631450	4178575	4.08E-06	70YrCancer	4.08E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
240	ALL	631500	4178575	4.28E-06	70YrCancer	4.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
241	ALL	630500	4178625	2.79E-06	70YrCancer	2.79E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
242	ALL	630550	4178625	2.77E-06	70YrCancer	2.77E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
243	ALL	630600	4178625	2.93E-06	70YrCancer	2.93E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

244	ALL	630650	4178625	3.05E-06	70YrCancer	3.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
245	ALL	630700	4178625	3.12E-06	70YrCancer	3.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
246	ALL	630750	4178625	3.36E-06	70YrCancer	3.36E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
247	ALL	630800	4178625	3.55E-06	70YrCancer	3.55E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
248	ALL	630850	4178625	3.66E-06	70YrCancer	3.66E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
249	ALL	631000	4178625	3.41E-06	70YrCancer	3.41E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
250	ALL	631050	4178625	3.37E-06	70YrCancer	3.37E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
251	ALL	631100	4178625	3.42E-06	70YrCancer	3.42E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
252	ALL	631150	4178625	3.41E-06	70YrCancer	3.41E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
253	ALL	631200	4178625	3.46E-06	70YrCancer	3.46E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
254	ALL	631250	4178625	3.52E-06	70YrCancer	3.52E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
255	ALL	631300	4178625	3.53E-06	70YrCancer	3.53E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
256	ALL	631350	4178625	3.54E-06	70YrCancer	3.54E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
257	ALL	631400	4178625	3.87E-06	70YrCancer	3.87E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
258	ALL	631450	4178625	4.11E-06	70YrCancer	4.11E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
259	ALL	631500	4178625	4.23E-06	70YrCancer	4.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
260	ALL	631100	4175700	1.36E-05	70YrCancer	1.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
261	ALL	631150	4175700	1.40E-05	70YrCancer	1.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
262	ALL	631200	4175700	1.44E-05	70YrCancer	1.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
263	ALL	631250	4175700	1.48E-05	70YrCancer	1.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
264	ALL	631100	4175750	1.30E-05	70YrCancer	1.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
265	ALL	631150	4175750	1.35E-05	70YrCancer	1.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
266	ALL	629400	4179050	2.06E-06	70YrCancer	2.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
267	ALL	629450	4179050	2.10E-06	70YrCancer	2.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
268	ALL	629500	4179050	2.13E-06	70YrCancer	2.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
269	ALL	629400	4179100	2.06E-06	70YrCancer	2.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
270	ALL	629450	4179100	2.08E-06	70YrCancer	2.08E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
271	ALL	629400	4179150	2.04E-06	70YrCancer	2.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
272	ALL	629500	4179150	2.04E-06	70YrCancer	2.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
273	ALL	629550	4179150	2.10E-06	70YrCancer	2.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
274	ALL	629600	4179150	2.14E-06	70YrCancer	2.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
275	ALL	629650	4179150	2.15E-06	70YrCancer	2.15E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
276	ALL	629700	4179150	2.18E-06	70YrCancer	2.18E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
277	ALL	629800	4179200	2.25E-06	70YrCancer	2.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
278	ALL	629400	4179300	1.97E-06	70YrCancer	1.97E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
279	ALL	629400	4179350	1.97E-06	70YrCancer	1.97E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
280	ALL	634375	4175350	1.46E-05	70YrCancer	1.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
281	ALL	634425	4175350	1.41E-05	70YrCancer	1.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
282	ALL	635425	4175350	9.26E-06	70YrCancer	9.26E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
283	ALL	635425	4175400	8.30E-06	70YrCancer	8.30E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
284	ALL	635475	4175400	7.93E-06	70YrCancer	7.93E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
285	ALL	634325	4175450	1.74E-05	70YrCancer	1.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
286	ALL	634475	4175450	1.65E-05	70YrCancer	1.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
287	ALL	634525	4175450	1.61E-05	70YrCancer	1.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
288	ALL	634525	4175500	1.59E-05	70YrCancer	1.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
289	ALL	634325	4175550	1.83E-05	70YrCancer	1.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
290	ALL	634525	4175550	1.46E-05	70YrCancer	1.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
291	ALL	634575	4175550	1.39E-05	70YrCancer	1.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
292	ALL	634775	4175550	1.17E-05	70YrCancer	1.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

293	ALL	634825	4175550	1.13E-05	70YrCancer	1.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
294	ALL	634625	4175600	1.34E-05	70YrCancer	1.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
295	ALL	634675	4175600	1.29E-05	70YrCancer	1.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
296	ALL	634725	4175600	1.24E-05	70YrCancer	1.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
297	ALL	634775	4175600	1.19E-05	70YrCancer	1.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
298	ALL	634825	4175600	1.15E-05	70YrCancer	1.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
299	ALL	634875	4175600	1.10E-05	70YrCancer	1.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
300	ALL	634925	4175600	1.06E-05	70YrCancer	1.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
301	ALL	635375	4175600	7.83E-06	70YrCancer	7.83E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
302	ALL	634275	4175650	1.95E-05	70YrCancer	1.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
303	ALL	634325	4175650	1.85E-05	70YrCancer	1.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
304	ALL	634575	4175650	1.44E-05	70YrCancer	1.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
305	ALL	634625	4175650	1.38E-05	70YrCancer	1.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
306	ALL	634675	4175650	1.32E-05	70YrCancer	1.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
307	ALL	634725	4175650	1.26E-05	70YrCancer	1.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
308	ALL	634775	4175650	1.20E-05	70YrCancer	1.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
309	ALL	634825	4175650	1.16E-05	70YrCancer	1.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
310	ALL	634875	4175650	1.12E-05	70YrCancer	1.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
311	ALL	634925	4175650	1.07E-05	70YrCancer	1.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
312	ALL	634975	4175650	1.03E-05	70YrCancer	1.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
313	ALL	635025	4175650	9.95E-06	70YrCancer	9.95E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
314	ALL	635325	4175650	8.06E-06	70YrCancer	8.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
315	ALL	635375	4175650	7.79E-06	70YrCancer	7.79E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
316	ALL	634475	4175700	1.61E-05	70YrCancer	1.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
317	ALL	634525	4175700	1.53E-05	70YrCancer	1.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
318	ALL	634575	4175700	1.45E-05	70YrCancer	1.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
319	ALL	634625	4175700	1.38E-05	70YrCancer	1.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
320	ALL	634675	4175700	1.32E-05	70YrCancer	1.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
321	ALL	634725	4175700	1.26E-05	70YrCancer	1.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
322	ALL	634775	4175700	1.21E-05	70YrCancer	1.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
323	ALL	634825	4175700	1.16E-05	70YrCancer	1.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
324	ALL	634875	4175700	1.12E-05	70YrCancer	1.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
325	ALL	634925	4175700	1.08E-05	70YrCancer	1.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
326	ALL	634975	4175700	1.04E-05	70YrCancer	1.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
327	ALL	635025	4175700	1.00E-05	70YrCancer	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
328	ALL	635075	4175700	9.67E-06	70YrCancer	9.67E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
329	ALL	635125	4175700	9.34E-06	70YrCancer	9.34E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
330	ALL	634425	4175750	1.71E-05	70YrCancer	1.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
331	ALL	634575	4175750	1.47E-05	70YrCancer	1.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
332	ALL	634625	4175750	1.40E-05	70YrCancer	1.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
333	ALL	634675	4175750	1.33E-05	70YrCancer	1.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
334	ALL	634725	4175750	1.27E-05	70YrCancer	1.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
335	ALL	634775	4175750	1.22E-05	70YrCancer	1.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
336	ALL	634825	4175750	1.17E-05	70YrCancer	1.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
337	ALL	634875	4175750	1.12E-05	70YrCancer	1.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
338	ALL	634925	4175750	1.07E-05	70YrCancer	1.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
339	ALL	634975	4175750	1.03E-05	70YrCancer	1.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
340	ALL	635025	4175750	9.95E-06	70YrCancer	9.95E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
341	ALL	635075	4175750	9.61E-06	70YrCancer	9.61E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

342	ALL	635125	4175750	9.29E-06	70YrCancer	9.29E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
343	ALL	635175	4175750	8.96E-06	70YrCancer	8.96E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
344	ALL	635225	4175750	8.69E-06	70YrCancer	8.69E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
345	ALL	634325	4175800	1.92E-05	70YrCancer	1.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
346	ALL	634375	4175800	1.81E-05	70YrCancer	1.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
347	ALL	634425	4175800	1.71E-05	70YrCancer	1.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
348	ALL	634475	4175800	1.63E-05	70YrCancer	1.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
349	ALL	634525	4175800	1.55E-05	70YrCancer	1.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
350	ALL	634575	4175800	1.47E-05	70YrCancer	1.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
351	ALL	634625	4175800	1.40E-05	70YrCancer	1.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
352	ALL	634675	4175800	1.34E-05	70YrCancer	1.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
353	ALL	634725	4175800	1.28E-05	70YrCancer	1.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
354	ALL	634775	4175800	1.23E-05	70YrCancer	1.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
355	ALL	634825	4175800	1.18E-05	70YrCancer	1.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
356	ALL	634875	4175800	1.13E-05	70YrCancer	1.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
357	ALL	634925	4175800	1.09E-05	70YrCancer	1.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
358	ALL	634975	4175800	1.04E-05	70YrCancer	1.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
359	ALL	635025	4175800	1.01E-05	70YrCancer	1.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
360	ALL	635075	4175800	9.68E-06	70YrCancer	9.68E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
361	ALL	635125	4175800	9.34E-06	70YrCancer	9.34E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
362	ALL	635175	4175800	9.03E-06	70YrCancer	9.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
363	ALL	635225	4175800	8.73E-06	70YrCancer	8.73E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
364	ALL	635275	4175800	8.45E-06	70YrCancer	8.45E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
365	ALL	635325	4175800	8.17E-06	70YrCancer	8.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
366	ALL	634225	4175850	2.09E-05	70YrCancer	2.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
367	ALL	634325	4175850	1.86E-05	70YrCancer	1.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
368	ALL	634375	4175850	1.76E-05	70YrCancer	1.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
369	ALL	634425	4175850	1.67E-05	70YrCancer	1.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
370	ALL	634475	4175850	1.59E-05	70YrCancer	1.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
371	ALL	634525	4175850	1.51E-05	70YrCancer	1.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
372	ALL	634575	4175850	1.44E-05	70YrCancer	1.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
373	ALL	634625	4175850	1.38E-05	70YrCancer	1.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
374	ALL	634675	4175850	1.31E-05	70YrCancer	1.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
375	ALL	634725	4175850	1.25E-05	70YrCancer	1.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
376	ALL	634775	4175850	1.21E-05	70YrCancer	1.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
377	ALL	634825	4175850	1.16E-05	70YrCancer	1.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
378	ALL	634875	4175850	1.11E-05	70YrCancer	1.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
379	ALL	634925	4175850	1.07E-05	70YrCancer	1.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
380	ALL	634975	4175850	1.03E-05	70YrCancer	1.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
381	ALL	635025	4175850	9.88E-06	70YrCancer	9.88E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
382	ALL	635075	4175850	9.54E-06	70YrCancer	9.54E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
383	ALL	635125	4175850	9.21E-06	70YrCancer	9.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
384	ALL	635175	4175850	8.90E-06	70YrCancer	8.90E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
385	ALL	635225	4175850	8.60E-06	70YrCancer	8.60E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
386	ALL	635275	4175850	8.33E-06	70YrCancer	8.33E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
387	ALL	635325	4175850	8.06E-06	70YrCancer	8.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
388	ALL	635375	4175850	7.80E-06	70YrCancer	7.80E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
389	ALL	635425	4175850	7.56E-06	70YrCancer	7.56E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
390	ALL	634225	4175900	2.19E-05	70YrCancer	2.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

391	ALL	634325	4175900	1.94E-05	70YrCancer	1.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
392	ALL	634375	4175900	1.82E-05	70YrCancer	1.82E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
393	ALL	634425	4175900	1.72E-05	70YrCancer	1.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
394	ALL	634475	4175900	1.62E-05	70YrCancer	1.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
395	ALL	634525	4175900	1.54E-05	70YrCancer	1.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
396	ALL	634575	4175900	1.46E-05	70YrCancer	1.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
397	ALL	634625	4175900	1.38E-05	70YrCancer	1.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
398	ALL	634675	4175900	1.32E-05	70YrCancer	1.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
399	ALL	634725	4175900	1.25E-05	70YrCancer	1.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
400	ALL	634775	4175900	1.19E-05	70YrCancer	1.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
401	ALL	634875	4175900	1.08E-05	70YrCancer	1.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
402	ALL	634925	4175900	1.03E-05	70YrCancer	1.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
403	ALL	634975	4175900	9.95E-06	70YrCancer	9.95E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
404	ALL	635025	4175900	9.57E-06	70YrCancer	9.57E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
405	ALL	635075	4175900	9.22E-06	70YrCancer	9.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
406	ALL	635125	4175900	8.88E-06	70YrCancer	8.88E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
407	ALL	635175	4175900	8.57E-06	70YrCancer	8.57E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
408	ALL	635225	4175900	8.27E-06	70YrCancer	8.27E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
409	ALL	635275	4175900	7.98E-06	70YrCancer	7.98E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
410	ALL	635325	4175900	7.73E-06	70YrCancer	7.73E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
411	ALL	635375	4175900	7.45E-06	70YrCancer	7.45E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
412	ALL	635425	4175900	7.21E-06	70YrCancer	7.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
413	ALL	635475	4175900	6.99E-06	70YrCancer	6.99E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
414	ALL	635525	4175900	6.79E-06	70YrCancer	6.79E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
415	ALL	634325	4175950	1.91E-05	70YrCancer	1.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
416	ALL	634375	4175950	1.81E-05	70YrCancer	1.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
417	ALL	634425	4175950	1.72E-05	70YrCancer	1.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
418	ALL	634475	4175950	1.64E-05	70YrCancer	1.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
419	ALL	634525	4175950	1.56E-05	70YrCancer	1.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
420	ALL	634575	4175950	1.49E-05	70YrCancer	1.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
421	ALL	634625	4175950	1.43E-05	70YrCancer	1.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
422	ALL	634675	4175950	1.37E-05	70YrCancer	1.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
423	ALL	634875	4175950	1.15E-05	70YrCancer	1.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
424	ALL	634925	4175950	1.10E-05	70YrCancer	1.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
425	ALL	634975	4175950	1.06E-05	70YrCancer	1.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
426	ALL	635025	4175950	1.01E-05	70YrCancer	1.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
427	ALL	635075	4175950	9.75E-06	70YrCancer	9.75E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
428	ALL	635125	4175950	9.38E-06	70YrCancer	9.38E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
429	ALL	635175	4175950	9.03E-06	70YrCancer	9.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
430	ALL	635225	4175950	8.68E-06	70YrCancer	8.68E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
431	ALL	635275	4175950	8.38E-06	70YrCancer	8.38E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
432	ALL	635325	4175950	8.05E-06	70YrCancer	8.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
433	ALL	635375	4175950	7.77E-06	70YrCancer	7.77E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
434	ALL	635425	4175950	7.50E-06	70YrCancer	7.50E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
435	ALL	635475	4175950	7.23E-06	70YrCancer	7.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
436	ALL	635525	4175950	6.97E-06	70YrCancer	6.97E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
437	ALL	635575	4175950	6.74E-06	70YrCancer	6.74E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
438	ALL	634725	4176000	1.27E-05	70YrCancer	1.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
439	ALL	634925	4176000	1.09E-05	70YrCancer	1.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

440	ALL	634975	4176000	1.05E-05	70YrCancer	1.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
441	ALL	635025	4176000	1.02E-05	70YrCancer	1.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
442	ALL	635075	4176000	9.81E-06	70YrCancer	9.81E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
443	ALL	635125	4176000	9.49E-06	70YrCancer	9.49E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
444	ALL	635175	4176000	9.17E-06	70YrCancer	9.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
445	ALL	635225	4176000	8.87E-06	70YrCancer	8.87E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
446	ALL	635275	4176000	8.60E-06	70YrCancer	8.60E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
447	ALL	635325	4176000	8.30E-06	70YrCancer	8.30E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
448	ALL	635375	4176000	8.04E-06	70YrCancer	8.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
449	ALL	635425	4176000	7.78E-06	70YrCancer	7.78E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
450	ALL	635475	4176000	7.53E-06	70YrCancer	7.53E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
451	ALL	635525	4176000	7.29E-06	70YrCancer	7.29E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
452	ALL	635575	4176000	7.05E-06	70YrCancer	7.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
453	ALL	634825	4176050	1.16E-05	70YrCancer	1.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
454	ALL	634875	4176050	1.12E-05	70YrCancer	1.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
455	ALL	634925	4176050	1.07E-05	70YrCancer	1.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
456	ALL	634975	4176050	1.03E-05	70YrCancer	1.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
457	ALL	635025	4176050	9.85E-06	70YrCancer	9.85E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
458	ALL	635075	4176050	9.51E-06	70YrCancer	9.51E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
459	ALL	635125	4176050	9.22E-06	70YrCancer	9.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
460	ALL	635175	4176050	8.94E-06	70YrCancer	8.94E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
461	ALL	635225	4176050	8.66E-06	70YrCancer	8.66E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
462	ALL	635275	4176050	8.39E-06	70YrCancer	8.39E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
463	ALL	635325	4176050	8.13E-06	70YrCancer	8.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
464	ALL	635375	4176050	7.86E-06	70YrCancer	7.86E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
465	ALL	635425	4176050	7.66E-06	70YrCancer	7.66E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
466	ALL	635475	4176050	7.45E-06	70YrCancer	7.45E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
467	ALL	635525	4176050	7.24E-06	70YrCancer	7.24E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
468	ALL	635575	4176050	7.04E-06	70YrCancer	7.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
469	ALL	634825	4176100	1.14E-05	70YrCancer	1.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
470	ALL	634875	4176100	1.10E-05	70YrCancer	1.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
471	ALL	634925	4176100	1.06E-05	70YrCancer	1.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
472	ALL	634975	4176100	1.02E-05	70YrCancer	1.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
473	ALL	635025	4176100	9.88E-06	70YrCancer	9.88E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
474	ALL	635075	4176100	9.56E-06	70YrCancer	9.56E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
475	ALL	635125	4176100	9.24E-06	70YrCancer	9.24E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
476	ALL	635175	4176100	8.92E-06	70YrCancer	8.92E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
477	ALL	635225	4176100	8.62E-06	70YrCancer	8.62E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
478	ALL	635275	4176100	8.33E-06	70YrCancer	8.33E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
479	ALL	635325	4176100	8.04E-06	70YrCancer	8.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
480	ALL	635375	4176100	7.76E-06	70YrCancer	7.76E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
481	ALL	635425	4176100	7.47E-06	70YrCancer	7.47E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
482	ALL	635475	4176100	7.24E-06	70YrCancer	7.24E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
483	ALL	635525	4176100	7.06E-06	70YrCancer	7.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
484	ALL	635575	4176100	6.88E-06	70YrCancer	6.88E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
485	ALL	634825	4176150	1.12E-05	70YrCancer	1.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
486	ALL	634875	4176150	1.08E-05	70YrCancer	1.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
487	ALL	634925	4176150	1.04E-05	70YrCancer	1.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
488	ALL	634975	4176150	1.00E-05	70YrCancer	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

489	ALL	635025	4176150	9.70E-06	70YrCancer	9.70E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
490	ALL	635075	4176150	9.34E-06	70YrCancer	9.34E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
491	ALL	635125	4176150	9.07E-06	70YrCancer	9.07E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
492	ALL	635175	4176150	8.78E-06	70YrCancer	8.78E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
493	ALL	635225	4176150	8.49E-06	70YrCancer	8.49E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
494	ALL	635275	4176150	8.23E-06	70YrCancer	8.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
495	ALL	635325	4176150	7.97E-06	70YrCancer	7.97E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
496	ALL	635375	4176150	7.75E-06	70YrCancer	7.75E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
497	ALL	635425	4176150	7.52E-06	70YrCancer	7.52E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
498	ALL	635475	4176150	7.31E-06	70YrCancer	7.31E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
499	ALL	635525	4176150	7.10E-06	70YrCancer	7.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
500	ALL	635575	4176150	6.89E-06	70YrCancer	6.89E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
501	ALL	634875	4176200	1.06E-05	70YrCancer	1.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
502	ALL	634925	4176200	1.02E-05	70YrCancer	1.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
503	ALL	634975	4176200	9.80E-06	70YrCancer	9.80E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
504	ALL	635125	4176200	8.89E-06	70YrCancer	8.89E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
505	ALL	635175	4176200	8.62E-06	70YrCancer	8.62E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
506	ALL	635225	4176200	8.36E-06	70YrCancer	8.36E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
507	ALL	635525	4176200	7.00E-06	70YrCancer	7.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
508	ALL	635575	4176200	6.79E-06	70YrCancer	6.79E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
509	ALL	634325	4176250	1.58E-05	70YrCancer	1.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
510	ALL	634375	4176250	1.51E-05	70YrCancer	1.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
511	ALL	634875	4176250	1.03E-05	70YrCancer	1.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
512	ALL	634925	4176250	9.88E-06	70YrCancer	9.88E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
513	ALL	634975	4176250	9.52E-06	70YrCancer	9.52E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
514	ALL	635025	4176250	9.28E-06	70YrCancer	9.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
515	ALL	635075	4176250	9.02E-06	70YrCancer	9.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
516	ALL	635125	4176250	8.75E-06	70YrCancer	8.75E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
517	ALL	635175	4176250	8.46E-06	70YrCancer	8.46E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
518	ALL	635225	4176250	8.20E-06	70YrCancer	8.20E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
519	ALL	635275	4176250	7.97E-06	70YrCancer	7.97E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
520	ALL	635375	4176250	7.49E-06	70YrCancer	7.49E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
521	ALL	635425	4176250	7.26E-06	70YrCancer	7.26E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
522	ALL	635525	4176250	6.90E-06	70YrCancer	6.90E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
523	ALL	635575	4176250	6.71E-06	70YrCancer	6.71E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
524	ALL	634875	4176300	1.01E-05	70YrCancer	1.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
525	ALL	634925	4176300	9.73E-06	70YrCancer	9.73E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
526	ALL	634975	4176300	9.41E-06	70YrCancer	9.41E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
527	ALL	635025	4176300	9.13E-06	70YrCancer	9.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
528	ALL	635075	4176300	8.82E-06	70YrCancer	8.82E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
529	ALL	635125	4176300	8.50E-06	70YrCancer	8.50E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
530	ALL	635175	4176300	8.16E-06	70YrCancer	8.16E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
531	ALL	635225	4176300	8.00E-06	70YrCancer	8.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
532	ALL	635275	4176300	7.82E-06	70YrCancer	7.82E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
533	ALL	635375	4176300	7.38E-06	70YrCancer	7.38E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
534	ALL	635425	4176300	7.16E-06	70YrCancer	7.16E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
535	ALL	635525	4176300	6.79E-06	70YrCancer	6.79E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
536	ALL	635575	4176300	6.60E-06	70YrCancer	6.60E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
537	ALL	634875	4176350	9.78E-06	70YrCancer	9.78E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

538	ALL	634925	4176350	9.50E-06	70YrCancer	9.50E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
539	ALL	634975	4176350	9.19E-06	70YrCancer	9.19E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
540	ALL	635025	4176350	8.91E-06	70YrCancer	8.91E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
541	ALL	635075	4176350	8.65E-06	70YrCancer	8.65E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
542	ALL	635125	4176350	8.38E-06	70YrCancer	8.38E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
543	ALL	635175	4176350	8.12E-06	70YrCancer	8.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
544	ALL	635225	4176350	7.92E-06	70YrCancer	7.92E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
545	ALL	635275	4176350	7.68E-06	70YrCancer	7.68E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
546	ALL	635375	4176350	7.14E-06	70YrCancer	7.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
547	ALL	635425	4176350	6.97E-06	70YrCancer	6.97E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
548	ALL	635525	4176350	6.67E-06	70YrCancer	6.67E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
549	ALL	635575	4176350	6.49E-06	70YrCancer	6.49E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
550	ALL	634875	4176400	9.46E-06	70YrCancer	9.46E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
551	ALL	634925	4176400	9.24E-06	70YrCancer	9.24E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
552	ALL	634975	4176400	9.00E-06	70YrCancer	9.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
553	ALL	635025	4176400	8.71E-06	70YrCancer	8.71E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
554	ALL	635075	4176400	8.45E-06	70YrCancer	8.45E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
555	ALL	635125	4176400	8.22E-06	70YrCancer	8.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
556	ALL	635175	4176400	7.96E-06	70YrCancer	7.96E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
557	ALL	635225	4176400	7.76E-06	70YrCancer	7.76E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
558	ALL	635275	4176400	7.55E-06	70YrCancer	7.55E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
559	ALL	635425	4176400	6.94E-06	70YrCancer	6.94E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
560	ALL	635525	4176400	6.52E-06	70YrCancer	6.52E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
561	ALL	635575	4176400	6.31E-06	70YrCancer	6.31E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
562	ALL	633650	4176200	3.77E-05	70YrCancer	3.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
563	ALL	633700	4176200	3.41E-05	70YrCancer	3.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
564	ALL	633850	4176200	2.67E-05	70YrCancer	2.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
565	ALL	633850	4176250	2.63E-05	70YrCancer	2.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
566	ALL	633950	4176250	2.26E-05	70YrCancer	2.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
567	ALL	634350	4176250	1.55E-05	70YrCancer	1.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
568	ALL	633750	4176300	2.97E-05	70YrCancer	2.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
569	ALL	633950	4176300	2.21E-05	70YrCancer	2.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
570	ALL	634000	4176300	2.05E-05	70YrCancer	2.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
571	ALL	634050	4176300	1.94E-05	70YrCancer	1.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
572	ALL	634050	4176350	1.88E-05	70YrCancer	1.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
573	ALL	634050	4176400	1.90E-05	70YrCancer	1.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
574	ALL	634000	4176450	1.94E-05	70YrCancer	1.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
575	ALL	634050	4176450	1.82E-05	70YrCancer	1.82E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
576	ALL	634200	4176600	1.48E-05	70YrCancer	1.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
577	ALL	634100	4176650	1.47E-05	70YrCancer	1.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
578	ALL	634150	4176650	1.45E-05	70YrCancer	1.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
579	ALL	634200	4176650	1.44E-05	70YrCancer	1.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
580	ALL	634200	4176850	1.28E-05	70YrCancer	1.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
581	ALL	634200	4176900	1.22E-05	70YrCancer	1.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
582	ALL	634250	4176900	1.20E-05	70YrCancer	1.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
583	ALL	634300	4176900	1.13E-05	70YrCancer	1.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
584	ALL	634400	4177000	1.02E-05	70YrCancer	1.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
585	ALL	634450	4177000	9.46E-06	70YrCancer	9.46E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
586	ALL	634500	4177000	9.30E-06	70YrCancer	9.30E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

587	ALL	634550	4177000	8.98E-06	70YrCancer	8.98E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
588	ALL	634400	4177050	1.01E-05	70YrCancer	1.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
589	ALL	634450	4177050	9.61E-06	70YrCancer	9.61E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
590	ALL	634500	4177050	8.99E-06	70YrCancer	8.99E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
591	ALL	634550	4177050	8.90E-06	70YrCancer	8.90E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
592	ALL	633750	4173175	7.33E-06	70YrCancer	7.33E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
593	ALL	634450	4173325	7.77E-06	70YrCancer	7.77E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
594	ALL	634450	4173375	7.86E-06	70YrCancer	7.86E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
595	ALL	634350	4173475	8.28E-06	70YrCancer	8.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
596	ALL	634300	4173625	8.82E-06	70YrCancer	8.82E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
597	ALL	634300	4173675	8.78E-06	70YrCancer	8.78E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
598	ALL	634350	4173675	8.78E-06	70YrCancer	8.78E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
599	ALL	634250	4173775	9.10E-06	70YrCancer	9.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
600	ALL	633950	4173825	9.86E-06	70YrCancer	9.86E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
601	ALL	634050	4173825	8.54E-06	70YrCancer	8.54E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
602	ALL	634100	4173825	8.98E-06	70YrCancer	8.98E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
603	ALL	634250	4173825	9.34E-06	70YrCancer	9.34E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
604	ALL	634250	4173975	9.25E-06	70YrCancer	9.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
605	ALL	634150	4174125	9.81E-06	70YrCancer	9.81E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
606	ALL	634200	4174125	9.03E-06	70YrCancer	9.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
607	ALL	634250	4174125	9.78E-06	70YrCancer	9.78E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
608	ALL	634250	4174225	1.02E-05	70YrCancer	1.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
609	ALL	634350	4174225	9.95E-06	70YrCancer	9.95E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
610	ALL	634400	4174225	9.29E-06	70YrCancer	9.29E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
611	ALL	634200	4174325	1.04E-05	70YrCancer	1.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
612	ALL	634250	4174325	1.03E-05	70YrCancer	1.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
613	ALL	634200	4174375	1.09E-05	70YrCancer	1.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
614	ALL	634250	4174425	9.80E-06	70YrCancer	9.80E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
615	ALL	634000	4174475	1.23E-05	70YrCancer	1.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
616	ALL	634250	4174525	9.55E-06	70YrCancer	9.55E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
617	ALL	634100	4174575	1.21E-05	70YrCancer	1.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
618	ALL	634150	4174575	1.07E-05	70YrCancer	1.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
619	ALL	634200	4174575	1.03E-05	70YrCancer	1.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
620	ALL	634250	4174575	9.89E-06	70YrCancer	9.89E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
621	ALL	634250	4174625	9.64E-06	70YrCancer	9.64E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
622	ALL	634250	4174675	9.17E-06	70YrCancer	9.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
623	ALL	634250	4174825	1.01E-05	70YrCancer	1.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
624	ALL	634250	4174875	1.10E-05	70YrCancer	1.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
625	ALL	634200	4174925	1.20E-05	70YrCancer	1.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
626	ALL	634250	4174925	1.21E-05	70YrCancer	1.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
627	ALL	631950	4173950	5.06E-06	70YrCancer	5.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
628	ALL	631550	4174000	4.49E-06	70YrCancer	4.49E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
629	ALL	631550	4174050	4.89E-06	70YrCancer	4.89E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
630	ALL	631750	4174250	6.19E-06	70YrCancer	6.19E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
631	ALL	632300	4174300	9.61E-06	70YrCancer	9.61E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
632	ALL	632350	4174300	9.91E-06	70YrCancer	9.91E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
633	ALL	632300	4174350	1.03E-05	70YrCancer	1.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
634	ALL	632350	4174350	1.01E-05	70YrCancer	1.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
635	ALL	631600	4174400	7.41E-06	70YrCancer	7.41E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

636	ALL	631650	4174400	7.91E-06	70YrCancer	7.91E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
637	ALL	632000	4174400	1.00E-05	70YrCancer	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
638	ALL	632000	4174450	9.64E-06	70YrCancer	9.64E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
639	ALL	631950	4174500	1.18E-05	70YrCancer	1.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
640	ALL	632150	4174950	1.71E-05	70YrCancer	1.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
641	ALL	632200	4174950	1.58E-05	70YrCancer	1.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

*HARP - HRACalc v19044 1/12/2021 10:03:43 AM - Acute Risk - Input File: C:\Users\swang\Desktop\SchulteOpUnmit\hra\AcuteUnmitHRAInput.hra

REC	GRP	NETID	X	Y	SCENARIO	CV	CNS	IMMUN	KIDNEY	GILV	REPRO/DE\	RESP	SKIN	EYE	BONE/TEET	ENDO	BLOOD	ODOR	GENERAL	MAXHI
1	ALL		631050	4178050	NonCancer	0.00E+00	3.02E-07	3.06E-05	0.00E+00	0.00E+00	3.07E-05	3.02E-07	0.00E+00	3.02E-07	0.00E+00	0.00E+00	3.06E-05	0.00E+00	0.00E+00	3.07E-05
2	ALL		631150	4178250	NonCancer	0.00E+00	2.85E-07	2.89E-05	0.00E+00	0.00E+00	2.90E-05	2.85E-07	0.00E+00	2.85E-07	0.00E+00	0.00E+00	2.89E-05	0.00E+00	0.00E+00	2.90E-05
3	ALL		631250	4178250	NonCancer	0.00E+00	2.90E-07	2.94E-05	0.00E+00	0.00E+00	2.95E-05	2.90E-07	0.00E+00	2.90E-07	0.00E+00	0.00E+00	2.94E-05	0.00E+00	0.00E+00	2.95E-05
4	ALL		631350	4178250	NonCancer	0.00E+00	3.20E-07	3.24E-05	0.00E+00	0.00E+00	3.25E-05	3.20E-07	0.00E+00	3.20E-07	0.00E+00	0.00E+00	3.24E-05	0.00E+00	0.00E+00	3.25E-05
5	ALL		631450	4178250	NonCancer	0.00E+00	3.53E-07	3.57E-05	0.00E+00	0.00E+00	3.59E-05	3.53E-07	0.00E+00	3.53E-07	0.00E+00	0.00E+00	3.57E-05	0.00E+00	0.00E+00	3.59E-05
6	ALL		631550	4178250	NonCancer	0.00E+00	3.80E-07	3.86E-05	0.00E+00	0.00E+00	3.87E-05	3.80E-07	0.00E+00	3.80E-07	0.00E+00	0.00E+00	3.86E-05	0.00E+00	0.00E+00	3.87E-05
7	ALL		631650	4178250	NonCancer	0.00E+00	3.92E-07	3.97E-05	0.00E+00	0.00E+00	3.99E-05	3.92E-07	0.00E+00	3.92E-07	0.00E+00	0.00E+00	3.97E-05	0.00E+00	0.00E+00	3.99E-05
8	ALL		631750	4178250	NonCancer	0.00E+00	4.02E-07	4.08E-05	0.00E+00	0.00E+00	4.09E-05	4.02E-07	0.00E+00	4.02E-07	0.00E+00	0.00E+00	4.08E-05	0.00E+00	0.00E+00	4.09E-05
9	ALL		631150	4178350	NonCancer	0.00E+00	2.63E-07	2.67E-05	0.00E+00	0.00E+00	2.68E-05	2.63E-07	0.00E+00	2.63E-07	0.00E+00	0.00E+00	2.67E-05	0.00E+00	0.00E+00	2.68E-05
10	ALL		631450	4178350	NonCancer	0.00E+00	3.52E-07	3.57E-05	0.00E+00	0.00E+00	3.58E-05	3.52E-07	0.00E+00	3.52E-07	0.00E+00	0.00E+00	3.57E-05	0.00E+00	0.00E+00	3.58E-05
11	ALL		631550	4178350	NonCancer	0.00E+00	3.50E-07	3.55E-05	0.00E+00	0.00E+00	3.57E-05	3.50E-07	0.00E+00	3.50E-07	0.00E+00	0.00E+00	3.55E-05	0.00E+00	0.00E+00	3.57E-05
12	ALL		631650	4178350	NonCancer	0.00E+00	3.67E-07	3.72E-05	0.00E+00	0.00E+00	3.73E-05	3.67E-07	0.00E+00	3.67E-07	0.00E+00	0.00E+00	3.72E-05	0.00E+00	0.00E+00	3.73E-05
13	ALL		631750	4178350	NonCancer	0.00E+00	3.66E-07	3.71E-05	0.00E+00	0.00E+00	3.73E-05	3.66E-07	0.00E+00	3.66E-07	0.00E+00	0.00E+00	3.71E-05	0.00E+00	0.00E+00	3.73E-05
14	ALL		630650	4178450	NonCancer	0.00E+00	2.30E-07	2.33E-05	0.00E+00	0.00E+00	2.34E-05	2.30E-07	0.00E+00	2.30E-07	0.00E+00	0.00E+00	2.33E-05	0.00E+00	0.00E+00	2.34E-05
15	ALL		630850	4178450	NonCancer	0.00E+00	2.66E-07	2.69E-05	0.00E+00	0.00E+00	2.70E-05	2.66E-07	0.00E+00	2.66E-07	0.00E+00	0.00E+00	2.69E-05	0.00E+00	0.00E+00	2.70E-05
16	ALL		631050	4178450	NonCancer	0.00E+00	2.51E-07	2.54E-05	0.00E+00	0.00E+00	2.55E-05	2.51E-07	0.00E+00	2.51E-07	0.00E+00	0.00E+00	2.54E-05	0.00E+00	0.00E+00	2.55E-05
17	ALL		631150	4178450	NonCancer	0.00E+00	2.60E-07	2.64E-05	0.00E+00	0.00E+00	2.65E-05	2.60E-07	0.00E+00	2.60E-07	0.00E+00	0.00E+00	2.64E-05	0.00E+00	0.00E+00	2.65E-05
18	ALL		631250	4178450	NonCancer	0.00E+00	2.62E-07	2.65E-05	0.00E+00	0.00E+00	2.66E-05	2.62E-07	0.00E+00	2.62E-07	0.00E+00	0.00E+00	2.65E-05	0.00E+00	0.00E+00	2.66E-05
19	ALL		631550	4178450	NonCancer	0.00E+00	3.38E-07	3.43E-05	0.00E+00	0.00E+00	3.44E-05	3.38E-07	0.00E+00	3.38E-07	0.00E+00	0.00E+00	3.43E-05	0.00E+00	0.00E+00	3.44E-05
20	ALL		631650	4178450	NonCancer	0.00E+00	3.48E-07	3.53E-05	0.00E+00	0.00E+00	3.54E-05	3.48E-07	0.00E+00	3.48E-07	0.00E+00	0.00E+00	3.53E-05	0.00E+00	0.00E+00	3.54E-05
21	ALL		631750	4178450	NonCancer	0.00E+00	3.53E-07	3.58E-05	0.00E+00	0.00E+00	3.59E-05	3.53E-07	0.00E+00	3.53E-07	0.00E+00	0.00E+00	3.58E-05	0.00E+00	0.00E+00	3.59E-05
22	ALL		631850	4178450	NonCancer	0.00E+00	3.43E-07	3.47E-05	0.00E+00	0.00E+00	3.49E-05	3.43E-07	0.00E+00	3.43E-07	0.00E+00	0.00E+00	3.47E-05	0.00E+00	0.00E+00	3.49E-05
23	ALL		631950	4178450	NonCancer	0.00E+00	3.66E-07	3.71E-05	0.00E+00	0.00E+00	3.73E-05	3.66E-07	0.00E+00	3.66E-07	0.00E+00	0.00E+00	3.71E-05	0.00E+00	0.00E+00	3.73E-05
24	ALL		632050	4178450	NonCancer	0.00E+00	3.73E-07	3.78E-05	0.00E+00	0.00E+00	3.79E-05	3.73E-07	0.00E+00	3.73E-07	0.00E+00	0.00E+00	3.78E-05	0.00E+00	0.00E+00	3.79E-05
25	ALL		632150	4178450	NonCancer	0.00E+00	5.13E-07	5.20E-05	0.00E+00	0.00E+00	5.22E-05	5.13E-07	0.00E+00	5.13E-07	0.00E+00	0.00E+00	5.20E-05	0.00E+00	0.00E+00	5.22E-05
26	ALL		630550	4178550	NonCancer	0.00E+00	2.17E-07	2.20E-05	0.00E+00	0.00E+00	2.21E-05	2.17E-07	0.00E+00	2.17E-07	0.00E+00	0.00E+00	2.20E-05	0.00E+00	0.00E+00	2.21E-05
27	ALL		630650	4178550	NonCancer	0.00E+00	2.54E-07	2.58E-05	0.00E+00	0.00E+00	2.59E-05	2.54E-07	0.00E+00	2.54E-07	0.00E+00	0.00E+00	2.58E-05	0.00E+00	0.00E+00	2.59E-05
28	ALL		630750	4178550	NonCancer	0.00E+00	2.63E-07	2.66E-05	0.00E+00	0.00E+00	2.67E-05	2.63E-07	0.00E+00	2.63E-07	0.00E+00	0.00E+00	2.66E-05	0.00E+00	0.00E+00	2.67E-05
29	ALL		630950	4178550	NonCancer	0.00E+00	2.39E-07	2.42E-05	0.00E+00	0.00E+00	2.43E-05	2.39E-07	0.00E+00	2.39E-07	0.00E+00	0.00E+00	2.42E-05	0.00E+00	0.00E+00	2.43E-05
30	ALL		631050	4178550	NonCancer	0.00E+00	2.43E-07	2.47E-05	0.00E+00	0.00E+00	2.47E-05	2.43E-07	0.00E+00	2.43E-07	0.00E+00	0.00E+00	2.47E-05	0.00E+00	0.00E+00	2.47E-05
31	ALL		631250	4178550	NonCancer	0.00E+00	2.76E-07	2.79E-05	0.00E+00	0.00E+00	2.80E-05	2.76E-07	0.00E+00	2.76E-07	0.00E+00	0.00E+00	2.79E-05	0.00E+00	0.00E+00	2.80E-05
32	ALL		631350	4178550	NonCancer	0.00E+00	3.10E-07	3.15E-05	0.00E+00	0.00E+00	3.16E-05	3.10E-07	0.00E+00	3.10E-07	0.00E+00	0.00E+00	3.15E-05	0.00E+00	0.00E+00	3.16E-05
33	ALL		631450	4178550	NonCancer	0.00E+00	3.08E-07	3.12E-05	0.00E+00	0.00E+00	3.13E-05	3.08E-07	0.00E+00	3.08E-07	0.00E+00	0.00E+00	3.12E-05	0.00E+00	0.00E+00	3.13E-05
34	ALL		631550	4178550	NonCancer	0.00E+00	3.22E-07	3.26E-05	0.00E+00	0.00E+00	3.27E-05	3.22E-07	0.00E+00	3.22E-07	0.00E+00	0.00E+00	3.26E-05	0.00E+00	0.00E+00	3.27E-05
35	ALL		631650	4178550	NonCancer	0.00E+00	3.17E-07	3.21E-05	0.00E+00	0.00E+00	3.22E-05	3.17E-07	0.00E+00	3.17E-07	0.00E+00	0.00E+00	3.21E-05	0.00E+00	0.00E+00	3.22E-05
36	ALL		631750	4178550	NonCancer	0.00E+00	3.33E-07	3.38E-05	0.00E+00	0.00E+00	3.39E-05	3.33E-07	0.00E+00	3.33E-07	0.00E+00	0.00E+00	3.38E-05	0.00E+00	0.00E+00	3.39E-05
37	ALL		631850	4178550	NonCancer	0.00E+00	3.13E-07	3.17E-05	0.00E+00	0.00E+00	3.18E-05	3.13E-07	0.00E+00	3.13E-07	0.00E+00	0.00E+00	3.17E-05	0.00E+00	0.00E+00	3.18E-05
38	ALL		631950	4178550	NonCancer	0.00E+00	3.42E-07	3.47E-05	0.00E+00	0.00E+00	3.48E-05	3.42E-07	0.00E+00	3.42E-07	0.00E+00	0.00E+00	3.47E-05	0.00E+00	0.00E+00	3.48E-05
39	ALL		632050	4178550	NonCancer	0.00E+00	3.50E-07	3.54E-05	0.00E+00	0.00E+00	3.56E-05	3.50E-07	0.00E+00	3.50E-07	0.00E+00	0.00E+00	3.54E-05	0.00E+00	0.00E+00	3.56E-05
40	ALL		632150	4178550	NonCancer	0.00E+00	5.27E-07	5.34E-05	0.00E+00	0.00E+00	5.36E-05	5.27E-07	0.00E+00	5.27E-07	0.00E+00	0.00E+00	5.34E-05	0.00E+00	0.00E+00	5.36E-05
41	ALL		630450	4178650	NonCancer	0.00E+00	2.05E-07	2.08E-05	0.00E+00	0.00E+00	2.09E-05	2.05E-07	0.00E+00	2.05E-07	0.00E+00	0.00E+00	2.08E-05	0.00E+00	0.00E+00	2.09E-05
42	ALL		630550	4178650	NonCancer	0.00E+00	2.41E-07	2.44E-05	0.00E+00	0.00E+00	2.45E-05	2.41E-07	0.00E+00	2.41E-07	0.00E+00	0.00E+00	2.44E-05	0.00E+00	0.00E+00	2.45E-05
43	ALL		630650	4178650	NonCancer	0.00E+00	2.57E-07	2.60E-05	0.00E+00	0.00E+00	2.61E-05	2.57E-07	0.00E+00	2.57E-07	0.00E+00	0.00E+00	2.60E-05	0.00E+00	0.00E+00	2.61E-05
44	ALL		630750	4178650	NonCancer	0.00E+00	2.29E-07	2.32E-05	0.00E+00	0.00E+00	2.33E-05	2.29E-07	0.00E+00	2.29E-07	0.00E+00	0.00E+00	2.32E-05	0.00E+00	0.00E+00	2.33E-05
45	ALL		630850	4178650	NonCancer	0.00E+00	2.25E-07	2.28E-05	0.00E+00	0.00E+00	2.29E-05	2.25E-07	0.00E+00	2.25E-07	0.00E+00	0.00E+00	2.28E-05	0.00E+00	0.00E+00	2.29E-05
46	ALL		630950	4178650	NonCancer	0.00E+00	2.23E-07	2.26E-05	0.00E+00	0.00E+00	2.27E-05	2.23E-07	0.00E+00	2.23E-07	0.00E+00	0.00E+00	2.26E-05	0.00E+00	0.00E+00	2.27E-05
47	ALL		631050	4178650	NonCancer	0.00E+00	2.33E-07	2.36E-05	0.00E+00	0.00E+00	2.37E-05	2.33E-07	0.00E+00	2.33E-07	0.00E+00	0.00E+00	2.36E-05	0.00E+00	0.00E+00	2.37E-05
48	ALL		631150	4178650	NonCancer	0.00E+00	2.34E-07	2.37E-05	0.00E+00	0.00E+00	2.38E-05	2.34E-07	0.00E+00	2.34E-07	0.00E+00	0.00E+00	2.37E-05	0.00E+00	0.00E+00	2.38E-05
49	ALL		631250	4178650	NonCancer	0.00E+00	2.87E-07	2.91E-05	0.00E+00	0.00E+00	2.92E-05	2.87E-07	0.00E+00	2.87E-07	0.00E+00	0.00E+00	2.91E-05	0.00E+00	0.00E+00	2.92E-05
50	ALL		631350	4178650	NonCancer	0.00E+00	2.96E-07	3.00E-05	0.00E+00	0.00E+00	3.01E-05	2.96E-07	0.00E+00	2.96E-07	0.00E+00	0.00E+00	3.00E-05	0.00E+00	0.00E+00	3.01E-05
51	ALL		631450	4178650	NonCancer	0.00E+00	3.00E-07	3.04E-05	0.00E+00	0.00E+00	3.06E-05	3.00E-07	0.00E+00	3.00E-07	0.00E+00	0.00E+00	3.04E-05	0.00E+00	0.00E+00	3.06E-05
52	ALL		631550	4178650	NonCancer	0.00E+00	3.09E-07	3.13E-05	0.00E+00	0.00E+00	3.14E-05	3.09E-07	0.00E+00	3.09E-07	0.00E+00	0.00E+00	3.13E-05	0.00E+00	0.00E+00	3.14E-05
53	ALL		631650	4178650	NonCancer	0.00E+00	3.13E-07	3.18E-05	0.00E+00	0.00E+00	3.19E-05	3.13E-07	0.00E+00	3.13E-07	0.00E+00	0.00E+00	3.18E-05	0.00E+00	0.00E+00	3.19E-05

54	ALL	631750	4178650	NonCancer	0.00E+00	3.13E-07	3.17E-05	0.00E+00	0.00E+00	3.18E-05	3.13E-07	0.00E+00	3.13E-07	0.00E+00	0.00E+00	3.17E-05	0.00E+00	0.00E+00	3.18E-05
55	ALL	631850	4178650	NonCancer	0.00E+00	3.17E-07	3.21E-05	0.00E+00	0.00E+00	3.22E-05	3.17E-07	0.00E+00	3.17E-07	0.00E+00	0.00E+00	3.21E-05	0.00E+00	0.00E+00	3.22E-05
56	ALL	631950	4178650	NonCancer	0.00E+00	3.16E-07	3.20E-05	0.00E+00	0.00E+00	3.21E-05	3.16E-07	0.00E+00	3.16E-07	0.00E+00	0.00E+00	3.20E-05	0.00E+00	0.00E+00	3.21E-05
57	ALL	632050	4178650	NonCancer	0.00E+00	3.33E-07	3.37E-05	0.00E+00	0.00E+00	3.39E-05	3.33E-07	0.00E+00	3.33E-07	0.00E+00	0.00E+00	3.37E-05	0.00E+00	0.00E+00	3.39E-05
58	ALL	632150	4178650	NonCancer	0.00E+00	4.97E-07	5.04E-05	0.00E+00	0.00E+00	5.06E-05	4.97E-07	0.00E+00	4.97E-07	0.00E+00	0.00E+00	5.04E-05	0.00E+00	0.00E+00	5.06E-05
59	ALL	630350	4178750	NonCancer	0.00E+00	1.94E-07	1.96E-05	0.00E+00	0.00E+00	1.97E-05	1.94E-07	0.00E+00	1.94E-07	0.00E+00	0.00E+00	1.96E-05	0.00E+00	0.00E+00	1.97E-05
60	ALL	630450	4178750	NonCancer	0.00E+00	2.26E-07	2.29E-05	0.00E+00	0.00E+00	2.30E-05	2.26E-07	0.00E+00	2.26E-07	0.00E+00	0.00E+00	2.29E-05	0.00E+00	0.00E+00	2.30E-05
61	ALL	630550	4178750	NonCancer	0.00E+00	2.51E-07	2.54E-05	0.00E+00	0.00E+00	2.55E-05	2.51E-07	0.00E+00	2.51E-07	0.00E+00	0.00E+00	2.54E-05	0.00E+00	0.00E+00	2.55E-05
62	ALL	630650	4178750	NonCancer	0.00E+00	2.33E-07	2.36E-05	0.00E+00	0.00E+00	2.37E-05	2.33E-07	0.00E+00	2.33E-07	0.00E+00	0.00E+00	2.36E-05	0.00E+00	0.00E+00	2.37E-05
63	ALL	630750	4178750	NonCancer	0.00E+00	2.12E-07	2.15E-05	0.00E+00	0.00E+00	2.16E-05	2.12E-07	0.00E+00	2.12E-07	0.00E+00	0.00E+00	2.15E-05	0.00E+00	0.00E+00	2.16E-05
64	ALL	630850	4178750	NonCancer	0.00E+00	2.13E-07	2.16E-05	0.00E+00	0.00E+00	2.17E-05	2.13E-07	0.00E+00	2.13E-07	0.00E+00	0.00E+00	2.16E-05	0.00E+00	0.00E+00	2.17E-05
65	ALL	630950	4178750	NonCancer	0.00E+00	2.23E-07	2.26E-05	0.00E+00	0.00E+00	2.26E-05	2.23E-07	0.00E+00	2.23E-07	0.00E+00	0.00E+00	2.26E-05	0.00E+00	0.00E+00	2.26E-05
66	ALL	631050	4178750	NonCancer	0.00E+00	2.23E-07	2.26E-05	0.00E+00	0.00E+00	2.27E-05	2.23E-07	0.00E+00	2.23E-07	0.00E+00	0.00E+00	2.26E-05	0.00E+00	0.00E+00	2.27E-05
67	ALL	631150	4178750	NonCancer	0.00E+00	2.56E-07	2.60E-05	0.00E+00	0.00E+00	2.61E-05	2.56E-07	0.00E+00	2.56E-07	0.00E+00	0.00E+00	2.60E-05	0.00E+00	0.00E+00	2.61E-05
68	ALL	631250	4178750	NonCancer	0.00E+00	2.78E-07	2.82E-05	0.00E+00	0.00E+00	2.83E-05	2.78E-07	0.00E+00	2.78E-07	0.00E+00	0.00E+00	2.82E-05	0.00E+00	0.00E+00	2.83E-05
69	ALL	631350	4178750	NonCancer	0.00E+00	2.75E-07	2.79E-05	0.00E+00	0.00E+00	2.80E-05	2.75E-07	0.00E+00	2.75E-07	0.00E+00	0.00E+00	2.79E-05	0.00E+00	0.00E+00	2.80E-05
70	ALL	631450	4178750	NonCancer	0.00E+00	2.88E-07	2.92E-05	0.00E+00	0.00E+00	2.93E-05	2.88E-07	0.00E+00	2.88E-07	0.00E+00	0.00E+00	2.92E-05	0.00E+00	0.00E+00	2.93E-05
71	ALL	631550	4178750	NonCancer	0.00E+00	2.83E-07	2.87E-05	0.00E+00	0.00E+00	2.88E-05	2.83E-07	0.00E+00	2.83E-07	0.00E+00	0.00E+00	2.87E-05	0.00E+00	0.00E+00	2.88E-05
72	ALL	631650	4178750	NonCancer	0.00E+00	2.96E-07	3.00E-05	0.00E+00	0.00E+00	3.01E-05	2.96E-07	0.00E+00	2.96E-07	0.00E+00	0.00E+00	3.00E-05	0.00E+00	0.00E+00	3.01E-05
73	ALL	631750	4178750	NonCancer	0.00E+00	2.83E-07	2.86E-05	0.00E+00	0.00E+00	2.88E-05	2.83E-07	0.00E+00	2.83E-07	0.00E+00	0.00E+00	2.86E-05	0.00E+00	0.00E+00	2.88E-05
74	ALL	631850	4178750	NonCancer	0.00E+00	3.08E-07	3.12E-05	0.00E+00	0.00E+00	3.14E-05	3.08E-07	0.00E+00	3.08E-07	0.00E+00	0.00E+00	3.12E-05	0.00E+00	0.00E+00	3.14E-05
75	ALL	631950	4178750	NonCancer	0.00E+00	3.11E-07	3.15E-05	0.00E+00	0.00E+00	3.16E-05	3.11E-07	0.00E+00	3.11E-07	0.00E+00	0.00E+00	3.15E-05	0.00E+00	0.00E+00	3.16E-05
76	ALL	632050	4178750	NonCancer	0.00E+00	3.32E-07	3.37E-05	0.00E+00	0.00E+00	3.38E-05	3.32E-07	0.00E+00	3.32E-07	0.00E+00	0.00E+00	3.37E-05	0.00E+00	0.00E+00	3.38E-05
77	ALL	632150	4178750	NonCancer	0.00E+00	4.39E-07	4.45E-05	0.00E+00	0.00E+00	4.46E-05	4.39E-07	0.00E+00	4.39E-07	0.00E+00	0.00E+00	4.45E-05	0.00E+00	0.00E+00	4.46E-05
78	ALL	630250	4178850	NonCancer	0.00E+00	1.83E-07	1.85E-05	0.00E+00	0.00E+00	1.86E-05	1.83E-07	0.00E+00	1.83E-07	0.00E+00	0.00E+00	1.85E-05	0.00E+00	0.00E+00	1.86E-05
79	ALL	630350	4178850	NonCancer	0.00E+00	2.13E-07	2.15E-05	0.00E+00	0.00E+00	2.16E-05	2.13E-07	0.00E+00	2.13E-07	0.00E+00	0.00E+00	2.15E-05	0.00E+00	0.00E+00	2.16E-05
80	ALL	630450	4178850	NonCancer	0.00E+00	2.42E-07	2.46E-05	0.00E+00	0.00E+00	2.47E-05	2.42E-07	0.00E+00	2.42E-07	0.00E+00	0.00E+00	2.46E-05	0.00E+00	0.00E+00	2.47E-05
81	ALL	630550	4178850	NonCancer	0.00E+00	2.35E-07	2.39E-05	0.00E+00	0.00E+00	2.40E-05	2.35E-07	0.00E+00	2.35E-07	0.00E+00	0.00E+00	2.39E-05	0.00E+00	0.00E+00	2.40E-05
82	ALL	630650	4178850	NonCancer	0.00E+00	2.02E-07	2.05E-05	0.00E+00	0.00E+00	2.06E-05	2.02E-07	0.00E+00	2.02E-07	0.00E+00	0.00E+00	2.05E-05	0.00E+00	0.00E+00	2.06E-05
83	ALL	630750	4178850	NonCancer	0.00E+00	2.06E-07	2.08E-05	0.00E+00	0.00E+00	2.09E-05	2.06E-07	0.00E+00	2.06E-07	0.00E+00	0.00E+00	2.08E-05	0.00E+00	0.00E+00	2.09E-05
84	ALL	630850	4178850	NonCancer	0.00E+00	2.09E-07	2.12E-05	0.00E+00	0.00E+00	2.13E-05	2.09E-07	0.00E+00	2.09E-07	0.00E+00	0.00E+00	2.12E-05	0.00E+00	0.00E+00	2.13E-05
85	ALL	630950	4178850	NonCancer	0.00E+00	2.13E-07	2.16E-05	0.00E+00	0.00E+00	2.17E-05	2.13E-07	0.00E+00	2.13E-07	0.00E+00	0.00E+00	2.16E-05	0.00E+00	0.00E+00	2.17E-05
86	ALL	631050	4178850	NonCancer	0.00E+00	2.23E-07	2.26E-05	0.00E+00	0.00E+00	2.26E-05	2.23E-07	0.00E+00	2.23E-07	0.00E+00	0.00E+00	2.26E-05	0.00E+00	0.00E+00	2.26E-05
87	ALL	631150	4178850	NonCancer	0.00E+00	2.62E-07	2.65E-05	0.00E+00	0.00E+00	2.67E-05	2.62E-07	0.00E+00	2.62E-07	0.00E+00	0.00E+00	2.65E-05	0.00E+00	0.00E+00	2.67E-05
88	ALL	631250	4178850	NonCancer	0.00E+00	2.67E-07	2.71E-05	0.00E+00	0.00E+00	2.72E-05	2.67E-07	0.00E+00	2.67E-07	0.00E+00	0.00E+00	2.71E-05	0.00E+00	0.00E+00	2.72E-05
89	ALL	631350	4178850	NonCancer	0.00E+00	2.71E-07	2.74E-05	0.00E+00	0.00E+00	2.75E-05	2.71E-07	0.00E+00	2.71E-07	0.00E+00	0.00E+00	2.74E-05	0.00E+00	0.00E+00	2.75E-05
90	ALL	631450	4178850	NonCancer	0.00E+00	2.78E-07	2.82E-05	0.00E+00	0.00E+00	2.83E-05	2.78E-07	0.00E+00	2.78E-07	0.00E+00	0.00E+00	2.82E-05	0.00E+00	0.00E+00	2.83E-05
91	ALL	631550	4178850	NonCancer	0.00E+00	2.80E-07	2.84E-05	0.00E+00	0.00E+00	2.85E-05	2.80E-07	0.00E+00	2.80E-07	0.00E+00	0.00E+00	2.84E-05	0.00E+00	0.00E+00	2.85E-05
92	ALL	631650	4178850	NonCancer	0.00E+00	2.85E-07	2.89E-05	0.00E+00	0.00E+00	2.90E-05	2.85E-07	0.00E+00	2.85E-07	0.00E+00	0.00E+00	2.89E-05	0.00E+00	0.00E+00	2.90E-05
93	ALL	631750	4178850	NonCancer	0.00E+00	2.73E-07	2.76E-05	0.00E+00	0.00E+00	2.78E-05	2.73E-07	0.00E+00	2.73E-07	0.00E+00	0.00E+00	2.76E-05	0.00E+00	0.00E+00	2.78E-05
94	ALL	631850	4178850	NonCancer	0.00E+00	2.91E-07	2.95E-05	0.00E+00	0.00E+00	2.96E-05	2.91E-07	0.00E+00	2.91E-07	0.00E+00	0.00E+00	2.95E-05	0.00E+00	0.00E+00	2.96E-05
95	ALL	631950	4178850	NonCancer	0.00E+00	2.98E-07	3.02E-05	0.00E+00	0.00E+00	3.03E-05	2.98E-07	0.00E+00	2.98E-07	0.00E+00	0.00E+00	3.02E-05	0.00E+00	0.00E+00	3.03E-05
96	ALL	632050	4178850	NonCancer	0.00E+00	3.43E-07	3.48E-05	0.00E+00	0.00E+00	3.49E-05	3.43E-07	0.00E+00	3.43E-07	0.00E+00	0.00E+00	3.48E-05	0.00E+00	0.00E+00	3.49E-05
97	ALL	632150	4178850	NonCancer	0.00E+00	3.76E-07	3.81E-05	0.00E+00	0.00E+00	3.83E-05	3.76E-07	0.00E+00	3.76E-07	0.00E+00	0.00E+00	3.81E-05	0.00E+00	0.00E+00	3.83E-05
98	ALL	630250	4178950	NonCancer	0.00E+00	1.99E-07	2.02E-05	0.00E+00	0.00E+00	2.03E-05	1.99E-07	0.00E+00	1.99E-07	0.00E+00	0.00E+00	2.02E-05	0.00E+00	0.00E+00	2.03E-05
99	ALL	630350	4178950	NonCancer	0.00E+00	2.33E-07	2.36E-05	0.00E+00	0.00E+00	2.37E-05	2.33E-07	0.00E+00	2.33E-07	0.00E+00	0.00E+00	2.36E-05	0.00E+00	0.00E+00	2.37E-05
100	ALL	630450	4178950	NonCancer	0.00E+00	2.34E-07	2.37E-05	0.00E+00	0.00E+00	2.38E-05	2.34E-07	0.00E+00	2.34E-07	0.00E+00	0.00E+00	2.37E-05	0.00E+00	0.00E+00	2.38E-05
101	ALL	630550	4178950	NonCancer	0.00E+00	2.00E-07	2.03E-05	0.00E+00	0.00E+00	2.04E-05	2.00E-07	0.00E+00	2.00E-07	0.00E+00	0.00E+00	2.03E-05	0.00E+00	0.00E+00	2.04E-05
102	ALL	630650	4178950	NonCancer	0.00E+00	1.96E-07	1.98E-05	0.00E+00	0.00E+00	1.99E-05	1.96E-07	0.00E+00	1.96E-07	0.00E+00	0.00E+00	1.98E-05	0.00E+00	0.00E+00	1.99E-05
103	ALL	630750	4178950	NonCancer	0.00E+00	1.93E-07	1.96E-05	0.00E+00	0.00E+00	1.97E-05	1.93E-07	0.00E+00	1.93E-07	0.00E+00	0.00E+00	1.96E-05	0.00E+00	0.00E+00	1.97E-05
104	ALL	630850	4178950	NonCancer	0.00E+00	2.02E-07	2.05E-05	0.00E+00	0.00E+00	2.06E-05	2.02E-07	0.00E+00	2.02E-07	0.00E+00	0.00E+00	2.05E-05	0.00E+00	0.00E+00	2.06E-05
105	ALL	630950	4178950	NonCancer	0.00E+00	2.01E-07	2.04E-05	0.00E+00	0.00E+00	2.05E-05	2.01E-07	0.00E+00	2.01E-07	0.00E+00	0.00E+00	2.04E-05	0.00E+00	0.00E+00	2.05E-05
106	ALL	631050	4178950	NonCancer	0.00E+00	2.38E-07	2.42E-05	0.00E+00	0.00E+00	2.43E-05	2.38E-07	0.00E+00	2.38E-07	0.00E+00	0.00E+00	2.42E-05	0.00E+00	0.00E+00	2.43E-05
107	ALL	631150	4178950	NonCancer	0.00E+00	2.52E-07	2.55E-05	0.00E+00	0.00E+00	2.56E-05	2.52E-07	0.00E+00	2.52E-07	0.00E+00	0.00E+00	2.55E-05	0.00E+00	0.00E+00	2.56E-05
108	ALL	631250	4178950	NonCancer	0.00E+00	2.49E-07	2.52E-05	0.00E+00	0.00E+00	2.53E-05	2.49E-07	0.00E+00	2.49E-07	0.00E+00	0.00E+00	2.52E-05	0.00E+00	0.00E+00	2.53E-05

109	ALL	631350	4178950	NonCancer	0.00E+00	2.62E-07	2.65E-05	0.00E+00	0.00E+00	2.66E-05	2.62E-07	0.00E+00	2.62E-07	0.00E+00	0.00E+00	2.65E-05	0.00E+00	0.00E+00	2.66E-05
110	ALL	631450	4178950	NonCancer	0.00E+00	2.59E-07	2.63E-05	0.00E+00	0.00E+00	2.64E-05	2.59E-07	0.00E+00	2.59E-07	0.00E+00	0.00E+00	2.63E-05	0.00E+00	0.00E+00	2.64E-05
111	ALL	631550	4178950	NonCancer	0.00E+00	2.70E-07	2.74E-05	0.00E+00	0.00E+00	2.75E-05	2.70E-07	0.00E+00	2.70E-07	0.00E+00	0.00E+00	2.74E-05	0.00E+00	0.00E+00	2.75E-05
112	ALL	631650	4178950	NonCancer	0.00E+00	2.65E-07	2.69E-05	0.00E+00	0.00E+00	2.70E-05	2.65E-07	0.00E+00	2.65E-07	0.00E+00	0.00E+00	2.69E-05	0.00E+00	0.00E+00	2.70E-05
113	ALL	631750	4178950	NonCancer	0.00E+00	2.74E-07	2.78E-05	0.00E+00	0.00E+00	2.79E-05	2.74E-07	0.00E+00	2.74E-07	0.00E+00	0.00E+00	2.78E-05	0.00E+00	0.00E+00	2.79E-05
114	ALL	631850	4178950	NonCancer	0.00E+00	2.70E-07	2.73E-05	0.00E+00	0.00E+00	2.74E-05	2.70E-07	0.00E+00	2.70E-07	0.00E+00	0.00E+00	2.73E-05	0.00E+00	0.00E+00	2.74E-05
115	ALL	631950	4178950	NonCancer	0.00E+00	2.84E-07	2.88E-05	0.00E+00	0.00E+00	2.89E-05	2.84E-07	0.00E+00	2.84E-07	0.00E+00	0.00E+00	2.88E-05	0.00E+00	0.00E+00	2.89E-05
116	ALL	632050	4178950	NonCancer	0.00E+00	3.39E-07	3.43E-05	0.00E+00	0.00E+00	3.45E-05	3.39E-07	0.00E+00	3.39E-07	0.00E+00	0.00E+00	3.43E-05	0.00E+00	0.00E+00	3.45E-05
117	ALL	632150	4178950	NonCancer	0.00E+00	3.23E-07	3.27E-05	0.00E+00	0.00E+00	3.28E-05	3.23E-07	0.00E+00	3.23E-07	0.00E+00	0.00E+00	3.27E-05	0.00E+00	0.00E+00	3.28E-05
118	ALL	629950	4179050	NonCancer	0.00E+00	1.56E-07	1.58E-05	0.00E+00	0.00E+00	1.59E-05	1.56E-07	0.00E+00	1.56E-07	0.00E+00	0.00E+00	1.58E-05	0.00E+00	0.00E+00	1.59E-05
119	ALL	630250	4179050	NonCancer	0.00E+00	2.23E-07	2.26E-05	0.00E+00	0.00E+00	2.27E-05	2.23E-07	0.00E+00	2.23E-07	0.00E+00	0.00E+00	2.26E-05	0.00E+00	0.00E+00	2.27E-05
120	ALL	630350	4179050	NonCancer	0.00E+00	2.31E-07	2.35E-05	0.00E+00	0.00E+00	2.36E-05	2.31E-07	0.00E+00	2.31E-07	0.00E+00	0.00E+00	2.35E-05	0.00E+00	0.00E+00	2.36E-05
121	ALL	630450	4179050	NonCancer	0.00E+00	2.06E-07	2.09E-05	0.00E+00	0.00E+00	2.10E-05	2.06E-07	0.00E+00	2.06E-07	0.00E+00	0.00E+00	2.09E-05	0.00E+00	0.00E+00	2.10E-05
122	ALL	630550	4179050	NonCancer	0.00E+00	1.85E-07	1.87E-05	0.00E+00	0.00E+00	1.88E-05	1.85E-07	0.00E+00	1.85E-07	0.00E+00	0.00E+00	1.87E-05	0.00E+00	0.00E+00	1.88E-05
123	ALL	630650	4179050	NonCancer	0.00E+00	1.85E-07	1.87E-05	0.00E+00	0.00E+00	1.88E-05	1.85E-07	0.00E+00	1.85E-07	0.00E+00	0.00E+00	1.87E-05	0.00E+00	0.00E+00	1.88E-05
124	ALL	630750	4179050	NonCancer	0.00E+00	1.93E-07	1.96E-05	0.00E+00	0.00E+00	1.97E-05	1.93E-07	0.00E+00	1.93E-07	0.00E+00	0.00E+00	1.96E-05	0.00E+00	0.00E+00	1.97E-05
125	ALL	630850	4179050	NonCancer	0.00E+00	1.95E-07	1.97E-05	0.00E+00	0.00E+00	1.98E-05	1.95E-07	0.00E+00	1.95E-07	0.00E+00	0.00E+00	1.97E-05	0.00E+00	0.00E+00	1.98E-05
126	ALL	630950	4179050	NonCancer	0.00E+00	2.11E-07	2.14E-05	0.00E+00	0.00E+00	2.15E-05	2.11E-07	0.00E+00	2.11E-07	0.00E+00	0.00E+00	2.14E-05	0.00E+00	0.00E+00	2.15E-05
127	ALL	631050	4179050	NonCancer	0.00E+00	2.40E-07	2.44E-05	0.00E+00	0.00E+00	2.45E-05	2.40E-07	0.00E+00	2.40E-07	0.00E+00	0.00E+00	2.44E-05	0.00E+00	0.00E+00	2.45E-05
128	ALL	631150	4179050	NonCancer	0.00E+00	2.44E-07	2.47E-05	0.00E+00	0.00E+00	2.48E-05	2.44E-07	0.00E+00	2.44E-07	0.00E+00	0.00E+00	2.47E-05	0.00E+00	0.00E+00	2.48E-05
129	ALL	631250	4179050	NonCancer	0.00E+00	2.46E-07	2.50E-05	0.00E+00	0.00E+00	2.51E-05	2.46E-07	0.00E+00	2.46E-07	0.00E+00	0.00E+00	2.50E-05	0.00E+00	0.00E+00	2.51E-05
130	ALL	631350	4179050	NonCancer	0.00E+00	2.53E-07	2.56E-05	0.00E+00	0.00E+00	2.57E-05	2.53E-07	0.00E+00	2.53E-07	0.00E+00	0.00E+00	2.56E-05	0.00E+00	0.00E+00	2.57E-05
131	ALL	631450	4179050	NonCancer	0.00E+00	2.53E-07	2.56E-05	0.00E+00	0.00E+00	2.57E-05	2.53E-07	0.00E+00	2.53E-07	0.00E+00	0.00E+00	2.56E-05	0.00E+00	0.00E+00	2.57E-05
132	ALL	631550	4179050	NonCancer	0.00E+00	2.59E-07	2.63E-05	0.00E+00	0.00E+00	2.64E-05	2.59E-07	0.00E+00	2.59E-07	0.00E+00	0.00E+00	2.63E-05	0.00E+00	0.00E+00	2.64E-05
133	ALL	631650	4179050	NonCancer	0.00E+00	2.38E-07	2.42E-05	0.00E+00	0.00E+00	2.43E-05	2.38E-07	0.00E+00	2.38E-07	0.00E+00	0.00E+00	2.42E-05	0.00E+00	0.00E+00	2.43E-05
134	ALL	631750	4179050	NonCancer	0.00E+00	2.67E-07	2.71E-05	0.00E+00	0.00E+00	2.72E-05	2.67E-07	0.00E+00	2.67E-07	0.00E+00	0.00E+00	2.71E-05	0.00E+00	0.00E+00	2.72E-05
135	ALL	631850	4179050	NonCancer	0.00E+00	2.67E-07	2.71E-05	0.00E+00	0.00E+00	2.72E-05	2.67E-07	0.00E+00	2.67E-07	0.00E+00	0.00E+00	2.71E-05	0.00E+00	0.00E+00	2.72E-05
136	ALL	631950	4179050	NonCancer	0.00E+00	2.73E-07	2.76E-05	0.00E+00	0.00E+00	2.77E-05	2.73E-07	0.00E+00	2.73E-07	0.00E+00	0.00E+00	2.76E-05	0.00E+00	0.00E+00	2.77E-05
137	ALL	632050	4179050	NonCancer	0.00E+00	3.23E-07	3.27E-05	0.00E+00	0.00E+00	3.28E-05	3.23E-07	0.00E+00	3.23E-07	0.00E+00	0.00E+00	3.27E-05	0.00E+00	0.00E+00	3.28E-05
138	ALL	632150	4179050	NonCancer	0.00E+00	2.81E-07	2.85E-05	0.00E+00	0.00E+00	2.86E-05	2.81E-07	0.00E+00	2.81E-07	0.00E+00	0.00E+00	2.85E-05	0.00E+00	0.00E+00	2.86E-05
139	ALL	629850	4179150	NonCancer	0.00E+00	1.54E-07	1.56E-05	0.00E+00	0.00E+00	1.57E-05	1.54E-07	0.00E+00	1.54E-07	0.00E+00	0.00E+00	1.56E-05	0.00E+00	0.00E+00	1.57E-05
140	ALL	629950	4179150	NonCancer	0.00E+00	1.54E-07	1.56E-05	0.00E+00	0.00E+00	1.56E-05	1.54E-07	0.00E+00	1.54E-07	0.00E+00	0.00E+00	1.56E-05	0.00E+00	0.00E+00	1.56E-05
141	ALL	630150	4179150	NonCancer	0.00E+00	2.12E-07	2.15E-05	0.00E+00	0.00E+00	2.16E-05	2.12E-07	0.00E+00	2.12E-07	0.00E+00	0.00E+00	2.15E-05	0.00E+00	0.00E+00	2.16E-05
142	ALL	630250	4179150	NonCancer	0.00E+00	2.27E-07	2.30E-05	0.00E+00	0.00E+00	2.31E-05	2.27E-07	0.00E+00	2.27E-07	0.00E+00	0.00E+00	2.30E-05	0.00E+00	0.00E+00	2.31E-05
143	ALL	630350	4179150	NonCancer	0.00E+00	2.10E-07	2.13E-05	0.00E+00	0.00E+00	2.13E-05	2.10E-07	0.00E+00	2.10E-07	0.00E+00	0.00E+00	2.13E-05	0.00E+00	0.00E+00	2.13E-05
144	ALL	630450	4179150	NonCancer	0.00E+00	1.77E-07	1.79E-05	0.00E+00	0.00E+00	1.80E-05	1.77E-07	0.00E+00	1.77E-07	0.00E+00	0.00E+00	1.79E-05	0.00E+00	0.00E+00	1.80E-05
145	ALL	630550	4179150	NonCancer	0.00E+00	1.80E-07	1.82E-05	0.00E+00	0.00E+00	1.83E-05	1.80E-07	0.00E+00	1.80E-07	0.00E+00	0.00E+00	1.82E-05	0.00E+00	0.00E+00	1.83E-05
146	ALL	630650	4179150	NonCancer	0.00E+00	1.82E-07	1.85E-05	0.00E+00	0.00E+00	1.86E-05	1.82E-07	0.00E+00	1.82E-07	0.00E+00	0.00E+00	1.85E-05	0.00E+00	0.00E+00	1.86E-05
147	ALL	630750	4179150	NonCancer	0.00E+00	1.85E-07	1.88E-05	0.00E+00	0.00E+00	1.88E-05	1.85E-07	0.00E+00	1.85E-07	0.00E+00	0.00E+00	1.88E-05	0.00E+00	0.00E+00	1.88E-05
148	ALL	630850	4179150	NonCancer	0.00E+00	1.82E-07	1.85E-05	0.00E+00	0.00E+00	1.85E-05	1.82E-07	0.00E+00	1.82E-07	0.00E+00	0.00E+00	1.85E-05	0.00E+00	0.00E+00	1.85E-05
149	ALL	630950	4179150	NonCancer	0.00E+00	2.22E-07	2.25E-05	0.00E+00	0.00E+00	2.26E-05	2.22E-07	0.00E+00	2.22E-07	0.00E+00	0.00E+00	2.25E-05	0.00E+00	0.00E+00	2.26E-05
150	ALL	631050	4179150	NonCancer	0.00E+00	2.29E-07	2.33E-05	0.00E+00	0.00E+00	2.34E-05	2.29E-07	0.00E+00	2.29E-07	0.00E+00	0.00E+00	2.33E-05	0.00E+00	0.00E+00	2.34E-05
151	ALL	631150	4179150	NonCancer	0.00E+00	2.27E-07	2.30E-05	0.00E+00	0.00E+00	2.31E-05	2.27E-07	0.00E+00	2.27E-07	0.00E+00	0.00E+00	2.30E-05	0.00E+00	0.00E+00	2.31E-05
152	ALL	631250	4179150	NonCancer	0.00E+00	2.39E-07	2.43E-05	0.00E+00	0.00E+00	2.44E-05	2.39E-07	0.00E+00	2.39E-07	0.00E+00	0.00E+00	2.43E-05	0.00E+00	0.00E+00	2.44E-05
153	ALL	631350	4179150	NonCancer	0.00E+00	2.39E-07	2.42E-05	0.00E+00	0.00E+00	2.43E-05	2.39E-07	0.00E+00	2.39E-07	0.00E+00	0.00E+00	2.42E-05	0.00E+00	0.00E+00	2.43E-05
154	ALL	631450	4179150	NonCancer	0.00E+00	2.48E-07	2.51E-05	0.00E+00	0.00E+00	2.52E-05	2.48E-07	0.00E+00	2.48E-07	0.00E+00	0.00E+00	2.51E-05	0.00E+00	0.00E+00	2.52E-05
155	ALL	631550	4179150	NonCancer	0.00E+00	2.47E-07	2.50E-05	0.00E+00	0.00E+00	2.51E-05	2.47E-07	0.00E+00	2.47E-07	0.00E+00	0.00E+00	2.50E-05	0.00E+00	0.00E+00	2.51E-05
156	ALL	631650	4179150	NonCancer	0.00E+00	2.41E-07	2.45E-05	0.00E+00	0.00E+00	2.46E-05	2.41E-07	0.00E+00	2.41E-07	0.00E+00	0.00E+00	2.45E-05	0.00E+00	0.00E+00	2.46E-05
157	ALL	631750	4179150	NonCancer	0.00E+00	2.54E-07	2.57E-05	0.00E+00	0.00E+00	2.58E-05	2.54E-07	0.00E+00	2.54E-07	0.00E+00	0.00E+00	2.57E-05	0.00E+00	0.00E+00	2.58E-05
158	ALL	631850	4179150	NonCancer	0.00E+00	2.60E-07	2.63E-05	0.00E+00	0.00E+00	2.64E-05	2.60E-07	0.00E+00	2.60E-07	0.00E+00	0.00E+00	2.63E-05	0.00E+00	0.00E+00	2.64E-05
159	ALL	631950	4179150	NonCancer	0.00E+00	2.61E-07	2.64E-05	0.00E+00	0.00E+00	2.65E-05	2.61E-07	0.00E+00	2.61E-07	0.00E+00	0.00E+00	2.64E-05	0.00E+00	0.00E+00	2.65E-05
160	ALL	632050	4179150	NonCancer	0.00E+00	3.00E-07	3.04E-05	0.00E+00	0.00E+00	3.05E-05	3.00E-07	0.00E+00	3.00E-07	0.00E+00	0.00E+00	3.04E-05	0.00E+00	0.00E+00	3.05E-05
161	ALL	632150	4179150	NonCancer	0.00E+00	2.66E-07	2.69E-05	0.00E+00	0.00E+00	2.70E-05	2.66E-07	0.00E+00	2.66E-07	0.00E+00	0.00E+00	2.69E-05	0.00E+00	0.00E+00	2.70E-05
162	ALL	630850	4179250	NonCancer	0.00E+00	2.00E-07	2.03E-05	0.00E+00	0.00E+00	2.03E-05	2.00E-07	0.00E+00	2.00E-07	0.00E+00	0.00E+00	2.03E-05	0.00E+00	0.00E+00	2.03E-05
163	ALL	630950	4179250	NonCancer	0.00E+00	2.21E-07	2.24E-05	0.00E+00	0.00E+00	2.25E-05	2.21E-07	0.00E+00	2.21E-07	0.00E+00	0.00E+00	2.24E-05	0.00E+00	0.00E+00	2.25E-05

164	ALL	631050	4177625	NonCancer	0.00E+00	3.94E-07	3.99E-05	0.00E+00	0.00E+00	4.01E-05	3.94E-07	0.00E+00	3.94E-07	0.00E+00	0.00E+00	3.99E-05	0.00E+00	0.00E+00	4.01E-05
165	ALL	631100	4177725	NonCancer	0.00E+00	3.98E-07	4.03E-05	0.00E+00	0.00E+00	4.05E-05	3.98E-07	0.00E+00	3.98E-07	0.00E+00	0.00E+00	4.03E-05	0.00E+00	0.00E+00	4.05E-05
166	ALL	631100	4177825	NonCancer	0.00E+00	3.40E-07	3.44E-05	0.00E+00	0.00E+00	3.46E-05	3.40E-07	0.00E+00	3.40E-07	0.00E+00	0.00E+00	3.44E-05	0.00E+00	0.00E+00	3.46E-05
167	ALL	631350	4178225	NonCancer	0.00E+00	3.28E-07	3.33E-05	0.00E+00	0.00E+00	3.34E-05	3.28E-07	0.00E+00	3.28E-07	0.00E+00	0.00E+00	3.33E-05	0.00E+00	0.00E+00	3.34E-05
168	ALL	631400	4178225	NonCancer	0.00E+00	3.19E-07	3.24E-05	0.00E+00	0.00E+00	3.25E-05	3.19E-07	0.00E+00	3.19E-07	0.00E+00	0.00E+00	3.24E-05	0.00E+00	0.00E+00	3.25E-05
169	ALL	631450	4178225	NonCancer	0.00E+00	3.47E-07	3.52E-05	0.00E+00	0.00E+00	3.53E-05	3.47E-07	0.00E+00	3.47E-07	0.00E+00	0.00E+00	3.52E-05	0.00E+00	0.00E+00	3.53E-05
170	ALL	631500	4178225	NonCancer	0.00E+00	3.81E-07	3.86E-05	0.00E+00	0.00E+00	3.88E-05	3.81E-07	0.00E+00	3.81E-07	0.00E+00	0.00E+00	3.86E-05	0.00E+00	0.00E+00	3.88E-05
171	ALL	631100	4178275	NonCancer	0.00E+00	2.76E-07	2.79E-05	0.00E+00	0.00E+00	2.81E-05	2.76E-07	0.00E+00	2.76E-07	0.00E+00	0.00E+00	2.79E-05	0.00E+00	0.00E+00	2.81E-05
172	ALL	631150	4178275	NonCancer	0.00E+00	2.81E-07	2.85E-05	0.00E+00	0.00E+00	2.86E-05	2.81E-07	0.00E+00	2.81E-07	0.00E+00	0.00E+00	2.85E-05	0.00E+00	0.00E+00	2.86E-05
173	ALL	631200	4178275	NonCancer	0.00E+00	2.75E-07	2.79E-05	0.00E+00	0.00E+00	2.80E-05	2.75E-07	0.00E+00	2.75E-07	0.00E+00	0.00E+00	2.79E-05	0.00E+00	0.00E+00	2.80E-05
174	ALL	631250	4178275	NonCancer	0.00E+00	2.88E-07	2.92E-05	0.00E+00	0.00E+00	2.93E-05	2.88E-07	0.00E+00	2.88E-07	0.00E+00	0.00E+00	2.92E-05	0.00E+00	0.00E+00	2.93E-05
175	ALL	631300	4178275	NonCancer	0.00E+00	3.06E-07	3.10E-05	0.00E+00	0.00E+00	3.12E-05	3.06E-07	0.00E+00	3.06E-07	0.00E+00	0.00E+00	3.10E-05	0.00E+00	0.00E+00	3.12E-05
176	ALL	631350	4178275	NonCancer	0.00E+00	3.09E-07	3.13E-05	0.00E+00	0.00E+00	3.14E-05	3.09E-07	0.00E+00	3.09E-07	0.00E+00	0.00E+00	3.13E-05	0.00E+00	0.00E+00	3.14E-05
177	ALL	631400	4178275	NonCancer	0.00E+00	3.17E-07	3.21E-05	0.00E+00	0.00E+00	3.22E-05	3.17E-07	0.00E+00	3.17E-07	0.00E+00	0.00E+00	3.21E-05	0.00E+00	0.00E+00	3.22E-05
178	ALL	631450	4178275	NonCancer	0.00E+00	3.56E-07	3.61E-05	0.00E+00	0.00E+00	3.62E-05	3.56E-07	0.00E+00	3.56E-07	0.00E+00	0.00E+00	3.61E-05	0.00E+00	0.00E+00	3.62E-05
179	ALL	631500	4178275	NonCancer	0.00E+00	3.72E-07	3.77E-05	0.00E+00	0.00E+00	3.79E-05	3.72E-07	0.00E+00	3.72E-07	0.00E+00	0.00E+00	3.77E-05	0.00E+00	0.00E+00	3.79E-05
180	ALL	630950	4178325	NonCancer	0.00E+00	2.75E-07	2.79E-05	0.00E+00	0.00E+00	2.80E-05	2.75E-07	0.00E+00	2.75E-07	0.00E+00	0.00E+00	2.79E-05	0.00E+00	0.00E+00	2.80E-05
181	ALL	631100	4178325	NonCancer	0.00E+00	2.72E-07	2.76E-05	0.00E+00	0.00E+00	2.77E-05	2.72E-07	0.00E+00	2.72E-07	0.00E+00	0.00E+00	2.76E-05	0.00E+00	0.00E+00	2.77E-05
182	ALL	631150	4178325	NonCancer	0.00E+00	2.68E-07	2.71E-05	0.00E+00	0.00E+00	2.72E-05	2.68E-07	0.00E+00	2.68E-07	0.00E+00	0.00E+00	2.71E-05	0.00E+00	0.00E+00	2.72E-05
183	ALL	631200	4178325	NonCancer	0.00E+00	2.77E-07	2.81E-05	0.00E+00	0.00E+00	2.82E-05	2.77E-07	0.00E+00	2.77E-07	0.00E+00	0.00E+00	2.81E-05	0.00E+00	0.00E+00	2.82E-05
184	ALL	631250	4178325	NonCancer	0.00E+00	2.85E-07	2.89E-05	0.00E+00	0.00E+00	2.90E-05	2.85E-07	0.00E+00	2.85E-07	0.00E+00	0.00E+00	2.89E-05	0.00E+00	0.00E+00	2.90E-05
185	ALL	631300	4178325	NonCancer	0.00E+00	2.96E-07	3.00E-05	0.00E+00	0.00E+00	3.01E-05	2.96E-07	0.00E+00	2.96E-07	0.00E+00	0.00E+00	3.00E-05	0.00E+00	0.00E+00	3.01E-05
186	ALL	631400	4178325	NonCancer	0.00E+00	3.30E-07	3.34E-05	0.00E+00	0.00E+00	3.36E-05	3.30E-07	0.00E+00	3.30E-07	0.00E+00	0.00E+00	3.34E-05	0.00E+00	0.00E+00	3.36E-05
187	ALL	631450	4178325	NonCancer	0.00E+00	3.55E-07	3.60E-05	0.00E+00	0.00E+00	3.62E-05	3.55E-07	0.00E+00	3.55E-07	0.00E+00	0.00E+00	3.60E-05	0.00E+00	0.00E+00	3.62E-05
188	ALL	631500	4178325	NonCancer	0.00E+00	3.57E-07	3.62E-05	0.00E+00	0.00E+00	3.63E-05	3.57E-07	0.00E+00	3.57E-07	0.00E+00	0.00E+00	3.62E-05	0.00E+00	0.00E+00	3.63E-05
189	ALL	630950	4178375	NonCancer	0.00E+00	2.54E-07	2.57E-05	0.00E+00	0.00E+00	2.59E-05	2.54E-07	0.00E+00	2.54E-07	0.00E+00	0.00E+00	2.57E-05	0.00E+00	0.00E+00	2.59E-05
190	ALL	631200	4178375	NonCancer	0.00E+00	2.72E-07	2.76E-05	0.00E+00	0.00E+00	2.77E-05	2.72E-07	0.00E+00	2.72E-07	0.00E+00	0.00E+00	2.76E-05	0.00E+00	0.00E+00	2.77E-05
191	ALL	631300	4178375	NonCancer	0.00E+00	2.78E-07	2.82E-05	0.00E+00	0.00E+00	2.83E-05	2.78E-07	0.00E+00	2.78E-07	0.00E+00	0.00E+00	2.82E-05	0.00E+00	0.00E+00	2.83E-05
192	ALL	631400	4178375	NonCancer	0.00E+00	3.35E-07	3.40E-05	0.00E+00	0.00E+00	3.41E-05	3.35E-07	0.00E+00	3.35E-07	0.00E+00	0.00E+00	3.40E-05	0.00E+00	0.00E+00	3.41E-05
193	ALL	631450	4178375	NonCancer	0.00E+00	3.46E-07	3.51E-05	0.00E+00	0.00E+00	3.52E-05	3.46E-07	0.00E+00	3.46E-07	0.00E+00	0.00E+00	3.51E-05	0.00E+00	0.00E+00	3.52E-05
194	ALL	631500	4178375	NonCancer	0.00E+00	3.50E-07	3.55E-05	0.00E+00	0.00E+00	3.56E-05	3.50E-07	0.00E+00	3.50E-07	0.00E+00	0.00E+00	3.55E-05	0.00E+00	0.00E+00	3.56E-05
195	ALL	630800	4178425	NonCancer	0.00E+00	2.76E-07	2.79E-05	0.00E+00	0.00E+00	2.81E-05	2.76E-07	0.00E+00	2.76E-07	0.00E+00	0.00E+00	2.79E-05	0.00E+00	0.00E+00	2.81E-05
196	ALL	630850	4178425	NonCancer	0.00E+00	2.73E-07	2.76E-05	0.00E+00	0.00E+00	2.77E-05	2.73E-07	0.00E+00	2.73E-07	0.00E+00	0.00E+00	2.76E-05	0.00E+00	0.00E+00	2.77E-05
197	ALL	631050	4178425	NonCancer	0.00E+00	2.56E-07	2.60E-05	0.00E+00	0.00E+00	2.61E-05	2.56E-07	0.00E+00	2.56E-07	0.00E+00	0.00E+00	2.60E-05	0.00E+00	0.00E+00	2.61E-05
198	ALL	631200	4178425	NonCancer	0.00E+00	2.65E-07	2.68E-05	0.00E+00	0.00E+00	2.69E-05	2.65E-07	0.00E+00	2.65E-07	0.00E+00	0.00E+00	2.68E-05	0.00E+00	0.00E+00	2.69E-05
199	ALL	631250	4178425	NonCancer	0.00E+00	2.69E-07	2.73E-05	0.00E+00	0.00E+00	2.74E-05	2.69E-07	0.00E+00	2.69E-07	0.00E+00	0.00E+00	2.73E-05	0.00E+00	0.00E+00	2.74E-05
200	ALL	631300	4178425	NonCancer	0.00E+00	2.79E-07	2.82E-05	0.00E+00	0.00E+00	2.83E-05	2.79E-07	0.00E+00	2.79E-07	0.00E+00	0.00E+00	2.82E-05	0.00E+00	0.00E+00	2.83E-05
201	ALL	630650	4178475	NonCancer	0.00E+00	2.34E-07	2.37E-05	0.00E+00	0.00E+00	2.38E-05	2.34E-07	0.00E+00	2.34E-07	0.00E+00	0.00E+00	2.37E-05	0.00E+00	0.00E+00	2.38E-05
202	ALL	630800	4178475	NonCancer	0.00E+00	2.70E-07	2.74E-05	0.00E+00	0.00E+00	2.75E-05	2.70E-07	0.00E+00	2.70E-07	0.00E+00	0.00E+00	2.74E-05	0.00E+00	0.00E+00	2.75E-05
203	ALL	630850	4178475	NonCancer	0.00E+00	2.57E-07	2.60E-05	0.00E+00	0.00E+00	2.61E-05	2.57E-07	0.00E+00	2.57E-07	0.00E+00	0.00E+00	2.60E-05	0.00E+00	0.00E+00	2.61E-05
204	ALL	631050	4178475	NonCancer	0.00E+00	2.45E-07	2.48E-05	0.00E+00	0.00E+00	2.49E-05	2.45E-07	0.00E+00	2.45E-07	0.00E+00	0.00E+00	2.48E-05	0.00E+00	0.00E+00	2.49E-05
205	ALL	631200	4178475	NonCancer	0.00E+00	2.59E-07	2.62E-05	0.00E+00	0.00E+00	2.63E-05	2.59E-07	0.00E+00	2.59E-07	0.00E+00	0.00E+00	2.62E-05	0.00E+00	0.00E+00	2.63E-05
206	ALL	631250	4178475	NonCancer	0.00E+00	2.54E-07	2.57E-05	0.00E+00	0.00E+00	2.59E-05	2.54E-07	0.00E+00	2.54E-07	0.00E+00	0.00E+00	2.57E-05	0.00E+00	0.00E+00	2.59E-05
207	ALL	631300	4178475	NonCancer	0.00E+00	2.92E-07	2.96E-05	0.00E+00	0.00E+00	2.97E-05	2.92E-07	0.00E+00	2.92E-07	0.00E+00	0.00E+00	2.96E-05	0.00E+00	0.00E+00	2.97E-05
208	ALL	631450	4178475	NonCancer	0.00E+00	3.28E-07	3.32E-05	0.00E+00	0.00E+00	3.34E-05	3.28E-07	0.00E+00	3.28E-07	0.00E+00	0.00E+00	3.32E-05	0.00E+00	0.00E+00	3.34E-05
209	ALL	631500	4178475	NonCancer	0.00E+00	3.17E-07	3.22E-05	0.00E+00	0.00E+00	3.23E-05	3.17E-07	0.00E+00	3.17E-07	0.00E+00	0.00E+00	3.22E-05	0.00E+00	0.00E+00	3.23E-05
210	ALL	630550	4178525	NonCancer	0.00E+00	2.18E-07	2.21E-05	0.00E+00	0.00E+00	2.22E-05	2.18E-07	0.00E+00	2.18E-07	0.00E+00	0.00E+00	2.21E-05	0.00E+00	0.00E+00	2.22E-05
211	ALL	630600	4178525	NonCancer	0.00E+00	2.25E-07	2.28E-05	0.00E+00	0.00E+00	2.29E-05	2.25E-07	0.00E+00	2.25E-07	0.00E+00	0.00E+00	2.28E-05	0.00E+00	0.00E+00	2.29E-05
212	ALL	630650	4178525	NonCancer	0.00E+00	2.49E-07	2.52E-05	0.00E+00	0.00E+00	2.53E-05	2.49E-07	0.00E+00	2.49E-07	0.00E+00	0.00E+00	2.52E-05	0.00E+00	0.00E+00	2.53E-05
213	ALL	630700	4178525	NonCancer	0.00E+00	2.64E-07	2.68E-05	0.00E+00	0.00E+00	2.69E-05	2.64E-07	0.00E+00	2.64E-07	0.00E+00	0.00E+00	2.68E-05	0.00E+00	0.00E+00	2.69E-05
214	ALL	630750	4178525	NonCancer	0.00E+00	2.67E-07	2.71E-05	0.00E+00	0.00E+00	2.72E-05	2.67E-07	0.00E+00	2.67E-07	0.00E+00	0.00E+00	2.71E-05	0.00E+00	0.00E+00	2.72E-05
215	ALL	630950	4178525	NonCancer	0.00E+00	2.42E-07	2.45E-05	0.00E+00	0.00E+00	2.46E-05	2.42E-07	0.00E+00	2.42E-07	0.00E+00	0.00E+00	2.45E-05	0.00E+00	0.00E+00	2.46E-05
216	ALL	631050	4178525	NonCancer	0.00E+00	2.43E-07	2.46E-05	0.00E+00	0.00E+00	2.47E-05	2.43E-07	0.00E+00	2.43E-07	0.00E+00	0.00E+00	2.46E-05	0.00E+00	0.00E+00	2.47E-05
217	ALL	631200	4178525	NonCancer	0.00E+00	2.50E-07	2.53E-05	0.00E+00	0.00E+00	2.54E-05	2.50E-07	0.00E+00	2.50E-07	0.00E+00	0.00E+00	2.53E-05	0.00E+00	0.00E+00	2.54E-05
218	ALL	631250	4178525	NonCancer	0.00E+00	2.70E-07	2.73E-05	0.00E+00	0.00E+00	2.74E-05	2.70E-07	0.00E+00	2.70E-07	0.00E+00	0.00E+00	2.73E-05	0.00E+00	0.00E+00	2.74E-05

219	ALL	631300	4178525	NonCancer	0.00E+00	2.99E-07	3.03E-05	0.00E+00	0.00E+00	3.05E-05	2.99E-07	0.00E+00	2.99E-07	0.00E+00	0.00E+00	3.03E-05	0.00E+00	0.00E+00	3.05E-05
220	ALL	631350	4178525	NonCancer	0.00E+00	3.14E-07	3.18E-05	0.00E+00	0.00E+00	3.20E-05	3.14E-07	0.00E+00	3.14E-07	0.00E+00	0.00E+00	3.18E-05	0.00E+00	0.00E+00	3.20E-05
221	ALL	631400	4178525	NonCancer	0.00E+00	3.15E-07	3.20E-05	0.00E+00	0.00E+00	3.21E-05	3.15E-07	0.00E+00	3.15E-07	0.00E+00	0.00E+00	3.20E-05	0.00E+00	0.00E+00	3.21E-05
222	ALL	631450	4178525	NonCancer	0.00E+00	3.16E-07	3.20E-05	0.00E+00	0.00E+00	3.21E-05	3.16E-07	0.00E+00	3.16E-07	0.00E+00	0.00E+00	3.20E-05	0.00E+00	0.00E+00	3.21E-05
223	ALL	631500	4178525	NonCancer	0.00E+00	3.18E-07	3.23E-05	0.00E+00	0.00E+00	3.24E-05	3.18E-07	0.00E+00	3.18E-07	0.00E+00	0.00E+00	3.23E-05	0.00E+00	0.00E+00	3.24E-05
224	ALL	630500	4178575	NonCancer	0.00E+00	2.12E-07	2.14E-05	0.00E+00	0.00E+00	2.15E-05	2.12E-07	0.00E+00	2.12E-07	0.00E+00	0.00E+00	2.14E-05	0.00E+00	0.00E+00	2.15E-05
225	ALL	630550	4178575	NonCancer	0.00E+00	2.16E-07	2.19E-05	0.00E+00	0.00E+00	2.20E-05	2.16E-07	0.00E+00	2.16E-07	0.00E+00	0.00E+00	2.19E-05	0.00E+00	0.00E+00	2.20E-05
226	ALL	630600	4178575	NonCancer	0.00E+00	2.42E-07	2.45E-05	0.00E+00	0.00E+00	2.46E-05	2.42E-07	0.00E+00	2.42E-07	0.00E+00	0.00E+00	2.45E-05	0.00E+00	0.00E+00	2.46E-05
227	ALL	630650	4178575	NonCancer	0.00E+00	2.57E-07	2.60E-05	0.00E+00	0.00E+00	2.61E-05	2.57E-07	0.00E+00	2.57E-07	0.00E+00	0.00E+00	2.60E-05	0.00E+00	0.00E+00	2.61E-05
228	ALL	630700	4178575	NonCancer	0.00E+00	2.63E-07	2.67E-05	0.00E+00	0.00E+00	2.68E-05	2.63E-07	0.00E+00	2.63E-07	0.00E+00	0.00E+00	2.67E-05	0.00E+00	0.00E+00	2.68E-05
229	ALL	630750	4178575	NonCancer	0.00E+00	2.57E-07	2.60E-05	0.00E+00	0.00E+00	2.61E-05	2.57E-07	0.00E+00	2.57E-07	0.00E+00	0.00E+00	2.60E-05	0.00E+00	0.00E+00	2.61E-05
230	ALL	630800	4178575	NonCancer	0.00E+00	2.37E-07	2.41E-05	0.00E+00	0.00E+00	2.42E-05	2.37E-07	0.00E+00	2.37E-07	0.00E+00	0.00E+00	2.41E-05	0.00E+00	0.00E+00	2.42E-05
231	ALL	630850	4178575	NonCancer	0.00E+00	2.32E-07	2.35E-05	0.00E+00	0.00E+00	2.36E-05	2.32E-07	0.00E+00	2.32E-07	0.00E+00	0.00E+00	2.35E-05	0.00E+00	0.00E+00	2.36E-05
232	ALL	631000	4178575	NonCancer	0.00E+00	2.32E-07	2.35E-05	0.00E+00	0.00E+00	2.36E-05	2.32E-07	0.00E+00	2.32E-07	0.00E+00	0.00E+00	2.35E-05	0.00E+00	0.00E+00	2.36E-05
233	ALL	631050	4178575	NonCancer	0.00E+00	2.42E-07	2.46E-05	0.00E+00	0.00E+00	2.46E-05	2.42E-07	0.00E+00	2.42E-07	0.00E+00	0.00E+00	2.46E-05	0.00E+00	0.00E+00	2.46E-05
234	ALL	631200	4178575	NonCancer	0.00E+00	2.48E-07	2.51E-05	0.00E+00	0.00E+00	2.52E-05	2.48E-07	0.00E+00	2.48E-07	0.00E+00	0.00E+00	2.51E-05	0.00E+00	0.00E+00	2.52E-05
235	ALL	631250	4178575	NonCancer	0.00E+00	2.80E-07	2.84E-05	0.00E+00	0.00E+00	2.85E-05	2.80E-07	0.00E+00	2.80E-07	0.00E+00	0.00E+00	2.84E-05	0.00E+00	0.00E+00	2.85E-05
236	ALL	631300	4178575	NonCancer	0.00E+00	3.01E-07	3.05E-05	0.00E+00	0.00E+00	3.06E-05	3.01E-07	0.00E+00	3.01E-07	0.00E+00	0.00E+00	3.05E-05	0.00E+00	0.00E+00	3.06E-05
237	ALL	631350	4178575	NonCancer	0.00E+00	3.05E-07	3.09E-05	0.00E+00	0.00E+00	3.11E-05	3.05E-07	0.00E+00	3.05E-07	0.00E+00	0.00E+00	3.09E-05	0.00E+00	0.00E+00	3.11E-05
238	ALL	631400	4178575	NonCancer	0.00E+00	3.09E-07	3.13E-05	0.00E+00	0.00E+00	3.14E-05	3.09E-07	0.00E+00	3.09E-07	0.00E+00	0.00E+00	3.13E-05	0.00E+00	0.00E+00	3.14E-05
239	ALL	631450	4178575	NonCancer	0.00E+00	2.99E-07	3.03E-05	0.00E+00	0.00E+00	3.04E-05	2.99E-07	0.00E+00	2.99E-07	0.00E+00	0.00E+00	3.03E-05	0.00E+00	0.00E+00	3.04E-05
240	ALL	631500	4178575	NonCancer	0.00E+00	3.16E-07	3.21E-05	0.00E+00	0.00E+00	3.22E-05	3.16E-07	0.00E+00	3.16E-07	0.00E+00	0.00E+00	3.21E-05	0.00E+00	0.00E+00	3.22E-05
241	ALL	630500	4178625	NonCancer	0.00E+00	2.09E-07	2.12E-05	0.00E+00	0.00E+00	2.13E-05	2.09E-07	0.00E+00	2.09E-07	0.00E+00	0.00E+00	2.12E-05	0.00E+00	0.00E+00	2.13E-05
242	ALL	630550	4178625	NonCancer	0.00E+00	2.34E-07	2.37E-05	0.00E+00	0.00E+00	2.38E-05	2.34E-07	0.00E+00	2.34E-07	0.00E+00	0.00E+00	2.37E-05	0.00E+00	0.00E+00	2.38E-05
243	ALL	630600	4178625	NonCancer	0.00E+00	2.52E-07	2.55E-05	0.00E+00	0.00E+00	2.56E-05	2.52E-07	0.00E+00	2.52E-07	0.00E+00	0.00E+00	2.55E-05	0.00E+00	0.00E+00	2.56E-05
244	ALL	630650	4178625	NonCancer	0.00E+00	2.58E-07	2.62E-05	0.00E+00	0.00E+00	2.63E-05	2.58E-07	0.00E+00	2.58E-07	0.00E+00	0.00E+00	2.62E-05	0.00E+00	0.00E+00	2.63E-05
245	ALL	630700	4178625	NonCancer	0.00E+00	2.55E-07	2.58E-05	0.00E+00	0.00E+00	2.60E-05	2.55E-07	0.00E+00	2.55E-07	0.00E+00	0.00E+00	2.58E-05	0.00E+00	0.00E+00	2.60E-05
246	ALL	630750	4178625	NonCancer	0.00E+00	2.40E-07	2.43E-05	0.00E+00	0.00E+00	2.44E-05	2.40E-07	0.00E+00	2.40E-07	0.00E+00	0.00E+00	2.43E-05	0.00E+00	0.00E+00	2.44E-05
247	ALL	630800	4178625	NonCancer	0.00E+00	2.25E-07	2.28E-05	0.00E+00	0.00E+00	2.29E-05	2.25E-07	0.00E+00	2.25E-07	0.00E+00	0.00E+00	2.28E-05	0.00E+00	0.00E+00	2.29E-05
248	ALL	630850	4178625	NonCancer	0.00E+00	2.26E-07	2.29E-05	0.00E+00	0.00E+00	2.30E-05	2.26E-07	0.00E+00	2.26E-07	0.00E+00	0.00E+00	2.29E-05	0.00E+00	0.00E+00	2.30E-05
249	ALL	631000	4178625	NonCancer	0.00E+00	2.34E-07	2.37E-05	0.00E+00	0.00E+00	2.38E-05	2.34E-07	0.00E+00	2.34E-07	0.00E+00	0.00E+00	2.37E-05	0.00E+00	0.00E+00	2.38E-05
250	ALL	631050	4178625	NonCancer	0.00E+00	2.37E-07	2.40E-05	0.00E+00	0.00E+00	2.41E-05	2.37E-07	0.00E+00	2.37E-07	0.00E+00	0.00E+00	2.40E-05	0.00E+00	0.00E+00	2.41E-05
251	ALL	631100	4178625	NonCancer	0.00E+00	2.38E-07	2.41E-05	0.00E+00	0.00E+00	2.42E-05	2.38E-07	0.00E+00	2.38E-07	0.00E+00	0.00E+00	2.41E-05	0.00E+00	0.00E+00	2.42E-05
252	ALL	631150	4178625	NonCancer	0.00E+00	2.35E-07	2.38E-05	0.00E+00	0.00E+00	2.39E-05	2.35E-07	0.00E+00	2.35E-07	0.00E+00	0.00E+00	2.38E-05	0.00E+00	0.00E+00	2.39E-05
253	ALL	631200	4178625	NonCancer	0.00E+00	2.61E-07	2.64E-05	0.00E+00	0.00E+00	2.65E-05	2.61E-07	0.00E+00	2.61E-07	0.00E+00	0.00E+00	2.64E-05	0.00E+00	0.00E+00	2.65E-05
254	ALL	631250	4178625	NonCancer	0.00E+00	2.86E-07	2.90E-05	0.00E+00	0.00E+00	2.91E-05	2.86E-07	0.00E+00	2.86E-07	0.00E+00	0.00E+00	2.90E-05	0.00E+00	0.00E+00	2.91E-05
255	ALL	631300	4178625	NonCancer	0.00E+00	2.97E-07	3.01E-05	0.00E+00	0.00E+00	3.02E-05	2.97E-07	0.00E+00	2.97E-07	0.00E+00	0.00E+00	3.01E-05	0.00E+00	0.00E+00	3.02E-05
256	ALL	631350	4178625	NonCancer	0.00E+00	2.99E-07	3.03E-05	0.00E+00	0.00E+00	3.04E-05	2.99E-07	0.00E+00	2.99E-07	0.00E+00	0.00E+00	3.03E-05	0.00E+00	0.00E+00	3.04E-05
257	ALL	631400	4178625	NonCancer	0.00E+00	2.98E-07	3.02E-05	0.00E+00	0.00E+00	3.03E-05	2.98E-07	0.00E+00	2.98E-07	0.00E+00	0.00E+00	3.02E-05	0.00E+00	0.00E+00	3.03E-05
258	ALL	631450	4178625	NonCancer	0.00E+00	3.01E-07	3.05E-05	0.00E+00	0.00E+00	3.06E-05	3.01E-07	0.00E+00	3.01E-07	0.00E+00	0.00E+00	3.05E-05	0.00E+00	0.00E+00	3.06E-05
259	ALL	631500	4178625	NonCancer	0.00E+00	3.09E-07	3.13E-05	0.00E+00	0.00E+00	3.15E-05	3.09E-07	0.00E+00	3.09E-07	0.00E+00	0.00E+00	3.13E-05	0.00E+00	0.00E+00	3.15E-05
260	ALL	631100	4175700	NonCancer	0.00E+00	1.09E-06	1.10E-04	0.00E+00	0.00E+00	1.11E-04	1.09E-06	0.00E+00	1.09E-06	0.00E+00	0.00E+00	1.10E-04	0.00E+00	0.00E+00	1.11E-04
261	ALL	631150	4175700	NonCancer	0.00E+00	1.13E-06	1.15E-04	0.00E+00	0.00E+00	1.15E-04	1.13E-06	0.00E+00	1.13E-06	0.00E+00	0.00E+00	1.15E-04	0.00E+00	0.00E+00	1.15E-04
262	ALL	631200	4175700	NonCancer	0.00E+00	1.19E-06	1.20E-04	0.00E+00	0.00E+00	1.21E-04	1.19E-06	0.00E+00	1.19E-06	0.00E+00	0.00E+00	1.20E-04	0.00E+00	0.00E+00	1.21E-04
263	ALL	631250	4175700	NonCancer	0.00E+00	1.23E-06	1.25E-04	0.00E+00	0.00E+00	1.26E-04	1.23E-06	0.00E+00	1.23E-06	0.00E+00	0.00E+00	1.25E-04	0.00E+00	0.00E+00	1.26E-04
264	ALL	631100	4175750	NonCancer	0.00E+00	9.54E-07	9.67E-05	0.00E+00	0.00E+00	9.71E-05	9.54E-07	0.00E+00	9.54E-07	0.00E+00	0.00E+00	9.67E-05	0.00E+00	0.00E+00	9.71E-05
265	ALL	631150	4175750	NonCancer	0.00E+00	9.89E-07	1.00E-04	0.00E+00	0.00E+00	1.01E-04	9.89E-07	0.00E+00	9.89E-07	0.00E+00	0.00E+00	1.00E-04	0.00E+00	0.00E+00	1.01E-04
266	ALL	629400	4179050	NonCancer	0.00E+00	1.42E-07	1.44E-05	0.00E+00	0.00E+00	1.45E-05	1.42E-07	0.00E+00	1.42E-07	0.00E+00	0.00E+00	1.44E-05	0.00E+00	0.00E+00	1.45E-05
267	ALL	629450	4179050	NonCancer	0.00E+00	1.47E-07	1.49E-05	0.00E+00	0.00E+00	1.49E-05	1.47E-07	0.00E+00	1.47E-07	0.00E+00	0.00E+00	1.49E-05	0.00E+00	0.00E+00	1.49E-05
268	ALL	629500	4179050	NonCancer	0.00E+00	1.49E-07	1.51E-05	0.00E+00	0.00E+00	1.52E-05	1.49E-07	0.00E+00	1.49E-07	0.00E+00	0.00E+00	1.51E-05	0.00E+00	0.00E+00	1.52E-05
269	ALL	629400	4179100	NonCancer	0.00E+00	1.44E-07	1.46E-05	0.00E+00	0.00E+00	1.46E-05	1.44E-07	0.00E+00	1.44E-07	0.00E+00	0.00E+00	1.46E-05	0.00E+00	0.00E+00	1.46E-05
270	ALL	629450	4179100	NonCancer	0.00E+00	1.46E-07	1.48E-05	0.00E+00	0.00E+00	1.49E-05	1.46E-07	0.00E+00	1.46E-07	0.00E+00	0.00E+00	1.48E-05	0.00E+00	0.00E+00	1.49E-05
271	ALL	629400	4179150	NonCancer	0.00E+00	1.43E-07	1.45E-05	0.00E+00	0.00E+00	1.45E-05	1.43E-07	0.00E+00	1.43E-07	0.00E+00	0.00E+00	1.45E-05	0.00E+00	0.00E+00	1.45E-05
272	ALL	629500	4179150	NonCancer	0.00E+00	1.46E-07	1.48E-05	0.00E+00	0.00E+00	1.49E-05	1.46E-07	0.00E+00	1.46E-07	0.00E+00	0.00E+00	1.48E-05	0.00E+00	0.00E+00	1.49E-05
273	ALL	629550	4179150	NonCancer	0.00E+00	1.47E-07	1.49E-05	0.00E+00	0.00E+00	1.49E-05	1.47E-07	0.00E+00	1.47E-07	0.00E+00	0.00E+00	1.49E-05	0.00E+00	0.00E+00	1.49E-05

274	ALL	629600	4179150	NonCancer	0.00E+00	1.50E-07	1.52E-05	0.00E+00	0.00E+00	1.53E-05	1.50E-07	0.00E+00	1.50E-07	0.00E+00	0.00E+00	1.52E-05	0.00E+00	0.00E+00	1.53E-05
275	ALL	629650	4179150	NonCancer	0.00E+00	1.58E-07	1.60E-05	0.00E+00	0.00E+00	1.60E-05	1.58E-07	0.00E+00	1.58E-07	0.00E+00	0.00E+00	1.60E-05	0.00E+00	0.00E+00	1.60E-05
276	ALL	629700	4179150	NonCancer	0.00E+00	1.62E-07	1.64E-05	0.00E+00	0.00E+00	1.65E-05	1.62E-07	0.00E+00	1.62E-07	0.00E+00	0.00E+00	1.64E-05	0.00E+00	0.00E+00	1.65E-05
277	ALL	629800	4179200	NonCancer	0.00E+00	1.53E-07	1.55E-05	0.00E+00	0.00E+00	1.56E-05	1.53E-07	0.00E+00	1.53E-07	0.00E+00	0.00E+00	1.55E-05	0.00E+00	0.00E+00	1.56E-05
278	ALL	629400	4179300	NonCancer	0.00E+00	1.38E-07	1.39E-05	0.00E+00	0.00E+00	1.40E-05	1.38E-07	0.00E+00	1.38E-07	0.00E+00	0.00E+00	1.39E-05	0.00E+00	0.00E+00	1.40E-05
279	ALL	629400	4179350	NonCancer	0.00E+00	1.41E-07	1.43E-05	0.00E+00	0.00E+00	1.44E-05	1.41E-07	0.00E+00	1.41E-07	0.00E+00	0.00E+00	1.43E-05	0.00E+00	0.00E+00	1.44E-05
280	ALL	634375	4175350	NonCancer	0.00E+00	2.61E-06	2.65E-04	0.00E+00	0.00E+00	2.66E-04	2.61E-06	0.00E+00	2.61E-06	0.00E+00	0.00E+00	2.65E-04	0.00E+00	0.00E+00	2.66E-04
281	ALL	634425	4175350	NonCancer	0.00E+00	2.34E-06	2.37E-04	0.00E+00	0.00E+00	2.38E-04	2.34E-06	0.00E+00	2.34E-06	0.00E+00	0.00E+00	2.37E-04	0.00E+00	0.00E+00	2.38E-04
282	ALL	635425	4175350	NonCancer	0.00E+00	4.63E-07	4.69E-05	0.00E+00	0.00E+00	4.71E-05	4.63E-07	0.00E+00	4.63E-07	0.00E+00	0.00E+00	4.69E-05	0.00E+00	0.00E+00	4.71E-05
283	ALL	635425	4175400	NonCancer	0.00E+00	5.06E-07	5.13E-05	0.00E+00	0.00E+00	5.15E-05	5.06E-07	0.00E+00	5.06E-07	0.00E+00	0.00E+00	5.13E-05	0.00E+00	0.00E+00	5.15E-05
284	ALL	635475	4175400	NonCancer	0.00E+00	4.92E-07	4.99E-05	0.00E+00	0.00E+00	5.01E-05	4.92E-07	0.00E+00	4.92E-07	0.00E+00	0.00E+00	4.99E-05	0.00E+00	0.00E+00	5.01E-05
285	ALL	634325	4175450	NonCancer	0.00E+00	2.71E-06	2.74E-04	0.00E+00	0.00E+00	2.75E-04	2.71E-06	0.00E+00	2.71E-06	0.00E+00	0.00E+00	2.74E-04	0.00E+00	0.00E+00	2.75E-04
286	ALL	634475	4175450	NonCancer	0.00E+00	2.66E-06	2.70E-04	0.00E+00	0.00E+00	2.71E-04	2.66E-06	0.00E+00	2.66E-06	0.00E+00	0.00E+00	2.70E-04	0.00E+00	0.00E+00	2.71E-04
287	ALL	634525	4175450	NonCancer	0.00E+00	2.56E-06	2.59E-04	0.00E+00	0.00E+00	2.60E-04	2.56E-06	0.00E+00	2.56E-06	0.00E+00	0.00E+00	2.59E-04	0.00E+00	0.00E+00	2.60E-04
288	ALL	634525	4175500	NonCancer	0.00E+00	1.97E-06	2.00E-04	0.00E+00	0.00E+00	2.01E-04	1.97E-06	0.00E+00	1.97E-06	0.00E+00	0.00E+00	2.00E-04	0.00E+00	0.00E+00	2.01E-04
289	ALL	634325	4175550	NonCancer	0.00E+00	2.46E-06	2.49E-04	0.00E+00	0.00E+00	2.50E-04	2.46E-06	0.00E+00	2.46E-06	0.00E+00	0.00E+00	2.49E-04	0.00E+00	0.00E+00	2.50E-04
290	ALL	634525	4175550	NonCancer	0.00E+00	2.50E-06	2.53E-04	0.00E+00	0.00E+00	2.54E-04	2.50E-06	0.00E+00	2.50E-06	0.00E+00	0.00E+00	2.53E-04	0.00E+00	0.00E+00	2.54E-04
291	ALL	634575	4175550	NonCancer	0.00E+00	2.42E-06	2.45E-04	0.00E+00	0.00E+00	2.46E-04	2.42E-06	0.00E+00	2.42E-06	0.00E+00	0.00E+00	2.45E-04	0.00E+00	0.00E+00	2.46E-04
292	ALL	634775	4175550	NonCancer	0.00E+00	1.86E-06	1.88E-04	0.00E+00	0.00E+00	1.89E-04	1.86E-06	0.00E+00	1.86E-06	0.00E+00	0.00E+00	1.88E-04	0.00E+00	0.00E+00	1.89E-04
293	ALL	634825	4175550	NonCancer	0.00E+00	1.69E-06	1.72E-04	0.00E+00	0.00E+00	1.72E-04	1.69E-06	0.00E+00	1.69E-06	0.00E+00	0.00E+00	1.72E-04	0.00E+00	0.00E+00	1.72E-04
294	ALL	634625	4175600	NonCancer	0.00E+00	2.35E-06	2.38E-04	0.00E+00	0.00E+00	2.39E-04	2.35E-06	0.00E+00	2.35E-06	0.00E+00	0.00E+00	2.38E-04	0.00E+00	0.00E+00	2.39E-04
295	ALL	634675	4175600	NonCancer	0.00E+00	2.16E-06	2.19E-04	0.00E+00	0.00E+00	2.19E-04	2.16E-06	0.00E+00	2.16E-06	0.00E+00	0.00E+00	2.19E-04	0.00E+00	0.00E+00	2.19E-04
296	ALL	634725	4175600	NonCancer	0.00E+00	1.97E-06	2.00E-04	0.00E+00	0.00E+00	2.00E-04	1.97E-06	0.00E+00	1.97E-06	0.00E+00	0.00E+00	2.00E-04	0.00E+00	0.00E+00	2.00E-04
297	ALL	634775	4175600	NonCancer	0.00E+00	1.78E-06	1.80E-04	0.00E+00	0.00E+00	1.81E-04	1.78E-06	0.00E+00	1.78E-06	0.00E+00	0.00E+00	1.80E-04	0.00E+00	0.00E+00	1.81E-04
298	ALL	634825	4175600	NonCancer	0.00E+00	1.60E-06	1.62E-04	0.00E+00	0.00E+00	1.63E-04	1.60E-06	0.00E+00	1.60E-06	0.00E+00	0.00E+00	1.62E-04	0.00E+00	0.00E+00	1.63E-04
299	ALL	634875	4175600	NonCancer	0.00E+00	1.43E-06	1.45E-04	0.00E+00	0.00E+00	1.46E-04	1.43E-06	0.00E+00	1.43E-06	0.00E+00	0.00E+00	1.45E-04	0.00E+00	0.00E+00	1.46E-04
300	ALL	634925	4175600	NonCancer	0.00E+00	1.28E-06	1.29E-04	0.00E+00	0.00E+00	1.30E-04	1.28E-06	0.00E+00	1.28E-06	0.00E+00	0.00E+00	1.29E-04	0.00E+00	0.00E+00	1.30E-04
301	ALL	635375	4175600	NonCancer	0.00E+00	4.28E-07	4.34E-05	0.00E+00	0.00E+00	4.36E-05	4.28E-07	0.00E+00	4.28E-07	0.00E+00	0.00E+00	4.34E-05	0.00E+00	0.00E+00	4.36E-05
302	ALL	634275	4175650	NonCancer	0.00E+00	3.35E-06	3.39E-04	0.00E+00	0.00E+00	3.40E-04	3.35E-06	0.00E+00	3.35E-06	0.00E+00	0.00E+00	3.39E-04	0.00E+00	0.00E+00	3.40E-04
303	ALL	634325	4175650	NonCancer	0.00E+00	3.06E-06	3.10E-04	0.00E+00	0.00E+00	3.12E-04	3.06E-06	0.00E+00	3.06E-06	0.00E+00	0.00E+00	3.10E-04	0.00E+00	0.00E+00	3.12E-04
304	ALL	634575	4175650	NonCancer	0.00E+00	1.74E-06	1.77E-04	0.00E+00	0.00E+00	1.78E-04	1.74E-06	0.00E+00	1.74E-06	0.00E+00	0.00E+00	1.77E-04	0.00E+00	0.00E+00	1.78E-04
305	ALL	634625	4175650	NonCancer	0.00E+00	1.53E-06	1.55E-04	0.00E+00	0.00E+00	1.56E-04	1.53E-06	0.00E+00	1.53E-06	0.00E+00	0.00E+00	1.55E-04	0.00E+00	0.00E+00	1.56E-04
306	ALL	634675	4175650	NonCancer	0.00E+00	1.22E-06	1.24E-04	0.00E+00	0.00E+00	1.24E-04	1.22E-06	0.00E+00	1.22E-06	0.00E+00	0.00E+00	1.24E-04	0.00E+00	0.00E+00	1.24E-04
307	ALL	634725	4175650	NonCancer	0.00E+00	1.07E-06	1.08E-04	0.00E+00	0.00E+00	1.09E-04	1.07E-06	0.00E+00	1.07E-06	0.00E+00	0.00E+00	1.08E-04	0.00E+00	0.00E+00	1.09E-04
308	ALL	634775	4175650	NonCancer	0.00E+00	9.34E-07	9.47E-05	0.00E+00	0.00E+00	9.51E-05	9.34E-07	0.00E+00	9.34E-07	0.00E+00	0.00E+00	9.47E-05	0.00E+00	0.00E+00	9.51E-05
309	ALL	634825	4175650	NonCancer	0.00E+00	8.20E-07	8.31E-05	0.00E+00	0.00E+00	8.35E-05	8.20E-07	0.00E+00	8.20E-07	0.00E+00	0.00E+00	8.31E-05	0.00E+00	0.00E+00	8.35E-05
310	ALL	634875	4175650	NonCancer	0.00E+00	7.19E-07	7.29E-05	0.00E+00	0.00E+00	7.32E-05	7.19E-07	0.00E+00	7.19E-07	0.00E+00	0.00E+00	7.29E-05	0.00E+00	0.00E+00	7.32E-05
311	ALL	634925	4175650	NonCancer	0.00E+00	6.32E-07	6.41E-05	0.00E+00	0.00E+00	6.43E-05	6.32E-07	0.00E+00	6.32E-07	0.00E+00	0.00E+00	6.41E-05	0.00E+00	0.00E+00	6.43E-05
312	ALL	634975	4175650	NonCancer	0.00E+00	5.60E-07	5.68E-05	0.00E+00	0.00E+00	5.70E-05	5.60E-07	0.00E+00	5.60E-07	0.00E+00	0.00E+00	5.68E-05	0.00E+00	0.00E+00	5.70E-05
313	ALL	635025	4175650	NonCancer	0.00E+00	4.98E-07	5.05E-05	0.00E+00	0.00E+00	5.07E-05	4.98E-07	0.00E+00	4.98E-07	0.00E+00	0.00E+00	5.05E-05	0.00E+00	0.00E+00	5.07E-05
314	ALL	635325	4175650	NonCancer	0.00E+00	3.88E-07	3.93E-05	0.00E+00	0.00E+00	3.95E-05	3.88E-07	0.00E+00	3.88E-07	0.00E+00	0.00E+00	3.93E-05	0.00E+00	0.00E+00	3.95E-05
315	ALL	635375	4175650	NonCancer	0.00E+00	3.77E-07	3.82E-05	0.00E+00	0.00E+00	3.84E-05	3.77E-07	0.00E+00	3.77E-07	0.00E+00	0.00E+00	3.82E-05	0.00E+00	0.00E+00	3.84E-05
316	ALL	634475	4175700	NonCancer	0.00E+00	8.03E-07	8.14E-05	0.00E+00	0.00E+00	8.17E-05	8.03E-07	0.00E+00	8.03E-07	0.00E+00	0.00E+00	8.14E-05	0.00E+00	0.00E+00	8.17E-05
317	ALL	634525	4175700	NonCancer	0.00E+00	6.96E-07	7.05E-05	0.00E+00	0.00E+00	7.08E-05	6.96E-07	0.00E+00	6.96E-07	0.00E+00	0.00E+00	7.05E-05	0.00E+00	0.00E+00	7.08E-05
318	ALL	634575	4175700	NonCancer	0.00E+00	6.44E-07	6.52E-05	0.00E+00	0.00E+00	6.55E-05	6.44E-07	0.00E+00	6.44E-07	0.00E+00	0.00E+00	6.52E-05	0.00E+00	0.00E+00	6.55E-05
319	ALL	634625	4175700	NonCancer	0.00E+00	6.16E-07	6.24E-05	0.00E+00	0.00E+00	6.26E-05	6.16E-07	0.00E+00	6.16E-07	0.00E+00	0.00E+00	6.24E-05	0.00E+00	0.00E+00	6.26E-05
320	ALL	634675	4175700	NonCancer	0.00E+00	5.91E-07	5.99E-05	0.00E+00	0.00E+00	6.01E-05	5.91E-07	0.00E+00	5.91E-07	0.00E+00	0.00E+00	5.99E-05	0.00E+00	0.00E+00	6.01E-05
321	ALL	634725	4175700	NonCancer	0.00E+00	5.69E-07	5.76E-05	0.00E+00	0.00E+00	5.79E-05	5.69E-07	0.00E+00	5.69E-07	0.00E+00	0.00E+00	5.76E-05	0.00E+00	0.00E+00	5.79E-05
322	ALL	634775	4175700	NonCancer	0.00E+00	5.46E-07	5.53E-05	0.00E+00	0.00E+00	5.56E-05	5.46E-07	0.00E+00	5.46E-07	0.00E+00	0.00E+00	5.53E-05	0.00E+00	0.00E+00	5.56E-05
323	ALL	634825	4175700	NonCancer	0.00E+00	5.24E-07	5.31E-05	0.00E+00	0.00E+00	5.33E-05	5.24E-07	0.00E+00	5.24E-07	0.00E+00	0.00E+00	5.31E-05	0.00E+00	0.00E+00	5.33E-05
324	ALL	634875	4175700	NonCancer	0.00E+00	5.05E-07	5.12E-05	0.00E+00	0.00E+00	5.14E-05	5.05E-07	0.00E+00	5.05E-07	0.00E+00	0.00E+00	5.12E-05	0.00E+00	0.00E+00	5.14E-05
325	ALL	634925	4175700	NonCancer	0.00E+00	4.85E-07	4.92E-05	0.00E+00	0.00E+00	4.94E-05	4.85E-07	0.00E+00	4.85E-07	0.00E+00	0.00E+00	4.92E-05	0.00E+00	0.00E+00	4.94E-05
326	ALL	634975	4175700	NonCancer	0.00E+00	4.68E-07	4.74E-05	0.00E+00	0.00E+00	4.76E-05	4.68E-07	0.00E+00	4.68E-07	0.00E+00	0.00E+00	4.74E-05	0.00E+00	0.00E+00	4.76E-05
327	ALL	635025	4175700	NonCancer	0.00E+00	4.51E-07	4.57E-05	0.00E+00	0.00E+00	4.59E-05	4.51E-07	0.00E+00	4.51E-07	0.00E+00	0.00E+00	4.57E-05	0.00E+00	0.00E+00	4.59E-05
328	ALL	635075	4175700	NonCancer	0.00E+00	4.36E-07	4.42E-05	0.00E+00	0.00E+00	4.44E-05	4.36E-07	0.00E+00	4.36E-07	0.00E+00	0.00E+00	4.42E-05	0.00E+00	0.00E+00	4.44E-05

329	ALL	635125	4175700	NonCancer	0.00E+00	4.23E-07	4.29E-05	0.00E+00	0.00E+00	4.31E-05	4.23E-07	0.00E+00	4.23E-07	0.00E+00	0.00E+00	4.29E-05	0.00E+00	0.00E+00	4.31E-05
330	ALL	634425	4175750	NonCancer	0.00E+00	7.38E-07	7.48E-05	0.00E+00	0.00E+00	7.51E-05	7.38E-07	0.00E+00	7.38E-07	0.00E+00	0.00E+00	7.48E-05	0.00E+00	0.00E+00	7.51E-05
331	ALL	634575	4175750	NonCancer	0.00E+00	6.48E-07	6.56E-05	0.00E+00	0.00E+00	6.59E-05	6.48E-07	0.00E+00	6.48E-07	0.00E+00	0.00E+00	6.56E-05	0.00E+00	0.00E+00	6.59E-05
332	ALL	634625	4175750	NonCancer	0.00E+00	6.21E-07	6.30E-05	0.00E+00	0.00E+00	6.32E-05	6.21E-07	0.00E+00	6.21E-07	0.00E+00	0.00E+00	6.30E-05	0.00E+00	0.00E+00	6.32E-05
333	ALL	634675	4175750	NonCancer	0.00E+00	5.97E-07	6.05E-05	0.00E+00	0.00E+00	6.07E-05	5.97E-07	0.00E+00	5.97E-07	0.00E+00	0.00E+00	6.05E-05	0.00E+00	0.00E+00	6.07E-05
334	ALL	634725	4175750	NonCancer	0.00E+00	5.75E-07	5.83E-05	0.00E+00	0.00E+00	5.85E-05	5.75E-07	0.00E+00	5.75E-07	0.00E+00	0.00E+00	5.83E-05	0.00E+00	0.00E+00	5.85E-05
335	ALL	634775	4175750	NonCancer	0.00E+00	5.53E-07	5.61E-05	0.00E+00	0.00E+00	5.63E-05	5.53E-07	0.00E+00	5.53E-07	0.00E+00	0.00E+00	5.61E-05	0.00E+00	0.00E+00	5.63E-05
336	ALL	634825	4175750	NonCancer	0.00E+00	5.33E-07	5.40E-05	0.00E+00	0.00E+00	5.42E-05	5.33E-07	0.00E+00	5.33E-07	0.00E+00	0.00E+00	5.40E-05	0.00E+00	0.00E+00	5.42E-05
337	ALL	634875	4175750	NonCancer	0.00E+00	5.13E-07	5.20E-05	0.00E+00	0.00E+00	5.22E-05	5.13E-07	0.00E+00	5.13E-07	0.00E+00	0.00E+00	5.20E-05	0.00E+00	0.00E+00	5.22E-05
338	ALL	634925	4175750	NonCancer	0.00E+00	4.96E-07	5.02E-05	0.00E+00	0.00E+00	5.04E-05	4.96E-07	0.00E+00	4.96E-07	0.00E+00	0.00E+00	5.02E-05	0.00E+00	0.00E+00	5.04E-05
339	ALL	634975	4175750	NonCancer	0.00E+00	4.79E-07	4.85E-05	0.00E+00	0.00E+00	4.87E-05	4.79E-07	0.00E+00	4.79E-07	0.00E+00	0.00E+00	4.85E-05	0.00E+00	0.00E+00	4.87E-05
340	ALL	635025	4175750	NonCancer	0.00E+00	4.63E-07	4.69E-05	0.00E+00	0.00E+00	4.71E-05	4.63E-07	0.00E+00	4.63E-07	0.00E+00	0.00E+00	4.69E-05	0.00E+00	0.00E+00	4.71E-05
341	ALL	635075	4175750	NonCancer	0.00E+00	4.48E-07	4.54E-05	0.00E+00	0.00E+00	4.56E-05	4.48E-07	0.00E+00	4.48E-07	0.00E+00	0.00E+00	4.54E-05	0.00E+00	0.00E+00	4.56E-05
342	ALL	635125	4175750	NonCancer	0.00E+00	4.34E-07	4.40E-05	0.00E+00	0.00E+00	4.42E-05	4.34E-07	0.00E+00	4.34E-07	0.00E+00	0.00E+00	4.40E-05	0.00E+00	0.00E+00	4.42E-05
343	ALL	635175	4175750	NonCancer	0.00E+00	4.20E-07	4.26E-05	0.00E+00	0.00E+00	4.28E-05	4.20E-07	0.00E+00	4.20E-07	0.00E+00	0.00E+00	4.26E-05	0.00E+00	0.00E+00	4.28E-05
344	ALL	635225	4175750	NonCancer	0.00E+00	4.08E-07	4.14E-05	0.00E+00	0.00E+00	4.16E-05	4.08E-07	0.00E+00	4.08E-07	0.00E+00	0.00E+00	4.14E-05	0.00E+00	0.00E+00	4.16E-05
345	ALL	634325	4175800	NonCancer	0.00E+00	7.93E-07	8.04E-05	0.00E+00	0.00E+00	8.07E-05	7.93E-07	0.00E+00	7.93E-07	0.00E+00	0.00E+00	8.04E-05	0.00E+00	0.00E+00	8.07E-05
346	ALL	634375	4175800	NonCancer	0.00E+00	7.57E-07	7.67E-05	0.00E+00	0.00E+00	7.70E-05	7.57E-07	0.00E+00	7.57E-07	0.00E+00	0.00E+00	7.67E-05	0.00E+00	0.00E+00	7.70E-05
347	ALL	634425	4175800	NonCancer	0.00E+00	7.22E-07	7.32E-05	0.00E+00	0.00E+00	7.35E-05	7.22E-07	0.00E+00	7.22E-07	0.00E+00	0.00E+00	7.32E-05	0.00E+00	0.00E+00	7.35E-05
348	ALL	634475	4175800	NonCancer	0.00E+00	6.92E-07	7.01E-05	0.00E+00	0.00E+00	7.04E-05	6.92E-07	0.00E+00	6.92E-07	0.00E+00	0.00E+00	7.01E-05	0.00E+00	0.00E+00	7.04E-05
349	ALL	634525	4175800	NonCancer	0.00E+00	6.63E-07	6.72E-05	0.00E+00	0.00E+00	6.74E-05	6.63E-07	0.00E+00	6.63E-07	0.00E+00	0.00E+00	6.72E-05	0.00E+00	0.00E+00	6.74E-05
350	ALL	634575	4175800	NonCancer	0.00E+00	6.35E-07	6.43E-05	0.00E+00	0.00E+00	6.46E-05	6.35E-07	0.00E+00	6.35E-07	0.00E+00	0.00E+00	6.43E-05	0.00E+00	0.00E+00	6.46E-05
351	ALL	634625	4175800	NonCancer	0.00E+00	6.11E-07	6.20E-05	0.00E+00	0.00E+00	6.22E-05	6.11E-07	0.00E+00	6.11E-07	0.00E+00	0.00E+00	6.20E-05	0.00E+00	0.00E+00	6.22E-05
352	ALL	634675	4175800	NonCancer	0.00E+00	5.86E-07	5.94E-05	0.00E+00	0.00E+00	5.97E-05	5.86E-07	0.00E+00	5.86E-07	0.00E+00	0.00E+00	5.94E-05	0.00E+00	0.00E+00	5.97E-05
353	ALL	634725	4175800	NonCancer	0.00E+00	5.66E-07	5.73E-05	0.00E+00	0.00E+00	5.76E-05	5.66E-07	0.00E+00	5.66E-07	0.00E+00	0.00E+00	5.73E-05	0.00E+00	0.00E+00	5.76E-05
354	ALL	634775	4175800	NonCancer	0.00E+00	5.44E-07	5.52E-05	0.00E+00	0.00E+00	5.54E-05	5.44E-07	0.00E+00	5.44E-07	0.00E+00	0.00E+00	5.52E-05	0.00E+00	0.00E+00	5.54E-05
355	ALL	634825	4175800	NonCancer	0.00E+00	5.26E-07	5.33E-05	0.00E+00	0.00E+00	5.35E-05	5.26E-07	0.00E+00	5.26E-07	0.00E+00	0.00E+00	5.33E-05	0.00E+00	0.00E+00	5.35E-05
356	ALL	634875	4175800	NonCancer	0.00E+00	5.06E-07	5.13E-05	0.00E+00	0.00E+00	5.15E-05	5.06E-07	0.00E+00	5.06E-07	0.00E+00	0.00E+00	5.13E-05	0.00E+00	0.00E+00	5.15E-05
357	ALL	634925	4175800	NonCancer	0.00E+00	4.90E-07	4.97E-05	0.00E+00	0.00E+00	4.99E-05	4.90E-07	0.00E+00	4.90E-07	0.00E+00	0.00E+00	4.97E-05	0.00E+00	0.00E+00	4.99E-05
358	ALL	634975	4175800	NonCancer	0.00E+00	4.74E-07	4.80E-05	0.00E+00	0.00E+00	4.82E-05	4.74E-07	0.00E+00	4.74E-07	0.00E+00	0.00E+00	4.80E-05	0.00E+00	0.00E+00	4.82E-05
359	ALL	635025	4175800	NonCancer	0.00E+00	4.58E-07	4.64E-05	0.00E+00	0.00E+00	4.66E-05	4.58E-07	0.00E+00	4.58E-07	0.00E+00	0.00E+00	4.64E-05	0.00E+00	0.00E+00	4.66E-05
360	ALL	635075	4175800	NonCancer	0.00E+00	4.43E-07	4.49E-05	0.00E+00	0.00E+00	4.51E-05	4.43E-07	0.00E+00	4.43E-07	0.00E+00	0.00E+00	4.49E-05	0.00E+00	0.00E+00	4.51E-05
361	ALL	635125	4175800	NonCancer	0.00E+00	4.30E-07	4.36E-05	0.00E+00	0.00E+00	4.37E-05	4.30E-07	0.00E+00	4.30E-07	0.00E+00	0.00E+00	4.36E-05	0.00E+00	0.00E+00	4.37E-05
362	ALL	635175	4175800	NonCancer	0.00E+00	4.17E-07	4.23E-05	0.00E+00	0.00E+00	4.25E-05	4.17E-07	0.00E+00	4.17E-07	0.00E+00	0.00E+00	4.23E-05	0.00E+00	0.00E+00	4.25E-05
363	ALL	635225	4175800	NonCancer	0.00E+00	4.05E-07	4.10E-05	0.00E+00	0.00E+00	4.12E-05	4.05E-07	0.00E+00	4.05E-07	0.00E+00	0.00E+00	4.10E-05	0.00E+00	0.00E+00	4.12E-05
364	ALL	635275	4175800	NonCancer	0.00E+00	3.94E-07	3.99E-05	0.00E+00	0.00E+00	4.01E-05	3.94E-07	0.00E+00	3.94E-07	0.00E+00	0.00E+00	3.99E-05	0.00E+00	0.00E+00	4.01E-05
365	ALL	635325	4175800	NonCancer	0.00E+00	3.82E-07	3.87E-05	0.00E+00	0.00E+00	3.89E-05	3.82E-07	0.00E+00	3.82E-07	0.00E+00	0.00E+00	3.87E-05	0.00E+00	0.00E+00	3.89E-05
366	ALL	634225	4175850	NonCancer	0.00E+00	8.65E-07	8.77E-05	0.00E+00	0.00E+00	8.80E-05	8.65E-07	0.00E+00	8.65E-07	0.00E+00	0.00E+00	8.77E-05	0.00E+00	0.00E+00	8.80E-05
367	ALL	634325	4175850	NonCancer	0.00E+00	7.64E-07	7.74E-05	0.00E+00	0.00E+00	7.77E-05	7.64E-07	0.00E+00	7.64E-07	0.00E+00	0.00E+00	7.74E-05	0.00E+00	0.00E+00	7.77E-05
368	ALL	634375	4175850	NonCancer	0.00E+00	7.17E-07	7.27E-05	0.00E+00	0.00E+00	7.30E-05	7.17E-07	0.00E+00	7.17E-07	0.00E+00	0.00E+00	7.27E-05	0.00E+00	0.00E+00	7.30E-05
369	ALL	634425	4175850	NonCancer	0.00E+00	6.83E-07	6.93E-05	0.00E+00	0.00E+00	6.95E-05	6.83E-07	0.00E+00	6.83E-07	0.00E+00	0.00E+00	6.93E-05	0.00E+00	0.00E+00	6.95E-05
370	ALL	634475	4175850	NonCancer	0.00E+00	6.53E-07	6.62E-05	0.00E+00	0.00E+00	6.64E-05	6.53E-07	0.00E+00	6.53E-07	0.00E+00	0.00E+00	6.62E-05	0.00E+00	0.00E+00	6.64E-05
371	ALL	634525	4175850	NonCancer	0.00E+00	6.24E-07	6.32E-05	0.00E+00	0.00E+00	6.35E-05	6.24E-07	0.00E+00	6.24E-07	0.00E+00	0.00E+00	6.32E-05	0.00E+00	0.00E+00	6.35E-05
372	ALL	634575	4175850	NonCancer	0.00E+00	5.96E-07	6.05E-05	0.00E+00	0.00E+00	6.07E-05	5.96E-07	0.00E+00	5.96E-07	0.00E+00	0.00E+00	6.05E-05	0.00E+00	0.00E+00	6.07E-05
373	ALL	634625	4175850	NonCancer	0.00E+00	5.73E-07	5.81E-05	0.00E+00	0.00E+00	5.83E-05	5.73E-07	0.00E+00	5.73E-07	0.00E+00	0.00E+00	5.81E-05	0.00E+00	0.00E+00	5.83E-05
374	ALL	634675	4175850	NonCancer	0.00E+00	5.48E-07	5.56E-05	0.00E+00	0.00E+00	5.58E-05	5.48E-07	0.00E+00	5.48E-07	0.00E+00	0.00E+00	5.56E-05	0.00E+00	0.00E+00	5.58E-05
375	ALL	634725	4175850	NonCancer	0.00E+00	5.26E-07	5.33E-05	0.00E+00	0.00E+00	5.35E-05	5.26E-07	0.00E+00	5.26E-07	0.00E+00	0.00E+00	5.33E-05	0.00E+00	0.00E+00	5.35E-05
376	ALL	634775	4175850	NonCancer	0.00E+00	5.07E-07	5.14E-05	0.00E+00	0.00E+00	5.16E-05	5.07E-07	0.00E+00	5.07E-07	0.00E+00	0.00E+00	5.14E-05	0.00E+00	0.00E+00	5.16E-05
377	ALL	634825	4175850	NonCancer	0.00E+00	4.87E-07	4.93E-05	0.00E+00	0.00E+00	4.95E-05	4.87E-07	0.00E+00	4.87E-07	0.00E+00	0.00E+00	4.93E-05	0.00E+00	0.00E+00	4.95E-05
378	ALL	634875	4175850	NonCancer	0.00E+00	4.68E-07	4.74E-05	0.00E+00	0.00E+00	4.76E-05	4.68E-07	0.00E+00	4.68E-07	0.00E+00	0.00E+00	4.74E-05	0.00E+00	0.00E+00	4.76E-05
379	ALL	634925	4175850	NonCancer	0.00E+00	4.50E-07	4.56E-05	0.00E+00	0.00E+00	4.58E-05	4.50E-07	0.00E+00	4.50E-07	0.00E+00	0.00E+00	4.56E-05	0.00E+00	0.00E+00	4.58E-05
380	ALL	634975	4175850	NonCancer	0.00E+00	4.36E-07	4.42E-05	0.00E+00	0.00E+00	4.44E-05	4.36E-07	0.00E+00	4.36E-07	0.00E+00	0.00E+00	4.42E-05	0.00E+00	0.00E+00	4.44E-05
381	ALL	635025	4175850	NonCancer	0.00E+00	4.22E-07	4.28E-05	0.00E+00	0.00E+00	4.29E-05	4.22E-07	0.00E+00	4.22E-07	0.00E+00	0.00E+00	4.28E-05	0.00E+00	0.00E+00	4.29E-05
382	ALL	635075	4175850	NonCancer	0.00E+00	4.09E-07	4.15E-05	0.00E+00	0.00E+00	4.17E-05	4.09E-07	0.00E+00	4.09E-07	0.00E+00	0.00E+00	4.15E-05	0.00E+00	0.00E+00	4.17E-05
383	ALL	635125	4175850	NonCancer	0.00E+00	3.97E-07	4.03E-05	0.00E+00	0.00E+00	4.04E-05	3.97E-07	0.00E+00	3.97E-07	0.00E+00	0.00E+00	4.03E-05	0.00E+00	0.00E+00	4.04E-05

384	ALL	635175	4175850	NonCancer	0.00E+00	3.86E-07	3.91E-05	0.00E+00	0.00E+00	3.92E-05	3.86E-07	0.00E+00	3.86E-07	0.00E+00	0.00E+00	3.91E-05	0.00E+00	0.00E+00	3.92E-05
385	ALL	635225	4175850	NonCancer	0.00E+00	3.74E-07	3.79E-05	0.00E+00	0.00E+00	3.81E-05	3.74E-07	0.00E+00	3.74E-07	0.00E+00	0.00E+00	3.79E-05	0.00E+00	0.00E+00	3.81E-05
386	ALL	635275	4175850	NonCancer	0.00E+00	3.64E-07	3.69E-05	0.00E+00	0.00E+00	3.70E-05	3.64E-07	0.00E+00	3.64E-07	0.00E+00	0.00E+00	3.69E-05	0.00E+00	0.00E+00	3.70E-05
387	ALL	635325	4175850	NonCancer	0.00E+00	3.53E-07	3.58E-05	0.00E+00	0.00E+00	3.60E-05	3.53E-07	0.00E+00	3.53E-07	0.00E+00	0.00E+00	3.58E-05	0.00E+00	0.00E+00	3.60E-05
388	ALL	635375	4175850	NonCancer	0.00E+00	3.43E-07	3.48E-05	0.00E+00	0.00E+00	3.49E-05	3.43E-07	0.00E+00	3.43E-07	0.00E+00	0.00E+00	3.48E-05	0.00E+00	0.00E+00	3.49E-05
389	ALL	635425	4175850	NonCancer	0.00E+00	3.34E-07	3.38E-05	0.00E+00	0.00E+00	3.40E-05	3.34E-07	0.00E+00	3.34E-07	0.00E+00	0.00E+00	3.38E-05	0.00E+00	0.00E+00	3.40E-05
390	ALL	634225	4175900	NonCancer	0.00E+00	9.40E-07	9.53E-05	0.00E+00	0.00E+00	9.56E-05	9.40E-07	0.00E+00	9.40E-07	0.00E+00	0.00E+00	9.53E-05	0.00E+00	0.00E+00	9.56E-05
391	ALL	634325	4175900	NonCancer	0.00E+00	8.55E-07	8.67E-05	0.00E+00	0.00E+00	8.70E-05	8.55E-07	0.00E+00	8.55E-07	0.00E+00	0.00E+00	8.67E-05	0.00E+00	0.00E+00	8.70E-05
392	ALL	634375	4175900	NonCancer	0.00E+00	8.12E-07	8.23E-05	0.00E+00	0.00E+00	8.27E-05	8.12E-07	0.00E+00	8.12E-07	0.00E+00	0.00E+00	8.23E-05	0.00E+00	0.00E+00	8.27E-05
393	ALL	634425	4175900	NonCancer	0.00E+00	7.71E-07	7.82E-05	0.00E+00	0.00E+00	7.85E-05	7.71E-07	0.00E+00	7.71E-07	0.00E+00	0.00E+00	7.82E-05	0.00E+00	0.00E+00	7.85E-05
394	ALL	634475	4175900	NonCancer	0.00E+00	7.35E-07	7.45E-05	0.00E+00	0.00E+00	7.48E-05	7.35E-07	0.00E+00	7.35E-07	0.00E+00	0.00E+00	7.45E-05	0.00E+00	0.00E+00	7.48E-05
395	ALL	634525	4175900	NonCancer	0.00E+00	7.00E-07	7.10E-05	0.00E+00	0.00E+00	7.13E-05	7.00E-07	0.00E+00	7.00E-07	0.00E+00	0.00E+00	7.10E-05	0.00E+00	0.00E+00	7.13E-05
396	ALL	634575	4175900	NonCancer	0.00E+00	6.68E-07	6.77E-05	0.00E+00	0.00E+00	6.79E-05	6.68E-07	0.00E+00	6.68E-07	0.00E+00	0.00E+00	6.77E-05	0.00E+00	0.00E+00	6.79E-05
397	ALL	634625	4175900	NonCancer	0.00E+00	6.38E-07	6.46E-05	0.00E+00	0.00E+00	6.49E-05	6.38E-07	0.00E+00	6.38E-07	0.00E+00	0.00E+00	6.46E-05	0.00E+00	0.00E+00	6.49E-05
398	ALL	634675	4175900	NonCancer	0.00E+00	6.10E-07	6.19E-05	0.00E+00	0.00E+00	6.21E-05	6.10E-07	0.00E+00	6.10E-07	0.00E+00	0.00E+00	6.19E-05	0.00E+00	0.00E+00	6.21E-05
399	ALL	634725	4175900	NonCancer	0.00E+00	5.82E-07	5.90E-05	0.00E+00	0.00E+00	5.92E-05	5.82E-07	0.00E+00	5.82E-07	0.00E+00	0.00E+00	5.90E-05	0.00E+00	0.00E+00	5.92E-05
400	ALL	634775	4175900	NonCancer	0.00E+00	5.56E-07	5.64E-05	0.00E+00	0.00E+00	5.66E-05	5.56E-07	0.00E+00	5.56E-07	0.00E+00	0.00E+00	5.64E-05	0.00E+00	0.00E+00	5.66E-05
401	ALL	634875	4175900	NonCancer	0.00E+00	5.08E-07	5.15E-05	0.00E+00	0.00E+00	5.17E-05	5.08E-07	0.00E+00	5.08E-07	0.00E+00	0.00E+00	5.15E-05	0.00E+00	0.00E+00	5.17E-05
402	ALL	634925	4175900	NonCancer	0.00E+00	4.85E-07	4.92E-05	0.00E+00	0.00E+00	4.93E-05	4.85E-07	0.00E+00	4.85E-07	0.00E+00	0.00E+00	4.92E-05	0.00E+00	0.00E+00	4.93E-05
403	ALL	634975	4175900	NonCancer	0.00E+00	4.65E-07	4.71E-05	0.00E+00	0.00E+00	4.73E-05	4.65E-07	0.00E+00	4.65E-07	0.00E+00	0.00E+00	4.71E-05	0.00E+00	0.00E+00	4.73E-05
404	ALL	635025	4175900	NonCancer	0.00E+00	4.45E-07	4.51E-05	0.00E+00	0.00E+00	4.53E-05	4.45E-07	0.00E+00	4.45E-07	0.00E+00	0.00E+00	4.51E-05	0.00E+00	0.00E+00	4.53E-05
405	ALL	635075	4175900	NonCancer	0.00E+00	4.27E-07	4.32E-05	0.00E+00	0.00E+00	4.34E-05	4.27E-07	0.00E+00	4.27E-07	0.00E+00	0.00E+00	4.32E-05	0.00E+00	0.00E+00	4.34E-05
406	ALL	635125	4175900	NonCancer	0.00E+00	4.08E-07	4.14E-05	0.00E+00	0.00E+00	4.16E-05	4.08E-07	0.00E+00	4.08E-07	0.00E+00	0.00E+00	4.14E-05	0.00E+00	0.00E+00	4.16E-05
407	ALL	635175	4175900	NonCancer	0.00E+00	3.92E-07	3.97E-05	0.00E+00	0.00E+00	3.99E-05	3.92E-07	0.00E+00	3.92E-07	0.00E+00	0.00E+00	3.97E-05	0.00E+00	0.00E+00	3.99E-05
408	ALL	635225	4175900	NonCancer	0.00E+00	3.77E-07	3.83E-05	0.00E+00	0.00E+00	3.84E-05	3.77E-07	0.00E+00	3.77E-07	0.00E+00	0.00E+00	3.83E-05	0.00E+00	0.00E+00	3.84E-05
409	ALL	635275	4175900	NonCancer	0.00E+00	3.66E-07	3.71E-05	0.00E+00	0.00E+00	3.72E-05	3.66E-07	0.00E+00	3.66E-07	0.00E+00	0.00E+00	3.71E-05	0.00E+00	0.00E+00	3.72E-05
410	ALL	635325	4175900	NonCancer	0.00E+00	3.56E-07	3.61E-05	0.00E+00	0.00E+00	3.62E-05	3.56E-07	0.00E+00	3.56E-07	0.00E+00	0.00E+00	3.61E-05	0.00E+00	0.00E+00	3.62E-05
411	ALL	635375	4175900	NonCancer	0.00E+00	3.44E-07	3.49E-05	0.00E+00	0.00E+00	3.50E-05	3.44E-07	0.00E+00	3.44E-07	0.00E+00	0.00E+00	3.49E-05	0.00E+00	0.00E+00	3.50E-05
412	ALL	635425	4175900	NonCancer	0.00E+00	3.34E-07	3.39E-05	0.00E+00	0.00E+00	3.40E-05	3.34E-07	0.00E+00	3.34E-07	0.00E+00	0.00E+00	3.39E-05	0.00E+00	0.00E+00	3.40E-05
413	ALL	635475	4175900	NonCancer	0.00E+00	3.25E-07	3.29E-05	0.00E+00	0.00E+00	3.31E-05	3.25E-07	0.00E+00	3.25E-07	0.00E+00	0.00E+00	3.29E-05	0.00E+00	0.00E+00	3.31E-05
414	ALL	635525	4175900	NonCancer	0.00E+00	3.16E-07	3.20E-05	0.00E+00	0.00E+00	3.21E-05	3.16E-07	0.00E+00	3.16E-07	0.00E+00	0.00E+00	3.20E-05	0.00E+00	0.00E+00	3.21E-05
415	ALL	634325	4175950	NonCancer	0.00E+00	8.19E-07	8.31E-05	0.00E+00	0.00E+00	8.34E-05	8.19E-07	0.00E+00	8.19E-07	0.00E+00	0.00E+00	8.31E-05	0.00E+00	0.00E+00	8.34E-05
416	ALL	634375	4175950	NonCancer	0.00E+00	7.89E-07	7.99E-05	0.00E+00	0.00E+00	8.03E-05	7.89E-07	0.00E+00	7.89E-07	0.00E+00	0.00E+00	7.99E-05	0.00E+00	0.00E+00	8.03E-05
417	ALL	634425	4175950	NonCancer	0.00E+00	7.57E-07	7.67E-05	0.00E+00	0.00E+00	7.70E-05	7.57E-07	0.00E+00	7.57E-07	0.00E+00	0.00E+00	7.67E-05	0.00E+00	0.00E+00	7.70E-05
418	ALL	634475	4175950	NonCancer	0.00E+00	7.27E-07	7.37E-05	0.00E+00	0.00E+00	7.40E-05	7.27E-07	0.00E+00	7.27E-07	0.00E+00	0.00E+00	7.37E-05	0.00E+00	0.00E+00	7.40E-05
419	ALL	634525	4175950	NonCancer	0.00E+00	6.96E-07	7.06E-05	0.00E+00	0.00E+00	7.09E-05	6.96E-07	0.00E+00	6.96E-07	0.00E+00	0.00E+00	7.06E-05	0.00E+00	0.00E+00	7.09E-05
420	ALL	634575	4175950	NonCancer	0.00E+00	6.67E-07	6.76E-05	0.00E+00	0.00E+00	6.79E-05	6.67E-07	0.00E+00	6.67E-07	0.00E+00	0.00E+00	6.76E-05	0.00E+00	0.00E+00	6.79E-05
421	ALL	634625	4175950	NonCancer	0.00E+00	6.45E-07	6.53E-05	0.00E+00	0.00E+00	6.56E-05	6.45E-07	0.00E+00	6.45E-07	0.00E+00	0.00E+00	6.53E-05	0.00E+00	0.00E+00	6.56E-05
422	ALL	634675	4175950	NonCancer	0.00E+00	6.24E-07	6.33E-05	0.00E+00	0.00E+00	6.35E-05	6.24E-07	0.00E+00	6.24E-07	0.00E+00	0.00E+00	6.33E-05	0.00E+00	0.00E+00	6.35E-05
423	ALL	634875	4175950	NonCancer	0.00E+00	5.41E-07	5.49E-05	0.00E+00	0.00E+00	5.51E-05	5.41E-07	0.00E+00	5.41E-07	0.00E+00	0.00E+00	5.49E-05	0.00E+00	0.00E+00	5.51E-05
424	ALL	634925	4175950	NonCancer	0.00E+00	5.22E-07	5.29E-05	0.00E+00	0.00E+00	5.31E-05	5.22E-07	0.00E+00	5.22E-07	0.00E+00	0.00E+00	5.29E-05	0.00E+00	0.00E+00	5.31E-05
425	ALL	634975	4175950	NonCancer	0.00E+00	5.05E-07	5.12E-05	0.00E+00	0.00E+00	5.14E-05	5.05E-07	0.00E+00	5.05E-07	0.00E+00	0.00E+00	5.12E-05	0.00E+00	0.00E+00	5.14E-05
426	ALL	635025	4175950	NonCancer	0.00E+00	4.87E-07	4.93E-05	0.00E+00	0.00E+00	4.95E-05	4.87E-07	0.00E+00	4.87E-07	0.00E+00	0.00E+00	4.93E-05	0.00E+00	0.00E+00	4.95E-05
427	ALL	635075	4175950	NonCancer	0.00E+00	4.70E-07	4.76E-05	0.00E+00	0.00E+00	4.78E-05	4.70E-07	0.00E+00	4.70E-07	0.00E+00	0.00E+00	4.76E-05	0.00E+00	0.00E+00	4.78E-05
428	ALL	635125	4175950	NonCancer	0.00E+00	4.54E-07	4.60E-05	0.00E+00	0.00E+00	4.62E-05	4.54E-07	0.00E+00	4.54E-07	0.00E+00	0.00E+00	4.60E-05	0.00E+00	0.00E+00	4.62E-05
429	ALL	635175	4175950	NonCancer	0.00E+00	4.38E-07	4.44E-05	0.00E+00	0.00E+00	4.46E-05	4.38E-07	0.00E+00	4.38E-07	0.00E+00	0.00E+00	4.44E-05	0.00E+00	0.00E+00	4.46E-05
430	ALL	635225	4175950	NonCancer	0.00E+00	4.22E-07	4.28E-05	0.00E+00	0.00E+00	4.30E-05	4.22E-07	0.00E+00	4.22E-07	0.00E+00	0.00E+00	4.28E-05	0.00E+00	0.00E+00	4.30E-05
431	ALL	635275	4175950	NonCancer	0.00E+00	4.09E-07	4.14E-05	0.00E+00	0.00E+00	4.16E-05	4.09E-07	0.00E+00	4.09E-07	0.00E+00	0.00E+00	4.14E-05	0.00E+00	0.00E+00	4.16E-05
432	ALL	635325	4175950	NonCancer	0.00E+00	3.93E-07	3.99E-05	0.00E+00	0.00E+00	4.00E-05	3.93E-07	0.00E+00	3.93E-07	0.00E+00	0.00E+00	3.99E-05	0.00E+00	0.00E+00	4.00E-05
433	ALL	635375	4175950	NonCancer	0.00E+00	3.80E-07	3.85E-05	0.00E+00	0.00E+00	3.87E-05	3.80E-07	0.00E+00	3.80E-07	0.00E+00	0.00E+00	3.85E-05	0.00E+00	0.00E+00	3.87E-05
434	ALL	635425	4175950	NonCancer	0.00E+00	3.67E-07	3.72E-05	0.00E+00	0.00E+00	3.74E-05	3.67E-07	0.00E+00	3.67E-07	0.00E+00	0.00E+00	3.72E-05	0.00E+00	0.00E+00	3.74E-05
435	ALL	635475	4175950	NonCancer	0.00E+00	3.54E-07	3.59E-05	0.00E+00	0.00E+00	3.61E-05	3.54E-07	0.00E+00	3.54E-07	0.00E+00	0.00E+00	3.59E-05	0.00E+00	0.00E+00	3.61E-05
436	ALL	635525	4175950	NonCancer	0.00E+00	3.41E-07	3.46E-05	0.00E+00	0.00E+00	3.48E-05	3.41E-07	0.00E+00	3.41E-07	0.00E+00	0.00E+00	3.46E-05	0.00E+00	0.00E+00	3.48E-05
437	ALL	635575	4175950	NonCancer	0.00E+00	3.30E-07	3.35E-05	0.00E+00	0.00E+00	3.36E-05	3.30E-07	0.00E+00	3.30E-07	0.00E+00	0.00E+00	3.35E-05	0.00E+00	0.00E+00	3.36E-05
438	ALL	634725	4176000	NonCancer	0.00E+00	5.82E-07	5.90E-05	0.00E+00	0.00E+00	5.92E-05	5.82E-07	0.00E+00	5.82E-07	0.00E+00	0.00E+00	5.90E-05	0.00E+00	0.00E+00	5.92E-05

439	ALL	634925	4176000	NonCancer	0.00E+00	5.11E-07	5.18E-05	0.00E+00	0.00E+00	5.20E-05	5.11E-07	0.00E+00	5.11E-07	0.00E+00	0.00E+00	5.18E-05	0.00E+00	0.00E+00	5.20E-05
440	ALL	634975	4176000	NonCancer	0.00E+00	4.96E-07	5.03E-05	0.00E+00	0.00E+00	5.05E-05	4.96E-07	0.00E+00	4.96E-07	0.00E+00	0.00E+00	5.03E-05	0.00E+00	0.00E+00	5.05E-05
441	ALL	635025	4176000	NonCancer	0.00E+00	4.80E-07	4.87E-05	0.00E+00	0.00E+00	4.88E-05	4.80E-07	0.00E+00	4.80E-07	0.00E+00	0.00E+00	4.87E-05	0.00E+00	0.00E+00	4.88E-05
442	ALL	635075	4176000	NonCancer	0.00E+00	4.63E-07	4.70E-05	0.00E+00	0.00E+00	4.72E-05	4.63E-07	0.00E+00	4.63E-07	0.00E+00	0.00E+00	4.70E-05	0.00E+00	0.00E+00	4.72E-05
443	ALL	635125	4176000	NonCancer	0.00E+00	4.50E-07	4.56E-05	0.00E+00	0.00E+00	4.58E-05	4.50E-07	0.00E+00	4.50E-07	0.00E+00	0.00E+00	4.56E-05	0.00E+00	0.00E+00	4.58E-05
444	ALL	635175	4176000	NonCancer	0.00E+00	4.38E-07	4.44E-05	0.00E+00	0.00E+00	4.46E-05	4.38E-07	0.00E+00	4.38E-07	0.00E+00	0.00E+00	4.44E-05	0.00E+00	0.00E+00	4.46E-05
445	ALL	635225	4176000	NonCancer	0.00E+00	4.27E-07	4.33E-05	0.00E+00	0.00E+00	4.35E-05	4.27E-07	0.00E+00	4.27E-07	0.00E+00	0.00E+00	4.33E-05	0.00E+00	0.00E+00	4.35E-05
446	ALL	635275	4176000	NonCancer	0.00E+00	4.16E-07	4.22E-05	0.00E+00	0.00E+00	4.24E-05	4.16E-07	0.00E+00	4.16E-07	0.00E+00	0.00E+00	4.22E-05	0.00E+00	0.00E+00	4.24E-05
447	ALL	635325	4176000	NonCancer	0.00E+00	4.04E-07	4.10E-05	0.00E+00	0.00E+00	4.12E-05	4.04E-07	0.00E+00	4.04E-07	0.00E+00	0.00E+00	4.10E-05	0.00E+00	0.00E+00	4.12E-05
448	ALL	635375	4176000	NonCancer	0.00E+00	3.94E-07	3.99E-05	0.00E+00	0.00E+00	4.01E-05	3.94E-07	0.00E+00	3.94E-07	0.00E+00	0.00E+00	3.99E-05	0.00E+00	0.00E+00	4.01E-05
449	ALL	635425	4176000	NonCancer	0.00E+00	3.82E-07	3.88E-05	0.00E+00	0.00E+00	3.89E-05	3.82E-07	0.00E+00	3.82E-07	0.00E+00	0.00E+00	3.88E-05	0.00E+00	0.00E+00	3.89E-05
450	ALL	635475	4176000	NonCancer	0.00E+00	3.72E-07	3.77E-05	0.00E+00	0.00E+00	3.78E-05	3.72E-07	0.00E+00	3.72E-07	0.00E+00	0.00E+00	3.77E-05	0.00E+00	0.00E+00	3.78E-05
451	ALL	635525	4176000	NonCancer	0.00E+00	3.62E-07	3.66E-05	0.00E+00	0.00E+00	3.68E-05	3.62E-07	0.00E+00	3.62E-07	0.00E+00	0.00E+00	3.66E-05	0.00E+00	0.00E+00	3.68E-05
452	ALL	635575	4176000	NonCancer	0.00E+00	3.51E-07	3.56E-05	0.00E+00	0.00E+00	3.57E-05	3.51E-07	0.00E+00	3.51E-07	0.00E+00	0.00E+00	3.56E-05	0.00E+00	0.00E+00	3.57E-05
453	ALL	634825	4176050	NonCancer	0.00E+00	5.55E-07	5.63E-05	0.00E+00	0.00E+00	5.65E-05	5.55E-07	0.00E+00	5.55E-07	0.00E+00	0.00E+00	5.63E-05	0.00E+00	0.00E+00	5.65E-05
454	ALL	634875	4176050	NonCancer	0.00E+00	5.36E-07	5.43E-05	0.00E+00	0.00E+00	5.45E-05	5.36E-07	0.00E+00	5.36E-07	0.00E+00	0.00E+00	5.43E-05	0.00E+00	0.00E+00	5.45E-05
455	ALL	634925	4176050	NonCancer	0.00E+00	5.16E-07	5.23E-05	0.00E+00	0.00E+00	5.26E-05	5.16E-07	0.00E+00	5.16E-07	0.00E+00	0.00E+00	5.23E-05	0.00E+00	0.00E+00	5.26E-05
456	ALL	634975	4176050	NonCancer	0.00E+00	4.97E-07	5.04E-05	0.00E+00	0.00E+00	5.06E-05	4.97E-07	0.00E+00	4.97E-07	0.00E+00	0.00E+00	5.04E-05	0.00E+00	0.00E+00	5.06E-05
457	ALL	635025	4176050	NonCancer	0.00E+00	4.77E-07	4.83E-05	0.00E+00	0.00E+00	4.85E-05	4.77E-07	0.00E+00	4.77E-07	0.00E+00	0.00E+00	4.83E-05	0.00E+00	0.00E+00	4.85E-05
458	ALL	635075	4176050	NonCancer	0.00E+00	4.57E-07	4.63E-05	0.00E+00	0.00E+00	4.65E-05	4.57E-07	0.00E+00	4.57E-07	0.00E+00	0.00E+00	4.63E-05	0.00E+00	0.00E+00	4.65E-05
459	ALL	635125	4176050	NonCancer	0.00E+00	4.39E-07	4.45E-05	0.00E+00	0.00E+00	4.47E-05	4.39E-07	0.00E+00	4.39E-07	0.00E+00	0.00E+00	4.45E-05	0.00E+00	0.00E+00	4.47E-05
460	ALL	635175	4176050	NonCancer	0.00E+00	4.25E-07	4.31E-05	0.00E+00	0.00E+00	4.33E-05	4.25E-07	0.00E+00	4.25E-07	0.00E+00	0.00E+00	4.31E-05	0.00E+00	0.00E+00	4.33E-05
461	ALL	635225	4176050	NonCancer	0.00E+00	4.15E-07	4.21E-05	0.00E+00	0.00E+00	4.23E-05	4.15E-07	0.00E+00	4.15E-07	0.00E+00	0.00E+00	4.21E-05	0.00E+00	0.00E+00	4.23E-05
462	ALL	635275	4176050	NonCancer	0.00E+00	4.05E-07	4.11E-05	0.00E+00	0.00E+00	4.13E-05	4.05E-07	0.00E+00	4.05E-07	0.00E+00	0.00E+00	4.11E-05	0.00E+00	0.00E+00	4.13E-05
463	ALL	635325	4176050	NonCancer	0.00E+00	3.95E-07	4.01E-05	0.00E+00	0.00E+00	4.02E-05	3.95E-07	0.00E+00	3.95E-07	0.00E+00	0.00E+00	4.01E-05	0.00E+00	0.00E+00	4.02E-05
464	ALL	635375	4176050	NonCancer	0.00E+00	3.84E-07	3.90E-05	0.00E+00	0.00E+00	3.91E-05	3.84E-07	0.00E+00	3.84E-07	0.00E+00	0.00E+00	3.90E-05	0.00E+00	0.00E+00	3.91E-05
465	ALL	635425	4176050	NonCancer	0.00E+00	3.75E-07	3.80E-05	0.00E+00	0.00E+00	3.82E-05	3.75E-07	0.00E+00	3.75E-07	0.00E+00	0.00E+00	3.80E-05	0.00E+00	0.00E+00	3.82E-05
466	ALL	635475	4176050	NonCancer	0.00E+00	3.65E-07	3.70E-05	0.00E+00	0.00E+00	3.71E-05	3.65E-07	0.00E+00	3.65E-07	0.00E+00	0.00E+00	3.70E-05	0.00E+00	0.00E+00	3.71E-05
467	ALL	635525	4176050	NonCancer	0.00E+00	3.55E-07	3.59E-05	0.00E+00	0.00E+00	3.61E-05	3.55E-07	0.00E+00	3.55E-07	0.00E+00	0.00E+00	3.59E-05	0.00E+00	0.00E+00	3.61E-05
468	ALL	635575	4176050	NonCancer	0.00E+00	3.44E-07	3.49E-05	0.00E+00	0.00E+00	3.50E-05	3.44E-07	0.00E+00	3.44E-07	0.00E+00	0.00E+00	3.49E-05	0.00E+00	0.00E+00	3.50E-05
469	ALL	634825	4176100	NonCancer	0.00E+00	5.47E-07	5.55E-05	0.00E+00	0.00E+00	5.57E-05	5.47E-07	0.00E+00	5.47E-07	0.00E+00	0.00E+00	5.55E-05	0.00E+00	0.00E+00	5.57E-05
470	ALL	634875	4176100	NonCancer	0.00E+00	5.32E-07	5.39E-05	0.00E+00	0.00E+00	5.42E-05	5.32E-07	0.00E+00	5.32E-07	0.00E+00	0.00E+00	5.39E-05	0.00E+00	0.00E+00	5.42E-05
471	ALL	634925	4176100	NonCancer	0.00E+00	5.14E-07	5.21E-05	0.00E+00	0.00E+00	5.23E-05	5.14E-07	0.00E+00	5.14E-07	0.00E+00	0.00E+00	5.21E-05	0.00E+00	0.00E+00	5.23E-05
472	ALL	634975	4176100	NonCancer	0.00E+00	4.97E-07	5.04E-05	0.00E+00	0.00E+00	5.06E-05	4.97E-07	0.00E+00	4.97E-07	0.00E+00	0.00E+00	5.04E-05	0.00E+00	0.00E+00	5.06E-05
473	ALL	635025	4176100	NonCancer	0.00E+00	4.80E-07	4.86E-05	0.00E+00	0.00E+00	4.88E-05	4.80E-07	0.00E+00	4.80E-07	0.00E+00	0.00E+00	4.86E-05	0.00E+00	0.00E+00	4.88E-05
474	ALL	635075	4176100	NonCancer	0.00E+00	4.66E-07	4.72E-05	0.00E+00	0.00E+00	4.74E-05	4.66E-07	0.00E+00	4.66E-07	0.00E+00	0.00E+00	4.72E-05	0.00E+00	0.00E+00	4.74E-05
475	ALL	635125	4176100	NonCancer	0.00E+00	4.53E-07	4.59E-05	0.00E+00	0.00E+00	4.61E-05	4.53E-07	0.00E+00	4.53E-07	0.00E+00	0.00E+00	4.59E-05	0.00E+00	0.00E+00	4.61E-05
476	ALL	635175	4176100	NonCancer	0.00E+00	4.40E-07	4.46E-05	0.00E+00	0.00E+00	4.47E-05	4.40E-07	0.00E+00	4.40E-07	0.00E+00	0.00E+00	4.46E-05	0.00E+00	0.00E+00	4.47E-05
477	ALL	635225	4176100	NonCancer	0.00E+00	4.27E-07	4.32E-05	0.00E+00	0.00E+00	4.34E-05	4.27E-07	0.00E+00	4.27E-07	0.00E+00	0.00E+00	4.32E-05	0.00E+00	0.00E+00	4.34E-05
478	ALL	635275	4176100	NonCancer	0.00E+00	4.13E-07	4.19E-05	0.00E+00	0.00E+00	4.20E-05	4.13E-07	0.00E+00	4.13E-07	0.00E+00	0.00E+00	4.19E-05	0.00E+00	0.00E+00	4.20E-05
479	ALL	635325	4176100	NonCancer	0.00E+00	3.99E-07	4.05E-05	0.00E+00	0.00E+00	4.07E-05	3.99E-07	0.00E+00	3.99E-07	0.00E+00	0.00E+00	4.05E-05	0.00E+00	0.00E+00	4.07E-05
480	ALL	635375	4176100	NonCancer	0.00E+00	3.86E-07	3.91E-05	0.00E+00	0.00E+00	3.93E-05	3.86E-07	0.00E+00	3.86E-07	0.00E+00	0.00E+00	3.91E-05	0.00E+00	0.00E+00	3.93E-05
481	ALL	635425	4176100	NonCancer	0.00E+00	3.71E-07	3.76E-05	0.00E+00	0.00E+00	3.78E-05	3.71E-07	0.00E+00	3.71E-07	0.00E+00	0.00E+00	3.76E-05	0.00E+00	0.00E+00	3.78E-05
482	ALL	635475	4176100	NonCancer	0.00E+00	3.59E-07	3.64E-05	0.00E+00	0.00E+00	3.65E-05	3.59E-07	0.00E+00	3.59E-07	0.00E+00	0.00E+00	3.64E-05	0.00E+00	0.00E+00	3.65E-05
483	ALL	635525	4176100	NonCancer	0.00E+00	3.45E-07	3.50E-05	0.00E+00	0.00E+00	3.52E-05	3.45E-07	0.00E+00	3.45E-07	0.00E+00	0.00E+00	3.50E-05	0.00E+00	0.00E+00	3.52E-05
484	ALL	635575	4176100	NonCancer	0.00E+00	3.35E-07	3.40E-05	0.00E+00	0.00E+00	3.41E-05	3.35E-07	0.00E+00	3.35E-07	0.00E+00	0.00E+00	3.40E-05	0.00E+00	0.00E+00	3.41E-05
485	ALL	634825	4176150	NonCancer	0.00E+00	5.47E-07	5.54E-05	0.00E+00	0.00E+00	5.56E-05	5.47E-07	0.00E+00	5.47E-07	0.00E+00	0.00E+00	5.54E-05	0.00E+00	0.00E+00	5.56E-05
486	ALL	634875	4176150	NonCancer	0.00E+00	5.27E-07	5.34E-05	0.00E+00	0.00E+00	5.36E-05	5.27E-07	0.00E+00	5.27E-07	0.00E+00	0.00E+00	5.34E-05	0.00E+00	0.00E+00	5.36E-05
487	ALL	634925	4176150	NonCancer	0.00E+00	5.09E-07	5.16E-05	0.00E+00	0.00E+00	5.18E-05	5.09E-07	0.00E+00	5.09E-07	0.00E+00	0.00E+00	5.16E-05	0.00E+00	0.00E+00	5.18E-05
488	ALL	634975	4176150	NonCancer	0.00E+00	4.95E-07	5.02E-05	0.00E+00	0.00E+00	5.04E-05	4.95E-07	0.00E+00	4.95E-07	0.00E+00	0.00E+00	5.02E-05	0.00E+00	0.00E+00	5.04E-05
489	ALL	635025	4176150	NonCancer	0.00E+00	4.80E-07	4.87E-05	0.00E+00	0.00E+00	4.89E-05	4.80E-07	0.00E+00	4.80E-07	0.00E+00	0.00E+00	4.87E-05	0.00E+00	0.00E+00	4.89E-05
490	ALL	635075	4176150	NonCancer	0.00E+00	4.63E-07	4.69E-05	0.00E+00	0.00E+00	4.71E-05	4.63E-07	0.00E+00	4.63E-07	0.00E+00	0.00E+00	4.69E-05	0.00E+00	0.00E+00	4.71E-05
491	ALL	635125	4176150	NonCancer	0.00E+00	4.48E-07	4.54E-05	0.00E+00	0.00E+00	4.56E-05	4.48E-07	0.00E+00	4.48E-07	0.00E+00	0.00E+00	4.54E-05	0.00E+00	0.00E+00	4.56E-05
492	ALL	635175	4176150	NonCancer	0.00E+00	4.36E-07	4.42E-05	0.00E+00	0.00E+00	4.44E-05	4.36E-07	0.00E+00	4.36E-07	0.00E+00	0.00E+00	4.42E-05	0.00E+00	0.00E+00	4.44E-05
493	ALL	635225	4176150	NonCancer	0.00E+00	4.23E-07	4.29E-05	0.00E+00	0.00E+00	4.31E-05	4.23E-07	0.00E+00	4.23E-07	0.00E+00	0.00E+00	4.29E-05	0.00E+00	0.00E+00	4.31E-05

494	ALL	635275	4176150	NonCancer	0.00E+00	4.12E-07	4.17E-05	0.00E+00	0.00E+00	4.19E-05	4.12E-07	0.00E+00	4.12E-07	0.00E+00	0.00E+00	4.17E-05	0.00E+00	0.00E+00	4.19E-05
495	ALL	635325	4176150	NonCancer	0.00E+00	3.99E-07	4.04E-05	0.00E+00	0.00E+00	4.06E-05	3.99E-07	0.00E+00	3.99E-07	0.00E+00	0.00E+00	4.04E-05	0.00E+00	0.00E+00	4.06E-05
496	ALL	635375	4176150	NonCancer	0.00E+00	3.86E-07	3.91E-05	0.00E+00	0.00E+00	3.93E-05	3.86E-07	0.00E+00	3.86E-07	0.00E+00	0.00E+00	3.91E-05	0.00E+00	0.00E+00	3.93E-05
497	ALL	635425	4176150	NonCancer	0.00E+00	3.76E-07	3.81E-05	0.00E+00	0.00E+00	3.83E-05	3.76E-07	0.00E+00	3.76E-07	0.00E+00	0.00E+00	3.81E-05	0.00E+00	0.00E+00	3.83E-05
498	ALL	635475	4176150	NonCancer	0.00E+00	3.68E-07	3.73E-05	0.00E+00	0.00E+00	3.74E-05	3.68E-07	0.00E+00	3.68E-07	0.00E+00	0.00E+00	3.73E-05	0.00E+00	0.00E+00	3.74E-05
499	ALL	635525	4176150	NonCancer	0.00E+00	3.58E-07	3.63E-05	0.00E+00	0.00E+00	3.65E-05	3.58E-07	0.00E+00	3.58E-07	0.00E+00	0.00E+00	3.63E-05	0.00E+00	0.00E+00	3.65E-05
500	ALL	635575	4176150	NonCancer	0.00E+00	3.49E-07	3.54E-05	0.00E+00	0.00E+00	3.55E-05	3.49E-07	0.00E+00	3.49E-07	0.00E+00	0.00E+00	3.54E-05	0.00E+00	0.00E+00	3.55E-05
501	ALL	634875	4176200	NonCancer	0.00E+00	5.27E-07	5.34E-05	0.00E+00	0.00E+00	5.36E-05	5.27E-07	0.00E+00	5.27E-07	0.00E+00	0.00E+00	5.34E-05	0.00E+00	0.00E+00	5.36E-05
502	ALL	634925	4176200	NonCancer	0.00E+00	5.07E-07	5.14E-05	0.00E+00	0.00E+00	5.16E-05	5.07E-07	0.00E+00	5.07E-07	0.00E+00	0.00E+00	5.14E-05	0.00E+00	0.00E+00	5.16E-05
503	ALL	634975	4176200	NonCancer	0.00E+00	4.89E-07	4.95E-05	0.00E+00	0.00E+00	4.97E-05	4.89E-07	0.00E+00	4.89E-07	0.00E+00	0.00E+00	4.95E-05	0.00E+00	0.00E+00	4.97E-05
504	ALL	635125	4176200	NonCancer	0.00E+00	4.46E-07	4.52E-05	0.00E+00	0.00E+00	4.54E-05	4.46E-07	0.00E+00	4.46E-07	0.00E+00	0.00E+00	4.52E-05	0.00E+00	0.00E+00	4.54E-05
505	ALL	635175	4176200	NonCancer	0.00E+00	4.32E-07	4.38E-05	0.00E+00	0.00E+00	4.40E-05	4.32E-07	0.00E+00	4.32E-07	0.00E+00	0.00E+00	4.38E-05	0.00E+00	0.00E+00	4.40E-05
506	ALL	635225	4176200	NonCancer	0.00E+00	4.21E-07	4.27E-05	0.00E+00	0.00E+00	4.28E-05	4.21E-07	0.00E+00	4.21E-07	0.00E+00	0.00E+00	4.27E-05	0.00E+00	0.00E+00	4.28E-05
507	ALL	635525	4176200	NonCancer	0.00E+00	3.56E-07	3.61E-05	0.00E+00	0.00E+00	3.62E-05	3.56E-07	0.00E+00	3.56E-07	0.00E+00	0.00E+00	3.61E-05	0.00E+00	0.00E+00	3.62E-05
508	ALL	635575	4176200	NonCancer	0.00E+00	3.46E-07	3.51E-05	0.00E+00	0.00E+00	3.52E-05	3.46E-07	0.00E+00	3.46E-07	0.00E+00	0.00E+00	3.51E-05	0.00E+00	0.00E+00	3.52E-05
509	ALL	634325	4176250	NonCancer	0.00E+00	7.75E-07	7.86E-05	0.00E+00	0.00E+00	7.89E-05	7.75E-07	0.00E+00	7.75E-07	0.00E+00	0.00E+00	7.86E-05	0.00E+00	0.00E+00	7.89E-05
510	ALL	634375	4176250	NonCancer	0.00E+00	7.50E-07	7.60E-05	0.00E+00	0.00E+00	7.63E-05	7.50E-07	0.00E+00	7.50E-07	0.00E+00	0.00E+00	7.60E-05	0.00E+00	0.00E+00	7.63E-05
511	ALL	634875	4176250	NonCancer	0.00E+00	5.14E-07	5.21E-05	0.00E+00	0.00E+00	5.23E-05	5.14E-07	0.00E+00	5.14E-07	0.00E+00	0.00E+00	5.21E-05	0.00E+00	0.00E+00	5.23E-05
512	ALL	634925	4176250	NonCancer	0.00E+00	4.89E-07	4.96E-05	0.00E+00	0.00E+00	4.98E-05	4.89E-07	0.00E+00	4.89E-07	0.00E+00	0.00E+00	4.96E-05	0.00E+00	0.00E+00	4.98E-05
513	ALL	634975	4176250	NonCancer	0.00E+00	4.81E-07	4.87E-05	0.00E+00	0.00E+00	4.89E-05	4.81E-07	0.00E+00	4.81E-07	0.00E+00	0.00E+00	4.87E-05	0.00E+00	0.00E+00	4.89E-05
514	ALL	635025	4176250	NonCancer	0.00E+00	4.71E-07	4.77E-05	0.00E+00	0.00E+00	4.79E-05	4.71E-07	0.00E+00	4.71E-07	0.00E+00	0.00E+00	4.77E-05	0.00E+00	0.00E+00	4.79E-05
515	ALL	635075	4176250	NonCancer	0.00E+00	4.58E-07	4.65E-05	0.00E+00	0.00E+00	4.67E-05	4.58E-07	0.00E+00	4.58E-07	0.00E+00	0.00E+00	4.65E-05	0.00E+00	0.00E+00	4.67E-05
516	ALL	635125	4176250	NonCancer	0.00E+00	4.45E-07	4.51E-05	0.00E+00	0.00E+00	4.53E-05	4.45E-07	0.00E+00	4.45E-07	0.00E+00	0.00E+00	4.51E-05	0.00E+00	0.00E+00	4.53E-05
517	ALL	635175	4176250	NonCancer	0.00E+00	4.30E-07	4.36E-05	0.00E+00	0.00E+00	4.38E-05	4.30E-07	0.00E+00	4.30E-07	0.00E+00	0.00E+00	4.36E-05	0.00E+00	0.00E+00	4.38E-05
518	ALL	635225	4176250	NonCancer	0.00E+00	4.17E-07	4.23E-05	0.00E+00	0.00E+00	4.25E-05	4.17E-07	0.00E+00	4.17E-07	0.00E+00	0.00E+00	4.23E-05	0.00E+00	0.00E+00	4.25E-05
519	ALL	635275	4176250	NonCancer	0.00E+00	4.07E-07	4.12E-05	0.00E+00	0.00E+00	4.14E-05	4.07E-07	0.00E+00	4.07E-07	0.00E+00	0.00E+00	4.12E-05	0.00E+00	0.00E+00	4.14E-05
520	ALL	635375	4176250	NonCancer	0.00E+00	3.83E-07	3.88E-05	0.00E+00	0.00E+00	3.90E-05	3.83E-07	0.00E+00	3.83E-07	0.00E+00	0.00E+00	3.88E-05	0.00E+00	0.00E+00	3.90E-05
521	ALL	635425	4176250	NonCancer	0.00E+00	3.71E-07	3.76E-05	0.00E+00	0.00E+00	3.77E-05	3.71E-07	0.00E+00	3.71E-07	0.00E+00	0.00E+00	3.76E-05	0.00E+00	0.00E+00	3.77E-05
522	ALL	635525	4176250	NonCancer	0.00E+00	3.54E-07	3.59E-05	0.00E+00	0.00E+00	3.61E-05	3.54E-07	0.00E+00	3.54E-07	0.00E+00	0.00E+00	3.59E-05	0.00E+00	0.00E+00	3.61E-05
523	ALL	635575	4176250	NonCancer	0.00E+00	3.46E-07	3.50E-05	0.00E+00	0.00E+00	3.52E-05	3.46E-07	0.00E+00	3.46E-07	0.00E+00	0.00E+00	3.50E-05	0.00E+00	0.00E+00	3.52E-05
524	ALL	634875	4176300	NonCancer	0.00E+00	5.15E-07	5.22E-05	0.00E+00	0.00E+00	5.24E-05	5.15E-07	0.00E+00	5.15E-07	0.00E+00	0.00E+00	5.22E-05	0.00E+00	0.00E+00	5.24E-05
525	ALL	634925	4176300	NonCancer	0.00E+00	4.98E-07	5.05E-05	0.00E+00	0.00E+00	5.07E-05	4.98E-07	0.00E+00	4.98E-07	0.00E+00	0.00E+00	5.05E-05	0.00E+00	0.00E+00	5.07E-05
526	ALL	634975	4176300	NonCancer	0.00E+00	4.85E-07	4.91E-05	0.00E+00	0.00E+00	4.93E-05	4.85E-07	0.00E+00	4.85E-07	0.00E+00	0.00E+00	4.91E-05	0.00E+00	0.00E+00	4.93E-05
527	ALL	635025	4176300	NonCancer	0.00E+00	4.69E-07	4.75E-05	0.00E+00	0.00E+00	4.77E-05	4.69E-07	0.00E+00	4.69E-07	0.00E+00	0.00E+00	4.75E-05	0.00E+00	0.00E+00	4.77E-05
528	ALL	635075	4176300	NonCancer	0.00E+00	4.50E-07	4.56E-05	0.00E+00	0.00E+00	4.58E-05	4.50E-07	0.00E+00	4.50E-07	0.00E+00	0.00E+00	4.56E-05	0.00E+00	0.00E+00	4.58E-05
529	ALL	635125	4176300	NonCancer	0.00E+00	4.30E-07	4.36E-05	0.00E+00	0.00E+00	4.38E-05	4.30E-07	0.00E+00	4.30E-07	0.00E+00	0.00E+00	4.36E-05	0.00E+00	0.00E+00	4.38E-05
530	ALL	635175	4176300	NonCancer	0.00E+00	4.18E-07	4.24E-05	0.00E+00	0.00E+00	4.25E-05	4.18E-07	0.00E+00	4.18E-07	0.00E+00	0.00E+00	4.24E-05	0.00E+00	0.00E+00	4.25E-05
531	ALL	635225	4176300	NonCancer	0.00E+00	4.12E-07	4.17E-05	0.00E+00	0.00E+00	4.19E-05	4.12E-07	0.00E+00	4.12E-07	0.00E+00	0.00E+00	4.17E-05	0.00E+00	0.00E+00	4.19E-05
532	ALL	635275	4176300	NonCancer	0.00E+00	4.04E-07	4.10E-05	0.00E+00	0.00E+00	4.11E-05	4.04E-07	0.00E+00	4.04E-07	0.00E+00	0.00E+00	4.10E-05	0.00E+00	0.00E+00	4.11E-05
533	ALL	635375	4176300	NonCancer	0.00E+00	3.82E-07	3.87E-05	0.00E+00	0.00E+00	3.89E-05	3.82E-07	0.00E+00	3.82E-07	0.00E+00	0.00E+00	3.87E-05	0.00E+00	0.00E+00	3.89E-05
534	ALL	635425	4176300	NonCancer	0.00E+00	3.70E-07	3.75E-05	0.00E+00	0.00E+00	3.76E-05	3.70E-07	0.00E+00	3.70E-07	0.00E+00	0.00E+00	3.75E-05	0.00E+00	0.00E+00	3.76E-05
535	ALL	635525	4176300	NonCancer	0.00E+00	3.52E-07	3.57E-05	0.00E+00	0.00E+00	3.58E-05	3.52E-07	0.00E+00	3.52E-07	0.00E+00	0.00E+00	3.57E-05	0.00E+00	0.00E+00	3.58E-05
536	ALL	635575	4176300	NonCancer	0.00E+00	3.43E-07	3.47E-05	0.00E+00	0.00E+00	3.49E-05	3.43E-07	0.00E+00	3.43E-07	0.00E+00	0.00E+00	3.47E-05	0.00E+00	0.00E+00	3.49E-05
537	ALL	634875	4176350	NonCancer	0.00E+00	5.11E-07	5.18E-05	0.00E+00	0.00E+00	5.20E-05	5.11E-07	0.00E+00	5.11E-07	0.00E+00	0.00E+00	5.18E-05	0.00E+00	0.00E+00	5.20E-05
538	ALL	634925	4176350	NonCancer	0.00E+00	4.93E-07	5.00E-05	0.00E+00	0.00E+00	5.02E-05	4.93E-07	0.00E+00	4.93E-07	0.00E+00	0.00E+00	5.00E-05	0.00E+00	0.00E+00	5.02E-05
539	ALL	634975	4176350	NonCancer	0.00E+00	4.79E-07	4.85E-05	0.00E+00	0.00E+00	4.87E-05	4.79E-07	0.00E+00	4.79E-07	0.00E+00	0.00E+00	4.85E-05	0.00E+00	0.00E+00	4.87E-05
540	ALL	635025	4176350	NonCancer	0.00E+00	4.66E-07	4.72E-05	0.00E+00	0.00E+00	4.74E-05	4.66E-07	0.00E+00	4.66E-07	0.00E+00	0.00E+00	4.72E-05	0.00E+00	0.00E+00	4.74E-05
541	ALL	635075	4176350	NonCancer	0.00E+00	4.50E-07	4.56E-05	0.00E+00	0.00E+00	4.57E-05	4.50E-07	0.00E+00	4.50E-07	0.00E+00	0.00E+00	4.56E-05	0.00E+00	0.00E+00	4.57E-05
542	ALL	635125	4176350	NonCancer	0.00E+00	4.37E-07	4.43E-05	0.00E+00	0.00E+00	4.44E-05	4.37E-07	0.00E+00	4.37E-07	0.00E+00	0.00E+00	4.43E-05	0.00E+00	0.00E+00	4.44E-05
543	ALL	635175	4176350	NonCancer	0.00E+00	4.25E-07	4.31E-05	0.00E+00	0.00E+00	4.33E-05	4.25E-07	0.00E+00	4.25E-07	0.00E+00	0.00E+00	4.31E-05	0.00E+00	0.00E+00	4.33E-05
544	ALL	635225	4176350	NonCancer	0.00E+00	4.13E-07	4.19E-05	0.00E+00	0.00E+00	4.20E-05	4.13E-07	0.00E+00	4.13E-07	0.00E+00	0.00E+00	4.19E-05	0.00E+00	0.00E+00	4.20E-05
545	ALL	635275	4176350	NonCancer	0.00E+00	3.98E-07	4.03E-05	0.00E+00	0.00E+00	4.05E-05	3.98E-07	0.00E+00	3.98E-07	0.00E+00	0.00E+00	4.03E-05	0.00E+00	0.00E+00	4.05E-05
546	ALL	635375	4176350	NonCancer	0.00E+00	3.67E-07	3.72E-05	0.00E+00	0.00E+00	3.74E-05	3.67E-07	0.00E+00	3.67E-07	0.00E+00	0.00E+00	3.72E-05	0.00E+00	0.00E+00	3.74E-05
547	ALL	635425	4176350	NonCancer	0.00E+00	3.63E-07	3.68E-05	0.00E+00	0.00E+00	3.69E-05	3.63E-07	0.00E+00	3.63E-07	0.00E+00	0.00E+00	3.68E-05	0.00E+00	0.00E+00	3.69E-05
548	ALL	635525	4176350	NonCancer	0.00E+00	3.50E-07	3.54E-05	0.00E+00	0.00E+00	3.56E-05	3.50E-07	0.00E+00	3.50E-07	0.00E+00	0.00E+00	3.54E-05	0.00E+00	0.00E+00	3.56E-05

549	ALL	635575	4176350	NonCancer	0.00E+00	3.41E-07	3.45E-05	0.00E+00	0.00E+00	3.47E-05	3.41E-07	0.00E+00	3.41E-07	0.00E+00	0.00E+00	3.45E-05	0.00E+00	0.00E+00	3.47E-05
550	ALL	634875	4176400	NonCancer	0.00E+00	5.04E-07	5.11E-05	0.00E+00	0.00E+00	5.13E-05	5.04E-07	0.00E+00	5.04E-07	0.00E+00	0.00E+00	5.11E-05	0.00E+00	0.00E+00	5.13E-05
551	ALL	634925	4176400	NonCancer	0.00E+00	4.90E-07	4.97E-05	0.00E+00	0.00E+00	4.99E-05	4.90E-07	0.00E+00	4.90E-07	0.00E+00	0.00E+00	4.97E-05	0.00E+00	0.00E+00	4.99E-05
552	ALL	634975	4176400	NonCancer	0.00E+00	4.72E-07	4.79E-05	0.00E+00	0.00E+00	4.81E-05	4.72E-07	0.00E+00	4.72E-07	0.00E+00	0.00E+00	4.79E-05	0.00E+00	0.00E+00	4.81E-05
553	ALL	635025	4176400	NonCancer	0.00E+00	4.60E-07	4.67E-05	0.00E+00	0.00E+00	4.69E-05	4.60E-07	0.00E+00	4.60E-07	0.00E+00	0.00E+00	4.67E-05	0.00E+00	0.00E+00	4.69E-05
554	ALL	635075	4176400	NonCancer	0.00E+00	4.47E-07	4.53E-05	0.00E+00	0.00E+00	4.55E-05	4.47E-07	0.00E+00	4.47E-07	0.00E+00	0.00E+00	4.53E-05	0.00E+00	0.00E+00	4.55E-05
555	ALL	635125	4176400	NonCancer	0.00E+00	4.31E-07	4.37E-05	0.00E+00	0.00E+00	4.39E-05	4.31E-07	0.00E+00	4.31E-07	0.00E+00	0.00E+00	4.37E-05	0.00E+00	0.00E+00	4.39E-05
556	ALL	635175	4176400	NonCancer	0.00E+00	4.22E-07	4.28E-05	0.00E+00	0.00E+00	4.30E-05	4.22E-07	0.00E+00	4.22E-07	0.00E+00	0.00E+00	4.28E-05	0.00E+00	0.00E+00	4.30E-05
557	ALL	635225	4176400	NonCancer	0.00E+00	4.11E-07	4.16E-05	0.00E+00	0.00E+00	4.18E-05	4.11E-07	0.00E+00	4.11E-07	0.00E+00	0.00E+00	4.16E-05	0.00E+00	0.00E+00	4.18E-05
558	ALL	635275	4176400	NonCancer	0.00E+00	3.97E-07	4.03E-05	0.00E+00	0.00E+00	4.04E-05	3.97E-07	0.00E+00	3.97E-07	0.00E+00	0.00E+00	4.03E-05	0.00E+00	0.00E+00	4.04E-05
559	ALL	635425	4176400	NonCancer	0.00E+00	3.67E-07	3.72E-05	0.00E+00	0.00E+00	3.73E-05	3.67E-07	0.00E+00	3.67E-07	0.00E+00	0.00E+00	3.72E-05	0.00E+00	0.00E+00	3.73E-05
560	ALL	635525	4176400	NonCancer	0.00E+00	3.40E-07	3.45E-05	0.00E+00	0.00E+00	3.46E-05	3.40E-07	0.00E+00	3.40E-07	0.00E+00	0.00E+00	3.45E-05	0.00E+00	0.00E+00	3.46E-05
561	ALL	635575	4176400	NonCancer	0.00E+00	3.26E-07	3.31E-05	0.00E+00	0.00E+00	3.32E-05	3.26E-07	0.00E+00	3.26E-07	0.00E+00	0.00E+00	3.31E-05	0.00E+00	0.00E+00	3.32E-05
562	ALL	633650	4176200	NonCancer	0.00E+00	1.70E-06	1.72E-04	0.00E+00	0.00E+00	1.73E-04	1.70E-06	0.00E+00	1.70E-06	0.00E+00	0.00E+00	1.72E-04	0.00E+00	0.00E+00	1.73E-04
563	ALL	633700	4176200	NonCancer	0.00E+00	1.58E-06	1.60E-04	0.00E+00	0.00E+00	1.61E-04	1.58E-06	0.00E+00	1.58E-06	0.00E+00	0.00E+00	1.60E-04	0.00E+00	0.00E+00	1.61E-04
564	ALL	633850	4176200	NonCancer	0.00E+00	1.30E-06	1.32E-04	0.00E+00	0.00E+00	1.32E-04	1.30E-06	0.00E+00	1.30E-06	0.00E+00	0.00E+00	1.32E-04	0.00E+00	0.00E+00	1.32E-04
565	ALL	633850	4176250	NonCancer	0.00E+00	1.25E-06	1.26E-04	0.00E+00	0.00E+00	1.27E-04	1.25E-06	0.00E+00	1.25E-06	0.00E+00	0.00E+00	1.26E-04	0.00E+00	0.00E+00	1.27E-04
566	ALL	633950	4176250	NonCancer	0.00E+00	1.14E-06	1.15E-04	0.00E+00	0.00E+00	1.16E-04	1.14E-06	0.00E+00	1.14E-06	0.00E+00	0.00E+00	1.15E-04	0.00E+00	0.00E+00	1.16E-04
567	ALL	634350	4176250	NonCancer	0.00E+00	7.59E-07	7.69E-05	0.00E+00	0.00E+00	7.73E-05	7.59E-07	0.00E+00	7.59E-07	0.00E+00	0.00E+00	7.69E-05	0.00E+00	0.00E+00	7.73E-05
568	ALL	633750	4176300	NonCancer	0.00E+00	1.52E-06	1.54E-04	0.00E+00	0.00E+00	1.55E-04	1.52E-06	0.00E+00	1.52E-06	0.00E+00	0.00E+00	1.54E-04	0.00E+00	0.00E+00	1.55E-04
569	ALL	633950	4176300	NonCancer	0.00E+00	1.08E-06	1.10E-04	0.00E+00	0.00E+00	1.10E-04	1.08E-06	0.00E+00	1.08E-06	0.00E+00	0.00E+00	1.10E-04	0.00E+00	0.00E+00	1.10E-04
570	ALL	634000	4176300	NonCancer	0.00E+00	1.05E-06	1.07E-04	0.00E+00	0.00E+00	1.07E-04	1.05E-06	0.00E+00	1.05E-06	0.00E+00	0.00E+00	1.07E-04	0.00E+00	0.00E+00	1.07E-04
571	ALL	634050	4176300	NonCancer	0.00E+00	9.97E-07	1.01E-04	0.00E+00	0.00E+00	1.01E-04	9.97E-07	0.00E+00	9.97E-07	0.00E+00	0.00E+00	1.01E-04	0.00E+00	0.00E+00	1.01E-04
572	ALL	634050	4176350	NonCancer	0.00E+00	9.55E-07	9.68E-05	0.00E+00	0.00E+00	9.72E-05	9.55E-07	0.00E+00	9.55E-07	0.00E+00	0.00E+00	9.68E-05	0.00E+00	0.00E+00	9.72E-05
573	ALL	634050	4176400	NonCancer	0.00E+00	9.52E-07	9.65E-05	0.00E+00	0.00E+00	9.69E-05	9.52E-07	0.00E+00	9.52E-07	0.00E+00	0.00E+00	9.65E-05	0.00E+00	0.00E+00	9.69E-05
574	ALL	634000	4176450	NonCancer	0.00E+00	1.06E-06	1.08E-04	0.00E+00	0.00E+00	1.08E-04	1.06E-06	0.00E+00	1.06E-06	0.00E+00	0.00E+00	1.08E-04	0.00E+00	0.00E+00	1.08E-04
575	ALL	634050	4176450	NonCancer	0.00E+00	9.85E-07	9.98E-05	0.00E+00	0.00E+00	1.00E-04	9.85E-07	0.00E+00	9.85E-07	0.00E+00	0.00E+00	9.98E-05	0.00E+00	0.00E+00	1.00E-04
576	ALL	634200	4176600	NonCancer	0.00E+00	8.33E-07	8.45E-05	0.00E+00	0.00E+00	8.48E-05	8.33E-07	0.00E+00	8.33E-07	0.00E+00	0.00E+00	8.45E-05	0.00E+00	0.00E+00	8.48E-05
577	ALL	634100	4176650	NonCancer	0.00E+00	8.87E-07	8.99E-05	0.00E+00	0.00E+00	9.03E-05	8.87E-07	0.00E+00	8.87E-07	0.00E+00	0.00E+00	8.99E-05	0.00E+00	0.00E+00	9.03E-05
578	ALL	634150	4176650	NonCancer	0.00E+00	8.40E-07	8.51E-05	0.00E+00	0.00E+00	8.54E-05	8.40E-07	0.00E+00	8.40E-07	0.00E+00	0.00E+00	8.51E-05	0.00E+00	0.00E+00	8.54E-05
579	ALL	634200	4176650	NonCancer	0.00E+00	8.07E-07	8.18E-05	0.00E+00	0.00E+00	8.21E-05	8.07E-07	0.00E+00	8.07E-07	0.00E+00	0.00E+00	8.18E-05	0.00E+00	0.00E+00	8.21E-05
580	ALL	634200	4176850	NonCancer	0.00E+00	7.13E-07	7.23E-05	0.00E+00	0.00E+00	7.26E-05	7.13E-07	0.00E+00	7.13E-07	0.00E+00	0.00E+00	7.23E-05	0.00E+00	0.00E+00	7.26E-05
581	ALL	634200	4176900	NonCancer	0.00E+00	7.10E-07	7.20E-05	0.00E+00	0.00E+00	7.23E-05	7.10E-07	0.00E+00	7.10E-07	0.00E+00	0.00E+00	7.20E-05	0.00E+00	0.00E+00	7.23E-05
582	ALL	634250	4176900	NonCancer	0.00E+00	6.81E-07	6.91E-05	0.00E+00	0.00E+00	6.93E-05	6.81E-07	0.00E+00	6.81E-07	0.00E+00	0.00E+00	6.91E-05	0.00E+00	0.00E+00	6.93E-05
583	ALL	634300	4176900	NonCancer	0.00E+00	6.68E-07	6.77E-05	0.00E+00	0.00E+00	6.79E-05	6.68E-07	0.00E+00	6.68E-07	0.00E+00	0.00E+00	6.77E-05	0.00E+00	0.00E+00	6.79E-05
584	ALL	634400	4177000	NonCancer	0.00E+00	5.88E-07	5.97E-05	0.00E+00	0.00E+00	5.99E-05	5.88E-07	0.00E+00	5.88E-07	0.00E+00	0.00E+00	5.97E-05	0.00E+00	0.00E+00	5.99E-05
585	ALL	634450	4177000	NonCancer	0.00E+00	5.82E-07	5.90E-05	0.00E+00	0.00E+00	5.93E-05	5.82E-07	0.00E+00	5.82E-07	0.00E+00	0.00E+00	5.90E-05	0.00E+00	0.00E+00	5.93E-05
586	ALL	634500	4177000	NonCancer	0.00E+00	5.67E-07	5.75E-05	0.00E+00	0.00E+00	5.77E-05	5.67E-07	0.00E+00	5.67E-07	0.00E+00	0.00E+00	5.75E-05	0.00E+00	0.00E+00	5.77E-05
587	ALL	634550	4177000	NonCancer	0.00E+00	5.58E-07	5.65E-05	0.00E+00	0.00E+00	5.68E-05	5.58E-07	0.00E+00	5.58E-07	0.00E+00	0.00E+00	5.65E-05	0.00E+00	0.00E+00	5.68E-05
588	ALL	634400	4177050	NonCancer	0.00E+00	5.89E-07	5.97E-05	0.00E+00	0.00E+00	6.00E-05	5.89E-07	0.00E+00	5.89E-07	0.00E+00	0.00E+00	5.97E-05	0.00E+00	0.00E+00	6.00E-05
589	ALL	634450	4177050	NonCancer	0.00E+00	5.51E-07	5.58E-05	0.00E+00	0.00E+00	5.60E-05	5.51E-07	0.00E+00	5.51E-07	0.00E+00	0.00E+00	5.58E-05	0.00E+00	0.00E+00	5.60E-05
590	ALL	634500	4177050	NonCancer	0.00E+00	5.57E-07	5.64E-05	0.00E+00	0.00E+00	5.67E-05	5.57E-07	0.00E+00	5.57E-07	0.00E+00	0.00E+00	5.64E-05	0.00E+00	0.00E+00	5.67E-05
591	ALL	634550	4177050	NonCancer	0.00E+00	5.42E-07	5.49E-05	0.00E+00	0.00E+00	5.52E-05	5.42E-07	0.00E+00	5.42E-07	0.00E+00	0.00E+00	5.49E-05	0.00E+00	0.00E+00	5.52E-05
592	ALL	633750	4173175	NonCancer	0.00E+00	7.88E-07	7.98E-05	0.00E+00	0.00E+00	8.02E-05	7.88E-07	0.00E+00	7.88E-07	0.00E+00	0.00E+00	7.98E-05	0.00E+00	0.00E+00	8.02E-05
593	ALL	634450	4173325	NonCancer	0.00E+00	5.06E-07	5.13E-05	0.00E+00	0.00E+00	5.15E-05	5.06E-07	0.00E+00	5.06E-07	0.00E+00	0.00E+00	5.13E-05	0.00E+00	0.00E+00	5.15E-05
594	ALL	634450	4173375	NonCancer	0.00E+00	4.50E-07	4.56E-05	0.00E+00	0.00E+00	4.58E-05	4.50E-07	0.00E+00	4.50E-07	0.00E+00	0.00E+00	4.56E-05	0.00E+00	0.00E+00	4.58E-05
595	ALL	634350	4173475	NonCancer	0.00E+00	5.78E-07	5.86E-05	0.00E+00	0.00E+00	5.88E-05	5.78E-07	0.00E+00	5.78E-07	0.00E+00	0.00E+00	5.86E-05	0.00E+00	0.00E+00	5.88E-05
596	ALL	634300	4173625	NonCancer	0.00E+00	5.04E-07	5.11E-05	0.00E+00	0.00E+00	5.13E-05	5.04E-07	0.00E+00	5.04E-07	0.00E+00	0.00E+00	5.11E-05	0.00E+00	0.00E+00	5.13E-05
597	ALL	634300	4173675	NonCancer	0.00E+00	6.31E-07	6.40E-05	0.00E+00	0.00E+00	6.43E-05	6.31E-07	0.00E+00	6.31E-07	0.00E+00	0.00E+00	6.40E-05	0.00E+00	0.00E+00	6.43E-05
598	ALL	634350	4173675	NonCancer	0.00E+00	7.43E-07	7.54E-05	0.00E+00	0.00E+00	7.57E-05	7.43E-07	0.00E+00	7.43E-07	0.00E+00	0.00E+00	7.54E-05	0.00E+00	0.00E+00	7.57E-05
599	ALL	634250	4173775	NonCancer	0.00E+00	7.56E-07	7.67E-05	0.00E+00	0.00E+00	7.70E-05	7.56E-07	0.00E+00	7.56E-07	0.00E+00	0.00E+00	7.67E-05	0.00E+00	0.00E+00	7.70E-05
600	ALL	633950	4173825	NonCancer	0.00E+00	1.07E-06	1.08E-04	0.00E+00	0.00E+00	1.09E-04	1.07E-06	0.00E+00	1.07E-06	0.00E+00	0.00E+00	1.08E-04	0.00E+00	0.00E+00	1.09E-04
601	ALL	634050	4173825	NonCancer	0.00E+00	9.97E-07	1.01E-04	0.00E+00	0.00E+00	1.01E-04	9.97E-07	0.00E+00	9.97E-07	0.00E+00	0.00E+00	1.01E-04	0.00E+00	0.00E+00	1.01E-04
602	ALL	634100	4173825	NonCancer	0.00E+00	8.95E-07	9.07E-05	0.00E+00	0.00E+00	9.11E-05	8.95E-07	0.00E+00	8.95E-07	0.00E+00	0.00E+00	9.07E-05	0.00E+00	0.00E+00	9.11E-05
603	ALL	634250	4173825	NonCancer	0.00E+00	8.82E-07	8.94E-05	0.00E+00	0.00E+00	8.98E-05	8.82E-07	0.00E+00	8.82E-07	0.00E+00	0.00E+00	8.94E-05	0.00E+00	0.00E+00	8.98E-05

604	ALL	634250	4173975	NonCancer	0.00E+00	9.98E-07	1.01E-04	0.00E+00	0.00E+00	1.02E-04	9.98E-07	0.00E+00	9.98E-07	0.00E+00	0.00E+00	1.01E-04	0.00E+00	0.00E+00	1.02E-04
605	ALL	634150	4174125	NonCancer	0.00E+00	1.22E-06	1.24E-04	0.00E+00	0.00E+00	1.24E-04	1.22E-06	0.00E+00	1.22E-06	0.00E+00	0.00E+00	1.24E-04	0.00E+00	0.00E+00	1.24E-04
606	ALL	634200	4174125	NonCancer	0.00E+00	1.16E-06	1.17E-04	0.00E+00	0.00E+00	1.18E-04	1.16E-06	0.00E+00	1.16E-06	0.00E+00	0.00E+00	1.17E-04	0.00E+00	0.00E+00	1.18E-04
607	ALL	634250	4174125	NonCancer	0.00E+00	9.37E-07	9.50E-05	0.00E+00	0.00E+00	9.54E-05	9.37E-07	0.00E+00	9.37E-07	0.00E+00	0.00E+00	9.50E-05	0.00E+00	0.00E+00	9.54E-05
608	ALL	634250	4174225	NonCancer	0.00E+00	1.13E-06	1.15E-04	0.00E+00	0.00E+00	1.15E-04	1.13E-06	0.00E+00	1.13E-06	0.00E+00	0.00E+00	1.15E-04	0.00E+00	0.00E+00	1.15E-04
609	ALL	634350	4174225	NonCancer	0.00E+00	1.21E-06	1.23E-04	0.00E+00	0.00E+00	1.24E-04	1.21E-06	0.00E+00	1.21E-06	0.00E+00	0.00E+00	1.23E-04	0.00E+00	0.00E+00	1.24E-04
610	ALL	634400	4174225	NonCancer	0.00E+00	1.05E-06	1.06E-04	0.00E+00	0.00E+00	1.06E-04	1.05E-06	0.00E+00	1.05E-06	0.00E+00	0.00E+00	1.06E-04	0.00E+00	0.00E+00	1.06E-04
611	ALL	634200	4174325	NonCancer	0.00E+00	1.47E-06	1.49E-04	0.00E+00	0.00E+00	1.49E-04	1.47E-06	0.00E+00	1.47E-06	0.00E+00	0.00E+00	1.49E-04	0.00E+00	0.00E+00	1.49E-04
612	ALL	634250	4174325	NonCancer	0.00E+00	1.43E-06	1.44E-04	0.00E+00	0.00E+00	1.45E-04	1.43E-06	0.00E+00	1.43E-06	0.00E+00	0.00E+00	1.44E-04	0.00E+00	0.00E+00	1.45E-04
613	ALL	634200	4174375	NonCancer	0.00E+00	1.58E-06	1.60E-04	0.00E+00	0.00E+00	1.61E-04	1.58E-06	0.00E+00	1.58E-06	0.00E+00	0.00E+00	1.60E-04	0.00E+00	0.00E+00	1.61E-04
614	ALL	634250	4174425	NonCancer	0.00E+00	1.30E-06	1.32E-04	0.00E+00	0.00E+00	1.33E-04	1.30E-06	0.00E+00	1.30E-06	0.00E+00	0.00E+00	1.32E-04	0.00E+00	0.00E+00	1.33E-04
615	ALL	634000	4174475	NonCancer	0.00E+00	1.49E-06	1.51E-04	0.00E+00	0.00E+00	1.51E-04	1.49E-06	0.00E+00	1.49E-06	0.00E+00	0.00E+00	1.51E-04	0.00E+00	0.00E+00	1.51E-04
616	ALL	634250	4174525	NonCancer	0.00E+00	1.53E-06	1.55E-04	0.00E+00	0.00E+00	1.56E-04	1.53E-06	0.00E+00	1.53E-06	0.00E+00	0.00E+00	1.55E-04	0.00E+00	0.00E+00	1.56E-04
617	ALL	634100	4174575	NonCancer	0.00E+00	1.89E-06	1.92E-04	0.00E+00	0.00E+00	1.93E-04	1.89E-06	0.00E+00	1.89E-06	0.00E+00	0.00E+00	1.92E-04	0.00E+00	0.00E+00	1.93E-04
618	ALL	634150	4174575	NonCancer	0.00E+00	1.82E-06	1.84E-04	0.00E+00	0.00E+00	1.85E-04	1.82E-06	0.00E+00	1.82E-06	0.00E+00	0.00E+00	1.84E-04	0.00E+00	0.00E+00	1.85E-04
619	ALL	634200	4174575	NonCancer	0.00E+00	1.69E-06	1.72E-04	0.00E+00	0.00E+00	1.72E-04	1.69E-06	0.00E+00	1.69E-06	0.00E+00	0.00E+00	1.72E-04	0.00E+00	0.00E+00	1.72E-04
620	ALL	634250	4174575	NonCancer	0.00E+00	1.52E-06	1.54E-04	0.00E+00	0.00E+00	1.55E-04	1.52E-06	0.00E+00	1.52E-06	0.00E+00	0.00E+00	1.54E-04	0.00E+00	0.00E+00	1.55E-04
621	ALL	634250	4174625	NonCancer	0.00E+00	1.51E-06	1.53E-04	0.00E+00	0.00E+00	1.54E-04	1.51E-06	0.00E+00	1.51E-06	0.00E+00	0.00E+00	1.53E-04	0.00E+00	0.00E+00	1.54E-04
622	ALL	634250	4174675	NonCancer	0.00E+00	1.72E-06	1.74E-04	0.00E+00	0.00E+00	1.75E-04	1.72E-06	0.00E+00	1.72E-06	0.00E+00	0.00E+00	1.74E-04	0.00E+00	0.00E+00	1.75E-04
623	ALL	634250	4174825	NonCancer	0.00E+00	2.37E-06	2.40E-04	0.00E+00	0.00E+00	2.41E-04	2.37E-06	0.00E+00	2.37E-06	0.00E+00	0.00E+00	2.40E-04	0.00E+00	0.00E+00	2.41E-04
624	ALL	634250	4174875	NonCancer	0.00E+00	1.69E-06	1.71E-04	0.00E+00	0.00E+00	1.71E-04	1.69E-06	0.00E+00	1.69E-06	0.00E+00	0.00E+00	1.71E-04	0.00E+00	0.00E+00	1.71E-04
625	ALL	634200	4174925	NonCancer	0.00E+00	2.06E-06	2.09E-04	0.00E+00	0.00E+00	2.10E-04	2.06E-06	0.00E+00	2.06E-06	0.00E+00	0.00E+00	2.09E-04	0.00E+00	0.00E+00	2.10E-04
626	ALL	634250	4174925	NonCancer	0.00E+00	2.46E-06	2.50E-04	0.00E+00	0.00E+00	2.51E-04	2.46E-06	0.00E+00	2.46E-06	0.00E+00	0.00E+00	2.50E-04	0.00E+00	0.00E+00	2.51E-04
627	ALL	631950	4173950	NonCancer	0.00E+00	8.21E-07	8.32E-05	0.00E+00	0.00E+00	8.35E-05	8.21E-07	0.00E+00	8.21E-07	0.00E+00	0.00E+00	8.32E-05	0.00E+00	0.00E+00	8.35E-05
628	ALL	631550	4174000	NonCancer	0.00E+00	4.93E-07	5.00E-05	0.00E+00	0.00E+00	5.02E-05	4.93E-07	0.00E+00	4.93E-07	0.00E+00	0.00E+00	5.00E-05	0.00E+00	0.00E+00	5.02E-05
629	ALL	631550	4174050	NonCancer	0.00E+00	5.07E-07	5.14E-05	0.00E+00	0.00E+00	5.16E-05	5.07E-07	0.00E+00	5.07E-07	0.00E+00	0.00E+00	5.14E-05	0.00E+00	0.00E+00	5.16E-05
630	ALL	631750	4174250	NonCancer	0.00E+00	9.65E-07	9.78E-05	0.00E+00	0.00E+00	9.82E-05	9.65E-07	0.00E+00	9.65E-07	0.00E+00	0.00E+00	9.78E-05	0.00E+00	0.00E+00	9.82E-05
631	ALL	632300	4174300	NonCancer	0.00E+00	2.07E-06	2.10E-04	0.00E+00	0.00E+00	2.11E-04	2.07E-06	0.00E+00	2.07E-06	0.00E+00	0.00E+00	2.10E-04	0.00E+00	0.00E+00	2.11E-04
632	ALL	632350	4174300	NonCancer	0.00E+00	2.44E-06	2.47E-04	0.00E+00	0.00E+00	2.48E-04	2.44E-06	0.00E+00	2.44E-06	0.00E+00	0.00E+00	2.47E-04	0.00E+00	0.00E+00	2.48E-04
633	ALL	632300	4174350	NonCancer	0.00E+00	1.84E-06	1.86E-04	0.00E+00	0.00E+00	1.87E-04	1.84E-06	0.00E+00	1.84E-06	0.00E+00	0.00E+00	1.86E-04	0.00E+00	0.00E+00	1.87E-04
634	ALL	632350	4174350	NonCancer	0.00E+00	2.58E-06	2.62E-04	0.00E+00	0.00E+00	2.63E-04	2.58E-06	0.00E+00	2.58E-06	0.00E+00	0.00E+00	2.62E-04	0.00E+00	0.00E+00	2.63E-04
635	ALL	631600	4174400	NonCancer	0.00E+00	1.30E-06	1.32E-04	0.00E+00	0.00E+00	1.33E-04	1.30E-06	0.00E+00	1.30E-06	0.00E+00	0.00E+00	1.32E-04	0.00E+00	0.00E+00	1.33E-04
636	ALL	631650	4174400	NonCancer	0.00E+00	1.50E-06	1.53E-04	0.00E+00	0.00E+00	1.53E-04	1.50E-06	0.00E+00	1.50E-06	0.00E+00	0.00E+00	1.53E-04	0.00E+00	0.00E+00	1.53E-04
637	ALL	632000	4174400	NonCancer	0.00E+00	2.88E-06	2.92E-04	0.00E+00	0.00E+00	2.93E-04	2.88E-06	0.00E+00	2.88E-06	0.00E+00	0.00E+00	2.92E-04	0.00E+00	0.00E+00	2.93E-04
638	ALL	632000	4174450	NonCancer	0.00E+00	2.52E-06	2.55E-04	0.00E+00	0.00E+00	2.56E-04	2.52E-06	0.00E+00	2.52E-06	0.00E+00	0.00E+00	2.55E-04	0.00E+00	0.00E+00	2.56E-04
639	ALL	631950	4174500	NonCancer	0.00E+00	1.95E-06	1.98E-04	0.00E+00	0.00E+00	1.98E-04	1.95E-06	0.00E+00	1.95E-06	0.00E+00	0.00E+00	1.98E-04	0.00E+00	0.00E+00	1.98E-04
640	ALL	632150	4174950	NonCancer	0.00E+00	3.94E-06	4.00E-04	0.00E+00	0.00E+00	4.01E-04	3.94E-06	0.00E+00	3.94E-06	0.00E+00	0.00E+00	4.00E-04	0.00E+00	0.00E+00	4.01E-04
641	ALL	632200	4174950	NonCancer	0.00E+00	3.11E-06	3.15E-04	0.00E+00	0.00E+00	3.16E-04	3.11E-06	0.00E+00	3.11E-06	0.00E+00	0.00E+00	3.15E-04	0.00E+00	0.00E+00	3.16E-04

*HARP - HRACalc v19044 1/12/2021 10:04:37 AM - Chronic Risk - Input File: C:\Users\swang\Desktop\SchulteOpUnmit\hra\ChronicUnmitHRAInput.hra

REC	GRP	NETID	X	Y	SCENARIO	CV	CNS	IMMUN	KIDNEY	GILV	REPRO/DE\	RESP	SKIN	EYE	BONE/TEET	ENDO	BLOOD	ODOR	GENERAL	MAXHI
1	ALL		631050	4178050	NonCancer	0.00E+00	4.88E-10	0.00E+00	0.00E+00	0.00E+00	3.55E-10	9.12E-04	0.00E+00	1.33E-10	0.00E+00	0.00E+00	6.49E-09	0.00E+00	0.00E+00	9.12E-04
2	ALL		631150	4178250	NonCancer	0.00E+00	4.67E-10	0.00E+00	0.00E+00	0.00E+00	3.40E-10	9.79E-04	0.00E+00	1.27E-10	0.00E+00	0.00E+00	6.21E-09	0.00E+00	0.00E+00	9.79E-04
3	ALL		631250	4178250	NonCancer	0.00E+00	4.83E-10	0.00E+00	0.00E+00	0.00E+00	3.52E-10	9.61E-04	0.00E+00	1.31E-10	0.00E+00	0.00E+00	6.42E-09	0.00E+00	0.00E+00	9.61E-04
4	ALL		631350	4178250	NonCancer	0.00E+00	5.00E-10	0.00E+00	0.00E+00	0.00E+00	3.64E-10	9.86E-04	0.00E+00	1.36E-10	0.00E+00	0.00E+00	6.65E-09	0.00E+00	0.00E+00	9.86E-04
5	ALL		631450	4178250	NonCancer	0.00E+00	5.19E-10	0.00E+00	0.00E+00	0.00E+00	3.78E-10	1.00E-03	0.00E+00	1.41E-10	0.00E+00	0.00E+00	6.90E-09	0.00E+00	0.00E+00	1.00E-03
6	ALL		631550	4178250	NonCancer	0.00E+00	5.39E-10	0.00E+00	0.00E+00	0.00E+00	3.92E-10	1.03E-03	0.00E+00	1.46E-10	0.00E+00	0.00E+00	7.16E-09	0.00E+00	0.00E+00	1.03E-03
7	ALL		631650	4178250	NonCancer	0.00E+00	5.53E-10	0.00E+00	0.00E+00	0.00E+00	4.03E-10	1.17E-03	0.00E+00	1.50E-10	0.00E+00	0.00E+00	7.35E-09	0.00E+00	0.00E+00	1.17E-03
8	ALL		631750	4178250	NonCancer	0.00E+00	5.63E-10	0.00E+00	0.00E+00	0.00E+00	4.10E-10	1.23E-03	0.00E+00	1.53E-10	0.00E+00	0.00E+00	7.48E-09	0.00E+00	0.00E+00	1.23E-03
9	ALL		631150	4178350	NonCancer	0.00E+00	4.47E-10	0.00E+00	0.00E+00	0.00E+00	3.26E-10	9.35E-04	0.00E+00	1.22E-10	0.00E+00	0.00E+00	5.94E-09	0.00E+00	0.00E+00	9.35E-04
10	ALL		631450	4178350	NonCancer	0.00E+00	4.96E-10	0.00E+00	0.00E+00	0.00E+00	3.61E-10	9.66E-04	0.00E+00	1.35E-10	0.00E+00	0.00E+00	6.59E-09	0.00E+00	0.00E+00	9.66E-04
11	ALL		631550	4178350	NonCancer	0.00E+00	5.11E-10	0.00E+00	0.00E+00	0.00E+00	3.72E-10	1.04E-03	0.00E+00	1.39E-10	0.00E+00	0.00E+00	6.80E-09	0.00E+00	0.00E+00	1.04E-03
12	ALL		631650	4178350	NonCancer	0.00E+00	5.23E-10	0.00E+00	0.00E+00	0.00E+00	3.81E-10	1.16E-03	0.00E+00	1.42E-10	0.00E+00	0.00E+00	6.95E-09	0.00E+00	0.00E+00	1.16E-03
13	ALL		631750	4178350	NonCancer	0.00E+00	5.29E-10	0.00E+00	0.00E+00	0.00E+00	3.85E-10	1.17E-03	0.00E+00	1.44E-10	0.00E+00	0.00E+00	7.04E-09	0.00E+00	0.00E+00	1.17E-03
14	ALL		630650	4178450	NonCancer	0.00E+00	3.63E-10	0.00E+00	0.00E+00	0.00E+00	2.64E-10	7.31E-04	0.00E+00	9.88E-11	0.00E+00	0.00E+00	4.83E-09	0.00E+00	0.00E+00	7.31E-04
15	ALL		630850	4178450	NonCancer	0.00E+00	3.90E-10	0.00E+00	0.00E+00	0.00E+00	2.84E-10	8.12E-04	0.00E+00	1.06E-10	0.00E+00	0.00E+00	5.19E-09	0.00E+00	0.00E+00	8.12E-04
16	ALL		631050	4178450	NonCancer	0.00E+00	4.16E-10	0.00E+00	0.00E+00	0.00E+00	3.03E-10	9.16E-04	0.00E+00	1.13E-10	0.00E+00	0.00E+00	5.52E-09	0.00E+00	0.00E+00	9.16E-04
17	ALL		631150	4178450	NonCancer	0.00E+00	4.29E-10	0.00E+00	0.00E+00	0.00E+00	3.12E-10	8.73E-04	0.00E+00	1.17E-10	0.00E+00	0.00E+00	5.70E-09	0.00E+00	0.00E+00	8.73E-04
18	ALL		631250	4178450	NonCancer	0.00E+00	4.43E-10	0.00E+00	0.00E+00	0.00E+00	3.22E-10	8.89E-04	0.00E+00	1.20E-10	0.00E+00	0.00E+00	5.89E-09	0.00E+00	0.00E+00	8.89E-04
19	ALL		631550	4178450	NonCancer	0.00E+00	4.85E-10	0.00E+00	0.00E+00	0.00E+00	3.53E-10	1.06E-03	0.00E+00	1.32E-10	0.00E+00	0.00E+00	6.45E-09	0.00E+00	0.00E+00	1.06E-03
20	ALL		631650	4178450	NonCancer	0.00E+00	4.93E-10	0.00E+00	0.00E+00	0.00E+00	3.59E-10	1.10E-03	0.00E+00	1.34E-10	0.00E+00	0.00E+00	6.56E-09	0.00E+00	0.00E+00	1.10E-03
21	ALL		631750	4178450	NonCancer	0.00E+00	4.98E-10	0.00E+00	0.00E+00	0.00E+00	3.63E-10	1.12E-03	0.00E+00	1.35E-10	0.00E+00	0.00E+00	6.62E-09	0.00E+00	0.00E+00	1.12E-03
22	ALL		631850	4178450	NonCancer	0.00E+00	5.06E-10	0.00E+00	0.00E+00	0.00E+00	3.68E-10	1.14E-03	0.00E+00	1.38E-10	0.00E+00	0.00E+00	6.72E-09	0.00E+00	0.00E+00	1.14E-03
23	ALL		631950	4178450	NonCancer	0.00E+00	5.20E-10	0.00E+00	0.00E+00	0.00E+00	3.78E-10	1.16E-03	0.00E+00	1.41E-10	0.00E+00	0.00E+00	6.91E-09	0.00E+00	0.00E+00	1.16E-03
24	ALL		632050	4178450	NonCancer	0.00E+00	5.39E-10	0.00E+00	0.00E+00	0.00E+00	3.93E-10	1.16E-03	0.00E+00	1.47E-10	0.00E+00	0.00E+00	7.17E-09	0.00E+00	0.00E+00	1.16E-03
25	ALL		632150	4178450	NonCancer	0.00E+00	5.62E-10	0.00E+00	0.00E+00	0.00E+00	4.09E-10	1.20E-03	0.00E+00	1.53E-10	0.00E+00	0.00E+00	7.47E-09	0.00E+00	0.00E+00	1.20E-03
26	ALL		630550	4178550	NonCancer	0.00E+00	3.40E-10	0.00E+00	0.00E+00	0.00E+00	2.48E-10	6.96E-04	0.00E+00	9.25E-11	0.00E+00	0.00E+00	4.52E-09	0.00E+00	0.00E+00	6.96E-04
27	ALL		630650	4178550	NonCancer	0.00E+00	3.52E-10	0.00E+00	0.00E+00	0.00E+00	2.56E-10	7.11E-04	0.00E+00	9.58E-11	0.00E+00	0.00E+00	4.68E-09	0.00E+00	0.00E+00	7.11E-04
28	ALL		630750	4178550	NonCancer	0.00E+00	3.64E-10	0.00E+00	0.00E+00	0.00E+00	2.65E-10	7.67E-04	0.00E+00	9.91E-11	0.00E+00	0.00E+00	4.85E-09	0.00E+00	0.00E+00	7.67E-04
29	ALL		630950	4178550	NonCancer	0.00E+00	3.88E-10	0.00E+00	0.00E+00	0.00E+00	2.82E-10	8.91E-04	0.00E+00	1.05E-10	0.00E+00	0.00E+00	5.15E-09	0.00E+00	0.00E+00	8.91E-04
30	ALL		631050	4178550	NonCancer	0.00E+00	3.99E-10	0.00E+00	0.00E+00	0.00E+00	2.91E-10	8.35E-04	0.00E+00	1.09E-10	0.00E+00	0.00E+00	5.31E-09	0.00E+00	0.00E+00	8.35E-04
31	ALL		631250	4178550	NonCancer	0.00E+00	4.25E-10	0.00E+00	0.00E+00	0.00E+00	3.10E-10	8.53E-04	0.00E+00	1.16E-10	0.00E+00	0.00E+00	5.65E-09	0.00E+00	0.00E+00	8.53E-04
32	ALL		631350	4178550	NonCancer	0.00E+00	4.39E-10	0.00E+00	0.00E+00	0.00E+00	3.20E-10	8.71E-04	0.00E+00	1.19E-10	0.00E+00	0.00E+00	5.84E-09	0.00E+00	0.00E+00	8.71E-04
33	ALL		631450	4178550	NonCancer	0.00E+00	4.52E-10	0.00E+00	0.00E+00	0.00E+00	3.29E-10	9.63E-04	0.00E+00	1.23E-10	0.00E+00	0.00E+00	6.01E-09	0.00E+00	0.00E+00	9.63E-04
34	ALL		631550	4178550	NonCancer	0.00E+00	4.61E-10	0.00E+00	0.00E+00	0.00E+00	3.35E-10	1.05E-03	0.00E+00	1.25E-10	0.00E+00	0.00E+00	6.12E-09	0.00E+00	0.00E+00	1.05E-03
35	ALL		631650	4178550	NonCancer	0.00E+00	4.66E-10	0.00E+00	0.00E+00	0.00E+00	3.39E-10	1.05E-03	0.00E+00	1.27E-10	0.00E+00	0.00E+00	6.20E-09	0.00E+00	0.00E+00	1.05E-03
36	ALL		631750	4178550	NonCancer	0.00E+00	4.71E-10	0.00E+00	0.00E+00	0.00E+00	3.43E-10	1.08E-03	0.00E+00	1.28E-10	0.00E+00	0.00E+00	6.26E-09	0.00E+00	0.00E+00	1.08E-03
37	ALL		631850	4178550	NonCancer	0.00E+00	4.80E-10	0.00E+00	0.00E+00	0.00E+00	3.49E-10	1.07E-03	0.00E+00	1.30E-10	0.00E+00	0.00E+00	6.38E-09	0.00E+00	0.00E+00	1.07E-03
38	ALL		631950	4178550	NonCancer	0.00E+00	4.94E-10	0.00E+00	0.00E+00	0.00E+00	3.60E-10	1.11E-03	0.00E+00	1.34E-10	0.00E+00	0.00E+00	6.57E-09	0.00E+00	0.00E+00	1.11E-03
39	ALL		632050	4178550	NonCancer	0.00E+00	5.13E-10	0.00E+00	0.00E+00	0.00E+00	3.74E-10	1.08E-03	0.00E+00	1.40E-10	0.00E+00	0.00E+00	6.82E-09	0.00E+00	0.00E+00	1.08E-03
40	ALL		632150	4178550	NonCancer	0.00E+00	5.33E-10	0.00E+00	0.00E+00	0.00E+00	3.88E-10	1.14E-03	0.00E+00	1.45E-10	0.00E+00	0.00E+00	7.08E-09	0.00E+00	0.00E+00	1.14E-03
41	ALL		630450	4178650	NonCancer	0.00E+00	3.19E-10	0.00E+00	0.00E+00	0.00E+00	2.32E-10	6.63E-04	0.00E+00	8.68E-11	0.00E+00	0.00E+00	4.24E-09	0.00E+00	0.00E+00	6.63E-04
42	ALL		630550	4178650	NonCancer	0.00E+00	3.30E-10	0.00E+00	0.00E+00	0.00E+00	2.41E-10	6.66E-04	0.00E+00	8.98E-11	0.00E+00	0.00E+00	4.39E-09	0.00E+00	0.00E+00	6.66E-04
43	ALL		630650	4178650	NonCancer	0.00E+00	3.41E-10	0.00E+00	0.00E+00	0.00E+00	2.49E-10	7.23E-04	0.00E+00	9.28E-11	0.00E+00	0.00E+00	4.54E-09	0.00E+00	0.00E+00	7.23E-04
44	ALL		630750	4178650	NonCancer	0.00E+00	3.52E-10	0.00E+00	0.00E+00	0.00E+00	2.56E-10	8.12E-04	0.00E+00	9.58E-11	0.00E+00	0.00E+00	4.68E-09	0.00E+00	0.00E+00	8.12E-04
45	ALL		630850	4178650	NonCancer	0.00E+00	3.63E-10	0.00E+00	0.00E+00	0.00E+00	2.64E-10	8.65E-04	0.00E+00	9.86E-11	0.00E+00	0.00E+00	4.82E-09	0.00E+00	0.00E+00	8.65E-04
46	ALL		630950	4178650	NonCancer	0.00E+00	3.73E-10	0.00E+00	0.00E+00	0.00E+00	2.71E-10	8.31E-04	0.00E+00	1.01E-10	0.00E+00	0.00E+00	4.96E-09	0.00E+00	0.00E+00	8.31E-04
47	ALL		631050	4178650	NonCancer	0.00E+00	3.84E-10	0.00E+00	0.00E+00	0.00E+00	2.79E-10	7.92E-04	0.00E+00	1.04E-10	0.00E+00	0.00E+00	5.10E-09	0.00E+00	0.00E+00	7.92E-04
48	ALL		631150	4178650	NonCancer	0.00E+00	3.96E-10	0.00E+00	0.00E+00	0.00E+00	2.88E-10	7.96E-04	0.00E+00	1.08E-10	0.00E+00	0.00E+00	5.26E-09	0.00E+00	0.00E+00	7.96E-04
49	ALL		631250	4178650	NonCancer	0.00E+00	4.09E-10	0.00E+00	0.00E+00	0.00E+00	2.98E-10	8.27E-04	0.00E+00	1.11E-10	0.00E+00	0.00E+00	5.43E-09	0.00E+00	0.00E+00	8.27E-04
50	ALL		631350	4178650	NonCancer	0.00E+00	4.21E-10	0.00E+00	0.00E+00	0.00E+00	3.07E-10	8.54E-04	0.00E+00	1.14E-10	0.00E+00	0.00E+00	5.60E-09	0.00E+00	0.00E+00	8.54E-04
51	ALL		631450	4178650	NonCancer	0.00E+00	4.31E-10	0.00E+00	0.00E+00	0.00E+00	3.14E-10	9.74E-04	0.00E+00	1.17E-10	0.00E+00	0.00E+00	5.72E-09	0.00E+00	0.00E+00	9.74E-04
52	ALL		631550	4178650	NonCancer	0.00E+00	4.37E-10	0.00E+00	0.00E+00	0.00E+00	3.18E-10	1.00E-03	0.00E+00	1.19E-10	0.00E+00	0.00E+00	5.81E-09	0.00E+00	0.00E+00	1.00E-03
53	ALL		631650	4178650	NonCancer	0.00E+00	4.41E-10	0.00E+00	0.00E+00	0.00E+00	3.21E-10	1.01E-03	0.00E+00	1.20E-10	0.00E+00	0.00E+00	5.87E-09	0.00E+00	0.00E+00	1.01E-03

54	ALL	631750	4178650	NonCancer	0.00E+00	4.46E-10	0.00E+00	0.00E+00	0.00E+00	3.25E-10	1.04E-03	0.00E+00	1.21E-10	0.00E+00	0.00E+00	5.94E-09	0.00E+00	0.00E+00	1.04E-03
55	ALL	631850	4178650	NonCancer	0.00E+00	4.57E-10	0.00E+00	0.00E+00	0.00E+00	3.32E-10	1.05E-03	0.00E+00	1.24E-10	0.00E+00	0.00E+00	6.07E-09	0.00E+00	0.00E+00	1.05E-03
56	ALL	631950	4178650	NonCancer	0.00E+00	4.71E-10	0.00E+00	0.00E+00	0.00E+00	3.43E-10	1.06E-03	0.00E+00	1.28E-10	0.00E+00	0.00E+00	6.27E-09	0.00E+00	0.00E+00	1.06E-03
57	ALL	632050	4178650	NonCancer	0.00E+00	4.89E-10	0.00E+00	0.00E+00	0.00E+00	3.56E-10	1.06E-03	0.00E+00	1.33E-10	0.00E+00	0.00E+00	6.50E-09	0.00E+00	0.00E+00	1.06E-03
58	ALL	632150	4178650	NonCancer	0.00E+00	5.06E-10	0.00E+00	0.00E+00	0.00E+00	3.68E-10	1.07E-03	0.00E+00	1.38E-10	0.00E+00	0.00E+00	6.73E-09	0.00E+00	0.00E+00	1.07E-03
59	ALL	630350	4178750	NonCancer	0.00E+00	3.01E-10	0.00E+00	0.00E+00	0.00E+00	2.19E-10	6.33E-04	0.00E+00	8.17E-11	0.00E+00	0.00E+00	3.99E-09	0.00E+00	0.00E+00	6.33E-04
60	ALL	630450	4178750	NonCancer	0.00E+00	3.11E-10	0.00E+00	0.00E+00	0.00E+00	2.26E-10	6.25E-04	0.00E+00	8.44E-11	0.00E+00	0.00E+00	4.13E-09	0.00E+00	0.00E+00	6.25E-04
61	ALL	630550	4178750	NonCancer	0.00E+00	3.21E-10	0.00E+00	0.00E+00	0.00E+00	2.34E-10	6.84E-04	0.00E+00	8.72E-11	0.00E+00	0.00E+00	4.26E-09	0.00E+00	0.00E+00	6.84E-04
62	ALL	630650	4178750	NonCancer	0.00E+00	3.31E-10	0.00E+00	0.00E+00	0.00E+00	2.41E-10	7.70E-04	0.00E+00	8.99E-11	0.00E+00	0.00E+00	4.39E-09	0.00E+00	0.00E+00	7.70E-04
63	ALL	630750	4178750	NonCancer	0.00E+00	3.40E-10	0.00E+00	0.00E+00	0.00E+00	2.48E-10	8.36E-04	0.00E+00	9.25E-11	0.00E+00	0.00E+00	4.52E-09	0.00E+00	0.00E+00	8.36E-04
64	ALL	630850	4178750	NonCancer	0.00E+00	3.49E-10	0.00E+00	0.00E+00	0.00E+00	2.54E-10	8.23E-04	0.00E+00	9.50E-11	0.00E+00	0.00E+00	4.64E-09	0.00E+00	0.00E+00	8.23E-04
65	ALL	630950	4178750	NonCancer	0.00E+00	3.59E-10	0.00E+00	0.00E+00	0.00E+00	2.61E-10	7.53E-04	0.00E+00	9.76E-11	0.00E+00	0.00E+00	4.77E-09	0.00E+00	0.00E+00	7.53E-04
66	ALL	631050	4178750	NonCancer	0.00E+00	3.69E-10	0.00E+00	0.00E+00	0.00E+00	2.69E-10	7.64E-04	0.00E+00	1.00E-10	0.00E+00	0.00E+00	4.91E-09	0.00E+00	0.00E+00	7.64E-04
67	ALL	631150	4178750	NonCancer	0.00E+00	3.81E-10	0.00E+00	0.00E+00	0.00E+00	2.77E-10	7.84E-04	0.00E+00	1.04E-10	0.00E+00	0.00E+00	5.06E-09	0.00E+00	0.00E+00	7.84E-04
68	ALL	631250	4178750	NonCancer	0.00E+00	3.93E-10	0.00E+00	0.00E+00	0.00E+00	2.86E-10	7.93E-04	0.00E+00	1.07E-10	0.00E+00	0.00E+00	5.22E-09	0.00E+00	0.00E+00	7.93E-04
69	ALL	631350	4178750	NonCancer	0.00E+00	4.03E-10	0.00E+00	0.00E+00	0.00E+00	2.93E-10	8.91E-04	0.00E+00	1.10E-10	0.00E+00	0.00E+00	5.36E-09	0.00E+00	0.00E+00	8.91E-04
70	ALL	631450	4178750	NonCancer	0.00E+00	4.10E-10	0.00E+00	0.00E+00	0.00E+00	2.99E-10	9.50E-04	0.00E+00	1.12E-10	0.00E+00	0.00E+00	5.45E-09	0.00E+00	0.00E+00	9.50E-04
71	ALL	631550	4178750	NonCancer	0.00E+00	4.15E-10	0.00E+00	0.00E+00	0.00E+00	3.02E-10	9.54E-04	0.00E+00	1.13E-10	0.00E+00	0.00E+00	5.51E-09	0.00E+00	0.00E+00	9.54E-04
72	ALL	631650	4178750	NonCancer	0.00E+00	4.19E-10	0.00E+00	0.00E+00	0.00E+00	3.05E-10	9.81E-04	0.00E+00	1.14E-10	0.00E+00	0.00E+00	5.57E-09	0.00E+00	0.00E+00	9.81E-04
73	ALL	631750	4178750	NonCancer	0.00E+00	4.25E-10	0.00E+00	0.00E+00	0.00E+00	3.09E-10	9.79E-04	0.00E+00	1.16E-10	0.00E+00	0.00E+00	5.65E-09	0.00E+00	0.00E+00	9.79E-04
74	ALL	631850	4178750	NonCancer	0.00E+00	4.36E-10	0.00E+00	0.00E+00	0.00E+00	3.17E-10	1.00E-03	0.00E+00	1.18E-10	0.00E+00	0.00E+00	5.79E-09	0.00E+00	0.00E+00	1.00E-03
75	ALL	631950	4178750	NonCancer	0.00E+00	4.51E-10	0.00E+00	0.00E+00	0.00E+00	3.28E-10	9.88E-04	0.00E+00	1.23E-10	0.00E+00	0.00E+00	5.99E-09	0.00E+00	0.00E+00	9.88E-04
76	ALL	632050	4178750	NonCancer	0.00E+00	4.67E-10	0.00E+00	0.00E+00	0.00E+00	3.40E-10	1.03E-03	0.00E+00	1.27E-10	0.00E+00	0.00E+00	6.21E-09	0.00E+00	0.00E+00	1.03E-03
77	ALL	632150	4178750	NonCancer	0.00E+00	4.80E-10	0.00E+00	0.00E+00	0.00E+00	3.50E-10	1.04E-03	0.00E+00	1.31E-10	0.00E+00	0.00E+00	6.38E-09	0.00E+00	0.00E+00	1.04E-03
78	ALL	630250	4178850	NonCancer	0.00E+00	2.84E-10	0.00E+00	0.00E+00	0.00E+00	2.06E-10	6.09E-04	0.00E+00	7.71E-11	0.00E+00	0.00E+00	3.77E-09	0.00E+00	0.00E+00	6.09E-04
79	ALL	630350	4178850	NonCancer	0.00E+00	2.93E-10	0.00E+00	0.00E+00	0.00E+00	2.13E-10	5.92E-04	0.00E+00	7.96E-11	0.00E+00	0.00E+00	3.89E-09	0.00E+00	0.00E+00	5.92E-04
80	ALL	630450	4178850	NonCancer	0.00E+00	3.02E-10	0.00E+00	0.00E+00	0.00E+00	2.20E-10	6.46E-04	0.00E+00	8.21E-11	0.00E+00	0.00E+00	4.01E-09	0.00E+00	0.00E+00	6.46E-04
81	ALL	630550	4178850	NonCancer	0.00E+00	3.11E-10	0.00E+00	0.00E+00	0.00E+00	2.27E-10	7.32E-04	0.00E+00	8.46E-11	0.00E+00	0.00E+00	4.14E-09	0.00E+00	0.00E+00	7.32E-04
82	ALL	630650	4178850	NonCancer	0.00E+00	3.20E-10	0.00E+00	0.00E+00	0.00E+00	2.33E-10	8.05E-04	0.00E+00	8.69E-11	0.00E+00	0.00E+00	4.25E-09	0.00E+00	0.00E+00	8.05E-04
83	ALL	630750	4178850	NonCancer	0.00E+00	3.28E-10	0.00E+00	0.00E+00	0.00E+00	2.39E-10	8.11E-04	0.00E+00	8.93E-11	0.00E+00	0.00E+00	4.36E-09	0.00E+00	0.00E+00	8.11E-04
84	ALL	630850	4178850	NonCancer	0.00E+00	3.37E-10	0.00E+00	0.00E+00	0.00E+00	2.45E-10	7.38E-04	0.00E+00	9.16E-11	0.00E+00	0.00E+00	4.48E-09	0.00E+00	0.00E+00	7.38E-04
85	ALL	630950	4178850	NonCancer	0.00E+00	3.46E-10	0.00E+00	0.00E+00	0.00E+00	2.52E-10	7.29E-04	0.00E+00	9.41E-11	0.00E+00	0.00E+00	4.60E-09	0.00E+00	0.00E+00	7.29E-04
86	ALL	631050	4178850	NonCancer	0.00E+00	3.56E-10	0.00E+00	0.00E+00	0.00E+00	2.59E-10	7.36E-04	0.00E+00	9.69E-11	0.00E+00	0.00E+00	4.74E-09	0.00E+00	0.00E+00	7.36E-04
87	ALL	631150	4178850	NonCancer	0.00E+00	3.67E-10	0.00E+00	0.00E+00	0.00E+00	2.67E-10	7.50E-04	0.00E+00	9.98E-11	0.00E+00	0.00E+00	4.88E-09	0.00E+00	0.00E+00	7.50E-04
88	ALL	631250	4178850	NonCancer	0.00E+00	3.77E-10	0.00E+00	0.00E+00	0.00E+00	2.75E-10	8.01E-04	0.00E+00	1.03E-10	0.00E+00	0.00E+00	5.02E-09	0.00E+00	0.00E+00	8.01E-04
89	ALL	631350	4178850	NonCancer	0.00E+00	3.85E-10	0.00E+00	0.00E+00	0.00E+00	2.81E-10	8.94E-04	0.00E+00	1.05E-10	0.00E+00	0.00E+00	5.12E-09	0.00E+00	0.00E+00	8.94E-04
90	ALL	631450	4178850	NonCancer	0.00E+00	3.91E-10	0.00E+00	0.00E+00	0.00E+00	2.84E-10	9.13E-04	0.00E+00	1.06E-10	0.00E+00	0.00E+00	5.19E-09	0.00E+00	0.00E+00	9.13E-04
91	ALL	631550	4178850	NonCancer	0.00E+00	3.94E-10	0.00E+00	0.00E+00	0.00E+00	2.87E-10	9.22E-04	0.00E+00	1.07E-10	0.00E+00	0.00E+00	5.24E-09	0.00E+00	0.00E+00	9.22E-04
92	ALL	631650	4178850	NonCancer	0.00E+00	3.98E-10	0.00E+00	0.00E+00	0.00E+00	2.90E-10	9.44E-04	0.00E+00	1.08E-10	0.00E+00	0.00E+00	5.29E-09	0.00E+00	0.00E+00	9.44E-04
93	ALL	631750	4178850	NonCancer	0.00E+00	4.05E-10	0.00E+00	0.00E+00	0.00E+00	2.95E-10	9.51E-04	0.00E+00	1.10E-10	0.00E+00	0.00E+00	5.39E-09	0.00E+00	0.00E+00	9.51E-04
94	ALL	631850	4178850	NonCancer	0.00E+00	4.17E-10	0.00E+00	0.00E+00	0.00E+00	3.03E-10	9.66E-04	0.00E+00	1.13E-10	0.00E+00	0.00E+00	5.54E-09	0.00E+00	0.00E+00	9.66E-04
95	ALL	631950	4178850	NonCancer	0.00E+00	4.31E-10	0.00E+00	0.00E+00	0.00E+00	3.14E-10	9.44E-04	0.00E+00	1.17E-10	0.00E+00	0.00E+00	5.74E-09	0.00E+00	0.00E+00	9.44E-04
96	ALL	632050	4178850	NonCancer	0.00E+00	4.46E-10	0.00E+00	0.00E+00	0.00E+00	3.25E-10	9.88E-04	0.00E+00	1.21E-10	0.00E+00	0.00E+00	5.93E-09	0.00E+00	0.00E+00	9.88E-04
97	ALL	632150	4178850	NonCancer	0.00E+00	4.56E-10	0.00E+00	0.00E+00	0.00E+00	3.32E-10	1.00E-03	0.00E+00	1.24E-10	0.00E+00	0.00E+00	6.06E-09	0.00E+00	0.00E+00	1.00E-03
98	ALL	630250	4178950	NonCancer	0.00E+00	2.77E-10	0.00E+00	0.00E+00	0.00E+00	2.01E-10	5.80E-04	0.00E+00	7.52E-11	0.00E+00	0.00E+00	3.68E-09	0.00E+00	0.00E+00	5.80E-04
99	ALL	630350	4178950	NonCancer	0.00E+00	2.85E-10	0.00E+00	0.00E+00	0.00E+00	2.08E-10	6.11E-04	0.00E+00	7.75E-11	0.00E+00	0.00E+00	3.79E-09	0.00E+00	0.00E+00	6.11E-04
100	ALL	630450	4178950	NonCancer	0.00E+00	2.93E-10	0.00E+00	0.00E+00	0.00E+00	2.14E-10	6.92E-04	0.00E+00	7.98E-11	0.00E+00	0.00E+00	3.90E-09	0.00E+00	0.00E+00	6.92E-04
101	ALL	630550	4178950	NonCancer	0.00E+00	3.02E-10	0.00E+00	0.00E+00	0.00E+00	2.20E-10	7.77E-04	0.00E+00	8.20E-11	0.00E+00	0.00E+00	4.01E-09	0.00E+00	0.00E+00	7.77E-04
102	ALL	630650	4178950	NonCancer	0.00E+00	3.09E-10	0.00E+00	0.00E+00	0.00E+00	2.25E-10	7.94E-04	0.00E+00	8.40E-11	0.00E+00	0.00E+00	4.11E-09	0.00E+00	0.00E+00	7.94E-04
103	ALL	630750	4178950	NonCancer	0.00E+00	3.17E-10	0.00E+00	0.00E+00	0.00E+00	2.31E-10	7.42E-04	0.00E+00	8.62E-11	0.00E+00	0.00E+00	4.21E-09	0.00E+00	0.00E+00	7.42E-04
104	ALL	630850	4178950	NonCancer	0.00E+00	3.25E-10	0.00E+00	0.00E+00	0.00E+00	2.37E-10	6.91E-04	0.00E+00	8.83E-11	0.00E+00	0.00E+00	4.32E-09	0.00E+00	0.00E+00	6.91E-04
105	ALL	630950	4178950	NonCancer	0.00E+00	3.34E-10	0.00E+00	0.00E+00	0.00E+00	2.43E-10	6.89E-04	0.00E+00	9.08E-11	0.00E+00	0.00E+00	4.44E-09	0.00E+00	0.00E+00	6.89E-04
106	ALL	631050	4178950	NonCancer	0.00E+00	3.44E-10	0.00E+00	0.00E+00	0.00E+00	2.50E-10	7.18E-04	0.00E+00	9.35E-11	0.00E+00	0.00E+00	4.57E-09	0.00E+00	0.00E+00	7.18E-04
107	ALL	631150	4178950	NonCancer	0.00E+00	3.54E-10	0.00E+00	0.00E+00	0.00E+00	2.58E-10	7.21E-04	0.00E+00	9.62E-11	0.00E+00	0.00E+00	4.70E-09	0.00E+00	0.00E+00	7.21E-04
108	ALL	631250	4178950	NonCancer	0.00E+00	3.62E-10	0.00E+00	0.00E+00	0.00E+00	2.64E-10	8.26E-04	0.00E+00	9.85E-11	0.00E+00	0.00E+00	4.82E-09	0.00E+00	0.00E+00	8.26E-04

109	ALL	631350	4178950	NonCancer	0.00E+00	3.69E-10	0.00E+00	0.00E+00	0.00E+00	2.68E-10	8.68E-04	0.00E+00	1.00E-10	0.00E+00	0.00E+00	4.90E-09	0.00E+00	0.00E+00	8.68E-04
110	ALL	631450	4178950	NonCancer	0.00E+00	3.72E-10	0.00E+00	0.00E+00	0.00E+00	2.71E-10	8.69E-04	0.00E+00	1.01E-10	0.00E+00	0.00E+00	4.95E-09	0.00E+00	0.00E+00	8.69E-04
111	ALL	631550	4178950	NonCancer	0.00E+00	3.75E-10	0.00E+00	0.00E+00	0.00E+00	2.73E-10	8.95E-04	0.00E+00	1.02E-10	0.00E+00	0.00E+00	4.99E-09	0.00E+00	0.00E+00	8.95E-04
112	ALL	631650	4178950	NonCancer	0.00E+00	3.80E-10	0.00E+00	0.00E+00	0.00E+00	2.76E-10	8.98E-04	0.00E+00	1.03E-10	0.00E+00	0.00E+00	5.05E-09	0.00E+00	0.00E+00	8.98E-04
113	ALL	631750	4178950	NonCancer	0.00E+00	3.88E-10	0.00E+00	0.00E+00	0.00E+00	2.82E-10	9.20E-04	0.00E+00	1.05E-10	0.00E+00	0.00E+00	5.15E-09	0.00E+00	0.00E+00	9.20E-04
114	ALL	631850	4178950	NonCancer	0.00E+00	3.99E-10	0.00E+00	0.00E+00	0.00E+00	2.91E-10	9.14E-04	0.00E+00	1.09E-10	0.00E+00	0.00E+00	5.31E-09	0.00E+00	0.00E+00	9.14E-04
115	ALL	631950	4178950	NonCancer	0.00E+00	4.13E-10	0.00E+00	0.00E+00	0.00E+00	3.01E-10	9.32E-04	0.00E+00	1.12E-10	0.00E+00	0.00E+00	5.50E-09	0.00E+00	0.00E+00	9.32E-04
116	ALL	632050	4178950	NonCancer	0.00E+00	4.26E-10	0.00E+00	0.00E+00	0.00E+00	3.10E-10	9.30E-04	0.00E+00	1.16E-10	0.00E+00	0.00E+00	5.66E-09	0.00E+00	0.00E+00	9.30E-04
117	ALL	632150	4178950	NonCancer	0.00E+00	4.34E-10	0.00E+00	0.00E+00	0.00E+00	3.16E-10	9.62E-04	0.00E+00	1.18E-10	0.00E+00	0.00E+00	5.77E-09	0.00E+00	0.00E+00	9.62E-04
118	ALL	629950	4179050	NonCancer	0.00E+00	2.47E-10	0.00E+00	0.00E+00	0.00E+00	1.80E-10	5.59E-04	0.00E+00	6.70E-11	0.00E+00	0.00E+00	3.28E-09	0.00E+00	0.00E+00	5.59E-04
119	ALL	630250	4179050	NonCancer	0.00E+00	2.70E-10	0.00E+00	0.00E+00	0.00E+00	1.96E-10	5.79E-04	0.00E+00	7.33E-11	0.00E+00	0.00E+00	3.58E-09	0.00E+00	0.00E+00	5.79E-04
120	ALL	630350	4179050	NonCancer	0.00E+00	2.77E-10	0.00E+00	0.00E+00	0.00E+00	2.02E-10	6.55E-04	0.00E+00	7.54E-11	0.00E+00	0.00E+00	3.69E-09	0.00E+00	0.00E+00	6.55E-04
121	ALL	630450	4179050	NonCancer	0.00E+00	2.85E-10	0.00E+00	0.00E+00	0.00E+00	2.07E-10	7.45E-04	0.00E+00	7.74E-11	0.00E+00	0.00E+00	3.79E-09	0.00E+00	0.00E+00	7.45E-04
122	ALL	630550	4179050	NonCancer	0.00E+00	2.92E-10	0.00E+00	0.00E+00	0.00E+00	2.13E-10	7.78E-04	0.00E+00	7.94E-11	0.00E+00	0.00E+00	3.88E-09	0.00E+00	0.00E+00	7.78E-04
123	ALL	630650	4179050	NonCancer	0.00E+00	2.99E-10	0.00E+00	0.00E+00	0.00E+00	2.18E-10	7.40E-04	0.00E+00	8.12E-11	0.00E+00	0.00E+00	3.97E-09	0.00E+00	0.00E+00	7.40E-04
124	ALL	630750	4179050	NonCancer	0.00E+00	3.06E-10	0.00E+00	0.00E+00	0.00E+00	2.23E-10	6.56E-04	0.00E+00	8.32E-11	0.00E+00	0.00E+00	4.07E-09	0.00E+00	0.00E+00	6.56E-04
125	ALL	630850	4179050	NonCancer	0.00E+00	3.14E-10	0.00E+00	0.00E+00	0.00E+00	2.29E-10	6.65E-04	0.00E+00	8.54E-11	0.00E+00	0.00E+00	4.17E-09	0.00E+00	0.00E+00	6.65E-04
126	ALL	630950	4179050	NonCancer	0.00E+00	3.23E-10	0.00E+00	0.00E+00	0.00E+00	2.35E-10	6.83E-04	0.00E+00	8.78E-11	0.00E+00	0.00E+00	4.29E-09	0.00E+00	0.00E+00	6.83E-04
127	ALL	631050	4179050	NonCancer	0.00E+00	3.32E-10	0.00E+00	0.00E+00	0.00E+00	2.42E-10	6.90E-04	0.00E+00	9.03E-11	0.00E+00	0.00E+00	4.42E-09	0.00E+00	0.00E+00	6.90E-04
128	ALL	631150	4179050	NonCancer	0.00E+00	3.41E-10	0.00E+00	0.00E+00	0.00E+00	2.48E-10	7.51E-04	0.00E+00	9.27E-11	0.00E+00	0.00E+00	4.53E-09	0.00E+00	0.00E+00	7.51E-04
129	ALL	631250	4179050	NonCancer	0.00E+00	3.48E-10	0.00E+00	0.00E+00	0.00E+00	2.53E-10	8.24E-04	0.00E+00	9.45E-11	0.00E+00	0.00E+00	4.62E-09	0.00E+00	0.00E+00	8.24E-04
130	ALL	631350	4179050	NonCancer	0.00E+00	3.52E-10	0.00E+00	0.00E+00	0.00E+00	2.56E-10	8.37E-04	0.00E+00	9.57E-11	0.00E+00	0.00E+00	4.68E-09	0.00E+00	0.00E+00	8.37E-04
131	ALL	631450	4179050	NonCancer	0.00E+00	3.55E-10	0.00E+00	0.00E+00	0.00E+00	2.58E-10	8.44E-04	0.00E+00	9.65E-11	0.00E+00	0.00E+00	4.72E-09	0.00E+00	0.00E+00	8.44E-04
132	ALL	631550	4179050	NonCancer	0.00E+00	3.58E-10	0.00E+00	0.00E+00	0.00E+00	2.60E-10	8.62E-04	0.00E+00	9.72E-11	0.00E+00	0.00E+00	4.75E-09	0.00E+00	0.00E+00	8.62E-04
133	ALL	631650	4179050	NonCancer	0.00E+00	3.63E-10	0.00E+00	0.00E+00	0.00E+00	2.64E-10	8.64E-04	0.00E+00	9.87E-11	0.00E+00	0.00E+00	4.82E-09	0.00E+00	0.00E+00	8.64E-04
134	ALL	631750	4179050	NonCancer	0.00E+00	3.72E-10	0.00E+00	0.00E+00	0.00E+00	2.71E-10	8.82E-04	0.00E+00	1.01E-10	0.00E+00	0.00E+00	4.94E-09	0.00E+00	0.00E+00	8.82E-04
135	ALL	631850	4179050	NonCancer	0.00E+00	3.83E-10	0.00E+00	0.00E+00	0.00E+00	2.79E-10	8.50E-04	0.00E+00	1.04E-10	0.00E+00	0.00E+00	5.10E-09	0.00E+00	0.00E+00	8.50E-04
136	ALL	631950	4179050	NonCancer	0.00E+00	3.97E-10	0.00E+00	0.00E+00	0.00E+00	2.89E-10	9.06E-04	0.00E+00	1.08E-10	0.00E+00	0.00E+00	5.27E-09	0.00E+00	0.00E+00	9.06E-04
137	ALL	632050	4179050	NonCancer	0.00E+00	4.07E-10	0.00E+00	0.00E+00	0.00E+00	2.97E-10	9.11E-04	0.00E+00	1.11E-10	0.00E+00	0.00E+00	5.41E-09	0.00E+00	0.00E+00	9.11E-04
138	ALL	632150	4179050	NonCancer	0.00E+00	4.13E-10	0.00E+00	0.00E+00	0.00E+00	3.01E-10	9.26E-04	0.00E+00	1.12E-10	0.00E+00	0.00E+00	5.49E-09	0.00E+00	0.00E+00	9.26E-04
139	ALL	629850	4179150	NonCancer	0.00E+00	2.34E-10	0.00E+00	0.00E+00	0.00E+00	1.71E-10	5.41E-04	0.00E+00	6.37E-11	0.00E+00	0.00E+00	3.11E-09	0.00E+00	0.00E+00	5.41E-04
140	ALL	629950	4179150	NonCancer	0.00E+00	2.41E-10	0.00E+00	0.00E+00	0.00E+00	1.76E-10	5.62E-04	0.00E+00	6.56E-11	0.00E+00	0.00E+00	3.21E-09	0.00E+00	0.00E+00	5.62E-04
141	ALL	630150	4179150	NonCancer	0.00E+00	2.55E-10	0.00E+00	0.00E+00	0.00E+00	1.86E-10	5.48E-04	0.00E+00	6.94E-11	0.00E+00	0.00E+00	3.39E-09	0.00E+00	0.00E+00	5.48E-04
142	ALL	630250	4179150	NonCancer	0.00E+00	2.62E-10	0.00E+00	0.00E+00	0.00E+00	1.91E-10	6.19E-04	0.00E+00	7.14E-11	0.00E+00	0.00E+00	3.49E-09	0.00E+00	0.00E+00	6.19E-04
143	ALL	630350	4179150	NonCancer	0.00E+00	2.69E-10	0.00E+00	0.00E+00	0.00E+00	1.96E-10	7.12E-04	0.00E+00	7.32E-11	0.00E+00	0.00E+00	3.58E-09	0.00E+00	0.00E+00	7.12E-04
144	ALL	630450	4179150	NonCancer	0.00E+00	2.76E-10	0.00E+00	0.00E+00	0.00E+00	2.01E-10	7.56E-04	0.00E+00	7.51E-11	0.00E+00	0.00E+00	3.67E-09	0.00E+00	0.00E+00	7.56E-04
145	ALL	630550	4179150	NonCancer	0.00E+00	2.83E-10	0.00E+00	0.00E+00	0.00E+00	2.06E-10	7.38E-04	0.00E+00	7.68E-11	0.00E+00	0.00E+00	3.76E-09	0.00E+00	0.00E+00	7.38E-04
146	ALL	630650	4179150	NonCancer	0.00E+00	2.89E-10	0.00E+00	0.00E+00	0.00E+00	2.10E-10	6.58E-04	0.00E+00	7.86E-11	0.00E+00	0.00E+00	3.84E-09	0.00E+00	0.00E+00	6.58E-04
147	ALL	630750	4179150	NonCancer	0.00E+00	2.96E-10	0.00E+00	0.00E+00	0.00E+00	2.16E-10	6.38E-04	0.00E+00	8.05E-11	0.00E+00	0.00E+00	3.93E-09	0.00E+00	0.00E+00	6.38E-04
148	ALL	630850	4179150	NonCancer	0.00E+00	3.04E-10	0.00E+00	0.00E+00	0.00E+00	2.21E-10	6.44E-04	0.00E+00	8.26E-11	0.00E+00	0.00E+00	4.04E-09	0.00E+00	0.00E+00	6.44E-04
149	ALL	630950	4179150	NonCancer	0.00E+00	3.12E-10	0.00E+00	0.00E+00	0.00E+00	2.27E-10	6.56E-04	0.00E+00	8.49E-11	0.00E+00	0.00E+00	4.15E-09	0.00E+00	0.00E+00	6.56E-04
150	ALL	631050	4179150	NonCancer	0.00E+00	3.21E-10	0.00E+00	0.00E+00	0.00E+00	2.34E-10	6.73E-04	0.00E+00	8.72E-11	0.00E+00	0.00E+00	4.27E-09	0.00E+00	0.00E+00	6.73E-04
151	ALL	631150	4179150	NonCancer	0.00E+00	3.28E-10	0.00E+00	0.00E+00	0.00E+00	2.39E-10	7.68E-04	0.00E+00	8.92E-11	0.00E+00	0.00E+00	4.36E-09	0.00E+00	0.00E+00	7.68E-04
152	ALL	631250	4179150	NonCancer	0.00E+00	3.33E-10	0.00E+00	0.00E+00	0.00E+00	2.43E-10	7.95E-04	0.00E+00	9.06E-11	0.00E+00	0.00E+00	4.43E-09	0.00E+00	0.00E+00	7.95E-04
153	ALL	631350	4179150	NonCancer	0.00E+00	3.36E-10	0.00E+00	0.00E+00	0.00E+00	2.45E-10	7.96E-04	0.00E+00	9.15E-11	0.00E+00	0.00E+00	4.47E-09	0.00E+00	0.00E+00	7.96E-04
154	ALL	631450	4179150	NonCancer	0.00E+00	3.39E-10	0.00E+00	0.00E+00	0.00E+00	2.47E-10	8.22E-04	0.00E+00	9.21E-11	0.00E+00	0.00E+00	4.50E-09	0.00E+00	0.00E+00	8.22E-04
155	ALL	631550	4179150	NonCancer	0.00E+00	3.42E-10	0.00E+00	0.00E+00	0.00E+00	2.49E-10	8.26E-04	0.00E+00	9.29E-11	0.00E+00	0.00E+00	4.54E-09	0.00E+00	0.00E+00	8.26E-04
156	ALL	631650	4179150	NonCancer	0.00E+00	3.48E-10	0.00E+00	0.00E+00	0.00E+00	2.53E-10	8.43E-04	0.00E+00	9.46E-11	0.00E+00	0.00E+00	4.62E-09	0.00E+00	0.00E+00	8.43E-04
157	ALL	631750	4179150	NonCancer	0.00E+00	3.57E-10	0.00E+00	0.00E+00	0.00E+00	2.60E-10	8.48E-04	0.00E+00	9.72E-11	0.00E+00	0.00E+00	4.75E-09	0.00E+00	0.00E+00	8.48E-04
158	ALL	631850	4179150	NonCancer	0.00E+00	3.69E-10	0.00E+00	0.00E+00	0.00E+00	2.69E-10	8.37E-04	0.00E+00	1.00E-10	0.00E+00	0.00E+00	4.91E-09	0.00E+00	0.00E+00	8.37E-04
159	ALL	631950	4179150	NonCancer	0.00E+00	3.80E-10	0.00E+00	0.00E+00	0.00E+00	2.76E-10	8.64E-04	0.00E+00	1.03E-10	0.00E+00	0.00E+00	5.05E-09	0.00E+00	0.00E+00	8.64E-04
160	ALL	632050	4179150	NonCancer	0.00E+00	3.89E-10	0.00E+00	0.00E+00	0.00E+00	2.84E-10	8.82E-04	0.00E+00	1.06E-10	0.00E+00	0.00E+00	5.18E-09	0.00E+00	0.00E+00	8.82E-04
161	ALL	632150	4179150	NonCancer	0.00E+00	3.93E-10	0.00E+00	0.00E+00	0.00E+00	2.86E-10	9.04E-04	0.00E+00	1.07E-10	0.00E+00	0.00E+00	5.23E-09	0.00E+00	0.00E+00	9.04E-04
162	ALL	630850	4179250	NonCancer	0.00E+00	2.94E-10	0.00E+00	0.00E+00	0.00E+00	2.14E-10	6.31E-04	0.00E+00	8.00E-11	0.00E+00	0.00E+00	3.91E-09	0.00E+00	0.00E+00	6.31E-04
163	ALL	630950	4179250	NonCancer	0.00E+00	3.02E-10	0.00E+00	0.00E+00	0.00E+00	2.20E-10	6.35E-04	0.00E+00	8.22E-11	0.00E+00	0.00E+00	4.02E-09	0.00E+00	0.00E+00	6.35E-04

164	ALL	631050	4177625	NonCancer	0.00E+00	5.62E-10	0.00E+00	0.00E+00	0.00E+00	4.09E-10	1.13E-03	0.00E+00	1.53E-10	0.00E+00	0.00E+00	7.47E-09	0.00E+00	0.00E+00	1.13E-03
165	ALL	631100	4177725	NonCancer	0.00E+00	5.62E-10	0.00E+00	0.00E+00	0.00E+00	4.09E-10	1.12E-03	0.00E+00	1.53E-10	0.00E+00	0.00E+00	7.48E-09	0.00E+00	0.00E+00	1.12E-03
166	ALL	631100	4177825	NonCancer	0.00E+00	5.43E-10	0.00E+00	0.00E+00	0.00E+00	3.95E-10	1.08E-03	0.00E+00	1.48E-10	0.00E+00	0.00E+00	7.22E-09	0.00E+00	0.00E+00	1.08E-03
167	ALL	631350	4178225	NonCancer	0.00E+00	5.06E-10	0.00E+00	0.00E+00	0.00E+00	3.68E-10	9.92E-04	0.00E+00	1.38E-10	0.00E+00	0.00E+00	6.72E-09	0.00E+00	0.00E+00	9.92E-04
168	ALL	631400	4178225	NonCancer	0.00E+00	5.15E-10	0.00E+00	0.00E+00	0.00E+00	3.75E-10	1.01E-03	0.00E+00	1.40E-10	0.00E+00	0.00E+00	6.85E-09	0.00E+00	0.00E+00	1.01E-03
169	ALL	631450	4178225	NonCancer	0.00E+00	5.25E-10	0.00E+00	0.00E+00	0.00E+00	3.82E-10	1.01E-03	0.00E+00	1.43E-10	0.00E+00	0.00E+00	6.98E-09	0.00E+00	0.00E+00	1.01E-03
170	ALL	631500	4178225	NonCancer	0.00E+00	5.35E-10	0.00E+00	0.00E+00	0.00E+00	3.90E-10	1.03E-03	0.00E+00	1.46E-10	0.00E+00	0.00E+00	7.12E-09	0.00E+00	0.00E+00	1.03E-03
171	ALL	631100	4178275	NonCancer	0.00E+00	4.54E-10	0.00E+00	0.00E+00	0.00E+00	3.31E-10	9.58E-04	0.00E+00	1.24E-10	0.00E+00	0.00E+00	6.04E-09	0.00E+00	0.00E+00	9.58E-04
172	ALL	631150	4178275	NonCancer	0.00E+00	4.62E-10	0.00E+00	0.00E+00	0.00E+00	3.36E-10	9.76E-04	0.00E+00	1.26E-10	0.00E+00	0.00E+00	6.14E-09	0.00E+00	0.00E+00	9.76E-04
173	ALL	631200	4178275	NonCancer	0.00E+00	4.70E-10	0.00E+00	0.00E+00	0.00E+00	3.42E-10	9.62E-04	0.00E+00	1.28E-10	0.00E+00	0.00E+00	6.24E-09	0.00E+00	0.00E+00	9.62E-04
174	ALL	631250	4178275	NonCancer	0.00E+00	4.78E-10	0.00E+00	0.00E+00	0.00E+00	3.48E-10	9.50E-04	0.00E+00	1.30E-10	0.00E+00	0.00E+00	6.35E-09	0.00E+00	0.00E+00	9.50E-04
175	ALL	631300	4178275	NonCancer	0.00E+00	4.86E-10	0.00E+00	0.00E+00	0.00E+00	3.54E-10	9.64E-04	0.00E+00	1.32E-10	0.00E+00	0.00E+00	6.46E-09	0.00E+00	0.00E+00	9.64E-04
176	ALL	631350	4178275	NonCancer	0.00E+00	4.94E-10	0.00E+00	0.00E+00	0.00E+00	3.60E-10	9.77E-04	0.00E+00	1.34E-10	0.00E+00	0.00E+00	6.57E-09	0.00E+00	0.00E+00	9.77E-04
177	ALL	631400	4178275	NonCancer	0.00E+00	5.04E-10	0.00E+00	0.00E+00	0.00E+00	3.67E-10	9.73E-04	0.00E+00	1.37E-10	0.00E+00	0.00E+00	6.69E-09	0.00E+00	0.00E+00	9.73E-04
178	ALL	631450	4178275	NonCancer	0.00E+00	5.13E-10	0.00E+00	0.00E+00	0.00E+00	3.74E-10	9.98E-04	0.00E+00	1.40E-10	0.00E+00	0.00E+00	6.82E-09	0.00E+00	0.00E+00	9.98E-04
179	ALL	631500	4178275	NonCancer	0.00E+00	5.23E-10	0.00E+00	0.00E+00	0.00E+00	3.81E-10	1.01E-03	0.00E+00	1.42E-10	0.00E+00	0.00E+00	6.95E-09	0.00E+00	0.00E+00	1.01E-03
180	ALL	630950	4178325	NonCancer	0.00E+00	4.23E-10	0.00E+00	0.00E+00	0.00E+00	3.08E-10	8.68E-04	0.00E+00	1.15E-10	0.00E+00	0.00E+00	5.62E-09	0.00E+00	0.00E+00	8.68E-04
181	ALL	631100	4178325	NonCancer	0.00E+00	4.45E-10	0.00E+00	0.00E+00	0.00E+00	3.24E-10	9.58E-04	0.00E+00	1.21E-10	0.00E+00	0.00E+00	5.91E-09	0.00E+00	0.00E+00	9.58E-04
182	ALL	631150	4178325	NonCancer	0.00E+00	4.52E-10	0.00E+00	0.00E+00	0.00E+00	3.29E-10	9.53E-04	0.00E+00	1.23E-10	0.00E+00	0.00E+00	6.01E-09	0.00E+00	0.00E+00	9.53E-04
183	ALL	631200	4178325	NonCancer	0.00E+00	4.60E-10	0.00E+00	0.00E+00	0.00E+00	3.35E-10	9.22E-04	0.00E+00	1.25E-10	0.00E+00	0.00E+00	6.11E-09	0.00E+00	0.00E+00	9.22E-04
184	ALL	631250	4178325	NonCancer	0.00E+00	4.67E-10	0.00E+00	0.00E+00	0.00E+00	3.40E-10	9.37E-04	0.00E+00	1.27E-10	0.00E+00	0.00E+00	6.21E-09	0.00E+00	0.00E+00	9.37E-04
185	ALL	631300	4178325	NonCancer	0.00E+00	4.75E-10	0.00E+00	0.00E+00	0.00E+00	3.46E-10	9.47E-04	0.00E+00	1.29E-10	0.00E+00	0.00E+00	6.32E-09	0.00E+00	0.00E+00	9.47E-04
186	ALL	631400	4178325	NonCancer	0.00E+00	4.93E-10	0.00E+00	0.00E+00	0.00E+00	3.59E-10	9.62E-04	0.00E+00	1.34E-10	0.00E+00	0.00E+00	6.55E-09	0.00E+00	0.00E+00	9.62E-04
187	ALL	631450	4178325	NonCancer	0.00E+00	5.02E-10	0.00E+00	0.00E+00	0.00E+00	3.65E-10	9.79E-04	0.00E+00	1.36E-10	0.00E+00	0.00E+00	6.67E-09	0.00E+00	0.00E+00	9.79E-04
188	ALL	631500	4178325	NonCancer	0.00E+00	5.11E-10	0.00E+00	0.00E+00	0.00E+00	3.72E-10	9.84E-04	0.00E+00	1.39E-10	0.00E+00	0.00E+00	6.79E-09	0.00E+00	0.00E+00	9.84E-04
189	ALL	630950	4178375	NonCancer	0.00E+00	4.15E-10	0.00E+00	0.00E+00	0.00E+00	3.02E-10	8.63E-04	0.00E+00	1.13E-10	0.00E+00	0.00E+00	5.52E-09	0.00E+00	0.00E+00	8.63E-04
190	ALL	631200	4178375	NonCancer	0.00E+00	4.50E-10	0.00E+00	0.00E+00	0.00E+00	3.27E-10	9.08E-04	0.00E+00	1.22E-10	0.00E+00	0.00E+00	5.98E-09	0.00E+00	0.00E+00	9.08E-04
191	ALL	631300	4178375	NonCancer	0.00E+00	4.65E-10	0.00E+00	0.00E+00	0.00E+00	3.39E-10	9.26E-04	0.00E+00	1.26E-10	0.00E+00	0.00E+00	6.18E-09	0.00E+00	0.00E+00	9.26E-04
192	ALL	631400	4178375	NonCancer	0.00E+00	4.82E-10	0.00E+00	0.00E+00	0.00E+00	3.51E-10	9.50E-04	0.00E+00	1.31E-10	0.00E+00	0.00E+00	6.41E-09	0.00E+00	0.00E+00	9.50E-04
193	ALL	631450	4178375	NonCancer	0.00E+00	4.90E-10	0.00E+00	0.00E+00	0.00E+00	3.57E-10	9.51E-04	0.00E+00	1.33E-10	0.00E+00	0.00E+00	6.52E-09	0.00E+00	0.00E+00	9.51E-04
194	ALL	631500	4178375	NonCancer	0.00E+00	4.98E-10	0.00E+00	0.00E+00	0.00E+00	3.63E-10	9.60E-04	0.00E+00	1.35E-10	0.00E+00	0.00E+00	6.62E-09	0.00E+00	0.00E+00	9.60E-04
195	ALL	630800	4178425	NonCancer	0.00E+00	3.87E-10	0.00E+00	0.00E+00	0.00E+00	2.82E-10	7.91E-04	0.00E+00	1.05E-10	0.00E+00	0.00E+00	5.14E-09	0.00E+00	0.00E+00	7.91E-04
196	ALL	630850	4178425	NonCancer	0.00E+00	3.94E-10	0.00E+00	0.00E+00	0.00E+00	2.87E-10	8.17E-04	0.00E+00	1.07E-10	0.00E+00	0.00E+00	5.23E-09	0.00E+00	0.00E+00	8.17E-04
197	ALL	631050	4178425	NonCancer	0.00E+00	4.20E-10	0.00E+00	0.00E+00	0.00E+00	3.06E-10	9.28E-04	0.00E+00	1.14E-10	0.00E+00	0.00E+00	5.58E-09	0.00E+00	0.00E+00	9.28E-04
198	ALL	631200	4178425	NonCancer	0.00E+00	4.40E-10	0.00E+00	0.00E+00	0.00E+00	3.20E-10	8.88E-04	0.00E+00	1.20E-10	0.00E+00	0.00E+00	5.85E-09	0.00E+00	0.00E+00	8.88E-04
199	ALL	631250	4178425	NonCancer	0.00E+00	4.48E-10	0.00E+00	0.00E+00	0.00E+00	3.26E-10	9.01E-04	0.00E+00	1.22E-10	0.00E+00	0.00E+00	5.95E-09	0.00E+00	0.00E+00	9.01E-04
200	ALL	631300	4178425	NonCancer	0.00E+00	4.55E-10	0.00E+00	0.00E+00	0.00E+00	3.31E-10	8.95E-04	0.00E+00	1.24E-10	0.00E+00	0.00E+00	6.05E-09	0.00E+00	0.00E+00	8.95E-04
201	ALL	630650	4178475	NonCancer	0.00E+00	3.60E-10	0.00E+00	0.00E+00	0.00E+00	2.62E-10	7.10E-04	0.00E+00	9.80E-11	0.00E+00	0.00E+00	4.79E-09	0.00E+00	0.00E+00	7.10E-04
202	ALL	630800	4178475	NonCancer	0.00E+00	3.80E-10	0.00E+00	0.00E+00	0.00E+00	2.77E-10	7.93E-04	0.00E+00	1.03E-10	0.00E+00	0.00E+00	5.06E-09	0.00E+00	0.00E+00	7.93E-04
203	ALL	630850	4178475	NonCancer	0.00E+00	3.87E-10	0.00E+00	0.00E+00	0.00E+00	2.82E-10	8.11E-04	0.00E+00	1.05E-10	0.00E+00	0.00E+00	5.14E-09	0.00E+00	0.00E+00	8.11E-04
204	ALL	631050	4178475	NonCancer	0.00E+00	4.11E-10	0.00E+00	0.00E+00	0.00E+00	3.00E-10	9.01E-04	0.00E+00	1.12E-10	0.00E+00	0.00E+00	5.47E-09	0.00E+00	0.00E+00	9.01E-04
205	ALL	631200	4178475	NonCancer	0.00E+00	4.31E-10	0.00E+00	0.00E+00	0.00E+00	3.14E-10	8.75E-04	0.00E+00	1.17E-10	0.00E+00	0.00E+00	5.73E-09	0.00E+00	0.00E+00	8.75E-04
206	ALL	631250	4178475	NonCancer	0.00E+00	4.38E-10	0.00E+00	0.00E+00	0.00E+00	3.19E-10	8.76E-04	0.00E+00	1.19E-10	0.00E+00	0.00E+00	5.83E-09	0.00E+00	0.00E+00	8.76E-04
207	ALL	631300	4178475	NonCancer	0.00E+00	4.46E-10	0.00E+00	0.00E+00	0.00E+00	3.25E-10	8.87E-04	0.00E+00	1.21E-10	0.00E+00	0.00E+00	5.92E-09	0.00E+00	0.00E+00	8.87E-04
208	ALL	631450	4178475	NonCancer	0.00E+00	4.68E-10	0.00E+00	0.00E+00	0.00E+00	3.41E-10	9.27E-04	0.00E+00	1.27E-10	0.00E+00	0.00E+00	6.22E-09	0.00E+00	0.00E+00	9.27E-04
209	ALL	631500	4178475	NonCancer	0.00E+00	4.74E-10	0.00E+00	0.00E+00	0.00E+00	3.45E-10	1.01E-03	0.00E+00	1.29E-10	0.00E+00	0.00E+00	6.30E-09	0.00E+00	0.00E+00	1.01E-03
210	ALL	630550	4178525	NonCancer	0.00E+00	3.42E-10	0.00E+00	0.00E+00	0.00E+00	2.49E-10	7.13E-04	0.00E+00	9.31E-11	0.00E+00	0.00E+00	4.55E-09	0.00E+00	0.00E+00	7.13E-04
211	ALL	630600	4178525	NonCancer	0.00E+00	3.49E-10	0.00E+00	0.00E+00	0.00E+00	2.54E-10	6.93E-04	0.00E+00	9.48E-11	0.00E+00	0.00E+00	4.64E-09	0.00E+00	0.00E+00	6.93E-04
212	ALL	630650	4178525	NonCancer	0.00E+00	3.55E-10	0.00E+00	0.00E+00	0.00E+00	2.58E-10	7.02E-04	0.00E+00	9.65E-11	0.00E+00	0.00E+00	4.72E-09	0.00E+00	0.00E+00	7.02E-04
213	ALL	630700	4178525	NonCancer	0.00E+00	3.61E-10	0.00E+00	0.00E+00	0.00E+00	2.63E-10	7.41E-04	0.00E+00	9.82E-11	0.00E+00	0.00E+00	4.80E-09	0.00E+00	0.00E+00	7.41E-04
214	ALL	630750	4178525	NonCancer	0.00E+00	3.68E-10	0.00E+00	0.00E+00	0.00E+00	2.68E-10	7.69E-04	0.00E+00	9.99E-11	0.00E+00	0.00E+00	4.89E-09	0.00E+00	0.00E+00	7.69E-04
215	ALL	630950	4178525	NonCancer	0.00E+00	3.91E-10	0.00E+00	0.00E+00	0.00E+00	2.85E-10	8.98E-04	0.00E+00	1.06E-10	0.00E+00	0.00E+00	5.20E-09	0.00E+00	0.00E+00	8.98E-04
216	ALL	631050	4178525	NonCancer	0.00E+00	4.03E-10	0.00E+00	0.00E+00	0.00E+00	2.94E-10	8.60E-04	0.00E+00	1.10E-10	0.00E+00	0.00E+00	5.36E-09	0.00E+00	0.00E+00	8.60E-04
217	ALL	631200	4178525	NonCancer	0.00E+00	4.22E-10	0.00E+00	0.00E+00	0.00E+00	3.08E-10	8.55E-04	0.00E+00	1.15E-10	0.00E+00	0.00E+00	5.61E-09	0.00E+00	0.00E+00	8.55E-04
218	ALL	631250	4178525	NonCancer	0.00E+00	4.29E-10	0.00E+00	0.00E+00	0.00E+00	3.13E-10	8.54E-04	0.00E+00	1.17E-10	0.00E+00	0.00E+00	5.71E-09	0.00E+00	0.00E+00	8.54E-04

219	ALL	631300	4178525	NonCancer	0.00E+00	4.37E-10	0.00E+00	0.00E+00	0.00E+00	3.18E-10	8.77E-04	0.00E+00	1.19E-10	0.00E+00	0.00E+00	5.81E-09	0.00E+00	0.00E+00	8.77E-04
220	ALL	631350	4178525	NonCancer	0.00E+00	4.44E-10	0.00E+00	0.00E+00	0.00E+00	3.23E-10	8.78E-04	0.00E+00	1.21E-10	0.00E+00	0.00E+00	5.90E-09	0.00E+00	0.00E+00	8.78E-04
221	ALL	631400	4178525	NonCancer	0.00E+00	4.51E-10	0.00E+00	0.00E+00	0.00E+00	3.28E-10	8.86E-04	0.00E+00	1.23E-10	0.00E+00	0.00E+00	6.00E-09	0.00E+00	0.00E+00	8.86E-04
222	ALL	631450	4178525	NonCancer	0.00E+00	4.57E-10	0.00E+00	0.00E+00	0.00E+00	3.33E-10	9.53E-04	0.00E+00	1.24E-10	0.00E+00	0.00E+00	6.08E-09	0.00E+00	0.00E+00	9.53E-04
223	ALL	631500	4178525	NonCancer	0.00E+00	4.62E-10	0.00E+00	0.00E+00	0.00E+00	3.37E-10	1.02E-03	0.00E+00	1.26E-10	0.00E+00	0.00E+00	6.15E-09	0.00E+00	0.00E+00	1.02E-03
224	ALL	630500	4178575	NonCancer	0.00E+00	3.32E-10	0.00E+00	0.00E+00	0.00E+00	2.41E-10	6.95E-04	0.00E+00	9.02E-11	0.00E+00	0.00E+00	4.41E-09	0.00E+00	0.00E+00	6.95E-04
225	ALL	630550	4178575	NonCancer	0.00E+00	3.38E-10	0.00E+00	0.00E+00	0.00E+00	2.46E-10	6.77E-04	0.00E+00	9.18E-11	0.00E+00	0.00E+00	4.49E-09	0.00E+00	0.00E+00	6.77E-04
226	ALL	630600	4178575	NonCancer	0.00E+00	3.44E-10	0.00E+00	0.00E+00	0.00E+00	2.50E-10	6.79E-04	0.00E+00	9.34E-11	0.00E+00	0.00E+00	4.57E-09	0.00E+00	0.00E+00	6.79E-04
227	ALL	630650	4178575	NonCancer	0.00E+00	3.49E-10	0.00E+00	0.00E+00	0.00E+00	2.54E-10	7.17E-04	0.00E+00	9.50E-11	0.00E+00	0.00E+00	4.64E-09	0.00E+00	0.00E+00	7.17E-04
228	ALL	630700	4178575	NonCancer	0.00E+00	3.55E-10	0.00E+00	0.00E+00	0.00E+00	2.59E-10	7.46E-04	0.00E+00	9.66E-11	0.00E+00	0.00E+00	4.73E-09	0.00E+00	0.00E+00	7.46E-04
229	ALL	630750	4178575	NonCancer	0.00E+00	3.61E-10	0.00E+00	0.00E+00	0.00E+00	2.63E-10	7.62E-04	0.00E+00	9.83E-11	0.00E+00	0.00E+00	4.80E-09	0.00E+00	0.00E+00	7.62E-04
230	ALL	630800	4178575	NonCancer	0.00E+00	3.67E-10	0.00E+00	0.00E+00	0.00E+00	2.67E-10	8.20E-04	0.00E+00	9.98E-11	0.00E+00	0.00E+00	4.88E-09	0.00E+00	0.00E+00	8.20E-04
231	ALL	630850	4178575	NonCancer	0.00E+00	3.73E-10	0.00E+00	0.00E+00	0.00E+00	2.71E-10	8.62E-04	0.00E+00	1.01E-10	0.00E+00	0.00E+00	4.95E-09	0.00E+00	0.00E+00	8.62E-04
232	ALL	631000	4178575	NonCancer	0.00E+00	3.89E-10	0.00E+00	0.00E+00	0.00E+00	2.84E-10	8.57E-04	0.00E+00	1.06E-10	0.00E+00	0.00E+00	5.18E-09	0.00E+00	0.00E+00	8.57E-04
233	ALL	631050	4178575	NonCancer	0.00E+00	3.95E-10	0.00E+00	0.00E+00	0.00E+00	2.88E-10	8.17E-04	0.00E+00	1.07E-10	0.00E+00	0.00E+00	5.25E-09	0.00E+00	0.00E+00	8.17E-04
234	ALL	631200	4178575	NonCancer	0.00E+00	4.14E-10	0.00E+00	0.00E+00	0.00E+00	3.01E-10	8.27E-04	0.00E+00	1.13E-10	0.00E+00	0.00E+00	5.50E-09	0.00E+00	0.00E+00	8.27E-04
235	ALL	631250	4178575	NonCancer	0.00E+00	4.21E-10	0.00E+00	0.00E+00	0.00E+00	3.06E-10	8.49E-04	0.00E+00	1.14E-10	0.00E+00	0.00E+00	5.60E-09	0.00E+00	0.00E+00	8.49E-04
236	ALL	631300	4178575	NonCancer	0.00E+00	4.28E-10	0.00E+00	0.00E+00	0.00E+00	3.12E-10	8.58E-04	0.00E+00	1.16E-10	0.00E+00	0.00E+00	5.69E-09	0.00E+00	0.00E+00	8.58E-04
237	ALL	631350	4178575	NonCancer	0.00E+00	4.35E-10	0.00E+00	0.00E+00	0.00E+00	3.17E-10	8.63E-04	0.00E+00	1.18E-10	0.00E+00	0.00E+00	5.78E-09	0.00E+00	0.00E+00	8.63E-04
238	ALL	631400	4178575	NonCancer	0.00E+00	4.41E-10	0.00E+00	0.00E+00	0.00E+00	3.21E-10	8.96E-04	0.00E+00	1.20E-10	0.00E+00	0.00E+00	5.86E-09	0.00E+00	0.00E+00	8.96E-04
239	ALL	631450	4178575	NonCancer	0.00E+00	4.46E-10	0.00E+00	0.00E+00	0.00E+00	3.25E-10	9.68E-04	0.00E+00	1.21E-10	0.00E+00	0.00E+00	5.94E-09	0.00E+00	0.00E+00	9.68E-04
240	ALL	631500	4178575	NonCancer	0.00E+00	4.51E-10	0.00E+00	0.00E+00	0.00E+00	3.28E-10	1.02E-03	0.00E+00	1.23E-10	0.00E+00	0.00E+00	6.00E-09	0.00E+00	0.00E+00	1.02E-03
241	ALL	630500	4178625	NonCancer	0.00E+00	3.27E-10	0.00E+00	0.00E+00	0.00E+00	2.38E-10	6.61E-04	0.00E+00	8.89E-11	0.00E+00	0.00E+00	4.35E-09	0.00E+00	0.00E+00	6.61E-04
242	ALL	630550	4178625	NonCancer	0.00E+00	3.33E-10	0.00E+00	0.00E+00	0.00E+00	2.42E-10	6.58E-04	0.00E+00	9.05E-11	0.00E+00	0.00E+00	4.42E-09	0.00E+00	0.00E+00	6.58E-04
243	ALL	630600	4178625	NonCancer	0.00E+00	3.38E-10	0.00E+00	0.00E+00	0.00E+00	2.46E-10	6.95E-04	0.00E+00	9.20E-11	0.00E+00	0.00E+00	4.50E-09	0.00E+00	0.00E+00	6.95E-04
244	ALL	630650	4178625	NonCancer	0.00E+00	3.44E-10	0.00E+00	0.00E+00	0.00E+00	2.50E-10	7.23E-04	0.00E+00	9.35E-11	0.00E+00	0.00E+00	4.57E-09	0.00E+00	0.00E+00	7.23E-04
245	ALL	630700	4178625	NonCancer	0.00E+00	3.50E-10	0.00E+00	0.00E+00	0.00E+00	2.55E-10	7.41E-04	0.00E+00	9.51E-11	0.00E+00	0.00E+00	4.65E-09	0.00E+00	0.00E+00	7.41E-04
246	ALL	630750	4178625	NonCancer	0.00E+00	3.55E-10	0.00E+00	0.00E+00	0.00E+00	2.59E-10	7.98E-04	0.00E+00	9.66E-11	0.00E+00	0.00E+00	4.72E-09	0.00E+00	0.00E+00	7.98E-04
247	ALL	630800	4178625	NonCancer	0.00E+00	3.61E-10	0.00E+00	0.00E+00	0.00E+00	2.63E-10	8.44E-04	0.00E+00	9.81E-11	0.00E+00	0.00E+00	4.79E-09	0.00E+00	0.00E+00	8.44E-04
248	ALL	630850	4178625	NonCancer	0.00E+00	3.66E-10	0.00E+00	0.00E+00	0.00E+00	2.66E-10	8.69E-04	0.00E+00	9.95E-11	0.00E+00	0.00E+00	4.87E-09	0.00E+00	0.00E+00	8.69E-04
249	ALL	631000	4178625	NonCancer	0.00E+00	3.82E-10	0.00E+00	0.00E+00	0.00E+00	2.78E-10	8.09E-04	0.00E+00	1.04E-10	0.00E+00	0.00E+00	5.08E-09	0.00E+00	0.00E+00	8.09E-04
250	ALL	631050	4178625	NonCancer	0.00E+00	3.87E-10	0.00E+00	0.00E+00	0.00E+00	2.82E-10	8.01E-04	0.00E+00	1.05E-10	0.00E+00	0.00E+00	5.15E-09	0.00E+00	0.00E+00	8.01E-04
251	ALL	631100	4178625	NonCancer	0.00E+00	3.93E-10	0.00E+00	0.00E+00	0.00E+00	2.86E-10	8.11E-04	0.00E+00	1.07E-10	0.00E+00	0.00E+00	5.23E-09	0.00E+00	0.00E+00	8.11E-04
252	ALL	631150	4178625	NonCancer	0.00E+00	3.99E-10	0.00E+00	0.00E+00	0.00E+00	2.91E-10	8.10E-04	0.00E+00	1.09E-10	0.00E+00	0.00E+00	5.31E-09	0.00E+00	0.00E+00	8.10E-04
253	ALL	631200	4178625	NonCancer	0.00E+00	4.06E-10	0.00E+00	0.00E+00	0.00E+00	2.96E-10	8.21E-04	0.00E+00	1.10E-10	0.00E+00	0.00E+00	5.40E-09	0.00E+00	0.00E+00	8.21E-04
254	ALL	631250	4178625	NonCancer	0.00E+00	4.13E-10	0.00E+00	0.00E+00	0.00E+00	3.00E-10	8.36E-04	0.00E+00	1.12E-10	0.00E+00	0.00E+00	5.49E-09	0.00E+00	0.00E+00	8.36E-04
255	ALL	631300	4178625	NonCancer	0.00E+00	4.19E-10	0.00E+00	0.00E+00	0.00E+00	3.05E-10	8.38E-04	0.00E+00	1.14E-10	0.00E+00	0.00E+00	5.57E-09	0.00E+00	0.00E+00	8.38E-04
256	ALL	631350	4178625	NonCancer	0.00E+00	4.26E-10	0.00E+00	0.00E+00	0.00E+00	3.10E-10	8.41E-04	0.00E+00	1.16E-10	0.00E+00	0.00E+00	5.66E-09	0.00E+00	0.00E+00	8.41E-04
257	ALL	631400	4178625	NonCancer	0.00E+00	4.31E-10	0.00E+00	0.00E+00	0.00E+00	3.14E-10	9.18E-04	0.00E+00	1.17E-10	0.00E+00	0.00E+00	5.73E-09	0.00E+00	0.00E+00	9.18E-04
258	ALL	631450	4178625	NonCancer	0.00E+00	4.36E-10	0.00E+00	0.00E+00	0.00E+00	3.17E-10	9.75E-04	0.00E+00	1.19E-10	0.00E+00	0.00E+00	5.79E-09	0.00E+00	0.00E+00	9.75E-04
259	ALL	631500	4178625	NonCancer	0.00E+00	4.40E-10	0.00E+00	0.00E+00	0.00E+00	3.20E-10	1.01E-03	0.00E+00	1.20E-10	0.00E+00	0.00E+00	5.85E-09	0.00E+00	0.00E+00	1.01E-03
260	ALL	631100	4175700	NonCancer	0.00E+00	4.19E-10	0.00E+00	0.00E+00	0.00E+00	3.05E-10	3.22E-03	0.00E+00	1.14E-10	0.00E+00	0.00E+00	5.57E-09	0.00E+00	0.00E+00	3.22E-03
261	ALL	631150	4175700	NonCancer	0.00E+00	4.38E-10	0.00E+00	0.00E+00	0.00E+00	3.19E-10	3.31E-03	0.00E+00	1.19E-10	0.00E+00	0.00E+00	5.83E-09	0.00E+00	0.00E+00	3.31E-03
262	ALL	631200	4175700	NonCancer	0.00E+00	4.58E-10	0.00E+00	0.00E+00	0.00E+00	3.33E-10	3.42E-03	0.00E+00	1.24E-10	0.00E+00	0.00E+00	6.09E-09	0.00E+00	0.00E+00	3.42E-03
263	ALL	631250	4175700	NonCancer	0.00E+00	4.81E-10	0.00E+00	0.00E+00	0.00E+00	3.50E-10	3.52E-03	0.00E+00	1.31E-10	0.00E+00	0.00E+00	6.39E-09	0.00E+00	0.00E+00	3.52E-03
264	ALL	631100	4175750	NonCancer	0.00E+00	4.10E-10	0.00E+00	0.00E+00	0.00E+00	2.99E-10	3.09E-03	0.00E+00	1.12E-10	0.00E+00	0.00E+00	5.45E-09	0.00E+00	0.00E+00	3.09E-03
265	ALL	631150	4175750	NonCancer	0.00E+00	4.30E-10	0.00E+00	0.00E+00	0.00E+00	3.13E-10	3.20E-03	0.00E+00	1.17E-10	0.00E+00	0.00E+00	5.72E-09	0.00E+00	0.00E+00	3.20E-03
266	ALL	629400	4179050	NonCancer	0.00E+00	2.03E-10	0.00E+00	0.00E+00	0.00E+00	1.48E-10	4.89E-04	0.00E+00	5.52E-11	0.00E+00	0.00E+00	2.70E-09	0.00E+00	0.00E+00	4.89E-04
267	ALL	629450	4179050	NonCancer	0.00E+00	2.07E-10	0.00E+00	0.00E+00	0.00E+00	1.51E-10	5.00E-04	0.00E+00	5.63E-11	0.00E+00	0.00E+00	2.75E-09	0.00E+00	0.00E+00	5.00E-04
268	ALL	629500	4179050	NonCancer	0.00E+00	2.11E-10	0.00E+00	0.00E+00	0.00E+00	1.54E-10	5.05E-04	0.00E+00	5.75E-11	0.00E+00	0.00E+00	2.81E-09	0.00E+00	0.00E+00	5.05E-04
269	ALL	629400	4179100	NonCancer	0.00E+00	2.02E-10	0.00E+00	0.00E+00	0.00E+00	1.47E-10	4.90E-04	0.00E+00	5.51E-11	0.00E+00	0.00E+00	2.69E-09	0.00E+00	0.00E+00	4.90E-04
270	ALL	629450	4179100	NonCancer	0.00E+00	2.07E-10	0.00E+00	0.00E+00	0.00E+00	1.50E-10	4.94E-04	0.00E+00	5.62E-11	0.00E+00	0.00E+00	2.75E-09	0.00E+00	0.00E+00	4.94E-04
271	ALL	629400	4179150	NonCancer	0.00E+00	2.02E-10	0.00E+00	0.00E+00	0.00E+00	1.47E-10	4.84E-04	0.00E+00	5.49E-11	0.00E+00	0.00E+00	2.68E-09	0.00E+00	0.00E+00	4.84E-04
272	ALL	629500	4179150	NonCancer	0.00E+00	2.10E-10	0.00E+00	0.00E+00	0.00E+00	1.53E-10	4.83E-04	0.00E+00	5.70E-11	0.00E+00	0.00E+00	2.79E-09	0.00E+00	0.00E+00	4.83E-04
273	ALL	629550	4179150	NonCancer	0.00E+00	2.13E-10	0.00E+00	0.00E+00	0.00E+00	1.55E-10	4.98E-04	0.00E+00	5.80E-11	0.00E+00	0.00E+00	2.84E-09	0.00E+00	0.00E+00	4.98E-04

274	ALL	629600	4179150	NonCancer	0.00E+00	2.17E-10	0.00E+00	0.00E+00	0.00E+00	1.58E-10	5.07E-04	0.00E+00	5.90E-11	0.00E+00	0.00E+00	2.89E-09	0.00E+00	0.00E+00	5.07E-04
275	ALL	629650	4179150	NonCancer	0.00E+00	2.21E-10	0.00E+00	0.00E+00	0.00E+00	1.61E-10	5.11E-04	0.00E+00	6.00E-11	0.00E+00	0.00E+00	2.93E-09	0.00E+00	0.00E+00	5.11E-04
276	ALL	629700	4179150	NonCancer	0.00E+00	2.24E-10	0.00E+00	0.00E+00	0.00E+00	1.63E-10	5.17E-04	0.00E+00	6.09E-11	0.00E+00	0.00E+00	2.98E-09	0.00E+00	0.00E+00	5.17E-04
277	ALL	629800	4179200	NonCancer	0.00E+00	2.29E-10	0.00E+00	0.00E+00	0.00E+00	1.66E-10	5.34E-04	0.00E+00	6.21E-11	0.00E+00	0.00E+00	3.04E-09	0.00E+00	0.00E+00	5.34E-04
278	ALL	629400	4179300	NonCancer	0.00E+00	1.99E-10	0.00E+00	0.00E+00	0.00E+00	1.45E-10	4.68E-04	0.00E+00	5.41E-11	0.00E+00	0.00E+00	2.65E-09	0.00E+00	0.00E+00	4.68E-04
279	ALL	629400	4179350	NonCancer	0.00E+00	1.98E-10	0.00E+00	0.00E+00	0.00E+00	1.44E-10	4.67E-04	0.00E+00	5.38E-11	0.00E+00	0.00E+00	2.63E-09	0.00E+00	0.00E+00	4.67E-04
280	ALL	634375	4175350	NonCancer	0.00E+00	3.82E-09	0.00E+00	0.00E+00	0.00E+00	2.78E-09	3.47E-03	0.00E+00	1.04E-09	0.00E+00	0.00E+00	5.07E-08	0.00E+00	0.00E+00	3.47E-03
281	ALL	634425	4175350	NonCancer	0.00E+00	3.60E-09	0.00E+00	0.00E+00	0.00E+00	2.62E-09	3.35E-03	0.00E+00	9.80E-10	0.00E+00	0.00E+00	4.79E-08	0.00E+00	0.00E+00	3.35E-03
282	ALL	635425	4175350	NonCancer	0.00E+00	1.63E-09	0.00E+00	0.00E+00	0.00E+00	1.19E-09	2.20E-03	0.00E+00	4.43E-10	0.00E+00	0.00E+00	2.17E-08	0.00E+00	0.00E+00	2.20E-03
283	ALL	635425	4175400	NonCancer	0.00E+00	1.68E-09	0.00E+00	0.00E+00	0.00E+00	1.23E-09	1.97E-03	0.00E+00	4.58E-10	0.00E+00	0.00E+00	2.24E-08	0.00E+00	0.00E+00	1.97E-03
284	ALL	635475	4175400	NonCancer	0.00E+00	1.64E-09	0.00E+00	0.00E+00	0.00E+00	1.19E-09	1.88E-03	0.00E+00	4.45E-10	0.00E+00	0.00E+00	2.18E-08	0.00E+00	0.00E+00	1.88E-03
285	ALL	634325	4175450	NonCancer	0.00E+00	4.71E-09	0.00E+00	0.00E+00	0.00E+00	3.43E-09	4.12E-03	0.00E+00	1.28E-09	0.00E+00	0.00E+00	6.26E-08	0.00E+00	0.00E+00	4.12E-03
286	ALL	634475	4175450	NonCancer	0.00E+00	3.86E-09	0.00E+00	0.00E+00	0.00E+00	2.81E-09	3.92E-03	0.00E+00	1.05E-09	0.00E+00	0.00E+00	5.13E-08	0.00E+00	0.00E+00	3.92E-03
287	ALL	634525	4175450	NonCancer	0.00E+00	3.64E-09	0.00E+00	0.00E+00	0.00E+00	2.65E-09	3.82E-03	0.00E+00	9.90E-10	0.00E+00	0.00E+00	4.84E-08	0.00E+00	0.00E+00	3.82E-03
288	ALL	634525	4175500	NonCancer	0.00E+00	3.84E-09	0.00E+00	0.00E+00	0.00E+00	2.80E-09	3.76E-03	0.00E+00	1.04E-09	0.00E+00	0.00E+00	5.11E-08	0.00E+00	0.00E+00	3.76E-03
289	ALL	634325	4175550	NonCancer	0.00E+00	5.31E-09	0.00E+00	0.00E+00	0.00E+00	3.87E-09	4.36E-03	0.00E+00	1.44E-09	0.00E+00	0.00E+00	7.06E-08	0.00E+00	0.00E+00	4.36E-03
290	ALL	634525	4175550	NonCancer	0.00E+00	3.98E-09	0.00E+00	0.00E+00	0.00E+00	2.90E-09	3.47E-03	0.00E+00	1.08E-09	0.00E+00	0.00E+00	5.30E-08	0.00E+00	0.00E+00	3.47E-03
291	ALL	634575	4175550	NonCancer	0.00E+00	3.75E-09	0.00E+00	0.00E+00	0.00E+00	2.73E-09	3.30E-03	0.00E+00	1.02E-09	0.00E+00	0.00E+00	4.98E-08	0.00E+00	0.00E+00	3.30E-03
292	ALL	634775	4175550	NonCancer	0.00E+00	3.01E-09	0.00E+00	0.00E+00	0.00E+00	2.19E-09	2.79E-03	0.00E+00	8.18E-10	0.00E+00	0.00E+00	4.00E-08	0.00E+00	0.00E+00	2.79E-03
293	ALL	634825	4175550	NonCancer	0.00E+00	2.87E-09	0.00E+00	0.00E+00	0.00E+00	2.09E-09	2.67E-03	0.00E+00	7.79E-10	0.00E+00	0.00E+00	3.81E-08	0.00E+00	0.00E+00	2.67E-03
294	ALL	634625	4175600	NonCancer	0.00E+00	3.55E-09	0.00E+00	0.00E+00	0.00E+00	2.59E-09	3.19E-03	0.00E+00	9.67E-10	0.00E+00	0.00E+00	4.73E-08	0.00E+00	0.00E+00	3.19E-03
295	ALL	634675	4175600	NonCancer	0.00E+00	3.36E-09	0.00E+00	0.00E+00	0.00E+00	2.45E-09	3.06E-03	0.00E+00	9.15E-10	0.00E+00	0.00E+00	4.47E-08	0.00E+00	0.00E+00	3.06E-03
296	ALL	634725	4175600	NonCancer	0.00E+00	3.20E-09	0.00E+00	0.00E+00	0.00E+00	2.33E-09	2.95E-03	0.00E+00	8.69E-10	0.00E+00	0.00E+00	4.25E-08	0.00E+00	0.00E+00	2.95E-03
297	ALL	634775	4175600	NonCancer	0.00E+00	3.04E-09	0.00E+00	0.00E+00	0.00E+00	2.21E-09	2.83E-03	0.00E+00	8.27E-10	0.00E+00	0.00E+00	4.04E-08	0.00E+00	0.00E+00	2.83E-03
298	ALL	634825	4175600	NonCancer	0.00E+00	2.90E-09	0.00E+00	0.00E+00	0.00E+00	2.11E-09	2.72E-03	0.00E+00	7.88E-10	0.00E+00	0.00E+00	3.85E-08	0.00E+00	0.00E+00	2.72E-03
299	ALL	634875	4175600	NonCancer	0.00E+00	2.77E-09	0.00E+00	0.00E+00	0.00E+00	2.02E-09	2.61E-03	0.00E+00	7.53E-10	0.00E+00	0.00E+00	3.68E-08	0.00E+00	0.00E+00	2.61E-03
300	ALL	634925	4175600	NonCancer	0.00E+00	2.65E-09	0.00E+00	0.00E+00	0.00E+00	1.93E-09	2.51E-03	0.00E+00	7.21E-10	0.00E+00	0.00E+00	3.53E-08	0.00E+00	0.00E+00	2.51E-03
301	ALL	635375	4175600	NonCancer	0.00E+00	1.91E-09	0.00E+00	0.00E+00	0.00E+00	1.39E-09	1.86E-03	0.00E+00	5.19E-10	0.00E+00	0.00E+00	2.54E-08	0.00E+00	0.00E+00	1.86E-03
302	ALL	634275	4175650	NonCancer	0.00E+00	5.55E-09	0.00E+00	0.00E+00	0.00E+00	4.04E-09	4.63E-03	0.00E+00	1.51E-09	0.00E+00	0.00E+00	7.38E-08	0.00E+00	0.00E+00	4.63E-03
303	ALL	634325	4175650	NonCancer	0.00E+00	5.14E-09	0.00E+00	0.00E+00	0.00E+00	3.74E-09	4.40E-03	0.00E+00	1.40E-09	0.00E+00	0.00E+00	6.83E-08	0.00E+00	0.00E+00	4.40E-03
304	ALL	634575	4175650	NonCancer	0.00E+00	3.72E-09	0.00E+00	0.00E+00	0.00E+00	2.71E-09	3.42E-03	0.00E+00	1.01E-09	0.00E+00	0.00E+00	4.94E-08	0.00E+00	0.00E+00	3.42E-03
305	ALL	634625	4175650	NonCancer	0.00E+00	3.52E-09	0.00E+00	0.00E+00	0.00E+00	2.56E-09	3.27E-03	0.00E+00	9.58E-10	0.00E+00	0.00E+00	4.68E-08	0.00E+00	0.00E+00	3.27E-03
306	ALL	634675	4175650	NonCancer	0.00E+00	3.34E-09	0.00E+00	0.00E+00	0.00E+00	2.43E-09	3.13E-03	0.00E+00	9.08E-10	0.00E+00	0.00E+00	4.44E-08	0.00E+00	0.00E+00	3.13E-03
307	ALL	634725	4175650	NonCancer	0.00E+00	3.18E-09	0.00E+00	0.00E+00	0.00E+00	2.32E-09	2.99E-03	0.00E+00	8.66E-10	0.00E+00	0.00E+00	4.23E-08	0.00E+00	0.00E+00	2.99E-03
308	ALL	634775	4175650	NonCancer	0.00E+00	3.04E-09	0.00E+00	0.00E+00	0.00E+00	2.21E-09	2.86E-03	0.00E+00	8.26E-10	0.00E+00	0.00E+00	4.04E-08	0.00E+00	0.00E+00	2.86E-03
309	ALL	634825	4175650	NonCancer	0.00E+00	2.91E-09	0.00E+00	0.00E+00	0.00E+00	2.12E-09	2.75E-03	0.00E+00	7.91E-10	0.00E+00	0.00E+00	3.87E-08	0.00E+00	0.00E+00	2.75E-03
310	ALL	634875	4175650	NonCancer	0.00E+00	2.79E-09	0.00E+00	0.00E+00	0.00E+00	2.03E-09	2.65E-03	0.00E+00	7.57E-10	0.00E+00	0.00E+00	3.70E-08	0.00E+00	0.00E+00	2.65E-03
311	ALL	634925	4175650	NonCancer	0.00E+00	2.67E-09	0.00E+00	0.00E+00	0.00E+00	1.95E-09	2.55E-03	0.00E+00	7.26E-10	0.00E+00	0.00E+00	3.55E-08	0.00E+00	0.00E+00	2.55E-03
312	ALL	634975	4175650	NonCancer	0.00E+00	2.57E-09	0.00E+00	0.00E+00	0.00E+00	1.87E-09	2.45E-03	0.00E+00	6.98E-10	0.00E+00	0.00E+00	3.41E-08	0.00E+00	0.00E+00	2.45E-03
313	ALL	635025	4175650	NonCancer	0.00E+00	2.47E-09	0.00E+00	0.00E+00	0.00E+00	1.80E-09	2.36E-03	0.00E+00	6.71E-10	0.00E+00	0.00E+00	3.28E-08	0.00E+00	0.00E+00	2.36E-03
314	ALL	635325	4175650	NonCancer	0.00E+00	2.00E-09	0.00E+00	0.00E+00	0.00E+00	1.45E-09	1.91E-03	0.00E+00	5.43E-10	0.00E+00	0.00E+00	2.65E-08	0.00E+00	0.00E+00	1.91E-03
315	ALL	635375	4175650	NonCancer	0.00E+00	1.93E-09	0.00E+00	0.00E+00	0.00E+00	1.41E-09	1.85E-03	0.00E+00	5.26E-10	0.00E+00	0.00E+00	2.57E-08	0.00E+00	0.00E+00	1.85E-03
316	ALL	634475	4175700	NonCancer	0.00E+00	4.08E-09	0.00E+00	0.00E+00	0.00E+00	2.97E-09	3.82E-03	0.00E+00	1.11E-09	0.00E+00	0.00E+00	5.43E-08	0.00E+00	0.00E+00	3.82E-03
317	ALL	634525	4175700	NonCancer	0.00E+00	3.87E-09	0.00E+00	0.00E+00	0.00E+00	2.82E-09	3.63E-03	0.00E+00	1.05E-09	0.00E+00	0.00E+00	5.14E-08	0.00E+00	0.00E+00	3.63E-03
318	ALL	634575	4175700	NonCancer	0.00E+00	3.67E-09	0.00E+00	0.00E+00	0.00E+00	2.68E-09	3.45E-03	0.00E+00	9.99E-10	0.00E+00	0.00E+00	4.88E-08	0.00E+00	0.00E+00	3.45E-03
319	ALL	634625	4175700	NonCancer	0.00E+00	3.50E-09	0.00E+00	0.00E+00	0.00E+00	2.55E-09	3.28E-03	0.00E+00	9.51E-10	0.00E+00	0.00E+00	4.65E-08	0.00E+00	0.00E+00	3.28E-03
320	ALL	634675	4175700	NonCancer	0.00E+00	3.33E-09	0.00E+00	0.00E+00	0.00E+00	2.43E-09	3.12E-03	0.00E+00	9.07E-10	0.00E+00	0.00E+00	4.43E-08	0.00E+00	0.00E+00	3.12E-03
321	ALL	634725	4175700	NonCancer	0.00E+00	3.19E-09	0.00E+00	0.00E+00	0.00E+00	2.32E-09	2.99E-03	0.00E+00	8.67E-10	0.00E+00	0.00E+00	4.24E-08	0.00E+00	0.00E+00	2.99E-03
322	ALL	634775	4175700	NonCancer	0.00E+00	3.05E-09	0.00E+00	0.00E+00	0.00E+00	2.22E-09	2.88E-03	0.00E+00	8.29E-10	0.00E+00	0.00E+00	4.06E-08	0.00E+00	0.00E+00	2.88E-03
323	ALL	634825	4175700	NonCancer	0.00E+00	2.92E-09	0.00E+00	0.00E+00	0.00E+00	2.13E-09	2.76E-03	0.00E+00	7.94E-10	0.00E+00	0.00E+00	3.88E-08	0.00E+00	0.00E+00	2.76E-03
324	ALL	634875	4175700	NonCancer	0.00E+00	2.80E-09	0.00E+00	0.00E+00	0.00E+00	2.04E-09	2.66E-03	0.00E+00	7.62E-10	0.00E+00	0.00E+00	3.73E-08	0.00E+00	0.00E+00	2.66E-03
325	ALL	634925	4175700	NonCancer	0.00E+00	2.69E-09	0.00E+00	0.00E+00	0.00E+00	1.96E-09	2.56E-03	0.00E+00	7.31E-10	0.00E+00	0.00E+00	3.58E-08	0.00E+00	0.00E+00	2.56E-03
326	ALL	634975	4175700	NonCancer	0.00E+00	2.59E-09	0.00E+00	0.00E+00	0.00E+00	1.88E-09	2.47E-03	0.00E+00	7.03E-10	0.00E+00	0.00E+00	3.44E-08	0.00E+00	0.00E+00	2.47E-03
327	ALL	635025	4175700	NonCancer	0.00E+00	2.49E-09	0.00E+00	0.00E+00	0.00E+00	1.81E-09	2.37E-03	0.00E+00	6.77E-10	0.00E+00	0.00E+00	3.31E-08	0.00E+00	0.00E+00	2.37E-03
328	ALL	635075	4175700	NonCancer	0.00E+00	2.40E-09	0.00E+00	0.00E+00	0.00E+00	1.75E-09	2.29E-03	0.00E+00	6.52E-10	0.00E+00	0.00E+00	3.19E-08	0.00E+00	0.00E+00	2.29E-03

329	ALL	635125	4175700	NonCancer	0.00E+00	2.31E-09	0.00E+00	0.00E+00	0.00E+00	1.68E-09	2.22E-03	0.00E+00	6.28E-10	0.00E+00	0.00E+00	3.07E-08	0.00E+00	0.00E+00	2.22E-03
330	ALL	634425	4175750	NonCancer	0.00E+00	4.27E-09	0.00E+00	0.00E+00	0.00E+00	3.11E-09	4.06E-03	0.00E+00	1.16E-09	0.00E+00	0.00E+00	5.68E-08	0.00E+00	0.00E+00	4.06E-03
331	ALL	634575	4175750	NonCancer	0.00E+00	3.67E-09	0.00E+00	0.00E+00	0.00E+00	2.67E-09	3.48E-03	0.00E+00	9.98E-10	0.00E+00	0.00E+00	4.88E-08	0.00E+00	0.00E+00	3.48E-03
332	ALL	634625	4175750	NonCancer	0.00E+00	3.50E-09	0.00E+00	0.00E+00	0.00E+00	2.55E-09	3.32E-03	0.00E+00	9.51E-10	0.00E+00	0.00E+00	4.65E-08	0.00E+00	0.00E+00	3.32E-03
333	ALL	634675	4175750	NonCancer	0.00E+00	3.34E-09	0.00E+00	0.00E+00	0.00E+00	2.43E-09	3.16E-03	0.00E+00	9.08E-10	0.00E+00	0.00E+00	4.44E-08	0.00E+00	0.00E+00	3.16E-03
334	ALL	634725	4175750	NonCancer	0.00E+00	3.19E-09	0.00E+00	0.00E+00	0.00E+00	2.33E-09	3.02E-03	0.00E+00	8.69E-10	0.00E+00	0.00E+00	4.25E-08	0.00E+00	0.00E+00	3.02E-03
335	ALL	634775	4175750	NonCancer	0.00E+00	3.06E-09	0.00E+00	0.00E+00	0.00E+00	2.23E-09	2.89E-03	0.00E+00	8.31E-10	0.00E+00	0.00E+00	4.06E-08	0.00E+00	0.00E+00	2.89E-03
336	ALL	634825	4175750	NonCancer	0.00E+00	2.93E-09	0.00E+00	0.00E+00	0.00E+00	2.13E-09	2.77E-03	0.00E+00	7.97E-10	0.00E+00	0.00E+00	3.90E-08	0.00E+00	0.00E+00	2.77E-03
337	ALL	634875	4175750	NonCancer	0.00E+00	2.81E-09	0.00E+00	0.00E+00	0.00E+00	2.05E-09	2.65E-03	0.00E+00	7.64E-10	0.00E+00	0.00E+00	3.73E-08	0.00E+00	0.00E+00	2.65E-03
338	ALL	634925	4175750	NonCancer	0.00E+00	2.70E-09	0.00E+00	0.00E+00	0.00E+00	1.96E-09	2.55E-03	0.00E+00	7.34E-10	0.00E+00	0.00E+00	3.59E-08	0.00E+00	0.00E+00	2.55E-03
339	ALL	634975	4175750	NonCancer	0.00E+00	2.59E-09	0.00E+00	0.00E+00	0.00E+00	1.89E-09	2.45E-03	0.00E+00	7.05E-10	0.00E+00	0.00E+00	3.45E-08	0.00E+00	0.00E+00	2.45E-03
340	ALL	635025	4175750	NonCancer	0.00E+00	2.50E-09	0.00E+00	0.00E+00	0.00E+00	1.82E-09	2.36E-03	0.00E+00	6.78E-10	0.00E+00	0.00E+00	3.32E-08	0.00E+00	0.00E+00	2.36E-03
341	ALL	635075	4175750	NonCancer	0.00E+00	2.40E-09	0.00E+00	0.00E+00	0.00E+00	1.75E-09	2.28E-03	0.00E+00	6.54E-10	0.00E+00	0.00E+00	3.20E-08	0.00E+00	0.00E+00	2.28E-03
342	ALL	635125	4175750	NonCancer	0.00E+00	2.32E-09	0.00E+00	0.00E+00	0.00E+00	1.69E-09	2.20E-03	0.00E+00	6.30E-10	0.00E+00	0.00E+00	3.08E-08	0.00E+00	0.00E+00	2.20E-03
343	ALL	635175	4175750	NonCancer	0.00E+00	2.23E-09	0.00E+00	0.00E+00	0.00E+00	1.63E-09	2.13E-03	0.00E+00	6.07E-10	0.00E+00	0.00E+00	2.97E-08	0.00E+00	0.00E+00	2.13E-03
344	ALL	635225	4175750	NonCancer	0.00E+00	2.16E-09	0.00E+00	0.00E+00	0.00E+00	1.57E-09	2.06E-03	0.00E+00	5.87E-10	0.00E+00	0.00E+00	2.87E-08	0.00E+00	0.00E+00	2.06E-03
345	ALL	634325	4175800	NonCancer	0.00E+00	4.73E-09	0.00E+00	0.00E+00	0.00E+00	3.44E-09	4.56E-03	0.00E+00	1.29E-09	0.00E+00	0.00E+00	6.29E-08	0.00E+00	0.00E+00	4.56E-03
346	ALL	634375	4175800	NonCancer	0.00E+00	4.47E-09	0.00E+00	0.00E+00	0.00E+00	3.26E-09	4.30E-03	0.00E+00	1.22E-09	0.00E+00	0.00E+00	5.95E-08	0.00E+00	0.00E+00	4.30E-03
347	ALL	634425	4175800	NonCancer	0.00E+00	4.24E-09	0.00E+00	0.00E+00	0.00E+00	3.09E-09	4.07E-03	0.00E+00	1.15E-09	0.00E+00	0.00E+00	5.64E-08	0.00E+00	0.00E+00	4.07E-03
348	ALL	634475	4175800	NonCancer	0.00E+00	4.03E-09	0.00E+00	0.00E+00	0.00E+00	2.93E-09	3.86E-03	0.00E+00	1.10E-09	0.00E+00	0.00E+00	5.35E-08	0.00E+00	0.00E+00	3.86E-03
349	ALL	634525	4175800	NonCancer	0.00E+00	3.83E-09	0.00E+00	0.00E+00	0.00E+00	2.79E-09	3.67E-03	0.00E+00	1.04E-09	0.00E+00	0.00E+00	5.09E-08	0.00E+00	0.00E+00	3.67E-03
350	ALL	634575	4175800	NonCancer	0.00E+00	3.65E-09	0.00E+00	0.00E+00	0.00E+00	2.65E-09	3.49E-03	0.00E+00	9.91E-10	0.00E+00	0.00E+00	4.85E-08	0.00E+00	0.00E+00	3.49E-03
351	ALL	634625	4175800	NonCancer	0.00E+00	3.48E-09	0.00E+00	0.00E+00	0.00E+00	2.53E-09	3.33E-03	0.00E+00	9.46E-10	0.00E+00	0.00E+00	4.63E-08	0.00E+00	0.00E+00	3.33E-03
352	ALL	634675	4175800	NonCancer	0.00E+00	3.32E-09	0.00E+00	0.00E+00	0.00E+00	2.42E-09	3.18E-03	0.00E+00	9.03E-10	0.00E+00	0.00E+00	4.41E-08	0.00E+00	0.00E+00	3.18E-03
353	ALL	634725	4175800	NonCancer	0.00E+00	3.18E-09	0.00E+00	0.00E+00	0.00E+00	2.31E-09	3.04E-03	0.00E+00	8.64E-10	0.00E+00	0.00E+00	4.22E-08	0.00E+00	0.00E+00	3.04E-03
354	ALL	634775	4175800	NonCancer	0.00E+00	3.04E-09	0.00E+00	0.00E+00	0.00E+00	2.21E-09	2.91E-03	0.00E+00	8.27E-10	0.00E+00	0.00E+00	4.04E-08	0.00E+00	0.00E+00	2.91E-03
355	ALL	634825	4175800	NonCancer	0.00E+00	2.92E-09	0.00E+00	0.00E+00	0.00E+00	2.12E-09	2.80E-03	0.00E+00	7.93E-10	0.00E+00	0.00E+00	3.88E-08	0.00E+00	0.00E+00	2.80E-03
356	ALL	634875	4175800	NonCancer	0.00E+00	2.80E-09	0.00E+00	0.00E+00	0.00E+00	2.04E-09	2.68E-03	0.00E+00	7.60E-10	0.00E+00	0.00E+00	3.72E-08	0.00E+00	0.00E+00	2.68E-03
357	ALL	634925	4175800	NonCancer	0.00E+00	2.69E-09	0.00E+00	0.00E+00	0.00E+00	1.96E-09	2.58E-03	0.00E+00	7.30E-10	0.00E+00	0.00E+00	3.57E-08	0.00E+00	0.00E+00	2.58E-03
358	ALL	634975	4175800	NonCancer	0.00E+00	2.58E-09	0.00E+00	0.00E+00	0.00E+00	1.88E-09	2.48E-03	0.00E+00	7.02E-10	0.00E+00	0.00E+00	3.43E-08	0.00E+00	0.00E+00	2.48E-03
359	ALL	635025	4175800	NonCancer	0.00E+00	2.48E-09	0.00E+00	0.00E+00	0.00E+00	1.81E-09	2.39E-03	0.00E+00	6.75E-10	0.00E+00	0.00E+00	3.30E-08	0.00E+00	0.00E+00	2.39E-03
360	ALL	635075	4175800	NonCancer	0.00E+00	2.39E-09	0.00E+00	0.00E+00	0.00E+00	1.74E-09	2.30E-03	0.00E+00	6.50E-10	0.00E+00	0.00E+00	3.18E-08	0.00E+00	0.00E+00	2.30E-03
361	ALL	635125	4175800	NonCancer	0.00E+00	2.31E-09	0.00E+00	0.00E+00	0.00E+00	1.68E-09	2.22E-03	0.00E+00	6.27E-10	0.00E+00	0.00E+00	3.06E-08	0.00E+00	0.00E+00	2.22E-03
362	ALL	635175	4175800	NonCancer	0.00E+00	2.22E-09	0.00E+00	0.00E+00	0.00E+00	1.62E-09	2.14E-03	0.00E+00	6.05E-10	0.00E+00	0.00E+00	2.96E-08	0.00E+00	0.00E+00	2.14E-03
363	ALL	635225	4175800	NonCancer	0.00E+00	2.15E-09	0.00E+00	0.00E+00	0.00E+00	1.56E-09	2.07E-03	0.00E+00	5.84E-10	0.00E+00	0.00E+00	2.86E-08	0.00E+00	0.00E+00	2.07E-03
364	ALL	635275	4175800	NonCancer	0.00E+00	2.08E-09	0.00E+00	0.00E+00	0.00E+00	1.51E-09	2.01E-03	0.00E+00	5.64E-10	0.00E+00	0.00E+00	2.76E-08	0.00E+00	0.00E+00	2.01E-03
365	ALL	635325	4175800	NonCancer	0.00E+00	2.01E-09	0.00E+00	0.00E+00	0.00E+00	1.46E-09	1.94E-03	0.00E+00	5.46E-10	0.00E+00	0.00E+00	2.67E-08	0.00E+00	0.00E+00	1.94E-03
366	ALL	634225	4175850	NonCancer	0.00E+00	5.19E-09	0.00E+00	0.00E+00	0.00E+00	3.78E-09	4.96E-03	0.00E+00	1.41E-09	0.00E+00	0.00E+00	6.90E-08	0.00E+00	0.00E+00	4.96E-03
367	ALL	634325	4175850	NonCancer	0.00E+00	4.63E-09	0.00E+00	0.00E+00	0.00E+00	3.37E-09	4.42E-03	0.00E+00	1.26E-09	0.00E+00	0.00E+00	6.16E-08	0.00E+00	0.00E+00	4.42E-03
368	ALL	634375	4175850	NonCancer	0.00E+00	4.38E-09	0.00E+00	0.00E+00	0.00E+00	3.19E-09	4.18E-03	0.00E+00	1.19E-09	0.00E+00	0.00E+00	5.83E-08	0.00E+00	0.00E+00	4.18E-03
369	ALL	634425	4175850	NonCancer	0.00E+00	4.16E-09	0.00E+00	0.00E+00	0.00E+00	3.03E-09	3.96E-03	0.00E+00	1.13E-09	0.00E+00	0.00E+00	5.53E-08	0.00E+00	0.00E+00	3.96E-03
370	ALL	634475	4175850	NonCancer	0.00E+00	3.95E-09	0.00E+00	0.00E+00	0.00E+00	2.88E-09	3.76E-03	0.00E+00	1.07E-09	0.00E+00	0.00E+00	5.25E-08	0.00E+00	0.00E+00	3.76E-03
371	ALL	634525	4175850	NonCancer	0.00E+00	3.76E-09	0.00E+00	0.00E+00	0.00E+00	2.74E-09	3.58E-03	0.00E+00	1.02E-09	0.00E+00	0.00E+00	5.00E-08	0.00E+00	0.00E+00	3.58E-03
372	ALL	634575	4175850	NonCancer	0.00E+00	3.58E-09	0.00E+00	0.00E+00	0.00E+00	2.61E-09	3.41E-03	0.00E+00	9.74E-10	0.00E+00	0.00E+00	4.76E-08	0.00E+00	0.00E+00	3.41E-03
373	ALL	634625	4175850	NonCancer	0.00E+00	3.42E-09	0.00E+00	0.00E+00	0.00E+00	2.49E-09	3.26E-03	0.00E+00	9.31E-10	0.00E+00	0.00E+00	4.55E-08	0.00E+00	0.00E+00	3.26E-03
374	ALL	634675	4175850	NonCancer	0.00E+00	3.27E-09	0.00E+00	0.00E+00	0.00E+00	2.38E-09	3.11E-03	0.00E+00	8.89E-10	0.00E+00	0.00E+00	4.34E-08	0.00E+00	0.00E+00	3.11E-03
375	ALL	634725	4175850	NonCancer	0.00E+00	3.13E-09	0.00E+00	0.00E+00	0.00E+00	2.28E-09	2.98E-03	0.00E+00	8.50E-10	0.00E+00	0.00E+00	4.15E-08	0.00E+00	0.00E+00	2.98E-03
376	ALL	634775	4175850	NonCancer	0.00E+00	3.00E-09	0.00E+00	0.00E+00	0.00E+00	2.18E-09	2.86E-03	0.00E+00	8.15E-10	0.00E+00	0.00E+00	3.98E-08	0.00E+00	0.00E+00	2.86E-03
377	ALL	634825	4175850	NonCancer	0.00E+00	2.87E-09	0.00E+00	0.00E+00	0.00E+00	2.09E-09	2.74E-03	0.00E+00	7.81E-10	0.00E+00	0.00E+00	3.82E-08	0.00E+00	0.00E+00	2.74E-03
378	ALL	634875	4175850	NonCancer	0.00E+00	2.76E-09	0.00E+00	0.00E+00	0.00E+00	2.01E-09	2.63E-03	0.00E+00	7.49E-10	0.00E+00	0.00E+00	3.66E-08	0.00E+00	0.00E+00	2.63E-03
379	ALL	634925	4175850	NonCancer	0.00E+00	2.65E-09	0.00E+00	0.00E+00	0.00E+00	1.93E-09	2.53E-03	0.00E+00	7.20E-10	0.00E+00	0.00E+00	3.52E-08	0.00E+00	0.00E+00	2.53E-03
380	ALL	634975	4175850	NonCancer	0.00E+00	2.55E-09	0.00E+00	0.00E+00	0.00E+00	1.85E-09	2.44E-03	0.00E+00	6.92E-10	0.00E+00	0.00E+00	3.38E-08	0.00E+00	0.00E+00	2.44E-03
381	ALL	635025	4175850	NonCancer	0.00E+00	2.45E-09	0.00E+00	0.00E+00	0.00E+00	1.78E-09	2.35E-03	0.00E+00	6.66E-10	0.00E+00	0.00E+00	3.26E-08	0.00E+00	0.00E+00	2.35E-03
382	ALL	635075	4175850	NonCancer	0.00E+00	2.36E-09	0.00E+00	0.00E+00	0.00E+00	1.72E-09	2.26E-03	0.00E+00	6.42E-10	0.00E+00	0.00E+00	3.14E-08	0.00E+00	0.00E+00	2.26E-03
383	ALL	635125	4175850	NonCancer	0.00E+00	2.28E-09	0.00E+00	0.00E+00	0.00E+00	1.66E-09	2.19E-03	0.00E+00	6.19E-10	0.00E+00	0.00E+00	3.03E-08	0.00E+00	0.00E+00	2.19E-03

384	ALL	635175	4175850	NonCancer	0.00E+00	2.20E-09	0.00E+00	0.00E+00	0.00E+00	1.60E-09	2.11E-03	0.00E+00	5.98E-10	0.00E+00	0.00E+00	2.92E-08	0.00E+00	0.00E+00	2.11E-03
385	ALL	635225	4175850	NonCancer	0.00E+00	2.12E-09	0.00E+00	0.00E+00	0.00E+00	1.55E-09	2.04E-03	0.00E+00	5.77E-10	0.00E+00	0.00E+00	2.82E-08	0.00E+00	0.00E+00	2.04E-03
386	ALL	635275	4175850	NonCancer	0.00E+00	2.05E-09	0.00E+00	0.00E+00	0.00E+00	1.49E-09	1.98E-03	0.00E+00	5.58E-10	0.00E+00	0.00E+00	2.73E-08	0.00E+00	0.00E+00	1.98E-03
387	ALL	635325	4175850	NonCancer	0.00E+00	1.98E-09	0.00E+00	0.00E+00	0.00E+00	1.44E-09	1.91E-03	0.00E+00	5.40E-10	0.00E+00	0.00E+00	2.64E-08	0.00E+00	0.00E+00	1.91E-03
388	ALL	635375	4175850	NonCancer	0.00E+00	1.92E-09	0.00E+00	0.00E+00	0.00E+00	1.40E-09	1.85E-03	0.00E+00	5.22E-10	0.00E+00	0.00E+00	2.55E-08	0.00E+00	0.00E+00	1.85E-03
389	ALL	635425	4175850	NonCancer	0.00E+00	1.86E-09	0.00E+00	0.00E+00	0.00E+00	1.35E-09	1.79E-03	0.00E+00	5.05E-10	0.00E+00	0.00E+00	2.47E-08	0.00E+00	0.00E+00	1.79E-03
390	ALL	634225	4175900	NonCancer	0.00E+00	4.99E-09	0.00E+00	0.00E+00	0.00E+00	3.63E-09	5.20E-03	0.00E+00	1.36E-09	0.00E+00	0.00E+00	6.63E-08	0.00E+00	0.00E+00	5.20E-03
391	ALL	634325	4175900	NonCancer	0.00E+00	4.47E-09	0.00E+00	0.00E+00	0.00E+00	3.26E-09	4.61E-03	0.00E+00	1.22E-09	0.00E+00	0.00E+00	5.94E-08	0.00E+00	0.00E+00	4.61E-03
392	ALL	634375	4175900	NonCancer	0.00E+00	4.24E-09	0.00E+00	0.00E+00	0.00E+00	3.09E-09	4.33E-03	0.00E+00	1.15E-09	0.00E+00	0.00E+00	5.63E-08	0.00E+00	0.00E+00	4.33E-03
393	ALL	634425	4175900	NonCancer	0.00E+00	4.02E-09	0.00E+00	0.00E+00	0.00E+00	2.93E-09	4.08E-03	0.00E+00	1.09E-09	0.00E+00	0.00E+00	5.35E-08	0.00E+00	0.00E+00	4.08E-03
394	ALL	634475	4175900	NonCancer	0.00E+00	3.83E-09	0.00E+00	0.00E+00	0.00E+00	2.79E-09	3.85E-03	0.00E+00	1.04E-09	0.00E+00	0.00E+00	5.09E-08	0.00E+00	0.00E+00	3.85E-03
395	ALL	634525	4175900	NonCancer	0.00E+00	3.65E-09	0.00E+00	0.00E+00	0.00E+00	2.65E-09	3.65E-03	0.00E+00	9.91E-10	0.00E+00	0.00E+00	4.85E-08	0.00E+00	0.00E+00	3.65E-03
396	ALL	634575	4175900	NonCancer	0.00E+00	3.48E-09	0.00E+00	0.00E+00	0.00E+00	2.53E-09	3.45E-03	0.00E+00	9.46E-10	0.00E+00	0.00E+00	4.62E-08	0.00E+00	0.00E+00	3.45E-03
397	ALL	634625	4175900	NonCancer	0.00E+00	3.32E-09	0.00E+00	0.00E+00	0.00E+00	2.42E-09	3.28E-03	0.00E+00	9.04E-10	0.00E+00	0.00E+00	4.42E-08	0.00E+00	0.00E+00	3.28E-03
398	ALL	634675	4175900	NonCancer	0.00E+00	3.18E-09	0.00E+00	0.00E+00	0.00E+00	2.32E-09	3.13E-03	0.00E+00	8.65E-10	0.00E+00	0.00E+00	4.23E-08	0.00E+00	0.00E+00	3.13E-03
399	ALL	634725	4175900	NonCancer	0.00E+00	3.05E-09	0.00E+00	0.00E+00	0.00E+00	2.22E-09	2.97E-03	0.00E+00	8.28E-10	0.00E+00	0.00E+00	4.05E-08	0.00E+00	0.00E+00	2.97E-03
400	ALL	634775	4175900	NonCancer	0.00E+00	2.92E-09	0.00E+00	0.00E+00	0.00E+00	2.13E-09	2.83E-03	0.00E+00	7.94E-10	0.00E+00	0.00E+00	3.88E-08	0.00E+00	0.00E+00	2.83E-03
401	ALL	634875	4175900	NonCancer	0.00E+00	2.69E-09	0.00E+00	0.00E+00	0.00E+00	1.96E-09	2.57E-03	0.00E+00	7.32E-10	0.00E+00	0.00E+00	3.58E-08	0.00E+00	0.00E+00	2.57E-03
402	ALL	634925	4175900	NonCancer	0.00E+00	2.59E-09	0.00E+00	0.00E+00	0.00E+00	1.88E-09	2.46E-03	0.00E+00	7.03E-10	0.00E+00	0.00E+00	3.44E-08	0.00E+00	0.00E+00	2.46E-03
403	ALL	634975	4175900	NonCancer	0.00E+00	2.49E-09	0.00E+00	0.00E+00	0.00E+00	1.81E-09	2.36E-03	0.00E+00	6.77E-10	0.00E+00	0.00E+00	3.31E-08	0.00E+00	0.00E+00	2.36E-03
404	ALL	635025	4175900	NonCancer	0.00E+00	2.40E-09	0.00E+00	0.00E+00	0.00E+00	1.75E-09	2.27E-03	0.00E+00	6.52E-10	0.00E+00	0.00E+00	3.19E-08	0.00E+00	0.00E+00	2.27E-03
405	ALL	635075	4175900	NonCancer	0.00E+00	2.31E-09	0.00E+00	0.00E+00	0.00E+00	1.68E-09	2.19E-03	0.00E+00	6.29E-10	0.00E+00	0.00E+00	3.08E-08	0.00E+00	0.00E+00	2.19E-03
406	ALL	635125	4175900	NonCancer	0.00E+00	2.23E-09	0.00E+00	0.00E+00	0.00E+00	1.62E-09	2.11E-03	0.00E+00	6.07E-10	0.00E+00	0.00E+00	2.97E-08	0.00E+00	0.00E+00	2.11E-03
407	ALL	635175	4175900	NonCancer	0.00E+00	2.16E-09	0.00E+00	0.00E+00	0.00E+00	1.57E-09	2.03E-03	0.00E+00	5.86E-10	0.00E+00	0.00E+00	2.86E-08	0.00E+00	0.00E+00	2.03E-03
408	ALL	635225	4175900	NonCancer	0.00E+00	2.08E-09	0.00E+00	0.00E+00	0.00E+00	1.52E-09	1.96E-03	0.00E+00	5.66E-10	0.00E+00	0.00E+00	2.77E-08	0.00E+00	0.00E+00	1.96E-03
409	ALL	635275	4175900	NonCancer	0.00E+00	2.01E-09	0.00E+00	0.00E+00	0.00E+00	1.47E-09	1.90E-03	0.00E+00	5.47E-10	0.00E+00	0.00E+00	2.68E-08	0.00E+00	0.00E+00	1.90E-03
410	ALL	635325	4175900	NonCancer	0.00E+00	1.95E-09	0.00E+00	0.00E+00	0.00E+00	1.42E-09	1.83E-03	0.00E+00	5.30E-10	0.00E+00	0.00E+00	2.59E-08	0.00E+00	0.00E+00	1.83E-03
411	ALL	635375	4175900	NonCancer	0.00E+00	1.89E-09	0.00E+00	0.00E+00	0.00E+00	1.37E-09	1.77E-03	0.00E+00	5.13E-10	0.00E+00	0.00E+00	2.51E-08	0.00E+00	0.00E+00	1.77E-03
412	ALL	635425	4175900	NonCancer	0.00E+00	1.83E-09	0.00E+00	0.00E+00	0.00E+00	1.33E-09	1.71E-03	0.00E+00	4.97E-10	0.00E+00	0.00E+00	2.43E-08	0.00E+00	0.00E+00	1.71E-03
413	ALL	635475	4175900	NonCancer	0.00E+00	1.77E-09	0.00E+00	0.00E+00	0.00E+00	1.29E-09	1.66E-03	0.00E+00	4.82E-10	0.00E+00	0.00E+00	2.35E-08	0.00E+00	0.00E+00	1.66E-03
414	ALL	635525	4175900	NonCancer	0.00E+00	1.72E-09	0.00E+00	0.00E+00	0.00E+00	1.25E-09	1.61E-03	0.00E+00	4.67E-10	0.00E+00	0.00E+00	2.28E-08	0.00E+00	0.00E+00	1.61E-03
415	ALL	634325	4175950	NonCancer	0.00E+00	4.25E-09	0.00E+00	0.00E+00	0.00E+00	3.09E-09	4.52E-03	0.00E+00	1.16E-09	0.00E+00	0.00E+00	5.65E-08	0.00E+00	0.00E+00	4.52E-03
416	ALL	634375	4175950	NonCancer	0.00E+00	4.04E-09	0.00E+00	0.00E+00	0.00E+00	2.94E-09	4.29E-03	0.00E+00	1.10E-09	0.00E+00	0.00E+00	5.37E-08	0.00E+00	0.00E+00	4.29E-03
417	ALL	634425	4175950	NonCancer	0.00E+00	3.84E-09	0.00E+00	0.00E+00	0.00E+00	2.80E-09	4.08E-03	0.00E+00	1.05E-09	0.00E+00	0.00E+00	5.11E-08	0.00E+00	0.00E+00	4.08E-03
418	ALL	634475	4175950	NonCancer	0.00E+00	3.66E-09	0.00E+00	0.00E+00	0.00E+00	2.67E-09	3.89E-03	0.00E+00	9.96E-10	0.00E+00	0.00E+00	4.87E-08	0.00E+00	0.00E+00	3.89E-03
419	ALL	634525	4175950	NonCancer	0.00E+00	3.50E-09	0.00E+00	0.00E+00	0.00E+00	2.55E-09	3.71E-03	0.00E+00	9.51E-10	0.00E+00	0.00E+00	4.65E-08	0.00E+00	0.00E+00	3.71E-03
420	ALL	634575	4175950	NonCancer	0.00E+00	3.34E-09	0.00E+00	0.00E+00	0.00E+00	2.43E-09	3.54E-03	0.00E+00	9.08E-10	0.00E+00	0.00E+00	4.44E-08	0.00E+00	0.00E+00	3.54E-03
421	ALL	634625	4175950	NonCancer	0.00E+00	3.20E-09	0.00E+00	0.00E+00	0.00E+00	2.33E-09	3.39E-03	0.00E+00	8.70E-10	0.00E+00	0.00E+00	4.25E-08	0.00E+00	0.00E+00	3.39E-03
422	ALL	634675	4175950	NonCancer	0.00E+00	3.07E-09	0.00E+00	0.00E+00	0.00E+00	2.23E-09	3.25E-03	0.00E+00	8.34E-10	0.00E+00	0.00E+00	4.08E-08	0.00E+00	0.00E+00	3.25E-03
423	ALL	634875	4175950	NonCancer	0.00E+00	2.61E-09	0.00E+00	0.00E+00	0.00E+00	1.90E-09	2.72E-03	0.00E+00	7.08E-10	0.00E+00	0.00E+00	3.46E-08	0.00E+00	0.00E+00	2.72E-03
424	ALL	634925	4175950	NonCancer	0.00E+00	2.51E-09	0.00E+00	0.00E+00	0.00E+00	1.83E-09	2.61E-03	0.00E+00	6.82E-10	0.00E+00	0.00E+00	3.33E-08	0.00E+00	0.00E+00	2.61E-03
425	ALL	634975	4175950	NonCancer	0.00E+00	2.42E-09	0.00E+00	0.00E+00	0.00E+00	1.76E-09	2.51E-03	0.00E+00	6.57E-10	0.00E+00	0.00E+00	3.21E-08	0.00E+00	0.00E+00	2.51E-03
426	ALL	635025	4175950	NonCancer	0.00E+00	2.33E-09	0.00E+00	0.00E+00	0.00E+00	1.70E-09	2.41E-03	0.00E+00	6.34E-10	0.00E+00	0.00E+00	3.10E-08	0.00E+00	0.00E+00	2.41E-03
427	ALL	635075	4175950	NonCancer	0.00E+00	2.25E-09	0.00E+00	0.00E+00	0.00E+00	1.64E-09	2.31E-03	0.00E+00	6.11E-10	0.00E+00	0.00E+00	2.99E-08	0.00E+00	0.00E+00	2.31E-03
428	ALL	635125	4175950	NonCancer	0.00E+00	2.17E-09	0.00E+00	0.00E+00	0.00E+00	1.58E-09	2.23E-03	0.00E+00	5.91E-10	0.00E+00	0.00E+00	2.89E-08	0.00E+00	0.00E+00	2.23E-03
429	ALL	635175	4175950	NonCancer	0.00E+00	2.10E-09	0.00E+00	0.00E+00	0.00E+00	1.53E-09	2.14E-03	0.00E+00	5.71E-10	0.00E+00	0.00E+00	2.79E-08	0.00E+00	0.00E+00	2.14E-03
430	ALL	635225	4175950	NonCancer	0.00E+00	2.03E-09	0.00E+00	0.00E+00	0.00E+00	1.48E-09	2.06E-03	0.00E+00	5.52E-10	0.00E+00	0.00E+00	2.70E-08	0.00E+00	0.00E+00	2.06E-03
431	ALL	635275	4175950	NonCancer	0.00E+00	1.97E-09	0.00E+00	0.00E+00	0.00E+00	1.43E-09	1.99E-03	0.00E+00	5.34E-10	0.00E+00	0.00E+00	2.61E-08	0.00E+00	0.00E+00	1.99E-03
432	ALL	635325	4175950	NonCancer	0.00E+00	1.90E-09	0.00E+00	0.00E+00	0.00E+00	1.38E-09	1.91E-03	0.00E+00	5.17E-10	0.00E+00	0.00E+00	2.53E-08	0.00E+00	0.00E+00	1.91E-03
433	ALL	635375	4175950	NonCancer	0.00E+00	1.84E-09	0.00E+00	0.00E+00	0.00E+00	1.34E-09	1.84E-03	0.00E+00	5.01E-10	0.00E+00	0.00E+00	2.45E-08	0.00E+00	0.00E+00	1.84E-03
434	ALL	635425	4175950	NonCancer	0.00E+00	1.79E-09	0.00E+00	0.00E+00	0.00E+00	1.30E-09	1.78E-03	0.00E+00	4.86E-10	0.00E+00	0.00E+00	2.37E-08	0.00E+00	0.00E+00	1.78E-03
435	ALL	635475	4175950	NonCancer	0.00E+00	1.73E-09	0.00E+00	0.00E+00	0.00E+00	1.26E-09	1.72E-03	0.00E+00	4.71E-10	0.00E+00	0.00E+00	2.30E-08	0.00E+00	0.00E+00	1.72E-03
436	ALL	635525	4175950	NonCancer	0.00E+00	1.68E-09	0.00E+00	0.00E+00	0.00E+00	1.22E-09	1.65E-03	0.00E+00	4.57E-10	0.00E+00	0.00E+00	2.23E-08	0.00E+00	0.00E+00	1.65E-03
437	ALL	635575	4175950	NonCancer	0.00E+00	1.63E-09	0.00E+00	0.00E+00	0.00E+00	1.19E-09	1.60E-03	0.00E+00	4.44E-10	0.00E+00	0.00E+00	2.17E-08	0.00E+00	0.00E+00	1.60E-03
438	ALL	634725	4176000	NonCancer	0.00E+00	2.81E-09	0.00E+00	0.00E+00	0.00E+00	2.05E-09	3.02E-03	0.00E+00	7.65E-10	0.00E+00	0.00E+00	3.74E-08	0.00E+00	0.00E+00	3.02E-03

439	ALL	634925	4176000	NonCancer	0.00E+00	2.41E-09	0.00E+00	0.00E+00	0.00E+00	1.76E-09	2.58E-03	0.00E+00	6.56E-10	0.00E+00	0.00E+00	3.21E-08	0.00E+00	0.00E+00	2.58E-03
440	ALL	634975	4176000	NonCancer	0.00E+00	2.33E-09	0.00E+00	0.00E+00	0.00E+00	1.70E-09	2.50E-03	0.00E+00	6.33E-10	0.00E+00	0.00E+00	3.10E-08	0.00E+00	0.00E+00	2.50E-03
441	ALL	635025	4176000	NonCancer	0.00E+00	2.25E-09	0.00E+00	0.00E+00	0.00E+00	1.64E-09	2.41E-03	0.00E+00	6.12E-10	0.00E+00	0.00E+00	2.99E-08	0.00E+00	0.00E+00	2.41E-03
442	ALL	635075	4176000	NonCancer	0.00E+00	2.17E-09	0.00E+00	0.00E+00	0.00E+00	1.58E-09	2.33E-03	0.00E+00	5.90E-10	0.00E+00	0.00E+00	2.89E-08	0.00E+00	0.00E+00	2.33E-03
443	ALL	635125	4176000	NonCancer	0.00E+00	2.10E-09	0.00E+00	0.00E+00	0.00E+00	1.53E-09	2.25E-03	0.00E+00	5.71E-10	0.00E+00	0.00E+00	2.79E-08	0.00E+00	0.00E+00	2.25E-03
444	ALL	635175	4176000	NonCancer	0.00E+00	2.03E-09	0.00E+00	0.00E+00	0.00E+00	1.48E-09	2.18E-03	0.00E+00	5.52E-10	0.00E+00	0.00E+00	2.70E-08	0.00E+00	0.00E+00	2.18E-03
445	ALL	635225	4176000	NonCancer	0.00E+00	1.97E-09	0.00E+00	0.00E+00	0.00E+00	1.43E-09	2.11E-03	0.00E+00	5.35E-10	0.00E+00	0.00E+00	2.61E-08	0.00E+00	0.00E+00	2.11E-03
446	ALL	635275	4176000	NonCancer	0.00E+00	1.91E-09	0.00E+00	0.00E+00	0.00E+00	1.39E-09	2.04E-03	0.00E+00	5.18E-10	0.00E+00	0.00E+00	2.53E-08	0.00E+00	0.00E+00	2.04E-03
447	ALL	635325	4176000	NonCancer	0.00E+00	1.85E-09	0.00E+00	0.00E+00	0.00E+00	1.34E-09	1.97E-03	0.00E+00	5.02E-10	0.00E+00	0.00E+00	2.45E-08	0.00E+00	0.00E+00	1.97E-03
448	ALL	635375	4176000	NonCancer	0.00E+00	1.79E-09	0.00E+00	0.00E+00	0.00E+00	1.30E-09	1.91E-03	0.00E+00	4.87E-10	0.00E+00	0.00E+00	2.38E-08	0.00E+00	0.00E+00	1.91E-03
449	ALL	635425	4176000	NonCancer	0.00E+00	1.74E-09	0.00E+00	0.00E+00	0.00E+00	1.26E-09	1.85E-03	0.00E+00	4.72E-10	0.00E+00	0.00E+00	2.31E-08	0.00E+00	0.00E+00	1.85E-03
450	ALL	635475	4176000	NonCancer	0.00E+00	1.68E-09	0.00E+00	0.00E+00	0.00E+00	1.23E-09	1.79E-03	0.00E+00	4.58E-10	0.00E+00	0.00E+00	2.24E-08	0.00E+00	0.00E+00	1.79E-03
451	ALL	635525	4176000	NonCancer	0.00E+00	1.64E-09	0.00E+00	0.00E+00	0.00E+00	1.19E-09	1.73E-03	0.00E+00	4.45E-10	0.00E+00	0.00E+00	2.18E-08	0.00E+00	0.00E+00	1.73E-03
452	ALL	635575	4176000	NonCancer	0.00E+00	1.59E-09	0.00E+00	0.00E+00	0.00E+00	1.16E-09	1.67E-03	0.00E+00	4.32E-10	0.00E+00	0.00E+00	2.11E-08	0.00E+00	0.00E+00	1.67E-03
453	ALL	634825	4176050	NonCancer	0.00E+00	2.48E-09	0.00E+00	0.00E+00	0.00E+00	1.80E-09	2.76E-03	0.00E+00	6.74E-10	0.00E+00	0.00E+00	3.29E-08	0.00E+00	0.00E+00	2.76E-03
454	ALL	634875	4176050	NonCancer	0.00E+00	2.39E-09	0.00E+00	0.00E+00	0.00E+00	1.74E-09	2.65E-03	0.00E+00	6.50E-10	0.00E+00	0.00E+00	3.18E-08	0.00E+00	0.00E+00	2.65E-03
455	ALL	634925	4176050	NonCancer	0.00E+00	2.31E-09	0.00E+00	0.00E+00	0.00E+00	1.68E-09	2.54E-03	0.00E+00	6.28E-10	0.00E+00	0.00E+00	3.07E-08	0.00E+00	0.00E+00	2.54E-03
456	ALL	634975	4176050	NonCancer	0.00E+00	2.23E-09	0.00E+00	0.00E+00	0.00E+00	1.62E-09	2.44E-03	0.00E+00	6.07E-10	0.00E+00	0.00E+00	2.97E-08	0.00E+00	0.00E+00	2.44E-03
457	ALL	635025	4176050	NonCancer	0.00E+00	2.16E-09	0.00E+00	0.00E+00	0.00E+00	1.57E-09	2.34E-03	0.00E+00	5.86E-10	0.00E+00	0.00E+00	2.87E-08	0.00E+00	0.00E+00	2.34E-03
458	ALL	635075	4176050	NonCancer	0.00E+00	2.09E-09	0.00E+00	0.00E+00	0.00E+00	1.52E-09	2.26E-03	0.00E+00	5.67E-10	0.00E+00	0.00E+00	2.77E-08	0.00E+00	0.00E+00	2.26E-03
459	ALL	635125	4176050	NonCancer	0.00E+00	2.02E-09	0.00E+00	0.00E+00	0.00E+00	1.47E-09	2.19E-03	0.00E+00	5.49E-10	0.00E+00	0.00E+00	2.68E-08	0.00E+00	0.00E+00	2.19E-03
460	ALL	635175	4176050	NonCancer	0.00E+00	1.96E-09	0.00E+00	0.00E+00	0.00E+00	1.42E-09	2.12E-03	0.00E+00	5.32E-10	0.00E+00	0.00E+00	2.60E-08	0.00E+00	0.00E+00	2.12E-03
461	ALL	635225	4176050	NonCancer	0.00E+00	1.90E-09	0.00E+00	0.00E+00	0.00E+00	1.38E-09	2.06E-03	0.00E+00	5.15E-10	0.00E+00	0.00E+00	2.52E-08	0.00E+00	0.00E+00	2.06E-03
462	ALL	635275	4176050	NonCancer	0.00E+00	1.84E-09	0.00E+00	0.00E+00	0.00E+00	1.34E-09	1.99E-03	0.00E+00	5.00E-10	0.00E+00	0.00E+00	2.44E-08	0.00E+00	0.00E+00	1.99E-03
463	ALL	635325	4176050	NonCancer	0.00E+00	1.78E-09	0.00E+00	0.00E+00	0.00E+00	1.30E-09	1.93E-03	0.00E+00	4.85E-10	0.00E+00	0.00E+00	2.37E-08	0.00E+00	0.00E+00	1.93E-03
464	ALL	635375	4176050	NonCancer	0.00E+00	1.73E-09	0.00E+00	0.00E+00	0.00E+00	1.26E-09	1.87E-03	0.00E+00	4.70E-10	0.00E+00	0.00E+00	2.30E-08	0.00E+00	0.00E+00	1.87E-03
465	ALL	635425	4176050	NonCancer	0.00E+00	1.68E-09	0.00E+00	0.00E+00	0.00E+00	1.22E-09	1.82E-03	0.00E+00	4.57E-10	0.00E+00	0.00E+00	2.23E-08	0.00E+00	0.00E+00	1.82E-03
466	ALL	635475	4176050	NonCancer	0.00E+00	1.63E-09	0.00E+00	0.00E+00	0.00E+00	1.19E-09	1.77E-03	0.00E+00	4.44E-10	0.00E+00	0.00E+00	2.17E-08	0.00E+00	0.00E+00	1.77E-03
467	ALL	635525	4176050	NonCancer	0.00E+00	1.59E-09	0.00E+00	0.00E+00	0.00E+00	1.15E-09	1.72E-03	0.00E+00	4.31E-10	0.00E+00	0.00E+00	2.11E-08	0.00E+00	0.00E+00	1.72E-03
468	ALL	635575	4176050	NonCancer	0.00E+00	1.54E-09	0.00E+00	0.00E+00	0.00E+00	1.12E-09	1.67E-03	0.00E+00	4.19E-10	0.00E+00	0.00E+00	2.05E-08	0.00E+00	0.00E+00	1.67E-03
469	ALL	634825	4176100	NonCancer	0.00E+00	2.35E-09	0.00E+00	0.00E+00	0.00E+00	1.71E-09	2.70E-03	0.00E+00	6.40E-10	0.00E+00	0.00E+00	3.13E-08	0.00E+00	0.00E+00	2.70E-03
470	ALL	634875	4176100	NonCancer	0.00E+00	2.27E-09	0.00E+00	0.00E+00	0.00E+00	1.66E-09	2.61E-03	0.00E+00	6.18E-10	0.00E+00	0.00E+00	3.02E-08	0.00E+00	0.00E+00	2.61E-03
471	ALL	634925	4176100	NonCancer	0.00E+00	2.20E-09	0.00E+00	0.00E+00	0.00E+00	1.60E-09	2.51E-03	0.00E+00	5.98E-10	0.00E+00	0.00E+00	2.92E-08	0.00E+00	0.00E+00	2.51E-03
472	ALL	634975	4176100	NonCancer	0.00E+00	2.13E-09	0.00E+00	0.00E+00	0.00E+00	1.55E-09	2.42E-03	0.00E+00	5.78E-10	0.00E+00	0.00E+00	2.83E-08	0.00E+00	0.00E+00	2.42E-03
473	ALL	635025	4176100	NonCancer	0.00E+00	2.06E-09	0.00E+00	0.00E+00	0.00E+00	1.50E-09	2.34E-03	0.00E+00	5.60E-10	0.00E+00	0.00E+00	2.74E-08	0.00E+00	0.00E+00	2.34E-03
474	ALL	635075	4176100	NonCancer	0.00E+00	2.00E-09	0.00E+00	0.00E+00	0.00E+00	1.45E-09	2.27E-03	0.00E+00	5.43E-10	0.00E+00	0.00E+00	2.65E-08	0.00E+00	0.00E+00	2.27E-03
475	ALL	635125	4176100	NonCancer	0.00E+00	1.93E-09	0.00E+00	0.00E+00	0.00E+00	1.41E-09	2.19E-03	0.00E+00	5.26E-10	0.00E+00	0.00E+00	2.57E-08	0.00E+00	0.00E+00	2.19E-03
476	ALL	635175	4176100	NonCancer	0.00E+00	1.87E-09	0.00E+00	0.00E+00	0.00E+00	1.36E-09	2.12E-03	0.00E+00	5.10E-10	0.00E+00	0.00E+00	2.49E-08	0.00E+00	0.00E+00	2.12E-03
477	ALL	635225	4176100	NonCancer	0.00E+00	1.82E-09	0.00E+00	0.00E+00	0.00E+00	1.32E-09	2.05E-03	0.00E+00	4.95E-10	0.00E+00	0.00E+00	2.42E-08	0.00E+00	0.00E+00	2.05E-03
478	ALL	635275	4176100	NonCancer	0.00E+00	1.77E-09	0.00E+00	0.00E+00	0.00E+00	1.29E-09	1.98E-03	0.00E+00	4.80E-10	0.00E+00	0.00E+00	2.35E-08	0.00E+00	0.00E+00	1.98E-03
479	ALL	635325	4176100	NonCancer	0.00E+00	1.71E-09	0.00E+00	0.00E+00	0.00E+00	1.25E-09	1.91E-03	0.00E+00	4.66E-10	0.00E+00	0.00E+00	2.28E-08	0.00E+00	0.00E+00	1.91E-03
480	ALL	635375	4176100	NonCancer	0.00E+00	1.67E-09	0.00E+00	0.00E+00	0.00E+00	1.21E-09	1.84E-03	0.00E+00	4.53E-10	0.00E+00	0.00E+00	2.21E-08	0.00E+00	0.00E+00	1.84E-03
481	ALL	635425	4176100	NonCancer	0.00E+00	1.62E-09	0.00E+00	0.00E+00	0.00E+00	1.18E-09	1.77E-03	0.00E+00	4.40E-10	0.00E+00	0.00E+00	2.15E-08	0.00E+00	0.00E+00	1.77E-03
482	ALL	635475	4176100	NonCancer	0.00E+00	1.57E-09	0.00E+00	0.00E+00	0.00E+00	1.15E-09	1.72E-03	0.00E+00	4.28E-10	0.00E+00	0.00E+00	2.09E-08	0.00E+00	0.00E+00	1.72E-03
483	ALL	635525	4176100	NonCancer	0.00E+00	1.53E-09	0.00E+00	0.00E+00	0.00E+00	1.11E-09	1.68E-03	0.00E+00	4.16E-10	0.00E+00	0.00E+00	2.03E-08	0.00E+00	0.00E+00	1.68E-03
484	ALL	635575	4176100	NonCancer	0.00E+00	1.49E-09	0.00E+00	0.00E+00	0.00E+00	1.08E-09	1.63E-03	0.00E+00	4.05E-10	0.00E+00	0.00E+00	1.98E-08	0.00E+00	0.00E+00	1.63E-03
485	ALL	634825	4176150	NonCancer	0.00E+00	2.22E-09	0.00E+00	0.00E+00	0.00E+00	1.62E-09	2.65E-03	0.00E+00	6.04E-10	0.00E+00	0.00E+00	2.95E-08	0.00E+00	0.00E+00	2.65E-03
486	ALL	634875	4176150	NonCancer	0.00E+00	2.15E-09	0.00E+00	0.00E+00	0.00E+00	1.57E-09	2.55E-03	0.00E+00	5.86E-10	0.00E+00	0.00E+00	2.86E-08	0.00E+00	0.00E+00	2.55E-03
487	ALL	634925	4176150	NonCancer	0.00E+00	2.08E-09	0.00E+00	0.00E+00	0.00E+00	1.52E-09	2.46E-03	0.00E+00	5.67E-10	0.00E+00	0.00E+00	2.77E-08	0.00E+00	0.00E+00	2.46E-03
488	ALL	634975	4176150	NonCancer	0.00E+00	2.02E-09	0.00E+00	0.00E+00	0.00E+00	1.47E-09	2.38E-03	0.00E+00	5.49E-10	0.00E+00	0.00E+00	2.69E-08	0.00E+00	0.00E+00	2.38E-03
489	ALL	635025	4176150	NonCancer	0.00E+00	1.96E-09	0.00E+00	0.00E+00	0.00E+00	1.43E-09	2.30E-03	0.00E+00	5.33E-10	0.00E+00	0.00E+00	2.61E-08	0.00E+00	0.00E+00	2.30E-03
490	ALL	635075	4176150	NonCancer	0.00E+00	1.90E-09	0.00E+00	0.00E+00	0.00E+00	1.38E-09	2.22E-03	0.00E+00	5.17E-10	0.00E+00	0.00E+00	2.53E-08	0.00E+00	0.00E+00	2.22E-03
491	ALL	635125	4176150	NonCancer	0.00E+00	1.85E-09	0.00E+00	0.00E+00	0.00E+00	1.34E-09	2.15E-03	0.00E+00	5.02E-10	0.00E+00	0.00E+00	2.45E-08	0.00E+00	0.00E+00	2.15E-03
492	ALL	635175	4176150	NonCancer	0.00E+00	1.79E-09	0.00E+00	0.00E+00	0.00E+00	1.30E-09	2.09E-03	0.00E+00	4.87E-10	0.00E+00	0.00E+00	2.38E-08	0.00E+00	0.00E+00	2.09E-03
493	ALL	635225	4176150	NonCancer	0.00E+00	1.74E-09	0.00E+00	0.00E+00	0.00E+00	1.27E-09	2.02E-03	0.00E+00	4.73E-10	0.00E+00	0.00E+00	2.31E-08	0.00E+00	0.00E+00	2.02E-03

494	ALL	635275	4176150	NonCancer	0.00E+00	1.69E-09	0.00E+00	0.00E+00	0.00E+00	1.23E-09	1.95E-03	0.00E+00	4.60E-10	0.00E+00	0.00E+00	2.25E-08	0.00E+00	0.00E+00	1.95E-03
495	ALL	635325	4176150	NonCancer	0.00E+00	1.64E-09	0.00E+00	0.00E+00	0.00E+00	1.20E-09	1.89E-03	0.00E+00	4.47E-10	0.00E+00	0.00E+00	2.18E-08	0.00E+00	0.00E+00	1.89E-03
496	ALL	635375	4176150	NonCancer	0.00E+00	1.60E-09	0.00E+00	0.00E+00	0.00E+00	1.16E-09	1.84E-03	0.00E+00	4.35E-10	0.00E+00	0.00E+00	2.12E-08	0.00E+00	0.00E+00	1.84E-03
497	ALL	635425	4176150	NonCancer	0.00E+00	1.55E-09	0.00E+00	0.00E+00	0.00E+00	1.13E-09	1.78E-03	0.00E+00	4.22E-10	0.00E+00	0.00E+00	2.07E-08	0.00E+00	0.00E+00	1.78E-03
498	ALL	635475	4176150	NonCancer	0.00E+00	1.51E-09	0.00E+00	0.00E+00	0.00E+00	1.10E-09	1.74E-03	0.00E+00	4.11E-10	0.00E+00	0.00E+00	2.01E-08	0.00E+00	0.00E+00	1.74E-03
499	ALL	635525	4176150	NonCancer	0.00E+00	1.47E-09	0.00E+00	0.00E+00	0.00E+00	1.07E-09	1.69E-03	0.00E+00	4.01E-10	0.00E+00	0.00E+00	1.96E-08	0.00E+00	0.00E+00	1.69E-03
500	ALL	635575	4176150	NonCancer	0.00E+00	1.44E-09	0.00E+00	0.00E+00	0.00E+00	1.04E-09	1.64E-03	0.00E+00	3.90E-10	0.00E+00	0.00E+00	1.91E-08	0.00E+00	0.00E+00	1.64E-03
501	ALL	634875	4176200	NonCancer	0.00E+00	2.03E-09	0.00E+00	0.00E+00	0.00E+00	1.48E-09	2.51E-03	0.00E+00	5.53E-10	0.00E+00	0.00E+00	2.70E-08	0.00E+00	0.00E+00	2.51E-03
502	ALL	634925	4176200	NonCancer	0.00E+00	1.97E-09	0.00E+00	0.00E+00	0.00E+00	1.43E-09	2.42E-03	0.00E+00	5.36E-10	0.00E+00	0.00E+00	2.62E-08	0.00E+00	0.00E+00	2.42E-03
503	ALL	634975	4176200	NonCancer	0.00E+00	1.91E-09	0.00E+00	0.00E+00	0.00E+00	1.39E-09	2.33E-03	0.00E+00	5.20E-10	0.00E+00	0.00E+00	2.54E-08	0.00E+00	0.00E+00	2.33E-03
504	ALL	635125	4176200	NonCancer	0.00E+00	1.75E-09	0.00E+00	0.00E+00	0.00E+00	1.28E-09	2.11E-03	0.00E+00	4.77E-10	0.00E+00	0.00E+00	2.33E-08	0.00E+00	0.00E+00	2.11E-03
505	ALL	635175	4176200	NonCancer	0.00E+00	1.71E-09	0.00E+00	0.00E+00	0.00E+00	1.24E-09	2.05E-03	0.00E+00	4.64E-10	0.00E+00	0.00E+00	2.27E-08	0.00E+00	0.00E+00	2.05E-03
506	ALL	635225	4176200	NonCancer	0.00E+00	1.66E-09	0.00E+00	0.00E+00	0.00E+00	1.21E-09	1.98E-03	0.00E+00	4.51E-10	0.00E+00	0.00E+00	2.21E-08	0.00E+00	0.00E+00	1.98E-03
507	ALL	635525	4176200	NonCancer	0.00E+00	1.41E-09	0.00E+00	0.00E+00	0.00E+00	1.03E-09	1.66E-03	0.00E+00	3.85E-10	0.00E+00	0.00E+00	1.88E-08	0.00E+00	0.00E+00	1.66E-03
508	ALL	635575	4176200	NonCancer	0.00E+00	1.38E-09	0.00E+00	0.00E+00	0.00E+00	1.00E-09	1.61E-03	0.00E+00	3.75E-10	0.00E+00	0.00E+00	1.83E-08	0.00E+00	0.00E+00	1.61E-03
509	ALL	634325	4176250	NonCancer	0.00E+00	2.67E-09	0.00E+00	0.00E+00	0.00E+00	1.94E-09	3.75E-03	0.00E+00	7.25E-10	0.00E+00	0.00E+00	3.55E-08	0.00E+00	0.00E+00	3.75E-03
510	ALL	634375	4176250	NonCancer	0.00E+00	2.58E-09	0.00E+00	0.00E+00	0.00E+00	1.88E-09	3.58E-03	0.00E+00	7.01E-10	0.00E+00	0.00E+00	3.43E-08	0.00E+00	0.00E+00	3.58E-03
511	ALL	634875	4176250	NonCancer	0.00E+00	1.91E-09	0.00E+00	0.00E+00	0.00E+00	1.39E-09	2.44E-03	0.00E+00	5.19E-10	0.00E+00	0.00E+00	2.54E-08	0.00E+00	0.00E+00	2.44E-03
512	ALL	634925	4176250	NonCancer	0.00E+00	1.86E-09	0.00E+00	0.00E+00	0.00E+00	1.35E-09	2.34E-03	0.00E+00	5.05E-10	0.00E+00	0.00E+00	2.47E-08	0.00E+00	0.00E+00	2.34E-03
513	ALL	634975	4176250	NonCancer	0.00E+00	1.81E-09	0.00E+00	0.00E+00	0.00E+00	1.32E-09	2.26E-03	0.00E+00	4.91E-10	0.00E+00	0.00E+00	2.40E-08	0.00E+00	0.00E+00	2.26E-03
514	ALL	635025	4176250	NonCancer	0.00E+00	1.76E-09	0.00E+00	0.00E+00	0.00E+00	1.28E-09	2.20E-03	0.00E+00	4.78E-10	0.00E+00	0.00E+00	2.34E-08	0.00E+00	0.00E+00	2.20E-03
515	ALL	635075	4176250	NonCancer	0.00E+00	1.71E-09	0.00E+00	0.00E+00	0.00E+00	1.25E-09	2.14E-03	0.00E+00	4.65E-10	0.00E+00	0.00E+00	2.27E-08	0.00E+00	0.00E+00	2.14E-03
516	ALL	635125	4176250	NonCancer	0.00E+00	1.67E-09	0.00E+00	0.00E+00	0.00E+00	1.21E-09	2.08E-03	0.00E+00	4.53E-10	0.00E+00	0.00E+00	2.21E-08	0.00E+00	0.00E+00	2.08E-03
517	ALL	635175	4176250	NonCancer	0.00E+00	1.62E-09	0.00E+00	0.00E+00	0.00E+00	1.18E-09	2.01E-03	0.00E+00	4.41E-10	0.00E+00	0.00E+00	2.16E-08	0.00E+00	0.00E+00	2.01E-03
518	ALL	635225	4176250	NonCancer	0.00E+00	1.58E-09	0.00E+00	0.00E+00	0.00E+00	1.15E-09	1.95E-03	0.00E+00	4.30E-10	0.00E+00	0.00E+00	2.10E-08	0.00E+00	0.00E+00	1.95E-03
519	ALL	635275	4176250	NonCancer	0.00E+00	1.54E-09	0.00E+00	0.00E+00	0.00E+00	1.12E-09	1.89E-03	0.00E+00	4.18E-10	0.00E+00	0.00E+00	2.05E-08	0.00E+00	0.00E+00	1.89E-03
520	ALL	635375	4176250	NonCancer	0.00E+00	1.46E-09	0.00E+00	0.00E+00	0.00E+00	1.06E-09	1.78E-03	0.00E+00	3.97E-10	0.00E+00	0.00E+00	1.94E-08	0.00E+00	0.00E+00	1.78E-03
521	ALL	635425	4176250	NonCancer	0.00E+00	1.42E-09	0.00E+00	0.00E+00	0.00E+00	1.04E-09	1.72E-03	0.00E+00	3.87E-10	0.00E+00	0.00E+00	1.89E-08	0.00E+00	0.00E+00	1.72E-03
522	ALL	635525	4176250	NonCancer	0.00E+00	1.36E-09	0.00E+00	0.00E+00	0.00E+00	9.87E-10	1.64E-03	0.00E+00	3.69E-10	0.00E+00	0.00E+00	1.80E-08	0.00E+00	0.00E+00	1.64E-03
523	ALL	635575	4176250	NonCancer	0.00E+00	1.32E-09	0.00E+00	0.00E+00	0.00E+00	9.63E-10	1.59E-03	0.00E+00	3.60E-10	0.00E+00	0.00E+00	1.76E-08	0.00E+00	0.00E+00	1.59E-03
524	ALL	634875	4176300	NonCancer	0.00E+00	1.79E-09	0.00E+00	0.00E+00	0.00E+00	1.30E-09	2.39E-03	0.00E+00	4.87E-10	0.00E+00	0.00E+00	2.38E-08	0.00E+00	0.00E+00	2.39E-03
525	ALL	634925	4176300	NonCancer	0.00E+00	1.75E-09	0.00E+00	0.00E+00	0.00E+00	1.27E-09	2.31E-03	0.00E+00	4.75E-10	0.00E+00	0.00E+00	2.32E-08	0.00E+00	0.00E+00	2.31E-03
526	ALL	634975	4176300	NonCancer	0.00E+00	1.70E-09	0.00E+00	0.00E+00	0.00E+00	1.24E-09	2.23E-03	0.00E+00	4.63E-10	0.00E+00	0.00E+00	2.26E-08	0.00E+00	0.00E+00	2.23E-03
527	ALL	635025	4176300	NonCancer	0.00E+00	1.66E-09	0.00E+00	0.00E+00	0.00E+00	1.21E-09	2.17E-03	0.00E+00	4.51E-10	0.00E+00	0.00E+00	2.20E-08	0.00E+00	0.00E+00	2.17E-03
528	ALL	635075	4176300	NonCancer	0.00E+00	1.62E-09	0.00E+00	0.00E+00	0.00E+00	1.18E-09	2.09E-03	0.00E+00	4.40E-10	0.00E+00	0.00E+00	2.15E-08	0.00E+00	0.00E+00	2.09E-03
529	ALL	635125	4176300	NonCancer	0.00E+00	1.58E-09	0.00E+00	0.00E+00	0.00E+00	1.15E-09	2.02E-03	0.00E+00	4.29E-10	0.00E+00	0.00E+00	2.10E-08	0.00E+00	0.00E+00	2.02E-03
530	ALL	635175	4176300	NonCancer	0.00E+00	1.54E-09	0.00E+00	0.00E+00	0.00E+00	1.12E-09	1.94E-03	0.00E+00	4.18E-10	0.00E+00	0.00E+00	2.04E-08	0.00E+00	0.00E+00	1.94E-03
531	ALL	635225	4176300	NonCancer	0.00E+00	1.50E-09	0.00E+00	0.00E+00	0.00E+00	1.09E-09	1.90E-03	0.00E+00	4.08E-10	0.00E+00	0.00E+00	1.99E-08	0.00E+00	0.00E+00	1.90E-03
532	ALL	635275	4176300	NonCancer	0.00E+00	1.46E-09	0.00E+00	0.00E+00	0.00E+00	1.07E-09	1.86E-03	0.00E+00	3.98E-10	0.00E+00	0.00E+00	1.95E-08	0.00E+00	0.00E+00	1.86E-03
533	ALL	635375	4176300	NonCancer	0.00E+00	1.39E-09	0.00E+00	0.00E+00	0.00E+00	1.01E-09	1.75E-03	0.00E+00	3.79E-10	0.00E+00	0.00E+00	1.85E-08	0.00E+00	0.00E+00	1.75E-03
534	ALL	635425	4176300	NonCancer	0.00E+00	1.36E-09	0.00E+00	0.00E+00	0.00E+00	9.90E-10	1.70E-03	0.00E+00	3.70E-10	0.00E+00	0.00E+00	1.81E-08	0.00E+00	0.00E+00	1.70E-03
535	ALL	635525	4176300	NonCancer	0.00E+00	1.30E-09	0.00E+00	0.00E+00	0.00E+00	9.44E-10	1.61E-03	0.00E+00	3.53E-10	0.00E+00	0.00E+00	1.72E-08	0.00E+00	0.00E+00	1.61E-03
536	ALL	635575	4176300	NonCancer	0.00E+00	1.27E-09	0.00E+00	0.00E+00	0.00E+00	9.22E-10	1.57E-03	0.00E+00	3.44E-10	0.00E+00	0.00E+00	1.68E-08	0.00E+00	0.00E+00	1.57E-03
537	ALL	634875	4176350	NonCancer	0.00E+00	1.68E-09	0.00E+00	0.00E+00	0.00E+00	1.22E-09	2.32E-03	0.00E+00	4.57E-10	0.00E+00	0.00E+00	2.23E-08	0.00E+00	0.00E+00	2.32E-03
538	ALL	634925	4176350	NonCancer	0.00E+00	1.64E-09	0.00E+00	0.00E+00	0.00E+00	1.19E-09	2.26E-03	0.00E+00	4.46E-10	0.00E+00	0.00E+00	2.18E-08	0.00E+00	0.00E+00	2.26E-03
539	ALL	634975	4176350	NonCancer	0.00E+00	1.60E-09	0.00E+00	0.00E+00	0.00E+00	1.16E-09	2.18E-03	0.00E+00	4.35E-10	0.00E+00	0.00E+00	2.13E-08	0.00E+00	0.00E+00	2.18E-03
540	ALL	635025	4176350	NonCancer	0.00E+00	1.56E-09	0.00E+00	0.00E+00	0.00E+00	1.14E-09	2.12E-03	0.00E+00	4.24E-10	0.00E+00	0.00E+00	2.08E-08	0.00E+00	0.00E+00	2.12E-03
541	ALL	635075	4176350	NonCancer	0.00E+00	1.52E-09	0.00E+00	0.00E+00	0.00E+00	1.11E-09	2.05E-03	0.00E+00	4.14E-10	0.00E+00	0.00E+00	2.03E-08	0.00E+00	0.00E+00	2.05E-03
542	ALL	635125	4176350	NonCancer	0.00E+00	1.49E-09	0.00E+00	0.00E+00	0.00E+00	1.08E-09	1.99E-03	0.00E+00	4.05E-10	0.00E+00	0.00E+00	1.98E-08	0.00E+00	0.00E+00	1.99E-03
543	ALL	635175	4176350	NonCancer	0.00E+00	1.45E-09	0.00E+00	0.00E+00	0.00E+00	1.06E-09	1.93E-03	0.00E+00	3.95E-10	0.00E+00	0.00E+00	1.93E-08	0.00E+00	0.00E+00	1.93E-03
544	ALL	635225	4176350	NonCancer	0.00E+00	1.42E-09	0.00E+00	0.00E+00	0.00E+00	1.03E-09	1.88E-03	0.00E+00	3.86E-10	0.00E+00	0.00E+00	1.89E-08	0.00E+00	0.00E+00	1.88E-03
545	ALL	635275	4176350	NonCancer	0.00E+00	1.39E-09	0.00E+00	0.00E+00	0.00E+00	1.01E-09	1.82E-03	0.00E+00	3.78E-10	0.00E+00	0.00E+00	1.85E-08	0.00E+00	0.00E+00	1.82E-03
546	ALL	635375	4176350	NonCancer	0.00E+00	1.32E-09	0.00E+00	0.00E+00	0.00E+00	9.65E-10	1.69E-03	0.00E+00	3.60E-10	0.00E+00	0.00E+00	1.76E-08	0.00E+00	0.00E+00	1.69E-03
547	ALL	635425	4176350	NonCancer	0.00E+00	1.30E-09	0.00E+00	0.00E+00	0.00E+00	9.43E-10	1.65E-03	0.00E+00	3.52E-10	0.00E+00	0.00E+00	1.72E-08	0.00E+00	0.00E+00	1.65E-03
548	ALL	635525	4176350	NonCancer	0.00E+00	1.24E-09	0.00E+00	0.00E+00	0.00E+00	9.02E-10	1.58E-03	0.00E+00	3.37E-10	0.00E+00	0.00E+00	1.65E-08	0.00E+00	0.00E+00	1.58E-03

549	ALL	635575	4176350	NonCancer	0.00E+00	1.21E-09	0.00E+00	0.00E+00	0.00E+00	8.81E-10	1.54E-03	0.00E+00	3.29E-10	0.00E+00	0.00E+00	1.61E-08	0.00E+00	0.00E+00	1.54E-03
550	ALL	634875	4176400	NonCancer	0.00E+00	1.58E-09	0.00E+00	0.00E+00	0.00E+00	1.15E-09	2.24E-03	0.00E+00	4.28E-10	0.00E+00	0.00E+00	2.09E-08	0.00E+00	0.00E+00	2.24E-03
551	ALL	634925	4176400	NonCancer	0.00E+00	1.54E-09	0.00E+00	0.00E+00	0.00E+00	1.12E-09	2.19E-03	0.00E+00	4.18E-10	0.00E+00	0.00E+00	2.05E-08	0.00E+00	0.00E+00	2.19E-03
552	ALL	634975	4176400	NonCancer	0.00E+00	1.50E-09	0.00E+00	0.00E+00	0.00E+00	1.09E-09	2.14E-03	0.00E+00	4.09E-10	0.00E+00	0.00E+00	2.00E-08	0.00E+00	0.00E+00	2.14E-03
553	ALL	635025	4176400	NonCancer	0.00E+00	1.47E-09	0.00E+00	0.00E+00	0.00E+00	1.07E-09	2.07E-03	0.00E+00	3.99E-10	0.00E+00	0.00E+00	1.95E-08	0.00E+00	0.00E+00	2.07E-03
554	ALL	635075	4176400	NonCancer	0.00E+00	1.44E-09	0.00E+00	0.00E+00	0.00E+00	1.05E-09	2.01E-03	0.00E+00	3.90E-10	0.00E+00	0.00E+00	1.91E-08	0.00E+00	0.00E+00	2.01E-03
555	ALL	635125	4176400	NonCancer	0.00E+00	1.40E-09	0.00E+00	0.00E+00	0.00E+00	1.02E-09	1.95E-03	0.00E+00	3.82E-10	0.00E+00	0.00E+00	1.87E-08	0.00E+00	0.00E+00	1.95E-03
556	ALL	635175	4176400	NonCancer	0.00E+00	1.37E-09	0.00E+00	0.00E+00	0.00E+00	1.00E-09	1.89E-03	0.00E+00	3.74E-10	0.00E+00	0.00E+00	1.83E-08	0.00E+00	0.00E+00	1.89E-03
557	ALL	635225	4176400	NonCancer	0.00E+00	1.34E-09	0.00E+00	0.00E+00	0.00E+00	9.79E-10	1.84E-03	0.00E+00	3.66E-10	0.00E+00	0.00E+00	1.79E-08	0.00E+00	0.00E+00	1.84E-03
558	ALL	635275	4176400	NonCancer	0.00E+00	1.32E-09	0.00E+00	0.00E+00	0.00E+00	9.58E-10	1.79E-03	0.00E+00	3.58E-10	0.00E+00	0.00E+00	1.75E-08	0.00E+00	0.00E+00	1.79E-03
559	ALL	635425	4176400	NonCancer	0.00E+00	1.23E-09	0.00E+00	0.00E+00	0.00E+00	8.97E-10	1.65E-03	0.00E+00	3.35E-10	0.00E+00	0.00E+00	1.64E-08	0.00E+00	0.00E+00	1.65E-03
560	ALL	635525	4176400	NonCancer	0.00E+00	1.18E-09	0.00E+00	0.00E+00	0.00E+00	8.59E-10	1.55E-03	0.00E+00	3.21E-10	0.00E+00	0.00E+00	1.57E-08	0.00E+00	0.00E+00	1.55E-03
561	ALL	635575	4176400	NonCancer	0.00E+00	1.16E-09	0.00E+00	0.00E+00	0.00E+00	8.42E-10	1.50E-03	0.00E+00	3.14E-10	0.00E+00	0.00E+00	1.54E-08	0.00E+00	0.00E+00	1.50E-03
562	ALL	633650	4176200	NonCancer	0.00E+00	4.98E-09	0.00E+00	0.00E+00	0.00E+00	3.62E-09	8.96E-03	0.00E+00	1.35E-09	0.00E+00	0.00E+00	6.62E-08	0.00E+00	0.00E+00	8.96E-03
563	ALL	633700	4176200	NonCancer	0.00E+00	4.77E-09	0.00E+00	0.00E+00	0.00E+00	3.47E-09	8.10E-03	0.00E+00	1.30E-09	0.00E+00	0.00E+00	6.34E-08	0.00E+00	0.00E+00	8.10E-03
564	ALL	633850	4176200	NonCancer	0.00E+00	4.21E-09	0.00E+00	0.00E+00	0.00E+00	3.06E-09	6.34E-03	0.00E+00	1.14E-09	0.00E+00	0.00E+00	5.60E-08	0.00E+00	0.00E+00	6.34E-03
565	ALL	633850	4176250	NonCancer	0.00E+00	3.78E-09	0.00E+00	0.00E+00	0.00E+00	2.75E-09	6.24E-03	0.00E+00	1.03E-09	0.00E+00	0.00E+00	5.02E-08	0.00E+00	0.00E+00	6.24E-03
566	ALL	633950	4176250	NonCancer	0.00E+00	3.50E-09	0.00E+00	0.00E+00	0.00E+00	2.55E-09	5.37E-03	0.00E+00	9.53E-10	0.00E+00	0.00E+00	4.66E-08	0.00E+00	0.00E+00	5.37E-03
567	ALL	634350	4176250	NonCancer	0.00E+00	2.62E-09	0.00E+00	0.00E+00	0.00E+00	1.91E-09	3.67E-03	0.00E+00	7.14E-10	0.00E+00	0.00E+00	3.49E-08	0.00E+00	0.00E+00	3.67E-03
568	ALL	633750	4176300	NonCancer	0.00E+00	3.64E-09	0.00E+00	0.00E+00	0.00E+00	2.65E-09	7.04E-03	0.00E+00	9.89E-10	0.00E+00	0.00E+00	4.84E-08	0.00E+00	0.00E+00	7.04E-03
569	ALL	633950	4176300	NonCancer	0.00E+00	3.18E-09	0.00E+00	0.00E+00	0.00E+00	2.31E-09	5.24E-03	0.00E+00	8.64E-10	0.00E+00	0.00E+00	4.22E-08	0.00E+00	0.00E+00	5.24E-03
570	ALL	634000	4176300	NonCancer	0.00E+00	3.07E-09	0.00E+00	0.00E+00	0.00E+00	2.24E-09	4.86E-03	0.00E+00	8.35E-10	0.00E+00	0.00E+00	4.08E-08	0.00E+00	0.00E+00	4.86E-03
571	ALL	634050	4176300	NonCancer	0.00E+00	2.96E-09	0.00E+00	0.00E+00	0.00E+00	2.16E-09	4.60E-03	0.00E+00	8.05E-10	0.00E+00	0.00E+00	3.94E-08	0.00E+00	0.00E+00	4.60E-03
572	ALL	634050	4176350	NonCancer	0.00E+00	2.71E-09	0.00E+00	0.00E+00	0.00E+00	1.97E-09	4.46E-03	0.00E+00	7.37E-10	0.00E+00	0.00E+00	3.60E-08	0.00E+00	0.00E+00	4.46E-03
573	ALL	634050	4176400	NonCancer	0.00E+00	2.49E-09	0.00E+00	0.00E+00	0.00E+00	1.81E-09	4.52E-03	0.00E+00	6.76E-10	0.00E+00	0.00E+00	3.30E-08	0.00E+00	0.00E+00	4.52E-03
574	ALL	634000	4176450	NonCancer	0.00E+00	2.35E-09	0.00E+00	0.00E+00	0.00E+00	1.71E-09	4.61E-03	0.00E+00	6.40E-10	0.00E+00	0.00E+00	3.13E-08	0.00E+00	0.00E+00	4.61E-03
575	ALL	634050	4176450	NonCancer	0.00E+00	2.29E-09	0.00E+00	0.00E+00	0.00E+00	1.67E-09	4.32E-03	0.00E+00	6.22E-10	0.00E+00	0.00E+00	3.04E-08	0.00E+00	0.00E+00	4.32E-03
576	ALL	634200	4176600	NonCancer	0.00E+00	1.71E-09	0.00E+00	0.00E+00	0.00E+00	1.24E-09	3.52E-03	0.00E+00	4.65E-10	0.00E+00	0.00E+00	2.27E-08	0.00E+00	0.00E+00	3.52E-03
577	ALL	634100	4176650	NonCancer	0.00E+00	1.71E-09	0.00E+00	0.00E+00	0.00E+00	1.25E-09	3.50E-03	0.00E+00	4.65E-10	0.00E+00	0.00E+00	2.28E-08	0.00E+00	0.00E+00	3.50E-03
578	ALL	634150	4176650	NonCancer	0.00E+00	1.66E-09	0.00E+00	0.00E+00	0.00E+00	1.21E-09	3.43E-03	0.00E+00	4.52E-10	0.00E+00	0.00E+00	2.21E-08	0.00E+00	0.00E+00	3.43E-03
579	ALL	634200	4176650	NonCancer	0.00E+00	1.61E-09	0.00E+00	0.00E+00	0.00E+00	1.17E-09	3.42E-03	0.00E+00	4.38E-10	0.00E+00	0.00E+00	2.14E-08	0.00E+00	0.00E+00	3.42E-03
580	ALL	634200	4176850	NonCancer	0.00E+00	1.34E-09	0.00E+00	0.00E+00	0.00E+00	9.79E-10	3.03E-03	0.00E+00	3.65E-10	0.00E+00	0.00E+00	1.79E-08	0.00E+00	0.00E+00	3.03E-03
581	ALL	634200	4176900	NonCancer	0.00E+00	1.30E-09	0.00E+00	0.00E+00	0.00E+00	9.43E-10	2.89E-03	0.00E+00	3.52E-10	0.00E+00	0.00E+00	1.72E-08	0.00E+00	0.00E+00	2.89E-03
582	ALL	634250	4176900	NonCancer	0.00E+00	1.26E-09	0.00E+00	0.00E+00	0.00E+00	9.15E-10	2.85E-03	0.00E+00	3.42E-10	0.00E+00	0.00E+00	1.67E-08	0.00E+00	0.00E+00	2.85E-03
583	ALL	634300	4176900	NonCancer	0.00E+00	1.22E-09	0.00E+00	0.00E+00	0.00E+00	8.88E-10	2.69E-03	0.00E+00	3.32E-10	0.00E+00	0.00E+00	1.62E-08	0.00E+00	0.00E+00	2.69E-03
584	ALL	634400	4177000	NonCancer	0.00E+00	1.08E-09	0.00E+00	0.00E+00	0.00E+00	7.83E-10	2.41E-03	0.00E+00	2.92E-10	0.00E+00	0.00E+00	1.43E-08	0.00E+00	0.00E+00	2.41E-03
585	ALL	634450	4177000	NonCancer	0.00E+00	1.04E-09	0.00E+00	0.00E+00	0.00E+00	7.60E-10	2.25E-03	0.00E+00	2.84E-10	0.00E+00	0.00E+00	1.39E-08	0.00E+00	0.00E+00	2.25E-03
586	ALL	634500	4177000	NonCancer	0.00E+00	1.01E-09	0.00E+00	0.00E+00	0.00E+00	7.38E-10	2.21E-03	0.00E+00	2.76E-10	0.00E+00	0.00E+00	1.35E-08	0.00E+00	0.00E+00	2.21E-03
587	ALL	634550	4177000	NonCancer	0.00E+00	9.86E-10	0.00E+00	0.00E+00	0.00E+00	7.18E-10	2.13E-03	0.00E+00	2.68E-10	0.00E+00	0.00E+00	1.31E-08	0.00E+00	0.00E+00	2.13E-03
588	ALL	634400	4177050	NonCancer	0.00E+00	1.04E-09	0.00E+00	0.00E+00	0.00E+00	7.59E-10	2.40E-03	0.00E+00	2.84E-10	0.00E+00	0.00E+00	1.39E-08	0.00E+00	0.00E+00	2.40E-03
589	ALL	634450	4177050	NonCancer	0.00E+00	1.01E-09	0.00E+00	0.00E+00	0.00E+00	7.36E-10	2.28E-03	0.00E+00	2.75E-10	0.00E+00	0.00E+00	1.34E-08	0.00E+00	0.00E+00	2.28E-03
590	ALL	634500	4177050	NonCancer	0.00E+00	9.86E-10	0.00E+00	0.00E+00	0.00E+00	7.18E-10	2.13E-03	0.00E+00	2.68E-10	0.00E+00	0.00E+00	1.31E-08	0.00E+00	0.00E+00	2.13E-03
591	ALL	634550	4177050	NonCancer	0.00E+00	9.60E-10	0.00E+00	0.00E+00	0.00E+00	6.99E-10	2.11E-03	0.00E+00	2.61E-10	0.00E+00	0.00E+00	1.28E-08	0.00E+00	0.00E+00	2.11E-03
592	ALL	633750	4173175	NonCancer	0.00E+00	2.41E-10	0.00E+00	0.00E+00	0.00E+00	1.75E-10	1.74E-03	0.00E+00	6.55E-11	0.00E+00	0.00E+00	3.20E-09	0.00E+00	0.00E+00	1.74E-03
593	ALL	634450	4173325	NonCancer	0.00E+00	3.30E-10	0.00E+00	0.00E+00	0.00E+00	2.40E-10	1.84E-03	0.00E+00	8.98E-11	0.00E+00	0.00E+00	4.39E-09	0.00E+00	0.00E+00	1.84E-03
594	ALL	634450	4173375	NonCancer	0.00E+00	3.46E-10	0.00E+00	0.00E+00	0.00E+00	2.52E-10	1.87E-03	0.00E+00	9.41E-11	0.00E+00	0.00E+00	4.60E-09	0.00E+00	0.00E+00	1.87E-03
595	ALL	634350	4173475	NonCancer	0.00E+00	3.69E-10	0.00E+00	0.00E+00	0.00E+00	2.69E-10	1.96E-03	0.00E+00	1.00E-10	0.00E+00	0.00E+00	4.91E-09	0.00E+00	0.00E+00	1.96E-03
596	ALL	634300	4173625	NonCancer	0.00E+00	4.26E-10	0.00E+00	0.00E+00	0.00E+00	3.11E-10	2.09E-03	0.00E+00	1.16E-10	0.00E+00	0.00E+00	5.67E-09	0.00E+00	0.00E+00	2.09E-03
597	ALL	634300	4173675	NonCancer	0.00E+00	4.51E-10	0.00E+00	0.00E+00	0.00E+00	3.29E-10	2.08E-03	0.00E+00	1.23E-10	0.00E+00	0.00E+00	6.00E-09	0.00E+00	0.00E+00	2.08E-03
598	ALL	634350	4173675	NonCancer	0.00E+00	4.58E-10	0.00E+00	0.00E+00	0.00E+00	3.33E-10	2.08E-03	0.00E+00	1.25E-10	0.00E+00	0.00E+00	6.09E-09	0.00E+00	0.00E+00	2.08E-03
599	ALL	634250	4173775	NonCancer	0.00E+00	4.99E-10	0.00E+00	0.00E+00	0.00E+00	3.63E-10	2.16E-03	0.00E+00	1.36E-10	0.00E+00	0.00E+00	6.63E-09	0.00E+00	0.00E+00	2.16E-03
600	ALL	633950	4173825	NonCancer	0.00E+00	4.79E-10	0.00E+00	0.00E+00	0.00E+00	3.49E-10	2.34E-03	0.00E+00	1.30E-10	0.00E+00	0.00E+00	6.36E-09	0.00E+00	0.00E+00	2.34E-03
601	ALL	634050	4173825	NonCancer	0.00E+00	4.99E-10	0.00E+00	0.00E+00	0.00E+00	3.63E-10	2.03E-03	0.00E+00	1.36E-10	0.00E+00	0.00E+00	6.63E-09	0.00E+00	0.00E+00	2.03E-03
602	ALL	634100	4173825	NonCancer	0.00E+00	5.07E-10	0.00E+00	0.00E+00	0.00E+00	3.69E-10	2.13E-03	0.00E+00	1.38E-10	0.00E+00	0.00E+00	6.74E-09	0.00E+00	0.00E+00	2.13E-03
603	ALL	634250	4173825	NonCancer	0.00E+00	5.29E-10	0.00E+00	0.00E+00	0.00E+00	3.85E-10	2.22E-03	0.00E+00	1.44E-10	0.00E+00	0.00E+00	7.03E-09	0.00E+00	0.00E+00	2.22E-03

604	ALL	634250	4173975	NonCancer	0.00E+00	6.33E-10	0.00E+00	0.00E+00	0.00E+00	4.61E-10	2.20E-03	0.00E+00	1.72E-10	0.00E+00	0.00E+00	8.42E-09	0.00E+00	0.00E+00	2.20E-03
605	ALL	634150	4174125	NonCancer	0.00E+00	7.62E-10	0.00E+00	0.00E+00	0.00E+00	5.55E-10	2.33E-03	0.00E+00	2.07E-10	0.00E+00	0.00E+00	1.01E-08	0.00E+00	0.00E+00	2.33E-03
606	ALL	634200	4174125	NonCancer	0.00E+00	7.56E-10	0.00E+00	0.00E+00	0.00E+00	5.50E-10	2.14E-03	0.00E+00	2.05E-10	0.00E+00	0.00E+00	1.00E-08	0.00E+00	0.00E+00	2.14E-03
607	ALL	634250	4174125	NonCancer	0.00E+00	7.46E-10	0.00E+00	0.00E+00	0.00E+00	5.43E-10	2.32E-03	0.00E+00	2.03E-10	0.00E+00	0.00E+00	9.91E-09	0.00E+00	0.00E+00	2.32E-03
608	ALL	634250	4174225	NonCancer	0.00E+00	8.29E-10	0.00E+00	0.00E+00	0.00E+00	6.03E-10	2.41E-03	0.00E+00	2.25E-10	0.00E+00	0.00E+00	1.10E-08	0.00E+00	0.00E+00	2.41E-03
609	ALL	634350	4174225	NonCancer	0.00E+00	7.94E-10	0.00E+00	0.00E+00	0.00E+00	5.78E-10	2.36E-03	0.00E+00	2.16E-10	0.00E+00	0.00E+00	1.06E-08	0.00E+00	0.00E+00	2.36E-03
610	ALL	634400	4174225	NonCancer	0.00E+00	7.75E-10	0.00E+00	0.00E+00	0.00E+00	5.65E-10	2.21E-03	0.00E+00	2.11E-10	0.00E+00	0.00E+00	1.03E-08	0.00E+00	0.00E+00	2.21E-03
611	ALL	634200	4174325	NonCancer	0.00E+00	9.42E-10	0.00E+00	0.00E+00	0.00E+00	6.86E-10	2.48E-03	0.00E+00	2.56E-10	0.00E+00	0.00E+00	1.25E-08	0.00E+00	0.00E+00	2.48E-03
612	ALL	634250	4174325	NonCancer	0.00E+00	9.25E-10	0.00E+00	0.00E+00	0.00E+00	6.73E-10	2.44E-03	0.00E+00	2.51E-10	0.00E+00	0.00E+00	1.23E-08	0.00E+00	0.00E+00	2.44E-03
613	ALL	634200	4174375	NonCancer	0.00E+00	9.93E-10	0.00E+00	0.00E+00	0.00E+00	7.23E-10	2.59E-03	0.00E+00	2.70E-10	0.00E+00	0.00E+00	1.32E-08	0.00E+00	0.00E+00	2.59E-03
614	ALL	634250	4174425	NonCancer	0.00E+00	1.06E-09	0.00E+00	0.00E+00	0.00E+00	7.70E-10	2.33E-03	0.00E+00	2.88E-10	0.00E+00	0.00E+00	1.41E-08	0.00E+00	0.00E+00	2.33E-03
615	ALL	634000	4174475	NonCancer	0.00E+00	1.22E-09	0.00E+00	0.00E+00	0.00E+00	8.87E-10	2.92E-03	0.00E+00	3.31E-10	0.00E+00	0.00E+00	1.62E-08	0.00E+00	0.00E+00	2.92E-03
616	ALL	634250	4174525	NonCancer	0.00E+00	1.16E-09	0.00E+00	0.00E+00	0.00E+00	8.47E-10	2.27E-03	0.00E+00	3.16E-10	0.00E+00	0.00E+00	1.55E-08	0.00E+00	0.00E+00	2.27E-03
617	ALL	634100	4174575	NonCancer	0.00E+00	1.33E-09	0.00E+00	0.00E+00	0.00E+00	9.65E-10	2.88E-03	0.00E+00	3.61E-10	0.00E+00	0.00E+00	1.76E-08	0.00E+00	0.00E+00	2.88E-03
618	ALL	634150	4174575	NonCancer	0.00E+00	1.32E-09	0.00E+00	0.00E+00	0.00E+00	9.60E-10	2.54E-03	0.00E+00	3.59E-10	0.00E+00	0.00E+00	1.75E-08	0.00E+00	0.00E+00	2.54E-03
619	ALL	634200	4174575	NonCancer	0.00E+00	1.27E-09	0.00E+00	0.00E+00	0.00E+00	9.24E-10	2.44E-03	0.00E+00	3.45E-10	0.00E+00	0.00E+00	1.69E-08	0.00E+00	0.00E+00	2.44E-03
620	ALL	634250	4174575	NonCancer	0.00E+00	1.22E-09	0.00E+00	0.00E+00	0.00E+00	8.90E-10	2.35E-03	0.00E+00	3.32E-10	0.00E+00	0.00E+00	1.62E-08	0.00E+00	0.00E+00	2.35E-03
621	ALL	634250	4174625	NonCancer	0.00E+00	1.29E-09	0.00E+00	0.00E+00	0.00E+00	9.40E-10	2.29E-03	0.00E+00	3.51E-10	0.00E+00	0.00E+00	1.72E-08	0.00E+00	0.00E+00	2.29E-03
622	ALL	634250	4174675	NonCancer	0.00E+00	1.37E-09	0.00E+00	0.00E+00	0.00E+00	9.97E-10	2.18E-03	0.00E+00	3.72E-10	0.00E+00	0.00E+00	1.82E-08	0.00E+00	0.00E+00	2.18E-03
623	ALL	634250	4174825	NonCancer	0.00E+00	1.69E-09	0.00E+00	0.00E+00	0.00E+00	1.23E-09	2.39E-03	0.00E+00	4.59E-10	0.00E+00	0.00E+00	2.24E-08	0.00E+00	0.00E+00	2.39E-03
624	ALL	634250	4174875	NonCancer	0.00E+00	1.83E-09	0.00E+00	0.00E+00	0.00E+00	1.33E-09	2.61E-03	0.00E+00	4.98E-10	0.00E+00	0.00E+00	2.44E-08	0.00E+00	0.00E+00	2.61E-03
625	ALL	634200	4174925	NonCancer	0.00E+00	2.07E-09	0.00E+00	0.00E+00	0.00E+00	1.51E-09	2.84E-03	0.00E+00	5.63E-10	0.00E+00	0.00E+00	2.75E-08	0.00E+00	0.00E+00	2.84E-03
626	ALL	634250	4174925	NonCancer	0.00E+00	1.99E-09	0.00E+00	0.00E+00	0.00E+00	1.45E-09	2.87E-03	0.00E+00	5.42E-10	0.00E+00	0.00E+00	2.65E-08	0.00E+00	0.00E+00	2.87E-03
627	ALL	631950	4173950	NonCancer	0.00E+00	1.52E-10	0.00E+00	0.00E+00	0.00E+00	1.11E-10	1.20E-03	0.00E+00	4.14E-11	0.00E+00	0.00E+00	2.03E-09	0.00E+00	0.00E+00	1.20E-03
628	ALL	631550	4174000	NonCancer	0.00E+00	1.33E-10	0.00E+00	0.00E+00	0.00E+00	9.67E-11	1.07E-03	0.00E+00	3.61E-11	0.00E+00	0.00E+00	1.77E-09	0.00E+00	0.00E+00	1.07E-03
629	ALL	631550	4174050	NonCancer	0.00E+00	1.42E-10	0.00E+00	0.00E+00	0.00E+00	1.04E-10	1.16E-03	0.00E+00	3.87E-11	0.00E+00	0.00E+00	1.89E-09	0.00E+00	0.00E+00	1.16E-03
630	ALL	631750	4174250	NonCancer	0.00E+00	1.88E-10	0.00E+00	0.00E+00	0.00E+00	1.37E-10	1.47E-03	0.00E+00	5.12E-11	0.00E+00	0.00E+00	2.50E-09	0.00E+00	0.00E+00	1.47E-03
631	ALL	632300	4174300	NonCancer	0.00E+00	3.65E-10	0.00E+00	0.00E+00	0.00E+00	2.66E-10	2.28E-03	0.00E+00	9.94E-11	0.00E+00	0.00E+00	4.86E-09	0.00E+00	0.00E+00	2.28E-03
632	ALL	632350	4174300	NonCancer	0.00E+00	3.77E-10	0.00E+00	0.00E+00	0.00E+00	2.74E-10	2.35E-03	0.00E+00	1.02E-10	0.00E+00	0.00E+00	5.01E-09	0.00E+00	0.00E+00	2.35E-03
633	ALL	632300	4174350	NonCancer	0.00E+00	3.92E-10	0.00E+00	0.00E+00	0.00E+00	2.85E-10	2.46E-03	0.00E+00	1.07E-10	0.00E+00	0.00E+00	5.21E-09	0.00E+00	0.00E+00	2.46E-03
634	ALL	632350	4174350	NonCancer	0.00E+00	4.05E-10	0.00E+00	0.00E+00	0.00E+00	2.95E-10	2.39E-03	0.00E+00	1.10E-10	0.00E+00	0.00E+00	5.39E-09	0.00E+00	0.00E+00	2.39E-03
635	ALL	631600	4174400	NonCancer	0.00E+00	2.12E-10	0.00E+00	0.00E+00	0.00E+00	1.54E-10	1.76E-03	0.00E+00	5.76E-11	0.00E+00	0.00E+00	2.82E-09	0.00E+00	0.00E+00	1.76E-03
636	ALL	631650	4174400	NonCancer	0.00E+00	2.36E-10	0.00E+00	0.00E+00	0.00E+00	1.72E-10	1.88E-03	0.00E+00	6.41E-11	0.00E+00	0.00E+00	3.13E-09	0.00E+00	0.00E+00	1.88E-03
637	ALL	632000	4174400	NonCancer	0.00E+00	3.39E-10	0.00E+00	0.00E+00	0.00E+00	2.47E-10	2.38E-03	0.00E+00	9.22E-11	0.00E+00	0.00E+00	4.51E-09	0.00E+00	0.00E+00	2.38E-03
638	ALL	632000	4174450	NonCancer	0.00E+00	3.47E-10	0.00E+00	0.00E+00	0.00E+00	2.53E-10	2.29E-03	0.00E+00	9.44E-11	0.00E+00	0.00E+00	4.62E-09	0.00E+00	0.00E+00	2.29E-03
639	ALL	631950	4174500	NonCancer	0.00E+00	3.41E-10	0.00E+00	0.00E+00	0.00E+00	2.48E-10	2.80E-03	0.00E+00	9.27E-11	0.00E+00	0.00E+00	4.53E-09	0.00E+00	0.00E+00	2.80E-03
640	ALL	632150	4174950	NonCancer	0.00E+00	8.02E-10	0.00E+00	0.00E+00	0.00E+00	5.84E-10	4.05E-03	0.00E+00	2.18E-10	0.00E+00	0.00E+00	1.07E-08	0.00E+00	0.00E+00	4.05E-03
641	ALL	632200	4174950	NonCancer	0.00E+00	8.61E-10	0.00E+00	0.00E+00	0.00E+00	6.27E-10	3.75E-03	0.00E+00	2.34E-10	0.00E+00	0.00E+00	1.14E-08	0.00E+00	0.00E+00	3.75E-03

*HARP - HRACalc v19044 1/12/2021 10:09:22 AM - Cancer Risk - Input File: C:\Users\swang\Desktop\SchulteOpMit\hra\70yrCancerMitHRAInput.hra

REC	GRP	NETID	X	Y	RISK_SUM	SCENARIO	INH_RISK	SOIL_RISK	DERMAL_R	MMILK_RIS	WATER_RI	FISH_RISK	CROP_RISK	BEEF_RISK	DAIRY_RISI	PIG_RISK	CHICKEN_R	EGG_RISK
1	ALL		631050	4178050	4.76E-07	70YrCancer	4.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2	ALL		631150	4178250	5.06E-07	70YrCancer	5.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3	ALL		631250	4178250	4.94E-07	70YrCancer	4.94E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4	ALL		631350	4178250	5.05E-07	70YrCancer	5.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5	ALL		631450	4178250	5.11E-07	70YrCancer	5.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6	ALL		631550	4178250	5.21E-07	70YrCancer	5.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7	ALL		631650	4178250	5.94E-07	70YrCancer	5.94E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8	ALL		631750	4178250	6.21E-07	70YrCancer	6.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9	ALL		631150	4178350	4.82E-07	70YrCancer	4.82E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
10	ALL		631450	4178350	4.91E-07	70YrCancer	4.91E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
11	ALL		631550	4178350	5.29E-07	70YrCancer	5.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
12	ALL		631650	4178350	5.88E-07	70YrCancer	5.88E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
13	ALL		631750	4178350	5.93E-07	70YrCancer	5.93E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
14	ALL		630650	4178450	3.84E-07	70YrCancer	3.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
15	ALL		630850	4178450	4.23E-07	70YrCancer	4.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
16	ALL		631050	4178450	4.73E-07	70YrCancer	4.73E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
17	ALL		631150	4178450	4.49E-07	70YrCancer	4.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
18	ALL		631250	4178450	4.55E-07	70YrCancer	4.55E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
19	ALL		631550	4178450	5.42E-07	70YrCancer	5.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
20	ALL		631650	4178450	5.61E-07	70YrCancer	5.61E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
21	ALL		631750	4178450	5.66E-07	70YrCancer	5.66E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
22	ALL		631850	4178450	5.79E-07	70YrCancer	5.79E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
23	ALL		631950	4178450	5.88E-07	70YrCancer	5.88E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
24	ALL		632050	4178450	5.83E-07	70YrCancer	5.83E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
25	ALL		632150	4178450	6.01E-07	70YrCancer	6.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
26	ALL		630550	4178550	3.65E-07	70YrCancer	3.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
27	ALL		630650	4178550	3.71E-07	70YrCancer	3.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
28	ALL		630750	4178550	3.99E-07	70YrCancer	3.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
29	ALL		630950	4178550	4.61E-07	70YrCancer	4.61E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
30	ALL		631050	4178550	4.30E-07	70YrCancer	4.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
31	ALL		631250	4178550	4.36E-07	70YrCancer	4.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
32	ALL		631350	4178550	4.44E-07	70YrCancer	4.44E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
33	ALL		631450	4178550	4.90E-07	70YrCancer	4.90E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
34	ALL		631550	4178550	5.32E-07	70YrCancer	5.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
35	ALL		631650	4178550	5.34E-07	70YrCancer	5.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
36	ALL		631750	4178550	5.47E-07	70YrCancer	5.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
37	ALL		631850	4178550	5.41E-07	70YrCancer	5.41E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
38	ALL		631950	4178550	5.59E-07	70YrCancer	5.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
39	ALL		632050	4178550	5.41E-07	70YrCancer	5.41E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
40	ALL		632150	4178550	5.72E-07	70YrCancer	5.72E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
41	ALL		630450	4178650	3.48E-07	70YrCancer	3.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
42	ALL		630550	4178650	3.48E-07	70YrCancer	3.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
43	ALL		630650	4178650	3.76E-07	70YrCancer	3.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
44	ALL		630750	4178650	4.22E-07	70YrCancer	4.22E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
45	ALL		630850	4178650	4.48E-07	70YrCancer	4.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
46	ALL		630950	4178650	4.29E-07	70YrCancer	4.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
47	ALL		631050	4178650	4.07E-07	70YrCancer	4.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

48	ALL	631150	4178650	4.07E-07	70YrCancer	4.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
49	ALL	631250	4178650	4.22E-07	70YrCancer	4.22E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
50	ALL	631350	4178650	4.35E-07	70YrCancer	4.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
51	ALL	631450	4178650	4.97E-07	70YrCancer	4.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
52	ALL	631550	4178650	5.09E-07	70YrCancer	5.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
53	ALL	631650	4178650	5.14E-07	70YrCancer	5.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
54	ALL	631750	4178650	5.25E-07	70YrCancer	5.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
55	ALL	631850	4178650	5.32E-07	70YrCancer	5.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
56	ALL	631950	4178650	5.34E-07	70YrCancer	5.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
57	ALL	632050	4178650	5.36E-07	70YrCancer	5.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
58	ALL	632150	4178650	5.37E-07	70YrCancer	5.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
59	ALL	630350	4178750	3.32E-07	70YrCancer	3.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
60	ALL	630450	4178750	3.26E-07	70YrCancer	3.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
61	ALL	630550	4178750	3.56E-07	70YrCancer	3.56E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
62	ALL	630650	4178750	4.00E-07	70YrCancer	4.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
63	ALL	630750	4178750	4.34E-07	70YrCancer	4.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
64	ALL	630850	4178750	4.25E-07	70YrCancer	4.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
65	ALL	630950	4178750	3.87E-07	70YrCancer	3.87E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
66	ALL	631050	4178750	3.91E-07	70YrCancer	3.91E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
67	ALL	631150	4178750	4.00E-07	70YrCancer	4.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
68	ALL	631250	4178750	4.04E-07	70YrCancer	4.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
69	ALL	631350	4178750	4.54E-07	70YrCancer	4.54E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
70	ALL	631450	4178750	4.84E-07	70YrCancer	4.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
71	ALL	631550	4178750	4.84E-07	70YrCancer	4.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
72	ALL	631650	4178750	4.98E-07	70YrCancer	4.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
73	ALL	631750	4178750	4.96E-07	70YrCancer	4.96E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL	631850	4178750	5.08E-07	70YrCancer	5.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
75	ALL	631950	4178750	4.98E-07	70YrCancer	4.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
76	ALL	632050	4178750	5.21E-07	70YrCancer	5.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
77	ALL	632150	4178750	5.24E-07	70YrCancer	5.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
78	ALL	630250	4178850	3.19E-07	70YrCancer	3.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
79	ALL	630350	4178850	3.09E-07	70YrCancer	3.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
80	ALL	630450	4178850	3.36E-07	70YrCancer	3.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
81	ALL	630550	4178850	3.80E-07	70YrCancer	3.80E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
82	ALL	630650	4178850	4.18E-07	70YrCancer	4.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
83	ALL	630750	4178850	4.20E-07	70YrCancer	4.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
84	ALL	630850	4178850	3.80E-07	70YrCancer	3.80E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
85	ALL	630950	4178850	3.74E-07	70YrCancer	3.74E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
86	ALL	631050	4178850	3.76E-07	70YrCancer	3.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
87	ALL	631150	4178850	3.82E-07	70YrCancer	3.82E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
88	ALL	631250	4178850	4.08E-07	70YrCancer	4.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
89	ALL	631350	4178850	4.56E-07	70YrCancer	4.56E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
90	ALL	631450	4178850	4.65E-07	70YrCancer	4.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
91	ALL	631550	4178850	4.68E-07	70YrCancer	4.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
92	ALL	631650	4178850	4.79E-07	70YrCancer	4.79E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
93	ALL	631750	4178850	4.82E-07	70YrCancer	4.82E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
94	ALL	631850	4178850	4.89E-07	70YrCancer	4.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
95	ALL	631950	4178850	4.76E-07	70YrCancer	4.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
96	ALL	632050	4178850	4.98E-07	70YrCancer	4.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

97	ALL	632150	4178850	5.04E-07	70YrCancer	5.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
98	ALL	630250	4178950	3.03E-07	70YrCancer	3.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
99	ALL	630350	4178950	3.18E-07	70YrCancer	3.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
100	ALL	630450	4178950	3.60E-07	70YrCancer	3.60E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
101	ALL	630550	4178950	4.04E-07	70YrCancer	4.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
102	ALL	630650	4178950	4.11E-07	70YrCancer	4.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
103	ALL	630750	4178950	3.83E-07	70YrCancer	3.83E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
104	ALL	630850	4178950	3.54E-07	70YrCancer	3.54E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
105	ALL	630950	4178950	3.53E-07	70YrCancer	3.53E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
106	ALL	631050	4178950	3.67E-07	70YrCancer	3.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
107	ALL	631150	4178950	3.67E-07	70YrCancer	3.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
108	ALL	631250	4178950	4.21E-07	70YrCancer	4.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
109	ALL	631350	4178950	4.42E-07	70YrCancer	4.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
110	ALL	631450	4178950	4.42E-07	70YrCancer	4.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
111	ALL	631550	4178950	4.54E-07	70YrCancer	4.54E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
112	ALL	631650	4178950	4.56E-07	70YrCancer	4.56E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
113	ALL	631750	4178950	4.66E-07	70YrCancer	4.66E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
114	ALL	631850	4178950	4.62E-07	70YrCancer	4.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
115	ALL	631950	4178950	4.71E-07	70YrCancer	4.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
116	ALL	632050	4178950	4.68E-07	70YrCancer	4.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
117	ALL	632150	4178950	4.83E-07	70YrCancer	4.83E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
118	ALL	629950	4179050	2.94E-07	70YrCancer	2.94E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
119	ALL	630250	4179050	3.01E-07	70YrCancer	3.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
120	ALL	630350	4179050	3.41E-07	70YrCancer	3.41E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
121	ALL	630450	4179050	3.87E-07	70YrCancer	3.87E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
122	ALL	630550	4179050	4.04E-07	70YrCancer	4.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
123	ALL	630650	4179050	3.82E-07	70YrCancer	3.82E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
124	ALL	630750	4179050	3.37E-07	70YrCancer	3.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
125	ALL	630850	4179050	3.41E-07	70YrCancer	3.41E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
126	ALL	630950	4179050	3.49E-07	70YrCancer	3.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
127	ALL	631050	4179050	3.52E-07	70YrCancer	3.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
128	ALL	631150	4179050	3.83E-07	70YrCancer	3.83E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
129	ALL	631250	4179050	4.20E-07	70YrCancer	4.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
130	ALL	631350	4179050	4.26E-07	70YrCancer	4.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
131	ALL	631450	4179050	4.29E-07	70YrCancer	4.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
132	ALL	631550	4179050	4.38E-07	70YrCancer	4.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
133	ALL	631650	4179050	4.38E-07	70YrCancer	4.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
134	ALL	631750	4179050	4.47E-07	70YrCancer	4.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
135	ALL	631850	4179050	4.29E-07	70YrCancer	4.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
136	ALL	631950	4179050	4.58E-07	70YrCancer	4.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
137	ALL	632050	4179050	4.59E-07	70YrCancer	4.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
138	ALL	632150	4179050	4.65E-07	70YrCancer	4.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
139	ALL	629850	4179150	2.84E-07	70YrCancer	2.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
140	ALL	629950	4179150	2.95E-07	70YrCancer	2.95E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
141	ALL	630150	4179150	2.85E-07	70YrCancer	2.85E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
142	ALL	630250	4179150	3.22E-07	70YrCancer	3.22E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
143	ALL	630350	4179150	3.70E-07	70YrCancer	3.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
144	ALL	630450	4179150	3.93E-07	70YrCancer	3.93E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
145	ALL	630550	4179150	3.82E-07	70YrCancer	3.82E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

146	ALL	630650	4179150	3.39E-07	70YrCancer	3.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
147	ALL	630750	4179150	3.27E-07	70YrCancer	3.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
148	ALL	630850	4179150	3.29E-07	70YrCancer	3.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
149	ALL	630950	4179150	3.35E-07	70YrCancer	3.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
150	ALL	631050	4179150	3.43E-07	70YrCancer	3.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
151	ALL	631150	4179150	3.92E-07	70YrCancer	3.92E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
152	ALL	631250	4179150	4.05E-07	70YrCancer	4.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
153	ALL	631350	4179150	4.05E-07	70YrCancer	4.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
154	ALL	631450	4179150	4.18E-07	70YrCancer	4.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
155	ALL	631550	4179150	4.19E-07	70YrCancer	4.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
156	ALL	631650	4179150	4.28E-07	70YrCancer	4.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
157	ALL	631750	4179150	4.30E-07	70YrCancer	4.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
158	ALL	631850	4179150	4.23E-07	70YrCancer	4.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
159	ALL	631950	4179150	4.36E-07	70YrCancer	4.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
160	ALL	632050	4179150	4.44E-07	70YrCancer	4.44E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
161	ALL	632150	4179150	4.55E-07	70YrCancer	4.55E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
162	ALL	630850	4179250	3.22E-07	70YrCancer	3.22E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
163	ALL	630950	4179250	3.23E-07	70YrCancer	3.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
164	ALL	631050	4177625	6.01E-07	70YrCancer	6.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
165	ALL	631100	4177725	5.87E-07	70YrCancer	5.87E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
166	ALL	631100	4177825	5.64E-07	70YrCancer	5.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
167	ALL	631350	4178225	5.08E-07	70YrCancer	5.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
168	ALL	631400	4178225	5.14E-07	70YrCancer	5.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
169	ALL	631450	4178225	5.12E-07	70YrCancer	5.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
170	ALL	631500	4178225	5.26E-07	70YrCancer	5.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
171	ALL	631100	4178275	4.96E-07	70YrCancer	4.96E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
172	ALL	631150	4178275	5.04E-07	70YrCancer	5.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
173	ALL	631200	4178275	4.96E-07	70YrCancer	4.96E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
174	ALL	631250	4178275	4.88E-07	70YrCancer	4.88E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
175	ALL	631300	4178275	4.94E-07	70YrCancer	4.94E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
176	ALL	631350	4178275	5.00E-07	70YrCancer	5.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
177	ALL	631400	4178275	4.97E-07	70YrCancer	4.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
178	ALL	631450	4178275	5.09E-07	70YrCancer	5.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
179	ALL	631500	4178275	5.12E-07	70YrCancer	5.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
180	ALL	630950	4178325	4.52E-07	70YrCancer	4.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
181	ALL	631100	4178325	4.96E-07	70YrCancer	4.96E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
182	ALL	631150	4178325	4.91E-07	70YrCancer	4.91E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
183	ALL	631200	4178325	4.74E-07	70YrCancer	4.74E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
184	ALL	631250	4178325	4.81E-07	70YrCancer	4.81E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
185	ALL	631300	4178325	4.85E-07	70YrCancer	4.85E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
186	ALL	631400	4178325	4.90E-07	70YrCancer	4.90E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
187	ALL	631450	4178325	4.99E-07	70YrCancer	4.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
188	ALL	631500	4178325	5.00E-07	70YrCancer	5.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
189	ALL	630950	4178375	4.48E-07	70YrCancer	4.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
190	ALL	631200	4178375	4.66E-07	70YrCancer	4.66E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
191	ALL	631300	4178375	4.74E-07	70YrCancer	4.74E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
192	ALL	631400	4178375	4.84E-07	70YrCancer	4.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
193	ALL	631450	4178375	4.84E-07	70YrCancer	4.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
194	ALL	631500	4178375	4.87E-07	70YrCancer	4.87E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

195	ALL	630800	4178425	4.13E-07	70YrCancer	4.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
196	ALL	630850	4178425	4.25E-07	70YrCancer	4.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
197	ALL	631050	4178425	4.80E-07	70YrCancer	4.80E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
198	ALL	631200	4178425	4.56E-07	70YrCancer	4.56E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
199	ALL	631250	4178425	4.61E-07	70YrCancer	4.61E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
200	ALL	631300	4178425	4.57E-07	70YrCancer	4.57E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
201	ALL	630650	4178475	3.72E-07	70YrCancer	3.72E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
202	ALL	630800	4178475	4.13E-07	70YrCancer	4.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
203	ALL	630850	4178475	4.21E-07	70YrCancer	4.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
204	ALL	631050	4178475	4.65E-07	70YrCancer	4.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
205	ALL	631200	4178475	4.48E-07	70YrCancer	4.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
206	ALL	631250	4178475	4.48E-07	70YrCancer	4.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
207	ALL	631300	4178475	4.53E-07	70YrCancer	4.53E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
208	ALL	631450	4178475	4.71E-07	70YrCancer	4.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
209	ALL	631500	4178475	5.13E-07	70YrCancer	5.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
210	ALL	630550	4178525	3.74E-07	70YrCancer	3.74E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
211	ALL	630600	4178525	3.63E-07	70YrCancer	3.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
212	ALL	630650	4178525	3.67E-07	70YrCancer	3.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
213	ALL	630700	4178525	3.87E-07	70YrCancer	3.87E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
214	ALL	630750	4178525	4.01E-07	70YrCancer	4.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
215	ALL	630950	4178525	4.65E-07	70YrCancer	4.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
216	ALL	631050	4178525	4.43E-07	70YrCancer	4.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
217	ALL	631200	4178525	4.38E-07	70YrCancer	4.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
218	ALL	631250	4178525	4.36E-07	70YrCancer	4.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
219	ALL	631300	4178525	4.48E-07	70YrCancer	4.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
220	ALL	631350	4178525	4.47E-07	70YrCancer	4.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
221	ALL	631400	4178525	4.50E-07	70YrCancer	4.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
222	ALL	631450	4178525	4.85E-07	70YrCancer	4.85E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
223	ALL	631500	4178525	5.18E-07	70YrCancer	5.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
224	ALL	630500	4178575	3.65E-07	70YrCancer	3.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
225	ALL	630550	4178575	3.55E-07	70YrCancer	3.55E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
226	ALL	630600	4178575	3.55E-07	70YrCancer	3.55E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
227	ALL	630650	4178575	3.74E-07	70YrCancer	3.74E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
228	ALL	630700	4178575	3.88E-07	70YrCancer	3.88E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
229	ALL	630750	4178575	3.96E-07	70YrCancer	3.96E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
230	ALL	630800	4178575	4.26E-07	70YrCancer	4.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
231	ALL	630850	4178575	4.47E-07	70YrCancer	4.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
232	ALL	631000	4178575	4.42E-07	70YrCancer	4.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
233	ALL	631050	4178575	4.20E-07	70YrCancer	4.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
234	ALL	631200	4178575	4.23E-07	70YrCancer	4.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
235	ALL	631250	4178575	4.34E-07	70YrCancer	4.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
236	ALL	631300	4178575	4.38E-07	70YrCancer	4.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
237	ALL	631350	4178575	4.39E-07	70YrCancer	4.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
238	ALL	631400	4178575	4.56E-07	70YrCancer	4.56E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
239	ALL	631450	4178575	4.93E-07	70YrCancer	4.93E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
240	ALL	631500	4178575	5.18E-07	70YrCancer	5.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
241	ALL	630500	4178625	3.46E-07	70YrCancer	3.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
242	ALL	630550	4178625	3.44E-07	70YrCancer	3.44E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
243	ALL	630600	4178625	3.63E-07	70YrCancer	3.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

244	ALL	630650	4178625	3.77E-07	70YrCancer	3.77E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
245	ALL	630700	4178625	3.85E-07	70YrCancer	3.85E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
246	ALL	630750	4178625	4.15E-07	70YrCancer	4.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
247	ALL	630800	4178625	4.38E-07	70YrCancer	4.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
248	ALL	630850	4178625	4.51E-07	70YrCancer	4.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
249	ALL	631000	4178625	4.17E-07	70YrCancer	4.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
250	ALL	631050	4178625	4.11E-07	70YrCancer	4.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
251	ALL	631100	4178625	4.16E-07	70YrCancer	4.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
252	ALL	631150	4178625	4.15E-07	70YrCancer	4.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
253	ALL	631200	4178625	4.20E-07	70YrCancer	4.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
254	ALL	631250	4178625	4.27E-07	70YrCancer	4.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
255	ALL	631300	4178625	4.27E-07	70YrCancer	4.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
256	ALL	631350	4178625	4.28E-07	70YrCancer	4.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
257	ALL	631400	4178625	4.67E-07	70YrCancer	4.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
258	ALL	631450	4178625	4.97E-07	70YrCancer	4.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
259	ALL	631500	4178625	5.12E-07	70YrCancer	5.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
260	ALL	631100	4175700	1.87E-06	70YrCancer	1.87E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
261	ALL	631150	4175700	1.92E-06	70YrCancer	1.92E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
262	ALL	631200	4175700	1.97E-06	70YrCancer	1.97E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
263	ALL	631250	4175700	2.02E-06	70YrCancer	2.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
264	ALL	631100	4175750	1.84E-06	70YrCancer	1.84E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
265	ALL	631150	4175750	1.90E-06	70YrCancer	1.90E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
266	ALL	629400	4179050	2.63E-07	70YrCancer	2.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
267	ALL	629450	4179050	2.68E-07	70YrCancer	2.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
268	ALL	629500	4179050	2.70E-07	70YrCancer	2.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
269	ALL	629400	4179100	2.62E-07	70YrCancer	2.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
270	ALL	629450	4179100	2.64E-07	70YrCancer	2.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
271	ALL	629400	4179150	2.58E-07	70YrCancer	2.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
272	ALL	629500	4179150	2.57E-07	70YrCancer	2.57E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
273	ALL	629550	4179150	2.64E-07	70YrCancer	2.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
274	ALL	629600	4179150	2.69E-07	70YrCancer	2.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
275	ALL	629650	4179150	2.70E-07	70YrCancer	2.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
276	ALL	629700	4179150	2.73E-07	70YrCancer	2.73E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
277	ALL	629800	4179200	2.81E-07	70YrCancer	2.81E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
278	ALL	629400	4179300	2.48E-07	70YrCancer	2.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
279	ALL	629400	4179350	2.46E-07	70YrCancer	2.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
280	ALL	634375	4175350	1.51E-06	70YrCancer	1.51E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
281	ALL	634425	4175350	1.46E-06	70YrCancer	1.46E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
282	ALL	635425	4175350	1.00E-06	70YrCancer	1.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
283	ALL	635425	4175400	8.77E-07	70YrCancer	8.77E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
284	ALL	635475	4175400	8.36E-07	70YrCancer	8.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
285	ALL	634325	4175450	1.77E-06	70YrCancer	1.77E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
286	ALL	634475	4175450	1.72E-06	70YrCancer	1.72E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
287	ALL	634525	4175450	1.68E-06	70YrCancer	1.68E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
288	ALL	634525	4175500	1.62E-06	70YrCancer	1.62E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
289	ALL	634325	4175550	1.82E-06	70YrCancer	1.82E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
290	ALL	634525	4175550	1.44E-06	70YrCancer	1.44E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
291	ALL	634575	4175550	1.37E-06	70YrCancer	1.37E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
292	ALL	634775	4175550	1.17E-06	70YrCancer	1.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

293	ALL	634825	4175550	1.12E-06	70YrCancer	1.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
294	ALL	634625	4175600	1.31E-06	70YrCancer	1.31E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
295	ALL	634675	4175600	1.26E-06	70YrCancer	1.26E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
296	ALL	634725	4175600	1.22E-06	70YrCancer	1.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
297	ALL	634775	4175600	1.17E-06	70YrCancer	1.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
298	ALL	634825	4175600	1.13E-06	70YrCancer	1.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
299	ALL	634875	4175600	1.09E-06	70YrCancer	1.09E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
300	ALL	634925	4175600	1.05E-06	70YrCancer	1.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
301	ALL	635375	4175600	7.87E-07	70YrCancer	7.87E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
302	ALL	634275	4175650	1.86E-06	70YrCancer	1.86E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
303	ALL	634325	4175650	1.77E-06	70YrCancer	1.77E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
304	ALL	634575	4175650	1.40E-06	70YrCancer	1.40E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
305	ALL	634625	4175650	1.34E-06	70YrCancer	1.34E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
306	ALL	634675	4175650	1.28E-06	70YrCancer	1.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
307	ALL	634725	4175650	1.23E-06	70YrCancer	1.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
308	ALL	634775	4175650	1.18E-06	70YrCancer	1.18E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
309	ALL	634825	4175650	1.14E-06	70YrCancer	1.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
310	ALL	634875	4175650	1.10E-06	70YrCancer	1.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
311	ALL	634925	4175650	1.06E-06	70YrCancer	1.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
312	ALL	634975	4175650	1.02E-06	70YrCancer	1.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
313	ALL	635025	4175650	9.84E-07	70YrCancer	9.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
314	ALL	635325	4175650	8.04E-07	70YrCancer	8.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
315	ALL	635375	4175650	7.79E-07	70YrCancer	7.79E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
316	ALL	634475	4175700	1.54E-06	70YrCancer	1.54E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
317	ALL	634525	4175700	1.47E-06	70YrCancer	1.47E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
318	ALL	634575	4175700	1.40E-06	70YrCancer	1.40E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
319	ALL	634625	4175700	1.33E-06	70YrCancer	1.33E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
320	ALL	634675	4175700	1.27E-06	70YrCancer	1.27E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
321	ALL	634725	4175700	1.22E-06	70YrCancer	1.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
322	ALL	634775	4175700	1.18E-06	70YrCancer	1.18E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
323	ALL	634825	4175700	1.13E-06	70YrCancer	1.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
324	ALL	634875	4175700	1.10E-06	70YrCancer	1.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
325	ALL	634925	4175700	1.06E-06	70YrCancer	1.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
326	ALL	634975	4175700	1.02E-06	70YrCancer	1.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
327	ALL	635025	4175700	9.86E-07	70YrCancer	9.86E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
328	ALL	635075	4175700	9.55E-07	70YrCancer	9.55E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
329	ALL	635125	4175700	9.25E-07	70YrCancer	9.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
330	ALL	634425	4175750	1.63E-06	70YrCancer	1.63E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
331	ALL	634575	4175750	1.41E-06	70YrCancer	1.41E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
332	ALL	634625	4175750	1.34E-06	70YrCancer	1.34E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
333	ALL	634675	4175750	1.29E-06	70YrCancer	1.29E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
334	ALL	634725	4175750	1.23E-06	70YrCancer	1.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
335	ALL	634775	4175750	1.18E-06	70YrCancer	1.18E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
336	ALL	634825	4175750	1.13E-06	70YrCancer	1.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
337	ALL	634875	4175750	1.09E-06	70YrCancer	1.09E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
338	ALL	634925	4175750	1.05E-06	70YrCancer	1.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
339	ALL	634975	4175750	1.01E-06	70YrCancer	1.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
340	ALL	635025	4175750	9.77E-07	70YrCancer	9.77E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
341	ALL	635075	4175750	9.46E-07	70YrCancer	9.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

342	ALL	635125	4175750	9.16E-07	70YrCancer	9.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
343	ALL	635175	4175750	8.86E-07	70YrCancer	8.86E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
344	ALL	635225	4175750	8.61E-07	70YrCancer	8.61E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
345	ALL	634325	4175800	1.81E-06	70YrCancer	1.81E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
346	ALL	634375	4175800	1.72E-06	70YrCancer	1.72E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
347	ALL	634425	4175800	1.63E-06	70YrCancer	1.63E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
348	ALL	634475	4175800	1.55E-06	70YrCancer	1.55E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
349	ALL	634525	4175800	1.48E-06	70YrCancer	1.48E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
350	ALL	634575	4175800	1.41E-06	70YrCancer	1.41E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
351	ALL	634625	4175800	1.35E-06	70YrCancer	1.35E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
352	ALL	634675	4175800	1.29E-06	70YrCancer	1.29E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
353	ALL	634725	4175800	1.24E-06	70YrCancer	1.24E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
354	ALL	634775	4175800	1.19E-06	70YrCancer	1.19E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
355	ALL	634825	4175800	1.15E-06	70YrCancer	1.15E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
356	ALL	634875	4175800	1.10E-06	70YrCancer	1.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
357	ALL	634925	4175800	1.06E-06	70YrCancer	1.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
358	ALL	634975	4175800	1.03E-06	70YrCancer	1.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
359	ALL	635025	4175800	9.90E-07	70YrCancer	9.90E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
360	ALL	635075	4175800	9.55E-07	70YrCancer	9.55E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
361	ALL	635125	4175800	9.24E-07	70YrCancer	9.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
362	ALL	635175	4175800	8.95E-07	70YrCancer	8.95E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
363	ALL	635225	4175800	8.67E-07	70YrCancer	8.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
364	ALL	635275	4175800	8.41E-07	70YrCancer	8.41E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
365	ALL	635325	4175800	8.14E-07	70YrCancer	8.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
366	ALL	634225	4175850	1.94E-06	70YrCancer	1.94E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
367	ALL	634325	4175850	1.75E-06	70YrCancer	1.75E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
368	ALL	634375	4175850	1.66E-06	70YrCancer	1.66E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
369	ALL	634425	4175850	1.58E-06	70YrCancer	1.58E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
370	ALL	634475	4175850	1.51E-06	70YrCancer	1.51E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
371	ALL	634525	4175850	1.44E-06	70YrCancer	1.44E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
372	ALL	634575	4175850	1.37E-06	70YrCancer	1.37E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
373	ALL	634625	4175850	1.32E-06	70YrCancer	1.32E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
374	ALL	634675	4175850	1.26E-06	70YrCancer	1.26E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
375	ALL	634725	4175850	1.21E-06	70YrCancer	1.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
376	ALL	634775	4175850	1.17E-06	70YrCancer	1.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
377	ALL	634825	4175850	1.13E-06	70YrCancer	1.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
378	ALL	634875	4175850	1.08E-06	70YrCancer	1.08E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
379	ALL	634925	4175850	1.04E-06	70YrCancer	1.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
380	ALL	634975	4175850	1.01E-06	70YrCancer	1.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
381	ALL	635025	4175850	9.71E-07	70YrCancer	9.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
382	ALL	635075	4175850	9.40E-07	70YrCancer	9.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
383	ALL	635125	4175850	9.10E-07	70YrCancer	9.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
384	ALL	635175	4175850	8.81E-07	70YrCancer	8.81E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
385	ALL	635225	4175850	8.53E-07	70YrCancer	8.53E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
386	ALL	635275	4175850	8.28E-07	70YrCancer	8.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
387	ALL	635325	4175850	8.03E-07	70YrCancer	8.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
388	ALL	635375	4175850	7.78E-07	70YrCancer	7.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
389	ALL	635425	4175850	7.55E-07	70YrCancer	7.55E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
390	ALL	634225	4175900	2.09E-06	70YrCancer	2.09E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

391	ALL	634325	4175900	1.87E-06	70YrCancer	1.87E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
392	ALL	634375	4175900	1.76E-06	70YrCancer	1.76E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
393	ALL	634425	4175900	1.66E-06	70YrCancer	1.66E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
394	ALL	634475	4175900	1.57E-06	70YrCancer	1.57E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
395	ALL	634525	4175900	1.49E-06	70YrCancer	1.49E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
396	ALL	634575	4175900	1.41E-06	70YrCancer	1.41E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
397	ALL	634625	4175900	1.34E-06	70YrCancer	1.34E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
398	ALL	634675	4175900	1.28E-06	70YrCancer	1.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
399	ALL	634725	4175900	1.22E-06	70YrCancer	1.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
400	ALL	634775	4175900	1.16E-06	70YrCancer	1.16E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
401	ALL	634875	4175900	1.06E-06	70YrCancer	1.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
402	ALL	634925	4175900	1.01E-06	70YrCancer	1.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
403	ALL	634975	4175900	9.73E-07	70YrCancer	9.73E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
404	ALL	635025	4175900	9.38E-07	70YrCancer	9.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
405	ALL	635075	4175900	9.05E-07	70YrCancer	9.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
406	ALL	635125	4175900	8.72E-07	70YrCancer	8.72E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
407	ALL	635175	4175900	8.43E-07	70YrCancer	8.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
408	ALL	635225	4175900	8.15E-07	70YrCancer	8.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
409	ALL	635275	4175900	7.88E-07	70YrCancer	7.88E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
410	ALL	635325	4175900	7.64E-07	70YrCancer	7.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
411	ALL	635375	4175900	7.38E-07	70YrCancer	7.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
412	ALL	635425	4175900	7.15E-07	70YrCancer	7.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
413	ALL	635475	4175900	6.94E-07	70YrCancer	6.94E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
414	ALL	635525	4175900	6.75E-07	70YrCancer	6.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
415	ALL	634325	4175950	1.85E-06	70YrCancer	1.85E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
416	ALL	634375	4175950	1.76E-06	70YrCancer	1.76E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
417	ALL	634425	4175950	1.68E-06	70YrCancer	1.68E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
418	ALL	634475	4175950	1.61E-06	70YrCancer	1.61E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
419	ALL	634525	4175950	1.54E-06	70YrCancer	1.54E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
420	ALL	634575	4175950	1.47E-06	70YrCancer	1.47E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
421	ALL	634625	4175950	1.42E-06	70YrCancer	1.42E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
422	ALL	634675	4175950	1.36E-06	70YrCancer	1.36E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
423	ALL	634875	4175950	1.15E-06	70YrCancer	1.15E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
424	ALL	634925	4175950	1.10E-06	70YrCancer	1.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
425	ALL	634975	4175950	1.06E-06	70YrCancer	1.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
426	ALL	635025	4175950	1.02E-06	70YrCancer	1.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
427	ALL	635075	4175950	9.79E-07	70YrCancer	9.79E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
428	ALL	635125	4175950	9.42E-07	70YrCancer	9.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
429	ALL	635175	4175950	9.08E-07	70YrCancer	9.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
430	ALL	635225	4175950	8.73E-07	70YrCancer	8.73E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
431	ALL	635275	4175950	8.43E-07	70YrCancer	8.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
432	ALL	635325	4175950	8.11E-07	70YrCancer	8.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
433	ALL	635375	4175950	7.82E-07	70YrCancer	7.82E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
434	ALL	635425	4175950	7.55E-07	70YrCancer	7.55E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
435	ALL	635475	4175950	7.28E-07	70YrCancer	7.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
436	ALL	635525	4175950	7.02E-07	70YrCancer	7.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
437	ALL	635575	4175950	6.79E-07	70YrCancer	6.79E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
438	ALL	634725	4176000	1.28E-06	70YrCancer	1.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
439	ALL	634925	4176000	1.10E-06	70YrCancer	1.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

440	ALL	634975	4176000	1.07E-06	70YrCancer	1.07E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
441	ALL	635025	4176000	1.03E-06	70YrCancer	1.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
442	ALL	635075	4176000	9.97E-07	70YrCancer	9.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
443	ALL	635125	4176000	9.66E-07	70YrCancer	9.66E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
444	ALL	635175	4176000	9.35E-07	70YrCancer	9.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
445	ALL	635225	4176000	9.05E-07	70YrCancer	9.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
446	ALL	635275	4176000	8.78E-07	70YrCancer	8.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
447	ALL	635325	4176000	8.49E-07	70YrCancer	8.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
448	ALL	635375	4176000	8.23E-07	70YrCancer	8.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
449	ALL	635425	4176000	7.96E-07	70YrCancer	7.96E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
450	ALL	635475	4176000	7.71E-07	70YrCancer	7.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
451	ALL	635525	4176000	7.48E-07	70YrCancer	7.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
452	ALL	635575	4176000	7.23E-07	70YrCancer	7.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
453	ALL	634825	4176050	1.18E-06	70YrCancer	1.18E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
454	ALL	634875	4176050	1.14E-06	70YrCancer	1.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
455	ALL	634925	4176050	1.09E-06	70YrCancer	1.09E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
456	ALL	634975	4176050	1.05E-06	70YrCancer	1.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
457	ALL	635025	4176050	1.00E-06	70YrCancer	1.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
458	ALL	635075	4176050	9.69E-07	70YrCancer	9.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
459	ALL	635125	4176050	9.42E-07	70YrCancer	9.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
460	ALL	635175	4176050	9.14E-07	70YrCancer	9.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
461	ALL	635225	4176050	8.87E-07	70YrCancer	8.87E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
462	ALL	635275	4176050	8.61E-07	70YrCancer	8.61E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
463	ALL	635325	4176050	8.34E-07	70YrCancer	8.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
464	ALL	635375	4176050	8.08E-07	70YrCancer	8.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
465	ALL	635425	4176050	7.88E-07	70YrCancer	7.88E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
466	ALL	635475	4176050	7.67E-07	70YrCancer	7.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
467	ALL	635525	4176050	7.47E-07	70YrCancer	7.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
468	ALL	635575	4176050	7.27E-07	70YrCancer	7.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
469	ALL	634825	4176100	1.17E-06	70YrCancer	1.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
470	ALL	634875	4176100	1.13E-06	70YrCancer	1.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
471	ALL	634925	4176100	1.09E-06	70YrCancer	1.09E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
472	ALL	634975	4176100	1.05E-06	70YrCancer	1.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
473	ALL	635025	4176100	1.02E-06	70YrCancer	1.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
474	ALL	635075	4176100	9.87E-07	70YrCancer	9.87E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
475	ALL	635125	4176100	9.55E-07	70YrCancer	9.55E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
476	ALL	635175	4176100	9.22E-07	70YrCancer	9.22E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
477	ALL	635225	4176100	8.92E-07	70YrCancer	8.92E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
478	ALL	635275	4176100	8.61E-07	70YrCancer	8.61E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
479	ALL	635325	4176100	8.31E-07	70YrCancer	8.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
480	ALL	635375	4176100	8.03E-07	70YrCancer	8.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
481	ALL	635425	4176100	7.71E-07	70YrCancer	7.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
482	ALL	635475	4176100	7.48E-07	70YrCancer	7.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
483	ALL	635525	4176100	7.30E-07	70YrCancer	7.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
484	ALL	635575	4176100	7.13E-07	70YrCancer	7.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
485	ALL	634825	4176150	1.16E-06	70YrCancer	1.16E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
486	ALL	634875	4176150	1.12E-06	70YrCancer	1.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
487	ALL	634925	4176150	1.08E-06	70YrCancer	1.08E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
488	ALL	634975	4176150	1.04E-06	70YrCancer	1.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

489	ALL	635025	4176150	1.01E-06	70YrCancer	1.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
490	ALL	635075	4176150	9.73E-07	70YrCancer	9.73E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
491	ALL	635125	4176150	9.45E-07	70YrCancer	9.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
492	ALL	635175	4176150	9.16E-07	70YrCancer	9.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
493	ALL	635225	4176150	8.85E-07	70YrCancer	8.85E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
494	ALL	635275	4176150	8.59E-07	70YrCancer	8.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
495	ALL	635325	4176150	8.32E-07	70YrCancer	8.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
496	ALL	635375	4176150	8.10E-07	70YrCancer	8.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
497	ALL	635425	4176150	7.86E-07	70YrCancer	7.86E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
498	ALL	635475	4176150	7.65E-07	70YrCancer	7.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
499	ALL	635525	4176150	7.43E-07	70YrCancer	7.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
500	ALL	635575	4176150	7.21E-07	70YrCancer	7.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
501	ALL	634875	4176200	1.11E-06	70YrCancer	1.11E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
502	ALL	634925	4176200	1.07E-06	70YrCancer	1.07E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
503	ALL	634975	4176200	1.03E-06	70YrCancer	1.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
504	ALL	635125	4176200	9.34E-07	70YrCancer	9.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
505	ALL	635175	4176200	9.06E-07	70YrCancer	9.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
506	ALL	635225	4176200	8.79E-07	70YrCancer	8.79E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
507	ALL	635525	4176200	7.37E-07	70YrCancer	7.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
508	ALL	635575	4176200	7.16E-07	70YrCancer	7.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
509	ALL	634325	4176250	1.69E-06	70YrCancer	1.69E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
510	ALL	634375	4176250	1.61E-06	70YrCancer	1.61E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
511	ALL	634875	4176250	1.09E-06	70YrCancer	1.09E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
512	ALL	634925	4176250	1.05E-06	70YrCancer	1.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
513	ALL	634975	4176250	1.01E-06	70YrCancer	1.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
514	ALL	635025	4176250	9.84E-07	70YrCancer	9.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
515	ALL	635075	4176250	9.56E-07	70YrCancer	9.56E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
516	ALL	635125	4176250	9.28E-07	70YrCancer	9.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
517	ALL	635175	4176250	8.97E-07	70YrCancer	8.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
518	ALL	635225	4176250	8.69E-07	70YrCancer	8.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
519	ALL	635275	4176250	8.45E-07	70YrCancer	8.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
520	ALL	635375	4176250	7.94E-07	70YrCancer	7.94E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
521	ALL	635425	4176250	7.70E-07	70YrCancer	7.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
522	ALL	635525	4176250	7.33E-07	70YrCancer	7.33E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
523	ALL	635575	4176250	7.13E-07	70YrCancer	7.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
524	ALL	634875	4176300	1.08E-06	70YrCancer	1.08E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
525	ALL	634925	4176300	1.04E-06	70YrCancer	1.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
526	ALL	634975	4176300	1.01E-06	70YrCancer	1.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
527	ALL	635025	4176300	9.78E-07	70YrCancer	9.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
528	ALL	635075	4176300	9.44E-07	70YrCancer	9.44E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
529	ALL	635125	4176300	9.09E-07	70YrCancer	9.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
530	ALL	635175	4176300	8.71E-07	70YrCancer	8.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
531	ALL	635225	4176300	8.54E-07	70YrCancer	8.54E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
532	ALL	635275	4176300	8.36E-07	70YrCancer	8.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
533	ALL	635375	4176300	7.89E-07	70YrCancer	7.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
534	ALL	635425	4176300	7.66E-07	70YrCancer	7.66E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
535	ALL	635525	4176300	7.25E-07	70YrCancer	7.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
536	ALL	635575	4176300	7.05E-07	70YrCancer	7.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
537	ALL	634875	4176350	1.06E-06	70YrCancer	1.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

538	ALL	634925	4176350	1.03E-06	70YrCancer	1.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
539	ALL	634975	4176350	9.94E-07	70YrCancer	9.94E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
540	ALL	635025	4176350	9.63E-07	70YrCancer	9.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
541	ALL	635075	4176350	9.35E-07	70YrCancer	9.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
542	ALL	635125	4176350	9.04E-07	70YrCancer	9.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
543	ALL	635175	4176350	8.76E-07	70YrCancer	8.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
544	ALL	635225	4176350	8.54E-07	70YrCancer	8.54E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
545	ALL	635275	4176350	8.28E-07	70YrCancer	8.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
546	ALL	635375	4176350	7.67E-07	70YrCancer	7.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
547	ALL	635425	4176350	7.49E-07	70YrCancer	7.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
548	ALL	635525	4176350	7.18E-07	70YrCancer	7.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
549	ALL	635575	4176350	6.99E-07	70YrCancer	6.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
550	ALL	634875	4176400	1.03E-06	70YrCancer	1.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
551	ALL	634925	4176400	1.01E-06	70YrCancer	1.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
552	ALL	634975	4176400	9.81E-07	70YrCancer	9.81E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
553	ALL	635025	4176400	9.49E-07	70YrCancer	9.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
554	ALL	635075	4176400	9.21E-07	70YrCancer	9.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
555	ALL	635125	4176400	8.95E-07	70YrCancer	8.95E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
556	ALL	635175	4176400	8.65E-07	70YrCancer	8.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
557	ALL	635225	4176400	8.44E-07	70YrCancer	8.44E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
558	ALL	635275	4176400	8.21E-07	70YrCancer	8.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
559	ALL	635425	4176400	7.53E-07	70YrCancer	7.53E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
560	ALL	635525	4176400	7.06E-07	70YrCancer	7.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
561	ALL	635575	4176400	6.82E-07	70YrCancer	6.82E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
562	ALL	633650	4176200	4.10E-06	70YrCancer	4.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
563	ALL	633700	4176200	3.69E-06	70YrCancer	3.69E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
564	ALL	633850	4176200	2.85E-06	70YrCancer	2.85E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
565	ALL	633850	4176250	2.86E-06	70YrCancer	2.86E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
566	ALL	633950	4176250	2.44E-06	70YrCancer	2.44E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
567	ALL	634350	4176250	1.65E-06	70YrCancer	1.65E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
568	ALL	633750	4176300	3.29E-06	70YrCancer	3.29E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
569	ALL	633950	4176300	2.42E-06	70YrCancer	2.42E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
570	ALL	634000	4176300	2.23E-06	70YrCancer	2.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
571	ALL	634050	4176300	2.11E-06	70YrCancer	2.11E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
572	ALL	634050	4176350	2.07E-06	70YrCancer	2.07E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
573	ALL	634050	4176400	2.13E-06	70YrCancer	2.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
574	ALL	634000	4176450	2.19E-06	70YrCancer	2.19E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
575	ALL	634050	4176450	2.04E-06	70YrCancer	2.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
576	ALL	634200	4176600	1.69E-06	70YrCancer	1.69E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
577	ALL	634100	4176650	1.67E-06	70YrCancer	1.67E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
578	ALL	634150	4176650	1.64E-06	70YrCancer	1.64E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
579	ALL	634200	4176650	1.65E-06	70YrCancer	1.65E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
580	ALL	634200	4176850	1.47E-06	70YrCancer	1.47E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
581	ALL	634200	4176900	1.40E-06	70YrCancer	1.40E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
582	ALL	634250	4176900	1.38E-06	70YrCancer	1.38E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
583	ALL	634300	4176900	1.30E-06	70YrCancer	1.30E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
584	ALL	634400	4177000	1.17E-06	70YrCancer	1.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
585	ALL	634450	4177000	1.09E-06	70YrCancer	1.09E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
586	ALL	634500	4177000	1.07E-06	70YrCancer	1.07E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

587	ALL	634550	4177000	1.03E-06	70YrCancer	1.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
588	ALL	634400	4177050	1.17E-06	70YrCancer	1.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
589	ALL	634450	4177050	1.11E-06	70YrCancer	1.11E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
590	ALL	634500	4177050	1.04E-06	70YrCancer	1.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
591	ALL	634550	4177050	1.03E-06	70YrCancer	1.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
592	ALL	633750	4173175	9.08E-07	70YrCancer	9.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
593	ALL	634450	4173325	9.56E-07	70YrCancer	9.56E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
594	ALL	634450	4173375	9.66E-07	70YrCancer	9.66E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
595	ALL	634350	4173475	1.02E-06	70YrCancer	1.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
596	ALL	634300	4173625	1.08E-06	70YrCancer	1.08E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
597	ALL	634300	4173675	1.07E-06	70YrCancer	1.07E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
598	ALL	634350	4173675	1.07E-06	70YrCancer	1.07E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
599	ALL	634250	4173775	1.11E-06	70YrCancer	1.11E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
600	ALL	633950	4173825	1.21E-06	70YrCancer	1.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
601	ALL	634050	4173825	1.04E-06	70YrCancer	1.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
602	ALL	634100	4173825	1.10E-06	70YrCancer	1.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
603	ALL	634250	4173825	1.14E-06	70YrCancer	1.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
604	ALL	634250	4173975	1.12E-06	70YrCancer	1.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
605	ALL	634150	4174125	1.18E-06	70YrCancer	1.18E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
606	ALL	634200	4174125	1.08E-06	70YrCancer	1.08E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
607	ALL	634250	4174125	1.17E-06	70YrCancer	1.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
608	ALL	634250	4174225	1.21E-06	70YrCancer	1.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
609	ALL	634350	4174225	1.19E-06	70YrCancer	1.19E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
610	ALL	634400	4174225	1.10E-06	70YrCancer	1.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
611	ALL	634200	4174325	1.24E-06	70YrCancer	1.24E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
612	ALL	634250	4174325	1.22E-06	70YrCancer	1.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
613	ALL	634200	4174375	1.29E-06	70YrCancer	1.29E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
614	ALL	634250	4174425	1.15E-06	70YrCancer	1.15E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
615	ALL	634000	4174475	1.46E-06	70YrCancer	1.46E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
616	ALL	634250	4174525	1.10E-06	70YrCancer	1.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
617	ALL	634100	4174575	1.42E-06	70YrCancer	1.42E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
618	ALL	634150	4174575	1.24E-06	70YrCancer	1.24E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
619	ALL	634200	4174575	1.19E-06	70YrCancer	1.19E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
620	ALL	634250	4174575	1.14E-06	70YrCancer	1.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
621	ALL	634250	4174625	1.10E-06	70YrCancer	1.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
622	ALL	634250	4174675	1.04E-06	70YrCancer	1.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
623	ALL	634250	4174825	1.13E-06	70YrCancer	1.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
624	ALL	634250	4174875	1.24E-06	70YrCancer	1.24E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
625	ALL	634200	4174925	1.34E-06	70YrCancer	1.34E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
626	ALL	634250	4174925	1.36E-06	70YrCancer	1.36E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
627	ALL	631950	4173950	6.35E-07	70YrCancer	6.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
628	ALL	631550	4174000	5.64E-07	70YrCancer	5.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
629	ALL	631550	4174050	6.14E-07	70YrCancer	6.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
630	ALL	631750	4174250	7.77E-07	70YrCancer	7.77E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
631	ALL	632300	4174300	1.20E-06	70YrCancer	1.20E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
632	ALL	632350	4174300	1.23E-06	70YrCancer	1.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
633	ALL	632300	4174350	1.29E-06	70YrCancer	1.29E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
634	ALL	632350	4174350	1.25E-06	70YrCancer	1.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
635	ALL	631600	4174400	9.31E-07	70YrCancer	9.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

636	ALL	631650	4174400	9.93E-07	70YrCancer	9.93E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
637	ALL	632000	4174400	1.26E-06	70YrCancer	1.26E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
638	ALL	632000	4174450	1.21E-06	70YrCancer	1.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
639	ALL	631950	4174500	1.48E-06	70YrCancer	1.48E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
640	ALL	632150	4174950	2.13E-06	70YrCancer	2.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
641	ALL	632200	4174950	1.97E-06	70YrCancer	1.97E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

*HARP - HRACalc v19044 1/12/2021 10:09:42 AM - Acute Risk - Input File: C:\Users\swang\Desktop\SchulteOpMit\hra\AcuteMitHRAInput.hra

REC	GRP	NETID	X	Y	SCENARIO	CV	CNS	IMMUN	KIDNEY	GILV	REPRO/DE\	RESP	SKIN	EYE	BONE/TEET	ENDO	BLOOD	ODOR	GENERAL	MAXHI
1	ALL		631050	4178050	NonCancer	0.00E+00	3.02E-07	3.06E-05	0.00E+00	0.00E+00	3.07E-05	3.02E-07	0.00E+00	3.02E-07	0.00E+00	0.00E+00	3.06E-05	0.00E+00	0.00E+00	3.07E-05
2	ALL		631150	4178250	NonCancer	0.00E+00	2.85E-07	2.89E-05	0.00E+00	0.00E+00	2.90E-05	2.85E-07	0.00E+00	2.85E-07	0.00E+00	0.00E+00	2.89E-05	0.00E+00	0.00E+00	2.90E-05
3	ALL		631250	4178250	NonCancer	0.00E+00	2.90E-07	2.94E-05	0.00E+00	0.00E+00	2.95E-05	2.90E-07	0.00E+00	2.90E-07	0.00E+00	0.00E+00	2.94E-05	0.00E+00	0.00E+00	2.95E-05
4	ALL		631350	4178250	NonCancer	0.00E+00	3.20E-07	3.24E-05	0.00E+00	0.00E+00	3.25E-05	3.20E-07	0.00E+00	3.20E-07	0.00E+00	0.00E+00	3.24E-05	0.00E+00	0.00E+00	3.25E-05
5	ALL		631450	4178250	NonCancer	0.00E+00	3.53E-07	3.57E-05	0.00E+00	0.00E+00	3.59E-05	3.53E-07	0.00E+00	3.53E-07	0.00E+00	0.00E+00	3.57E-05	0.00E+00	0.00E+00	3.59E-05
6	ALL		631550	4178250	NonCancer	0.00E+00	3.80E-07	3.86E-05	0.00E+00	0.00E+00	3.87E-05	3.80E-07	0.00E+00	3.80E-07	0.00E+00	0.00E+00	3.86E-05	0.00E+00	0.00E+00	3.87E-05
7	ALL		631650	4178250	NonCancer	0.00E+00	3.92E-07	3.97E-05	0.00E+00	0.00E+00	3.99E-05	3.92E-07	0.00E+00	3.92E-07	0.00E+00	0.00E+00	3.97E-05	0.00E+00	0.00E+00	3.99E-05
8	ALL		631750	4178250	NonCancer	0.00E+00	4.02E-07	4.08E-05	0.00E+00	0.00E+00	4.09E-05	4.02E-07	0.00E+00	4.02E-07	0.00E+00	0.00E+00	4.08E-05	0.00E+00	0.00E+00	4.09E-05
9	ALL		631150	4178350	NonCancer	0.00E+00	2.63E-07	2.67E-05	0.00E+00	0.00E+00	2.68E-05	2.63E-07	0.00E+00	2.63E-07	0.00E+00	0.00E+00	2.67E-05	0.00E+00	0.00E+00	2.68E-05
10	ALL		631450	4178350	NonCancer	0.00E+00	3.52E-07	3.57E-05	0.00E+00	0.00E+00	3.58E-05	3.52E-07	0.00E+00	3.52E-07	0.00E+00	0.00E+00	3.57E-05	0.00E+00	0.00E+00	3.58E-05
11	ALL		631550	4178350	NonCancer	0.00E+00	3.50E-07	3.55E-05	0.00E+00	0.00E+00	3.57E-05	3.50E-07	0.00E+00	3.50E-07	0.00E+00	0.00E+00	3.55E-05	0.00E+00	0.00E+00	3.57E-05
12	ALL		631650	4178350	NonCancer	0.00E+00	3.67E-07	3.72E-05	0.00E+00	0.00E+00	3.73E-05	3.67E-07	0.00E+00	3.67E-07	0.00E+00	0.00E+00	3.72E-05	0.00E+00	0.00E+00	3.73E-05
13	ALL		631750	4178350	NonCancer	0.00E+00	3.66E-07	3.71E-05	0.00E+00	0.00E+00	3.73E-05	3.66E-07	0.00E+00	3.66E-07	0.00E+00	0.00E+00	3.71E-05	0.00E+00	0.00E+00	3.73E-05
14	ALL		630650	4178450	NonCancer	0.00E+00	2.30E-07	2.33E-05	0.00E+00	0.00E+00	2.34E-05	2.30E-07	0.00E+00	2.30E-07	0.00E+00	0.00E+00	2.33E-05	0.00E+00	0.00E+00	2.34E-05
15	ALL		630850	4178450	NonCancer	0.00E+00	2.66E-07	2.69E-05	0.00E+00	0.00E+00	2.70E-05	2.66E-07	0.00E+00	2.66E-07	0.00E+00	0.00E+00	2.69E-05	0.00E+00	0.00E+00	2.70E-05
16	ALL		631050	4178450	NonCancer	0.00E+00	2.51E-07	2.54E-05	0.00E+00	0.00E+00	2.55E-05	2.51E-07	0.00E+00	2.51E-07	0.00E+00	0.00E+00	2.54E-05	0.00E+00	0.00E+00	2.55E-05
17	ALL		631150	4178450	NonCancer	0.00E+00	2.60E-07	2.64E-05	0.00E+00	0.00E+00	2.65E-05	2.60E-07	0.00E+00	2.60E-07	0.00E+00	0.00E+00	2.64E-05	0.00E+00	0.00E+00	2.65E-05
18	ALL		631250	4178450	NonCancer	0.00E+00	2.62E-07	2.65E-05	0.00E+00	0.00E+00	2.66E-05	2.62E-07	0.00E+00	2.62E-07	0.00E+00	0.00E+00	2.65E-05	0.00E+00	0.00E+00	2.66E-05
19	ALL		631550	4178450	NonCancer	0.00E+00	3.38E-07	3.43E-05	0.00E+00	0.00E+00	3.44E-05	3.38E-07	0.00E+00	3.38E-07	0.00E+00	0.00E+00	3.43E-05	0.00E+00	0.00E+00	3.44E-05
20	ALL		631650	4178450	NonCancer	0.00E+00	3.48E-07	3.53E-05	0.00E+00	0.00E+00	3.54E-05	3.48E-07	0.00E+00	3.48E-07	0.00E+00	0.00E+00	3.53E-05	0.00E+00	0.00E+00	3.54E-05
21	ALL		631750	4178450	NonCancer	0.00E+00	3.53E-07	3.58E-05	0.00E+00	0.00E+00	3.59E-05	3.53E-07	0.00E+00	3.53E-07	0.00E+00	0.00E+00	3.58E-05	0.00E+00	0.00E+00	3.59E-05
22	ALL		631850	4178450	NonCancer	0.00E+00	3.43E-07	3.47E-05	0.00E+00	0.00E+00	3.49E-05	3.43E-07	0.00E+00	3.43E-07	0.00E+00	0.00E+00	3.47E-05	0.00E+00	0.00E+00	3.49E-05
23	ALL		631950	4178450	NonCancer	0.00E+00	3.66E-07	3.71E-05	0.00E+00	0.00E+00	3.73E-05	3.66E-07	0.00E+00	3.66E-07	0.00E+00	0.00E+00	3.71E-05	0.00E+00	0.00E+00	3.73E-05
24	ALL		632050	4178450	NonCancer	0.00E+00	3.73E-07	3.78E-05	0.00E+00	0.00E+00	3.79E-05	3.73E-07	0.00E+00	3.73E-07	0.00E+00	0.00E+00	3.78E-05	0.00E+00	0.00E+00	3.79E-05
25	ALL		632150	4178450	NonCancer	0.00E+00	5.13E-07	5.20E-05	0.00E+00	0.00E+00	5.22E-05	5.13E-07	0.00E+00	5.13E-07	0.00E+00	0.00E+00	5.20E-05	0.00E+00	0.00E+00	5.22E-05
26	ALL		630550	4178550	NonCancer	0.00E+00	2.17E-07	2.20E-05	0.00E+00	0.00E+00	2.21E-05	2.17E-07	0.00E+00	2.17E-07	0.00E+00	0.00E+00	2.20E-05	0.00E+00	0.00E+00	2.21E-05
27	ALL		630650	4178550	NonCancer	0.00E+00	2.54E-07	2.58E-05	0.00E+00	0.00E+00	2.59E-05	2.54E-07	0.00E+00	2.54E-07	0.00E+00	0.00E+00	2.58E-05	0.00E+00	0.00E+00	2.59E-05
28	ALL		630750	4178550	NonCancer	0.00E+00	2.63E-07	2.66E-05	0.00E+00	0.00E+00	2.67E-05	2.63E-07	0.00E+00	2.63E-07	0.00E+00	0.00E+00	2.66E-05	0.00E+00	0.00E+00	2.67E-05
29	ALL		630950	4178550	NonCancer	0.00E+00	2.39E-07	2.42E-05	0.00E+00	0.00E+00	2.43E-05	2.39E-07	0.00E+00	2.39E-07	0.00E+00	0.00E+00	2.42E-05	0.00E+00	0.00E+00	2.43E-05
30	ALL		631050	4178550	NonCancer	0.00E+00	2.43E-07	2.47E-05	0.00E+00	0.00E+00	2.47E-05	2.43E-07	0.00E+00	2.43E-07	0.00E+00	0.00E+00	2.47E-05	0.00E+00	0.00E+00	2.47E-05
31	ALL		631250	4178550	NonCancer	0.00E+00	2.76E-07	2.79E-05	0.00E+00	0.00E+00	2.80E-05	2.76E-07	0.00E+00	2.76E-07	0.00E+00	0.00E+00	2.79E-05	0.00E+00	0.00E+00	2.80E-05
32	ALL		631350	4178550	NonCancer	0.00E+00	3.10E-07	3.15E-05	0.00E+00	0.00E+00	3.16E-05	3.10E-07	0.00E+00	3.10E-07	0.00E+00	0.00E+00	3.15E-05	0.00E+00	0.00E+00	3.16E-05
33	ALL		631450	4178550	NonCancer	0.00E+00	3.08E-07	3.12E-05	0.00E+00	0.00E+00	3.13E-05	3.08E-07	0.00E+00	3.08E-07	0.00E+00	0.00E+00	3.12E-05	0.00E+00	0.00E+00	3.13E-05
34	ALL		631550	4178550	NonCancer	0.00E+00	3.22E-07	3.26E-05	0.00E+00	0.00E+00	3.27E-05	3.22E-07	0.00E+00	3.22E-07	0.00E+00	0.00E+00	3.26E-05	0.00E+00	0.00E+00	3.27E-05
35	ALL		631650	4178550	NonCancer	0.00E+00	3.17E-07	3.21E-05	0.00E+00	0.00E+00	3.22E-05	3.17E-07	0.00E+00	3.17E-07	0.00E+00	0.00E+00	3.21E-05	0.00E+00	0.00E+00	3.22E-05
36	ALL		631750	4178550	NonCancer	0.00E+00	3.33E-07	3.38E-05	0.00E+00	0.00E+00	3.39E-05	3.33E-07	0.00E+00	3.33E-07	0.00E+00	0.00E+00	3.38E-05	0.00E+00	0.00E+00	3.39E-05
37	ALL		631850	4178550	NonCancer	0.00E+00	3.13E-07	3.17E-05	0.00E+00	0.00E+00	3.18E-05	3.13E-07	0.00E+00	3.13E-07	0.00E+00	0.00E+00	3.17E-05	0.00E+00	0.00E+00	3.18E-05
38	ALL		631950	4178550	NonCancer	0.00E+00	3.42E-07	3.47E-05	0.00E+00	0.00E+00	3.48E-05	3.42E-07	0.00E+00	3.42E-07	0.00E+00	0.00E+00	3.47E-05	0.00E+00	0.00E+00	3.48E-05
39	ALL		632050	4178550	NonCancer	0.00E+00	3.50E-07	3.54E-05	0.00E+00	0.00E+00	3.56E-05	3.50E-07	0.00E+00	3.50E-07	0.00E+00	0.00E+00	3.54E-05	0.00E+00	0.00E+00	3.56E-05
40	ALL		632150	4178550	NonCancer	0.00E+00	5.27E-07	5.34E-05	0.00E+00	0.00E+00	5.36E-05	5.27E-07	0.00E+00	5.27E-07	0.00E+00	0.00E+00	5.34E-05	0.00E+00	0.00E+00	5.36E-05
41	ALL		630450	4178650	NonCancer	0.00E+00	2.05E-07	2.08E-05	0.00E+00	0.00E+00	2.09E-05	2.05E-07	0.00E+00	2.05E-07	0.00E+00	0.00E+00	2.08E-05	0.00E+00	0.00E+00	2.09E-05
42	ALL		630550	4178650	NonCancer	0.00E+00	2.41E-07	2.44E-05	0.00E+00	0.00E+00	2.45E-05	2.41E-07	0.00E+00	2.41E-07	0.00E+00	0.00E+00	2.44E-05	0.00E+00	0.00E+00	2.45E-05
43	ALL		630650	4178650	NonCancer	0.00E+00	2.57E-07	2.60E-05	0.00E+00	0.00E+00	2.61E-05	2.57E-07	0.00E+00	2.57E-07	0.00E+00	0.00E+00	2.60E-05	0.00E+00	0.00E+00	2.61E-05
44	ALL		630750	4178650	NonCancer	0.00E+00	2.29E-07	2.32E-05	0.00E+00	0.00E+00	2.33E-05	2.29E-07	0.00E+00	2.29E-07	0.00E+00	0.00E+00	2.32E-05	0.00E+00	0.00E+00	2.33E-05
45	ALL		630850	4178650	NonCancer	0.00E+00	2.25E-07	2.28E-05	0.00E+00	0.00E+00	2.29E-05	2.25E-07	0.00E+00	2.25E-07	0.00E+00	0.00E+00	2.28E-05	0.00E+00	0.00E+00	2.29E-05
46	ALL		630950	4178650	NonCancer	0.00E+00	2.23E-07	2.26E-05	0.00E+00	0.00E+00	2.27E-05	2.23E-07	0.00E+00	2.23E-07	0.00E+00	0.00E+00	2.26E-05	0.00E+00	0.00E+00	2.27E-05
47	ALL		631050	4178650	NonCancer	0.00E+00	2.33E-07	2.36E-05	0.00E+00	0.00E+00	2.37E-05	2.33E-07	0.00E+00	2.33E-07	0.00E+00	0.00E+00	2.36E-05	0.00E+00	0.00E+00	2.37E-05
48	ALL		631150	4178650	NonCancer	0.00E+00	2.34E-07	2.37E-05	0.00E+00	0.00E+00	2.38E-05	2.34E-07	0.00E+00	2.34E-07	0.00E+00	0.00E+00	2.37E-05	0.00E+00	0.00E+00	2.38E-05
49	ALL		631250	4178650	NonCancer	0.00E+00	2.87E-07	2.91E-05	0.00E+00	0.00E+00	2.92E-05	2.87E-07	0.00E+00	2.87E-07	0.00E+00	0.00E+00	2.91E-05	0.00E+00	0.00E+00	2.92E-05
50	ALL		631350	4178650	NonCancer	0.00E+00	2.96E-07	3.00E-05	0.00E+00	0.00E+00	3.01E-05	2.96E-07	0.00E+00	2.96E-07	0.00E+00	0.00E+00	3.00E-05	0.00E+00	0.00E+00	3.01E-05
51	ALL		631450	4178650	NonCancer	0.00E+00	3.00E-07	3.04E-05	0.00E+00	0.00E+00	3.06E-05	3.00E-07	0.00E+00	3.00E-07	0.00E+00	0.00E+00	3.04E-05	0.00E+00	0.00E+00	3.06E-05
52	ALL		631550	4178650	NonCancer	0.00E+00	3.09E-07	3.13E-05	0.00E+00	0.00E+00	3.14E-05	3.09E-07	0.00E+00	3.09E-07	0.00E+00	0.00E+00	3.13E-05	0.00E+00	0.00E+00	3.14E-05
53	ALL		631650	4178650	NonCancer	0.00E+00	3.13E-07	3.18E-05	0.00E+00	0.00E+00	3.19E-05	3.13E-07	0.00E+00	3.13E-07	0.00E+00	0.00E+00	3.18E-05	0.00E+00	0.00E+00	3.19E-05

54	ALL	631750	4178650	NonCancer	0.00E+00	3.13E-07	3.17E-05	0.00E+00	0.00E+00	3.18E-05	3.13E-07	0.00E+00	3.13E-07	0.00E+00	0.00E+00	3.17E-05	0.00E+00	0.00E+00	3.18E-05
55	ALL	631850	4178650	NonCancer	0.00E+00	3.17E-07	3.21E-05	0.00E+00	0.00E+00	3.22E-05	3.17E-07	0.00E+00	3.17E-07	0.00E+00	0.00E+00	3.21E-05	0.00E+00	0.00E+00	3.22E-05
56	ALL	631950	4178650	NonCancer	0.00E+00	3.16E-07	3.20E-05	0.00E+00	0.00E+00	3.21E-05	3.16E-07	0.00E+00	3.16E-07	0.00E+00	0.00E+00	3.20E-05	0.00E+00	0.00E+00	3.21E-05
57	ALL	632050	4178650	NonCancer	0.00E+00	3.33E-07	3.37E-05	0.00E+00	0.00E+00	3.39E-05	3.33E-07	0.00E+00	3.33E-07	0.00E+00	0.00E+00	3.37E-05	0.00E+00	0.00E+00	3.39E-05
58	ALL	632150	4178650	NonCancer	0.00E+00	4.97E-07	5.04E-05	0.00E+00	0.00E+00	5.06E-05	4.97E-07	0.00E+00	4.97E-07	0.00E+00	0.00E+00	5.04E-05	0.00E+00	0.00E+00	5.06E-05
59	ALL	630350	4178750	NonCancer	0.00E+00	1.94E-07	1.96E-05	0.00E+00	0.00E+00	1.97E-05	1.94E-07	0.00E+00	1.94E-07	0.00E+00	0.00E+00	1.96E-05	0.00E+00	0.00E+00	1.97E-05
60	ALL	630450	4178750	NonCancer	0.00E+00	2.26E-07	2.29E-05	0.00E+00	0.00E+00	2.30E-05	2.26E-07	0.00E+00	2.26E-07	0.00E+00	0.00E+00	2.29E-05	0.00E+00	0.00E+00	2.30E-05
61	ALL	630550	4178750	NonCancer	0.00E+00	2.51E-07	2.54E-05	0.00E+00	0.00E+00	2.55E-05	2.51E-07	0.00E+00	2.51E-07	0.00E+00	0.00E+00	2.54E-05	0.00E+00	0.00E+00	2.55E-05
62	ALL	630650	4178750	NonCancer	0.00E+00	2.33E-07	2.36E-05	0.00E+00	0.00E+00	2.37E-05	2.33E-07	0.00E+00	2.33E-07	0.00E+00	0.00E+00	2.36E-05	0.00E+00	0.00E+00	2.37E-05
63	ALL	630750	4178750	NonCancer	0.00E+00	2.12E-07	2.15E-05	0.00E+00	0.00E+00	2.16E-05	2.12E-07	0.00E+00	2.12E-07	0.00E+00	0.00E+00	2.15E-05	0.00E+00	0.00E+00	2.16E-05
64	ALL	630850	4178750	NonCancer	0.00E+00	2.13E-07	2.16E-05	0.00E+00	0.00E+00	2.17E-05	2.13E-07	0.00E+00	2.13E-07	0.00E+00	0.00E+00	2.16E-05	0.00E+00	0.00E+00	2.17E-05
65	ALL	630950	4178750	NonCancer	0.00E+00	2.23E-07	2.26E-05	0.00E+00	0.00E+00	2.26E-05	2.23E-07	0.00E+00	2.23E-07	0.00E+00	0.00E+00	2.26E-05	0.00E+00	0.00E+00	2.26E-05
66	ALL	631050	4178750	NonCancer	0.00E+00	2.23E-07	2.26E-05	0.00E+00	0.00E+00	2.27E-05	2.23E-07	0.00E+00	2.23E-07	0.00E+00	0.00E+00	2.26E-05	0.00E+00	0.00E+00	2.27E-05
67	ALL	631150	4178750	NonCancer	0.00E+00	2.56E-07	2.60E-05	0.00E+00	0.00E+00	2.61E-05	2.56E-07	0.00E+00	2.56E-07	0.00E+00	0.00E+00	2.60E-05	0.00E+00	0.00E+00	2.61E-05
68	ALL	631250	4178750	NonCancer	0.00E+00	2.78E-07	2.82E-05	0.00E+00	0.00E+00	2.83E-05	2.78E-07	0.00E+00	2.78E-07	0.00E+00	0.00E+00	2.82E-05	0.00E+00	0.00E+00	2.83E-05
69	ALL	631350	4178750	NonCancer	0.00E+00	2.75E-07	2.79E-05	0.00E+00	0.00E+00	2.80E-05	2.75E-07	0.00E+00	2.75E-07	0.00E+00	0.00E+00	2.79E-05	0.00E+00	0.00E+00	2.80E-05
70	ALL	631450	4178750	NonCancer	0.00E+00	2.88E-07	2.92E-05	0.00E+00	0.00E+00	2.93E-05	2.88E-07	0.00E+00	2.88E-07	0.00E+00	0.00E+00	2.92E-05	0.00E+00	0.00E+00	2.93E-05
71	ALL	631550	4178750	NonCancer	0.00E+00	2.83E-07	2.87E-05	0.00E+00	0.00E+00	2.88E-05	2.83E-07	0.00E+00	2.83E-07	0.00E+00	0.00E+00	2.87E-05	0.00E+00	0.00E+00	2.88E-05
72	ALL	631650	4178750	NonCancer	0.00E+00	2.96E-07	3.00E-05	0.00E+00	0.00E+00	3.01E-05	2.96E-07	0.00E+00	2.96E-07	0.00E+00	0.00E+00	3.00E-05	0.00E+00	0.00E+00	3.01E-05
73	ALL	631750	4178750	NonCancer	0.00E+00	2.83E-07	2.86E-05	0.00E+00	0.00E+00	2.88E-05	2.83E-07	0.00E+00	2.83E-07	0.00E+00	0.00E+00	2.86E-05	0.00E+00	0.00E+00	2.88E-05
74	ALL	631850	4178750	NonCancer	0.00E+00	3.08E-07	3.12E-05	0.00E+00	0.00E+00	3.14E-05	3.08E-07	0.00E+00	3.08E-07	0.00E+00	0.00E+00	3.12E-05	0.00E+00	0.00E+00	3.14E-05
75	ALL	631950	4178750	NonCancer	0.00E+00	3.11E-07	3.15E-05	0.00E+00	0.00E+00	3.16E-05	3.11E-07	0.00E+00	3.11E-07	0.00E+00	0.00E+00	3.15E-05	0.00E+00	0.00E+00	3.16E-05
76	ALL	632050	4178750	NonCancer	0.00E+00	3.32E-07	3.37E-05	0.00E+00	0.00E+00	3.38E-05	3.32E-07	0.00E+00	3.32E-07	0.00E+00	0.00E+00	3.37E-05	0.00E+00	0.00E+00	3.38E-05
77	ALL	632150	4178750	NonCancer	0.00E+00	4.39E-07	4.45E-05	0.00E+00	0.00E+00	4.46E-05	4.39E-07	0.00E+00	4.39E-07	0.00E+00	0.00E+00	4.45E-05	0.00E+00	0.00E+00	4.46E-05
78	ALL	630250	4178850	NonCancer	0.00E+00	1.83E-07	1.85E-05	0.00E+00	0.00E+00	1.86E-05	1.83E-07	0.00E+00	1.83E-07	0.00E+00	0.00E+00	1.85E-05	0.00E+00	0.00E+00	1.86E-05
79	ALL	630350	4178850	NonCancer	0.00E+00	2.13E-07	2.15E-05	0.00E+00	0.00E+00	2.16E-05	2.13E-07	0.00E+00	2.13E-07	0.00E+00	0.00E+00	2.15E-05	0.00E+00	0.00E+00	2.16E-05
80	ALL	630450	4178850	NonCancer	0.00E+00	2.42E-07	2.46E-05	0.00E+00	0.00E+00	2.47E-05	2.42E-07	0.00E+00	2.42E-07	0.00E+00	0.00E+00	2.46E-05	0.00E+00	0.00E+00	2.47E-05
81	ALL	630550	4178850	NonCancer	0.00E+00	2.35E-07	2.39E-05	0.00E+00	0.00E+00	2.40E-05	2.35E-07	0.00E+00	2.35E-07	0.00E+00	0.00E+00	2.39E-05	0.00E+00	0.00E+00	2.40E-05
82	ALL	630650	4178850	NonCancer	0.00E+00	2.02E-07	2.05E-05	0.00E+00	0.00E+00	2.06E-05	2.02E-07	0.00E+00	2.02E-07	0.00E+00	0.00E+00	2.05E-05	0.00E+00	0.00E+00	2.06E-05
83	ALL	630750	4178850	NonCancer	0.00E+00	2.06E-07	2.08E-05	0.00E+00	0.00E+00	2.09E-05	2.06E-07	0.00E+00	2.06E-07	0.00E+00	0.00E+00	2.08E-05	0.00E+00	0.00E+00	2.09E-05
84	ALL	630850	4178850	NonCancer	0.00E+00	2.09E-07	2.12E-05	0.00E+00	0.00E+00	2.13E-05	2.09E-07	0.00E+00	2.09E-07	0.00E+00	0.00E+00	2.12E-05	0.00E+00	0.00E+00	2.13E-05
85	ALL	630950	4178850	NonCancer	0.00E+00	2.13E-07	2.16E-05	0.00E+00	0.00E+00	2.17E-05	2.13E-07	0.00E+00	2.13E-07	0.00E+00	0.00E+00	2.16E-05	0.00E+00	0.00E+00	2.17E-05
86	ALL	631050	4178850	NonCancer	0.00E+00	2.23E-07	2.26E-05	0.00E+00	0.00E+00	2.26E-05	2.23E-07	0.00E+00	2.23E-07	0.00E+00	0.00E+00	2.26E-05	0.00E+00	0.00E+00	2.26E-05
87	ALL	631150	4178850	NonCancer	0.00E+00	2.62E-07	2.65E-05	0.00E+00	0.00E+00	2.67E-05	2.62E-07	0.00E+00	2.62E-07	0.00E+00	0.00E+00	2.65E-05	0.00E+00	0.00E+00	2.67E-05
88	ALL	631250	4178850	NonCancer	0.00E+00	2.67E-07	2.71E-05	0.00E+00	0.00E+00	2.72E-05	2.67E-07	0.00E+00	2.67E-07	0.00E+00	0.00E+00	2.71E-05	0.00E+00	0.00E+00	2.72E-05
89	ALL	631350	4178850	NonCancer	0.00E+00	2.71E-07	2.74E-05	0.00E+00	0.00E+00	2.75E-05	2.71E-07	0.00E+00	2.71E-07	0.00E+00	0.00E+00	2.74E-05	0.00E+00	0.00E+00	2.75E-05
90	ALL	631450	4178850	NonCancer	0.00E+00	2.78E-07	2.82E-05	0.00E+00	0.00E+00	2.83E-05	2.78E-07	0.00E+00	2.78E-07	0.00E+00	0.00E+00	2.82E-05	0.00E+00	0.00E+00	2.83E-05
91	ALL	631550	4178850	NonCancer	0.00E+00	2.80E-07	2.84E-05	0.00E+00	0.00E+00	2.85E-05	2.80E-07	0.00E+00	2.80E-07	0.00E+00	0.00E+00	2.84E-05	0.00E+00	0.00E+00	2.85E-05
92	ALL	631650	4178850	NonCancer	0.00E+00	2.85E-07	2.89E-05	0.00E+00	0.00E+00	2.90E-05	2.85E-07	0.00E+00	2.85E-07	0.00E+00	0.00E+00	2.89E-05	0.00E+00	0.00E+00	2.90E-05
93	ALL	631750	4178850	NonCancer	0.00E+00	2.73E-07	2.76E-05	0.00E+00	0.00E+00	2.78E-05	2.73E-07	0.00E+00	2.73E-07	0.00E+00	0.00E+00	2.76E-05	0.00E+00	0.00E+00	2.78E-05
94	ALL	631850	4178850	NonCancer	0.00E+00	2.91E-07	2.95E-05	0.00E+00	0.00E+00	2.96E-05	2.91E-07	0.00E+00	2.91E-07	0.00E+00	0.00E+00	2.95E-05	0.00E+00	0.00E+00	2.96E-05
95	ALL	631950	4178850	NonCancer	0.00E+00	2.98E-07	3.02E-05	0.00E+00	0.00E+00	3.03E-05	2.98E-07	0.00E+00	2.98E-07	0.00E+00	0.00E+00	3.02E-05	0.00E+00	0.00E+00	3.03E-05
96	ALL	632050	4178850	NonCancer	0.00E+00	3.43E-07	3.48E-05	0.00E+00	0.00E+00	3.49E-05	3.43E-07	0.00E+00	3.43E-07	0.00E+00	0.00E+00	3.48E-05	0.00E+00	0.00E+00	3.49E-05
97	ALL	632150	4178850	NonCancer	0.00E+00	3.76E-07	3.81E-05	0.00E+00	0.00E+00	3.83E-05	3.76E-07	0.00E+00	3.76E-07	0.00E+00	0.00E+00	3.81E-05	0.00E+00	0.00E+00	3.83E-05
98	ALL	630250	4178950	NonCancer	0.00E+00	1.99E-07	2.02E-05	0.00E+00	0.00E+00	2.03E-05	1.99E-07	0.00E+00	1.99E-07	0.00E+00	0.00E+00	2.02E-05	0.00E+00	0.00E+00	2.03E-05
99	ALL	630350	4178950	NonCancer	0.00E+00	2.33E-07	2.36E-05	0.00E+00	0.00E+00	2.37E-05	2.33E-07	0.00E+00	2.33E-07	0.00E+00	0.00E+00	2.36E-05	0.00E+00	0.00E+00	2.37E-05
100	ALL	630450	4178950	NonCancer	0.00E+00	2.34E-07	2.37E-05	0.00E+00	0.00E+00	2.38E-05	2.34E-07	0.00E+00	2.34E-07	0.00E+00	0.00E+00	2.37E-05	0.00E+00	0.00E+00	2.38E-05
101	ALL	630550	4178950	NonCancer	0.00E+00	2.00E-07	2.03E-05	0.00E+00	0.00E+00	2.04E-05	2.00E-07	0.00E+00	2.00E-07	0.00E+00	0.00E+00	2.03E-05	0.00E+00	0.00E+00	2.04E-05
102	ALL	630650	4178950	NonCancer	0.00E+00	1.96E-07	1.98E-05	0.00E+00	0.00E+00	1.99E-05	1.96E-07	0.00E+00	1.96E-07	0.00E+00	0.00E+00	1.98E-05	0.00E+00	0.00E+00	1.99E-05
103	ALL	630750	4178950	NonCancer	0.00E+00	1.93E-07	1.96E-05	0.00E+00	0.00E+00	1.97E-05	1.93E-07	0.00E+00	1.93E-07	0.00E+00	0.00E+00	1.96E-05	0.00E+00	0.00E+00	1.97E-05
104	ALL	630850	4178950	NonCancer	0.00E+00	2.02E-07	2.05E-05	0.00E+00	0.00E+00	2.06E-05	2.02E-07	0.00E+00	2.02E-07	0.00E+00	0.00E+00	2.05E-05	0.00E+00	0.00E+00	2.06E-05
105	ALL	630950	4178950	NonCancer	0.00E+00	2.01E-07	2.04E-05	0.00E+00	0.00E+00	2.05E-05	2.01E-07	0.00E+00	2.01E-07	0.00E+00	0.00E+00	2.04E-05	0.00E+00	0.00E+00	2.05E-05
106	ALL	631050	4178950	NonCancer	0.00E+00	2.38E-07	2.42E-05	0.00E+00	0.00E+00	2.43E-05	2.38E-07	0.00E+00	2.38E-07	0.00E+00	0.00E+00	2.42E-05	0.00E+00	0.00E+00	2.43E-05
107	ALL	631150	4178950	NonCancer	0.00E+00	2.52E-07	2.55E-05	0.00E+00	0.00E+00	2.56E-05	2.52E-07	0.00E+00	2.52E-07	0.00E+00	0.00E+00	2.55E-05	0.00E+00	0.00E+00	2.56E-05
108	ALL	631250	4178950	NonCancer	0.00E+00	2.49E-07	2.52E-05	0.00E+00	0.00E+00	2.53E-05	2.49E-07	0.00E+00	2.49E-07	0.00E+00	0.00E+00	2.52E-05	0.00E+00	0.00E+00	2.53E-05

109	ALL	631350	4178950	NonCancer	0.00E+00	2.62E-07	2.65E-05	0.00E+00	0.00E+00	2.66E-05	2.62E-07	0.00E+00	2.62E-07	0.00E+00	0.00E+00	2.65E-05	0.00E+00	0.00E+00	2.66E-05
110	ALL	631450	4178950	NonCancer	0.00E+00	2.59E-07	2.63E-05	0.00E+00	0.00E+00	2.64E-05	2.59E-07	0.00E+00	2.59E-07	0.00E+00	0.00E+00	2.63E-05	0.00E+00	0.00E+00	2.64E-05
111	ALL	631550	4178950	NonCancer	0.00E+00	2.70E-07	2.74E-05	0.00E+00	0.00E+00	2.75E-05	2.70E-07	0.00E+00	2.70E-07	0.00E+00	0.00E+00	2.74E-05	0.00E+00	0.00E+00	2.75E-05
112	ALL	631650	4178950	NonCancer	0.00E+00	2.65E-07	2.69E-05	0.00E+00	0.00E+00	2.70E-05	2.65E-07	0.00E+00	2.65E-07	0.00E+00	0.00E+00	2.69E-05	0.00E+00	0.00E+00	2.70E-05
113	ALL	631750	4178950	NonCancer	0.00E+00	2.74E-07	2.78E-05	0.00E+00	0.00E+00	2.79E-05	2.74E-07	0.00E+00	2.74E-07	0.00E+00	0.00E+00	2.78E-05	0.00E+00	0.00E+00	2.79E-05
114	ALL	631850	4178950	NonCancer	0.00E+00	2.70E-07	2.73E-05	0.00E+00	0.00E+00	2.74E-05	2.70E-07	0.00E+00	2.70E-07	0.00E+00	0.00E+00	2.73E-05	0.00E+00	0.00E+00	2.74E-05
115	ALL	631950	4178950	NonCancer	0.00E+00	2.84E-07	2.88E-05	0.00E+00	0.00E+00	2.89E-05	2.84E-07	0.00E+00	2.84E-07	0.00E+00	0.00E+00	2.88E-05	0.00E+00	0.00E+00	2.89E-05
116	ALL	632050	4178950	NonCancer	0.00E+00	3.39E-07	3.43E-05	0.00E+00	0.00E+00	3.45E-05	3.39E-07	0.00E+00	3.39E-07	0.00E+00	0.00E+00	3.43E-05	0.00E+00	0.00E+00	3.45E-05
117	ALL	632150	4178950	NonCancer	0.00E+00	3.23E-07	3.27E-05	0.00E+00	0.00E+00	3.28E-05	3.23E-07	0.00E+00	3.23E-07	0.00E+00	0.00E+00	3.27E-05	0.00E+00	0.00E+00	3.28E-05
118	ALL	629950	4179050	NonCancer	0.00E+00	1.56E-07	1.58E-05	0.00E+00	0.00E+00	1.59E-05	1.56E-07	0.00E+00	1.56E-07	0.00E+00	0.00E+00	1.58E-05	0.00E+00	0.00E+00	1.59E-05
119	ALL	630250	4179050	NonCancer	0.00E+00	2.23E-07	2.26E-05	0.00E+00	0.00E+00	2.27E-05	2.23E-07	0.00E+00	2.23E-07	0.00E+00	0.00E+00	2.26E-05	0.00E+00	0.00E+00	2.27E-05
120	ALL	630350	4179050	NonCancer	0.00E+00	2.31E-07	2.35E-05	0.00E+00	0.00E+00	2.36E-05	2.31E-07	0.00E+00	2.31E-07	0.00E+00	0.00E+00	2.35E-05	0.00E+00	0.00E+00	2.36E-05
121	ALL	630450	4179050	NonCancer	0.00E+00	2.06E-07	2.09E-05	0.00E+00	0.00E+00	2.10E-05	2.06E-07	0.00E+00	2.06E-07	0.00E+00	0.00E+00	2.09E-05	0.00E+00	0.00E+00	2.10E-05
122	ALL	630550	4179050	NonCancer	0.00E+00	1.85E-07	1.87E-05	0.00E+00	0.00E+00	1.88E-05	1.85E-07	0.00E+00	1.85E-07	0.00E+00	0.00E+00	1.87E-05	0.00E+00	0.00E+00	1.88E-05
123	ALL	630650	4179050	NonCancer	0.00E+00	1.85E-07	1.87E-05	0.00E+00	0.00E+00	1.88E-05	1.85E-07	0.00E+00	1.85E-07	0.00E+00	0.00E+00	1.87E-05	0.00E+00	0.00E+00	1.88E-05
124	ALL	630750	4179050	NonCancer	0.00E+00	1.93E-07	1.96E-05	0.00E+00	0.00E+00	1.97E-05	1.93E-07	0.00E+00	1.93E-07	0.00E+00	0.00E+00	1.96E-05	0.00E+00	0.00E+00	1.97E-05
125	ALL	630850	4179050	NonCancer	0.00E+00	1.95E-07	1.97E-05	0.00E+00	0.00E+00	1.98E-05	1.95E-07	0.00E+00	1.95E-07	0.00E+00	0.00E+00	1.97E-05	0.00E+00	0.00E+00	1.98E-05
126	ALL	630950	4179050	NonCancer	0.00E+00	2.11E-07	2.14E-05	0.00E+00	0.00E+00	2.15E-05	2.11E-07	0.00E+00	2.11E-07	0.00E+00	0.00E+00	2.14E-05	0.00E+00	0.00E+00	2.15E-05
127	ALL	631050	4179050	NonCancer	0.00E+00	2.40E-07	2.44E-05	0.00E+00	0.00E+00	2.45E-05	2.40E-07	0.00E+00	2.40E-07	0.00E+00	0.00E+00	2.44E-05	0.00E+00	0.00E+00	2.45E-05
128	ALL	631150	4179050	NonCancer	0.00E+00	2.44E-07	2.47E-05	0.00E+00	0.00E+00	2.48E-05	2.44E-07	0.00E+00	2.44E-07	0.00E+00	0.00E+00	2.47E-05	0.00E+00	0.00E+00	2.48E-05
129	ALL	631250	4179050	NonCancer	0.00E+00	2.46E-07	2.50E-05	0.00E+00	0.00E+00	2.51E-05	2.46E-07	0.00E+00	2.46E-07	0.00E+00	0.00E+00	2.50E-05	0.00E+00	0.00E+00	2.51E-05
130	ALL	631350	4179050	NonCancer	0.00E+00	2.53E-07	2.56E-05	0.00E+00	0.00E+00	2.57E-05	2.53E-07	0.00E+00	2.53E-07	0.00E+00	0.00E+00	2.56E-05	0.00E+00	0.00E+00	2.57E-05
131	ALL	631450	4179050	NonCancer	0.00E+00	2.53E-07	2.56E-05	0.00E+00	0.00E+00	2.57E-05	2.53E-07	0.00E+00	2.53E-07	0.00E+00	0.00E+00	2.56E-05	0.00E+00	0.00E+00	2.57E-05
132	ALL	631550	4179050	NonCancer	0.00E+00	2.59E-07	2.63E-05	0.00E+00	0.00E+00	2.64E-05	2.59E-07	0.00E+00	2.59E-07	0.00E+00	0.00E+00	2.63E-05	0.00E+00	0.00E+00	2.64E-05
133	ALL	631650	4179050	NonCancer	0.00E+00	2.38E-07	2.42E-05	0.00E+00	0.00E+00	2.43E-05	2.38E-07	0.00E+00	2.38E-07	0.00E+00	0.00E+00	2.42E-05	0.00E+00	0.00E+00	2.43E-05
134	ALL	631750	4179050	NonCancer	0.00E+00	2.67E-07	2.71E-05	0.00E+00	0.00E+00	2.72E-05	2.67E-07	0.00E+00	2.67E-07	0.00E+00	0.00E+00	2.71E-05	0.00E+00	0.00E+00	2.72E-05
135	ALL	631850	4179050	NonCancer	0.00E+00	2.67E-07	2.71E-05	0.00E+00	0.00E+00	2.72E-05	2.67E-07	0.00E+00	2.67E-07	0.00E+00	0.00E+00	2.71E-05	0.00E+00	0.00E+00	2.72E-05
136	ALL	631950	4179050	NonCancer	0.00E+00	2.73E-07	2.76E-05	0.00E+00	0.00E+00	2.77E-05	2.73E-07	0.00E+00	2.73E-07	0.00E+00	0.00E+00	2.76E-05	0.00E+00	0.00E+00	2.77E-05
137	ALL	632050	4179050	NonCancer	0.00E+00	3.23E-07	3.27E-05	0.00E+00	0.00E+00	3.28E-05	3.23E-07	0.00E+00	3.23E-07	0.00E+00	0.00E+00	3.27E-05	0.00E+00	0.00E+00	3.28E-05
138	ALL	632150	4179050	NonCancer	0.00E+00	2.81E-07	2.85E-05	0.00E+00	0.00E+00	2.86E-05	2.81E-07	0.00E+00	2.81E-07	0.00E+00	0.00E+00	2.85E-05	0.00E+00	0.00E+00	2.86E-05
139	ALL	629850	4179150	NonCancer	0.00E+00	1.54E-07	1.56E-05	0.00E+00	0.00E+00	1.57E-05	1.54E-07	0.00E+00	1.54E-07	0.00E+00	0.00E+00	1.56E-05	0.00E+00	0.00E+00	1.57E-05
140	ALL	629950	4179150	NonCancer	0.00E+00	1.54E-07	1.56E-05	0.00E+00	0.00E+00	1.56E-05	1.54E-07	0.00E+00	1.54E-07	0.00E+00	0.00E+00	1.56E-05	0.00E+00	0.00E+00	1.56E-05
141	ALL	630150	4179150	NonCancer	0.00E+00	2.12E-07	2.15E-05	0.00E+00	0.00E+00	2.16E-05	2.12E-07	0.00E+00	2.12E-07	0.00E+00	0.00E+00	2.15E-05	0.00E+00	0.00E+00	2.16E-05
142	ALL	630250	4179150	NonCancer	0.00E+00	2.27E-07	2.30E-05	0.00E+00	0.00E+00	2.31E-05	2.27E-07	0.00E+00	2.27E-07	0.00E+00	0.00E+00	2.30E-05	0.00E+00	0.00E+00	2.31E-05
143	ALL	630350	4179150	NonCancer	0.00E+00	2.10E-07	2.13E-05	0.00E+00	0.00E+00	2.13E-05	2.10E-07	0.00E+00	2.10E-07	0.00E+00	0.00E+00	2.13E-05	0.00E+00	0.00E+00	2.13E-05
144	ALL	630450	4179150	NonCancer	0.00E+00	1.77E-07	1.79E-05	0.00E+00	0.00E+00	1.80E-05	1.77E-07	0.00E+00	1.77E-07	0.00E+00	0.00E+00	1.79E-05	0.00E+00	0.00E+00	1.80E-05
145	ALL	630550	4179150	NonCancer	0.00E+00	1.80E-07	1.82E-05	0.00E+00	0.00E+00	1.83E-05	1.80E-07	0.00E+00	1.80E-07	0.00E+00	0.00E+00	1.82E-05	0.00E+00	0.00E+00	1.83E-05
146	ALL	630650	4179150	NonCancer	0.00E+00	1.82E-07	1.85E-05	0.00E+00	0.00E+00	1.86E-05	1.82E-07	0.00E+00	1.82E-07	0.00E+00	0.00E+00	1.85E-05	0.00E+00	0.00E+00	1.86E-05
147	ALL	630750	4179150	NonCancer	0.00E+00	1.85E-07	1.88E-05	0.00E+00	0.00E+00	1.88E-05	1.85E-07	0.00E+00	1.85E-07	0.00E+00	0.00E+00	1.88E-05	0.00E+00	0.00E+00	1.88E-05
148	ALL	630850	4179150	NonCancer	0.00E+00	1.82E-07	1.85E-05	0.00E+00	0.00E+00	1.85E-05	1.82E-07	0.00E+00	1.82E-07	0.00E+00	0.00E+00	1.85E-05	0.00E+00	0.00E+00	1.85E-05
149	ALL	630950	4179150	NonCancer	0.00E+00	2.22E-07	2.25E-05	0.00E+00	0.00E+00	2.26E-05	2.22E-07	0.00E+00	2.22E-07	0.00E+00	0.00E+00	2.25E-05	0.00E+00	0.00E+00	2.26E-05
150	ALL	631050	4179150	NonCancer	0.00E+00	2.29E-07	2.33E-05	0.00E+00	0.00E+00	2.34E-05	2.29E-07	0.00E+00	2.29E-07	0.00E+00	0.00E+00	2.33E-05	0.00E+00	0.00E+00	2.34E-05
151	ALL	631150	4179150	NonCancer	0.00E+00	2.27E-07	2.30E-05	0.00E+00	0.00E+00	2.31E-05	2.27E-07	0.00E+00	2.27E-07	0.00E+00	0.00E+00	2.30E-05	0.00E+00	0.00E+00	2.31E-05
152	ALL	631250	4179150	NonCancer	0.00E+00	2.39E-07	2.43E-05	0.00E+00	0.00E+00	2.44E-05	2.39E-07	0.00E+00	2.39E-07	0.00E+00	0.00E+00	2.43E-05	0.00E+00	0.00E+00	2.44E-05
153	ALL	631350	4179150	NonCancer	0.00E+00	2.39E-07	2.42E-05	0.00E+00	0.00E+00	2.43E-05	2.39E-07	0.00E+00	2.39E-07	0.00E+00	0.00E+00	2.42E-05	0.00E+00	0.00E+00	2.43E-05
154	ALL	631450	4179150	NonCancer	0.00E+00	2.48E-07	2.51E-05	0.00E+00	0.00E+00	2.52E-05	2.48E-07	0.00E+00	2.48E-07	0.00E+00	0.00E+00	2.51E-05	0.00E+00	0.00E+00	2.52E-05
155	ALL	631550	4179150	NonCancer	0.00E+00	2.47E-07	2.50E-05	0.00E+00	0.00E+00	2.51E-05	2.47E-07	0.00E+00	2.47E-07	0.00E+00	0.00E+00	2.50E-05	0.00E+00	0.00E+00	2.51E-05
156	ALL	631650	4179150	NonCancer	0.00E+00	2.41E-07	2.45E-05	0.00E+00	0.00E+00	2.46E-05	2.41E-07	0.00E+00	2.41E-07	0.00E+00	0.00E+00	2.45E-05	0.00E+00	0.00E+00	2.46E-05
157	ALL	631750	4179150	NonCancer	0.00E+00	2.54E-07	2.57E-05	0.00E+00	0.00E+00	2.58E-05	2.54E-07	0.00E+00	2.54E-07	0.00E+00	0.00E+00	2.57E-05	0.00E+00	0.00E+00	2.58E-05
158	ALL	631850	4179150	NonCancer	0.00E+00	2.60E-07	2.63E-05	0.00E+00	0.00E+00	2.64E-05	2.60E-07	0.00E+00	2.60E-07	0.00E+00	0.00E+00	2.63E-05	0.00E+00	0.00E+00	2.64E-05
159	ALL	631950	4179150	NonCancer	0.00E+00	2.61E-07	2.64E-05	0.00E+00	0.00E+00	2.65E-05	2.61E-07	0.00E+00	2.61E-07	0.00E+00	0.00E+00	2.64E-05	0.00E+00	0.00E+00	2.65E-05
160	ALL	632050	4179150	NonCancer	0.00E+00	3.00E-07	3.04E-05	0.00E+00	0.00E+00	3.05E-05	3.00E-07	0.00E+00	3.00E-07	0.00E+00	0.00E+00	3.04E-05	0.00E+00	0.00E+00	3.05E-05
161	ALL	632150	4179150	NonCancer	0.00E+00	2.66E-07	2.69E-05	0.00E+00	0.00E+00	2.70E-05	2.66E-07	0.00E+00	2.66E-07	0.00E+00	0.00E+00	2.69E-05	0.00E+00	0.00E+00	2.70E-05
162	ALL	630850	4179250	NonCancer	0.00E+00	2.00E-07	2.03E-05	0.00E+00	0.00E+00	2.03E-05	2.00E-07	0.00E+00	2.00E-07	0.00E+00	0.00E+00	2.03E-05	0.00E+00	0.00E+00	2.03E-05
163	ALL	630950	4179250	NonCancer	0.00E+00	2.21E-07	2.24E-05	0.00E+00	0.00E+00	2.25E-05	2.21E-07	0.00E+00	2.21E-07	0.00E+00	0.00E+00	2.24E-05	0.00E+00	0.00E+00	2.25E-05

164	ALL	631050	4177625	NonCancer	0.00E+00	3.94E-07	3.99E-05	0.00E+00	0.00E+00	4.01E-05	3.94E-07	0.00E+00	3.94E-07	0.00E+00	0.00E+00	3.99E-05	0.00E+00	0.00E+00	4.01E-05
165	ALL	631100	4177725	NonCancer	0.00E+00	3.98E-07	4.03E-05	0.00E+00	0.00E+00	4.05E-05	3.98E-07	0.00E+00	3.98E-07	0.00E+00	0.00E+00	4.03E-05	0.00E+00	0.00E+00	4.05E-05
166	ALL	631100	4177825	NonCancer	0.00E+00	3.40E-07	3.44E-05	0.00E+00	0.00E+00	3.46E-05	3.40E-07	0.00E+00	3.40E-07	0.00E+00	0.00E+00	3.44E-05	0.00E+00	0.00E+00	3.46E-05
167	ALL	631350	4178225	NonCancer	0.00E+00	3.28E-07	3.33E-05	0.00E+00	0.00E+00	3.34E-05	3.28E-07	0.00E+00	3.28E-07	0.00E+00	0.00E+00	3.33E-05	0.00E+00	0.00E+00	3.34E-05
168	ALL	631400	4178225	NonCancer	0.00E+00	3.19E-07	3.24E-05	0.00E+00	0.00E+00	3.25E-05	3.19E-07	0.00E+00	3.19E-07	0.00E+00	0.00E+00	3.24E-05	0.00E+00	0.00E+00	3.25E-05
169	ALL	631450	4178225	NonCancer	0.00E+00	3.47E-07	3.52E-05	0.00E+00	0.00E+00	3.53E-05	3.47E-07	0.00E+00	3.47E-07	0.00E+00	0.00E+00	3.52E-05	0.00E+00	0.00E+00	3.53E-05
170	ALL	631500	4178225	NonCancer	0.00E+00	3.81E-07	3.86E-05	0.00E+00	0.00E+00	3.88E-05	3.81E-07	0.00E+00	3.81E-07	0.00E+00	0.00E+00	3.86E-05	0.00E+00	0.00E+00	3.88E-05
171	ALL	631100	4178275	NonCancer	0.00E+00	2.76E-07	2.79E-05	0.00E+00	0.00E+00	2.81E-05	2.76E-07	0.00E+00	2.76E-07	0.00E+00	0.00E+00	2.79E-05	0.00E+00	0.00E+00	2.81E-05
172	ALL	631150	4178275	NonCancer	0.00E+00	2.81E-07	2.85E-05	0.00E+00	0.00E+00	2.86E-05	2.81E-07	0.00E+00	2.81E-07	0.00E+00	0.00E+00	2.85E-05	0.00E+00	0.00E+00	2.86E-05
173	ALL	631200	4178275	NonCancer	0.00E+00	2.75E-07	2.79E-05	0.00E+00	0.00E+00	2.80E-05	2.75E-07	0.00E+00	2.75E-07	0.00E+00	0.00E+00	2.79E-05	0.00E+00	0.00E+00	2.80E-05
174	ALL	631250	4178275	NonCancer	0.00E+00	2.88E-07	2.92E-05	0.00E+00	0.00E+00	2.93E-05	2.88E-07	0.00E+00	2.88E-07	0.00E+00	0.00E+00	2.92E-05	0.00E+00	0.00E+00	2.93E-05
175	ALL	631300	4178275	NonCancer	0.00E+00	3.06E-07	3.10E-05	0.00E+00	0.00E+00	3.12E-05	3.06E-07	0.00E+00	3.06E-07	0.00E+00	0.00E+00	3.10E-05	0.00E+00	0.00E+00	3.12E-05
176	ALL	631350	4178275	NonCancer	0.00E+00	3.09E-07	3.13E-05	0.00E+00	0.00E+00	3.14E-05	3.09E-07	0.00E+00	3.09E-07	0.00E+00	0.00E+00	3.13E-05	0.00E+00	0.00E+00	3.14E-05
177	ALL	631400	4178275	NonCancer	0.00E+00	3.17E-07	3.21E-05	0.00E+00	0.00E+00	3.22E-05	3.17E-07	0.00E+00	3.17E-07	0.00E+00	0.00E+00	3.21E-05	0.00E+00	0.00E+00	3.22E-05
178	ALL	631450	4178275	NonCancer	0.00E+00	3.56E-07	3.61E-05	0.00E+00	0.00E+00	3.62E-05	3.56E-07	0.00E+00	3.56E-07	0.00E+00	0.00E+00	3.61E-05	0.00E+00	0.00E+00	3.62E-05
179	ALL	631500	4178275	NonCancer	0.00E+00	3.72E-07	3.77E-05	0.00E+00	0.00E+00	3.79E-05	3.72E-07	0.00E+00	3.72E-07	0.00E+00	0.00E+00	3.77E-05	0.00E+00	0.00E+00	3.79E-05
180	ALL	630950	4178325	NonCancer	0.00E+00	2.75E-07	2.79E-05	0.00E+00	0.00E+00	2.80E-05	2.75E-07	0.00E+00	2.75E-07	0.00E+00	0.00E+00	2.79E-05	0.00E+00	0.00E+00	2.80E-05
181	ALL	631100	4178325	NonCancer	0.00E+00	2.72E-07	2.76E-05	0.00E+00	0.00E+00	2.77E-05	2.72E-07	0.00E+00	2.72E-07	0.00E+00	0.00E+00	2.76E-05	0.00E+00	0.00E+00	2.77E-05
182	ALL	631150	4178325	NonCancer	0.00E+00	2.68E-07	2.71E-05	0.00E+00	0.00E+00	2.72E-05	2.68E-07	0.00E+00	2.68E-07	0.00E+00	0.00E+00	2.71E-05	0.00E+00	0.00E+00	2.72E-05
183	ALL	631200	4178325	NonCancer	0.00E+00	2.77E-07	2.81E-05	0.00E+00	0.00E+00	2.82E-05	2.77E-07	0.00E+00	2.77E-07	0.00E+00	0.00E+00	2.81E-05	0.00E+00	0.00E+00	2.82E-05
184	ALL	631250	4178325	NonCancer	0.00E+00	2.85E-07	2.89E-05	0.00E+00	0.00E+00	2.90E-05	2.85E-07	0.00E+00	2.85E-07	0.00E+00	0.00E+00	2.89E-05	0.00E+00	0.00E+00	2.90E-05
185	ALL	631300	4178325	NonCancer	0.00E+00	2.96E-07	3.00E-05	0.00E+00	0.00E+00	3.01E-05	2.96E-07	0.00E+00	2.96E-07	0.00E+00	0.00E+00	3.00E-05	0.00E+00	0.00E+00	3.01E-05
186	ALL	631400	4178325	NonCancer	0.00E+00	3.30E-07	3.34E-05	0.00E+00	0.00E+00	3.36E-05	3.30E-07	0.00E+00	3.30E-07	0.00E+00	0.00E+00	3.34E-05	0.00E+00	0.00E+00	3.36E-05
187	ALL	631450	4178325	NonCancer	0.00E+00	3.55E-07	3.60E-05	0.00E+00	0.00E+00	3.62E-05	3.55E-07	0.00E+00	3.55E-07	0.00E+00	0.00E+00	3.60E-05	0.00E+00	0.00E+00	3.62E-05
188	ALL	631500	4178325	NonCancer	0.00E+00	3.57E-07	3.62E-05	0.00E+00	0.00E+00	3.63E-05	3.57E-07	0.00E+00	3.57E-07	0.00E+00	0.00E+00	3.62E-05	0.00E+00	0.00E+00	3.63E-05
189	ALL	630950	4178375	NonCancer	0.00E+00	2.54E-07	2.57E-05	0.00E+00	0.00E+00	2.59E-05	2.54E-07	0.00E+00	2.54E-07	0.00E+00	0.00E+00	2.57E-05	0.00E+00	0.00E+00	2.59E-05
190	ALL	631200	4178375	NonCancer	0.00E+00	2.72E-07	2.76E-05	0.00E+00	0.00E+00	2.77E-05	2.72E-07	0.00E+00	2.72E-07	0.00E+00	0.00E+00	2.76E-05	0.00E+00	0.00E+00	2.77E-05
191	ALL	631300	4178375	NonCancer	0.00E+00	2.78E-07	2.82E-05	0.00E+00	0.00E+00	2.83E-05	2.78E-07	0.00E+00	2.78E-07	0.00E+00	0.00E+00	2.82E-05	0.00E+00	0.00E+00	2.83E-05
192	ALL	631400	4178375	NonCancer	0.00E+00	3.35E-07	3.40E-05	0.00E+00	0.00E+00	3.41E-05	3.35E-07	0.00E+00	3.35E-07	0.00E+00	0.00E+00	3.40E-05	0.00E+00	0.00E+00	3.41E-05
193	ALL	631450	4178375	NonCancer	0.00E+00	3.46E-07	3.51E-05	0.00E+00	0.00E+00	3.52E-05	3.46E-07	0.00E+00	3.46E-07	0.00E+00	0.00E+00	3.51E-05	0.00E+00	0.00E+00	3.52E-05
194	ALL	631500	4178375	NonCancer	0.00E+00	3.50E-07	3.55E-05	0.00E+00	0.00E+00	3.56E-05	3.50E-07	0.00E+00	3.50E-07	0.00E+00	0.00E+00	3.55E-05	0.00E+00	0.00E+00	3.56E-05
195	ALL	630800	4178425	NonCancer	0.00E+00	2.76E-07	2.79E-05	0.00E+00	0.00E+00	2.81E-05	2.76E-07	0.00E+00	2.76E-07	0.00E+00	0.00E+00	2.79E-05	0.00E+00	0.00E+00	2.81E-05
196	ALL	630850	4178425	NonCancer	0.00E+00	2.73E-07	2.76E-05	0.00E+00	0.00E+00	2.77E-05	2.73E-07	0.00E+00	2.73E-07	0.00E+00	0.00E+00	2.76E-05	0.00E+00	0.00E+00	2.77E-05
197	ALL	631050	4178425	NonCancer	0.00E+00	2.56E-07	2.60E-05	0.00E+00	0.00E+00	2.61E-05	2.56E-07	0.00E+00	2.56E-07	0.00E+00	0.00E+00	2.60E-05	0.00E+00	0.00E+00	2.61E-05
198	ALL	631200	4178425	NonCancer	0.00E+00	2.65E-07	2.68E-05	0.00E+00	0.00E+00	2.69E-05	2.65E-07	0.00E+00	2.65E-07	0.00E+00	0.00E+00	2.68E-05	0.00E+00	0.00E+00	2.69E-05
199	ALL	631250	4178425	NonCancer	0.00E+00	2.69E-07	2.73E-05	0.00E+00	0.00E+00	2.74E-05	2.69E-07	0.00E+00	2.69E-07	0.00E+00	0.00E+00	2.73E-05	0.00E+00	0.00E+00	2.74E-05
200	ALL	631300	4178425	NonCancer	0.00E+00	2.79E-07	2.82E-05	0.00E+00	0.00E+00	2.83E-05	2.79E-07	0.00E+00	2.79E-07	0.00E+00	0.00E+00	2.82E-05	0.00E+00	0.00E+00	2.83E-05
201	ALL	630650	4178475	NonCancer	0.00E+00	2.34E-07	2.37E-05	0.00E+00	0.00E+00	2.38E-05	2.34E-07	0.00E+00	2.34E-07	0.00E+00	0.00E+00	2.37E-05	0.00E+00	0.00E+00	2.38E-05
202	ALL	630800	4178475	NonCancer	0.00E+00	2.70E-07	2.74E-05	0.00E+00	0.00E+00	2.75E-05	2.70E-07	0.00E+00	2.70E-07	0.00E+00	0.00E+00	2.74E-05	0.00E+00	0.00E+00	2.75E-05
203	ALL	630850	4178475	NonCancer	0.00E+00	2.57E-07	2.60E-05	0.00E+00	0.00E+00	2.61E-05	2.57E-07	0.00E+00	2.57E-07	0.00E+00	0.00E+00	2.60E-05	0.00E+00	0.00E+00	2.61E-05
204	ALL	631050	4178475	NonCancer	0.00E+00	2.45E-07	2.48E-05	0.00E+00	0.00E+00	2.49E-05	2.45E-07	0.00E+00	2.45E-07	0.00E+00	0.00E+00	2.48E-05	0.00E+00	0.00E+00	2.49E-05
205	ALL	631200	4178475	NonCancer	0.00E+00	2.59E-07	2.62E-05	0.00E+00	0.00E+00	2.63E-05	2.59E-07	0.00E+00	2.59E-07	0.00E+00	0.00E+00	2.62E-05	0.00E+00	0.00E+00	2.63E-05
206	ALL	631250	4178475	NonCancer	0.00E+00	2.54E-07	2.57E-05	0.00E+00	0.00E+00	2.59E-05	2.54E-07	0.00E+00	2.54E-07	0.00E+00	0.00E+00	2.57E-05	0.00E+00	0.00E+00	2.59E-05
207	ALL	631300	4178475	NonCancer	0.00E+00	2.92E-07	2.96E-05	0.00E+00	0.00E+00	2.97E-05	2.92E-07	0.00E+00	2.92E-07	0.00E+00	0.00E+00	2.96E-05	0.00E+00	0.00E+00	2.97E-05
208	ALL	631450	4178475	NonCancer	0.00E+00	3.28E-07	3.32E-05	0.00E+00	0.00E+00	3.34E-05	3.28E-07	0.00E+00	3.28E-07	0.00E+00	0.00E+00	3.32E-05	0.00E+00	0.00E+00	3.34E-05
209	ALL	631500	4178475	NonCancer	0.00E+00	3.17E-07	3.22E-05	0.00E+00	0.00E+00	3.23E-05	3.17E-07	0.00E+00	3.17E-07	0.00E+00	0.00E+00	3.22E-05	0.00E+00	0.00E+00	3.23E-05
210	ALL	630550	4178525	NonCancer	0.00E+00	2.18E-07	2.21E-05	0.00E+00	0.00E+00	2.22E-05	2.18E-07	0.00E+00	2.18E-07	0.00E+00	0.00E+00	2.21E-05	0.00E+00	0.00E+00	2.22E-05
211	ALL	630600	4178525	NonCancer	0.00E+00	2.25E-07	2.28E-05	0.00E+00	0.00E+00	2.29E-05	2.25E-07	0.00E+00	2.25E-07	0.00E+00	0.00E+00	2.28E-05	0.00E+00	0.00E+00	2.29E-05
212	ALL	630650	4178525	NonCancer	0.00E+00	2.49E-07	2.52E-05	0.00E+00	0.00E+00	2.53E-05	2.49E-07	0.00E+00	2.49E-07	0.00E+00	0.00E+00	2.52E-05	0.00E+00	0.00E+00	2.53E-05
213	ALL	630700	4178525	NonCancer	0.00E+00	2.64E-07	2.68E-05	0.00E+00	0.00E+00	2.69E-05	2.64E-07	0.00E+00	2.64E-07	0.00E+00	0.00E+00	2.68E-05	0.00E+00	0.00E+00	2.69E-05
214	ALL	630750	4178525	NonCancer	0.00E+00	2.67E-07	2.71E-05	0.00E+00	0.00E+00	2.72E-05	2.67E-07	0.00E+00	2.67E-07	0.00E+00	0.00E+00	2.71E-05	0.00E+00	0.00E+00	2.72E-05
215	ALL	630950	4178525	NonCancer	0.00E+00	2.42E-07	2.45E-05	0.00E+00	0.00E+00	2.46E-05	2.42E-07	0.00E+00	2.42E-07	0.00E+00	0.00E+00	2.45E-05	0.00E+00	0.00E+00	2.46E-05
216	ALL	631050	4178525	NonCancer	0.00E+00	2.43E-07	2.46E-05	0.00E+00	0.00E+00	2.47E-05	2.43E-07	0.00E+00	2.43E-07	0.00E+00	0.00E+00	2.46E-05	0.00E+00	0.00E+00	2.47E-05
217	ALL	631200	4178525	NonCancer	0.00E+00	2.50E-07	2.53E-05	0.00E+00	0.00E+00	2.54E-05	2.50E-07	0.00E+00	2.50E-07	0.00E+00	0.00E+00	2.53E-05	0.00E+00	0.00E+00	2.54E-05
218	ALL	631250	4178525	NonCancer	0.00E+00	2.70E-07	2.73E-05	0.00E+00	0.00E+00	2.74E-05	2.70E-07	0.00E+00	2.70E-07	0.00E+00	0.00E+00	2.73E-05	0.00E+00	0.00E+00	2.74E-05

219	ALL	631300	4178525	NonCancer	0.00E+00	2.99E-07	3.03E-05	0.00E+00	0.00E+00	3.05E-05	2.99E-07	0.00E+00	2.99E-07	0.00E+00	0.00E+00	3.03E-05	0.00E+00	0.00E+00	3.05E-05
220	ALL	631350	4178525	NonCancer	0.00E+00	3.14E-07	3.18E-05	0.00E+00	0.00E+00	3.20E-05	3.14E-07	0.00E+00	3.14E-07	0.00E+00	0.00E+00	3.18E-05	0.00E+00	0.00E+00	3.20E-05
221	ALL	631400	4178525	NonCancer	0.00E+00	3.15E-07	3.20E-05	0.00E+00	0.00E+00	3.21E-05	3.15E-07	0.00E+00	3.15E-07	0.00E+00	0.00E+00	3.20E-05	0.00E+00	0.00E+00	3.21E-05
222	ALL	631450	4178525	NonCancer	0.00E+00	3.16E-07	3.20E-05	0.00E+00	0.00E+00	3.21E-05	3.16E-07	0.00E+00	3.16E-07	0.00E+00	0.00E+00	3.20E-05	0.00E+00	0.00E+00	3.21E-05
223	ALL	631500	4178525	NonCancer	0.00E+00	3.18E-07	3.23E-05	0.00E+00	0.00E+00	3.24E-05	3.18E-07	0.00E+00	3.18E-07	0.00E+00	0.00E+00	3.23E-05	0.00E+00	0.00E+00	3.24E-05
224	ALL	630500	4178575	NonCancer	0.00E+00	2.12E-07	2.14E-05	0.00E+00	0.00E+00	2.15E-05	2.12E-07	0.00E+00	2.12E-07	0.00E+00	0.00E+00	2.14E-05	0.00E+00	0.00E+00	2.15E-05
225	ALL	630550	4178575	NonCancer	0.00E+00	2.16E-07	2.19E-05	0.00E+00	0.00E+00	2.20E-05	2.16E-07	0.00E+00	2.16E-07	0.00E+00	0.00E+00	2.19E-05	0.00E+00	0.00E+00	2.20E-05
226	ALL	630600	4178575	NonCancer	0.00E+00	2.42E-07	2.45E-05	0.00E+00	0.00E+00	2.46E-05	2.42E-07	0.00E+00	2.42E-07	0.00E+00	0.00E+00	2.45E-05	0.00E+00	0.00E+00	2.46E-05
227	ALL	630650	4178575	NonCancer	0.00E+00	2.57E-07	2.60E-05	0.00E+00	0.00E+00	2.61E-05	2.57E-07	0.00E+00	2.57E-07	0.00E+00	0.00E+00	2.60E-05	0.00E+00	0.00E+00	2.61E-05
228	ALL	630700	4178575	NonCancer	0.00E+00	2.63E-07	2.67E-05	0.00E+00	0.00E+00	2.68E-05	2.63E-07	0.00E+00	2.63E-07	0.00E+00	0.00E+00	2.67E-05	0.00E+00	0.00E+00	2.68E-05
229	ALL	630750	4178575	NonCancer	0.00E+00	2.57E-07	2.60E-05	0.00E+00	0.00E+00	2.61E-05	2.57E-07	0.00E+00	2.57E-07	0.00E+00	0.00E+00	2.60E-05	0.00E+00	0.00E+00	2.61E-05
230	ALL	630800	4178575	NonCancer	0.00E+00	2.37E-07	2.41E-05	0.00E+00	0.00E+00	2.42E-05	2.37E-07	0.00E+00	2.37E-07	0.00E+00	0.00E+00	2.41E-05	0.00E+00	0.00E+00	2.42E-05
231	ALL	630850	4178575	NonCancer	0.00E+00	2.32E-07	2.35E-05	0.00E+00	0.00E+00	2.36E-05	2.32E-07	0.00E+00	2.32E-07	0.00E+00	0.00E+00	2.35E-05	0.00E+00	0.00E+00	2.36E-05
232	ALL	631000	4178575	NonCancer	0.00E+00	2.32E-07	2.35E-05	0.00E+00	0.00E+00	2.36E-05	2.32E-07	0.00E+00	2.32E-07	0.00E+00	0.00E+00	2.35E-05	0.00E+00	0.00E+00	2.36E-05
233	ALL	631050	4178575	NonCancer	0.00E+00	2.42E-07	2.46E-05	0.00E+00	0.00E+00	2.46E-05	2.42E-07	0.00E+00	2.42E-07	0.00E+00	0.00E+00	2.46E-05	0.00E+00	0.00E+00	2.46E-05
234	ALL	631200	4178575	NonCancer	0.00E+00	2.48E-07	2.51E-05	0.00E+00	0.00E+00	2.52E-05	2.48E-07	0.00E+00	2.48E-07	0.00E+00	0.00E+00	2.51E-05	0.00E+00	0.00E+00	2.52E-05
235	ALL	631250	4178575	NonCancer	0.00E+00	2.80E-07	2.84E-05	0.00E+00	0.00E+00	2.85E-05	2.80E-07	0.00E+00	2.80E-07	0.00E+00	0.00E+00	2.84E-05	0.00E+00	0.00E+00	2.85E-05
236	ALL	631300	4178575	NonCancer	0.00E+00	3.01E-07	3.05E-05	0.00E+00	0.00E+00	3.06E-05	3.01E-07	0.00E+00	3.01E-07	0.00E+00	0.00E+00	3.05E-05	0.00E+00	0.00E+00	3.06E-05
237	ALL	631350	4178575	NonCancer	0.00E+00	3.05E-07	3.09E-05	0.00E+00	0.00E+00	3.11E-05	3.05E-07	0.00E+00	3.05E-07	0.00E+00	0.00E+00	3.09E-05	0.00E+00	0.00E+00	3.11E-05
238	ALL	631400	4178575	NonCancer	0.00E+00	3.09E-07	3.13E-05	0.00E+00	0.00E+00	3.14E-05	3.09E-07	0.00E+00	3.09E-07	0.00E+00	0.00E+00	3.13E-05	0.00E+00	0.00E+00	3.14E-05
239	ALL	631450	4178575	NonCancer	0.00E+00	2.99E-07	3.03E-05	0.00E+00	0.00E+00	3.04E-05	2.99E-07	0.00E+00	2.99E-07	0.00E+00	0.00E+00	3.03E-05	0.00E+00	0.00E+00	3.04E-05
240	ALL	631500	4178575	NonCancer	0.00E+00	3.16E-07	3.21E-05	0.00E+00	0.00E+00	3.22E-05	3.16E-07	0.00E+00	3.16E-07	0.00E+00	0.00E+00	3.21E-05	0.00E+00	0.00E+00	3.22E-05
241	ALL	630500	4178625	NonCancer	0.00E+00	2.09E-07	2.12E-05	0.00E+00	0.00E+00	2.13E-05	2.09E-07	0.00E+00	2.09E-07	0.00E+00	0.00E+00	2.12E-05	0.00E+00	0.00E+00	2.13E-05
242	ALL	630550	4178625	NonCancer	0.00E+00	2.34E-07	2.37E-05	0.00E+00	0.00E+00	2.38E-05	2.34E-07	0.00E+00	2.34E-07	0.00E+00	0.00E+00	2.37E-05	0.00E+00	0.00E+00	2.38E-05
243	ALL	630600	4178625	NonCancer	0.00E+00	2.52E-07	2.55E-05	0.00E+00	0.00E+00	2.56E-05	2.52E-07	0.00E+00	2.52E-07	0.00E+00	0.00E+00	2.55E-05	0.00E+00	0.00E+00	2.56E-05
244	ALL	630650	4178625	NonCancer	0.00E+00	2.58E-07	2.62E-05	0.00E+00	0.00E+00	2.63E-05	2.58E-07	0.00E+00	2.58E-07	0.00E+00	0.00E+00	2.62E-05	0.00E+00	0.00E+00	2.63E-05
245	ALL	630700	4178625	NonCancer	0.00E+00	2.55E-07	2.58E-05	0.00E+00	0.00E+00	2.60E-05	2.55E-07	0.00E+00	2.55E-07	0.00E+00	0.00E+00	2.58E-05	0.00E+00	0.00E+00	2.60E-05
246	ALL	630750	4178625	NonCancer	0.00E+00	2.40E-07	2.43E-05	0.00E+00	0.00E+00	2.44E-05	2.40E-07	0.00E+00	2.40E-07	0.00E+00	0.00E+00	2.43E-05	0.00E+00	0.00E+00	2.44E-05
247	ALL	630800	4178625	NonCancer	0.00E+00	2.25E-07	2.28E-05	0.00E+00	0.00E+00	2.29E-05	2.25E-07	0.00E+00	2.25E-07	0.00E+00	0.00E+00	2.28E-05	0.00E+00	0.00E+00	2.29E-05
248	ALL	630850	4178625	NonCancer	0.00E+00	2.26E-07	2.29E-05	0.00E+00	0.00E+00	2.30E-05	2.26E-07	0.00E+00	2.26E-07	0.00E+00	0.00E+00	2.29E-05	0.00E+00	0.00E+00	2.30E-05
249	ALL	631000	4178625	NonCancer	0.00E+00	2.34E-07	2.37E-05	0.00E+00	0.00E+00	2.38E-05	2.34E-07	0.00E+00	2.34E-07	0.00E+00	0.00E+00	2.37E-05	0.00E+00	0.00E+00	2.38E-05
250	ALL	631050	4178625	NonCancer	0.00E+00	2.37E-07	2.40E-05	0.00E+00	0.00E+00	2.41E-05	2.37E-07	0.00E+00	2.37E-07	0.00E+00	0.00E+00	2.40E-05	0.00E+00	0.00E+00	2.41E-05
251	ALL	631100	4178625	NonCancer	0.00E+00	2.38E-07	2.41E-05	0.00E+00	0.00E+00	2.42E-05	2.38E-07	0.00E+00	2.38E-07	0.00E+00	0.00E+00	2.41E-05	0.00E+00	0.00E+00	2.42E-05
252	ALL	631150	4178625	NonCancer	0.00E+00	2.35E-07	2.38E-05	0.00E+00	0.00E+00	2.39E-05	2.35E-07	0.00E+00	2.35E-07	0.00E+00	0.00E+00	2.38E-05	0.00E+00	0.00E+00	2.39E-05
253	ALL	631200	4178625	NonCancer	0.00E+00	2.61E-07	2.64E-05	0.00E+00	0.00E+00	2.65E-05	2.61E-07	0.00E+00	2.61E-07	0.00E+00	0.00E+00	2.64E-05	0.00E+00	0.00E+00	2.65E-05
254	ALL	631250	4178625	NonCancer	0.00E+00	2.86E-07	2.90E-05	0.00E+00	0.00E+00	2.91E-05	2.86E-07	0.00E+00	2.86E-07	0.00E+00	0.00E+00	2.90E-05	0.00E+00	0.00E+00	2.91E-05
255	ALL	631300	4178625	NonCancer	0.00E+00	2.97E-07	3.01E-05	0.00E+00	0.00E+00	3.02E-05	2.97E-07	0.00E+00	2.97E-07	0.00E+00	0.00E+00	3.01E-05	0.00E+00	0.00E+00	3.02E-05
256	ALL	631350	4178625	NonCancer	0.00E+00	2.99E-07	3.03E-05	0.00E+00	0.00E+00	3.04E-05	2.99E-07	0.00E+00	2.99E-07	0.00E+00	0.00E+00	3.03E-05	0.00E+00	0.00E+00	3.04E-05
257	ALL	631400	4178625	NonCancer	0.00E+00	2.98E-07	3.02E-05	0.00E+00	0.00E+00	3.03E-05	2.98E-07	0.00E+00	2.98E-07	0.00E+00	0.00E+00	3.02E-05	0.00E+00	0.00E+00	3.03E-05
258	ALL	631450	4178625	NonCancer	0.00E+00	3.01E-07	3.05E-05	0.00E+00	0.00E+00	3.06E-05	3.01E-07	0.00E+00	3.01E-07	0.00E+00	0.00E+00	3.05E-05	0.00E+00	0.00E+00	3.06E-05
259	ALL	631500	4178625	NonCancer	0.00E+00	3.09E-07	3.13E-05	0.00E+00	0.00E+00	3.15E-05	3.09E-07	0.00E+00	3.09E-07	0.00E+00	0.00E+00	3.13E-05	0.00E+00	0.00E+00	3.15E-05
260	ALL	631100	4175700	NonCancer	0.00E+00	1.09E-06	1.10E-04	0.00E+00	0.00E+00	1.11E-04	1.09E-06	0.00E+00	1.09E-06	0.00E+00	0.00E+00	1.10E-04	0.00E+00	0.00E+00	1.11E-04
261	ALL	631150	4175700	NonCancer	0.00E+00	1.13E-06	1.15E-04	0.00E+00	0.00E+00	1.15E-04	1.13E-06	0.00E+00	1.13E-06	0.00E+00	0.00E+00	1.15E-04	0.00E+00	0.00E+00	1.15E-04
262	ALL	631200	4175700	NonCancer	0.00E+00	1.19E-06	1.20E-04	0.00E+00	0.00E+00	1.21E-04	1.19E-06	0.00E+00	1.19E-06	0.00E+00	0.00E+00	1.20E-04	0.00E+00	0.00E+00	1.21E-04
263	ALL	631250	4175700	NonCancer	0.00E+00	1.23E-06	1.25E-04	0.00E+00	0.00E+00	1.26E-04	1.23E-06	0.00E+00	1.23E-06	0.00E+00	0.00E+00	1.25E-04	0.00E+00	0.00E+00	1.26E-04
264	ALL	631100	4175750	NonCancer	0.00E+00	9.54E-07	9.67E-05	0.00E+00	0.00E+00	9.71E-05	9.54E-07	0.00E+00	9.54E-07	0.00E+00	0.00E+00	9.67E-05	0.00E+00	0.00E+00	9.71E-05
265	ALL	631150	4175750	NonCancer	0.00E+00	9.89E-07	1.00E-04	0.00E+00	0.00E+00	1.01E-04	9.89E-07	0.00E+00	9.89E-07	0.00E+00	0.00E+00	1.00E-04	0.00E+00	0.00E+00	1.01E-04
266	ALL	629400	4179050	NonCancer	0.00E+00	1.42E-07	1.44E-05	0.00E+00	0.00E+00	1.45E-05	1.42E-07	0.00E+00	1.42E-07	0.00E+00	0.00E+00	1.44E-05	0.00E+00	0.00E+00	1.45E-05
267	ALL	629450	4179050	NonCancer	0.00E+00	1.47E-07	1.49E-05	0.00E+00	0.00E+00	1.49E-05	1.47E-07	0.00E+00	1.47E-07	0.00E+00	0.00E+00	1.49E-05	0.00E+00	0.00E+00	1.49E-05
268	ALL	629500	4179050	NonCancer	0.00E+00	1.49E-07	1.51E-05	0.00E+00	0.00E+00	1.52E-05	1.49E-07	0.00E+00	1.49E-07	0.00E+00	0.00E+00	1.51E-05	0.00E+00	0.00E+00	1.52E-05
269	ALL	629400	4179100	NonCancer	0.00E+00	1.44E-07	1.46E-05	0.00E+00	0.00E+00	1.46E-05	1.44E-07	0.00E+00	1.44E-07	0.00E+00	0.00E+00	1.46E-05	0.00E+00	0.00E+00	1.46E-05
270	ALL	629450	4179100	NonCancer	0.00E+00	1.46E-07	1.48E-05	0.00E+00	0.00E+00	1.49E-05	1.46E-07	0.00E+00	1.46E-07	0.00E+00	0.00E+00	1.48E-05	0.00E+00	0.00E+00	1.49E-05
271	ALL	629400	4179150	NonCancer	0.00E+00	1.43E-07	1.45E-05	0.00E+00	0.00E+00	1.45E-05	1.43E-07	0.00E+00	1.43E-07	0.00E+00	0.00E+00	1.45E-05	0.00E+00	0.00E+00	1.45E-05
272	ALL	629500	4179150	NonCancer	0.00E+00	1.46E-07	1.48E-05	0.00E+00	0.00E+00	1.49E-05	1.46E-07	0.00E+00	1.46E-07	0.00E+00	0.00E+00	1.48E-05	0.00E+00	0.00E+00	1.49E-05
273	ALL	629550	4179150	NonCancer	0.00E+00	1.47E-07	1.49E-05	0.00E+00	0.00E+00	1.49E-05	1.47E-07	0.00E+00	1.47E-07	0.00E+00	0.00E+00	1.49E-05	0.00E+00	0.00E+00	1.49E-05

274	ALL	629600	4179150	NonCancer	0.00E+00	1.50E-07	1.52E-05	0.00E+00	0.00E+00	1.53E-05	1.50E-07	0.00E+00	1.50E-07	0.00E+00	0.00E+00	1.52E-05	0.00E+00	0.00E+00	1.53E-05
275	ALL	629650	4179150	NonCancer	0.00E+00	1.58E-07	1.60E-05	0.00E+00	0.00E+00	1.60E-05	1.58E-07	0.00E+00	1.58E-07	0.00E+00	0.00E+00	1.60E-05	0.00E+00	0.00E+00	1.60E-05
276	ALL	629700	4179150	NonCancer	0.00E+00	1.62E-07	1.64E-05	0.00E+00	0.00E+00	1.65E-05	1.62E-07	0.00E+00	1.62E-07	0.00E+00	0.00E+00	1.64E-05	0.00E+00	0.00E+00	1.65E-05
277	ALL	629800	4179200	NonCancer	0.00E+00	1.53E-07	1.55E-05	0.00E+00	0.00E+00	1.56E-05	1.53E-07	0.00E+00	1.53E-07	0.00E+00	0.00E+00	1.55E-05	0.00E+00	0.00E+00	1.56E-05
278	ALL	629400	4179300	NonCancer	0.00E+00	1.38E-07	1.39E-05	0.00E+00	0.00E+00	1.40E-05	1.38E-07	0.00E+00	1.38E-07	0.00E+00	0.00E+00	1.39E-05	0.00E+00	0.00E+00	1.40E-05
279	ALL	629400	4179350	NonCancer	0.00E+00	1.41E-07	1.43E-05	0.00E+00	0.00E+00	1.44E-05	1.41E-07	0.00E+00	1.41E-07	0.00E+00	0.00E+00	1.43E-05	0.00E+00	0.00E+00	1.44E-05
280	ALL	634375	4175350	NonCancer	0.00E+00	2.61E-06	2.65E-04	0.00E+00	0.00E+00	2.66E-04	2.61E-06	0.00E+00	2.61E-06	0.00E+00	0.00E+00	2.65E-04	0.00E+00	0.00E+00	2.66E-04
281	ALL	634425	4175350	NonCancer	0.00E+00	2.34E-06	2.37E-04	0.00E+00	0.00E+00	2.38E-04	2.34E-06	0.00E+00	2.34E-06	0.00E+00	0.00E+00	2.37E-04	0.00E+00	0.00E+00	2.38E-04
282	ALL	635425	4175350	NonCancer	0.00E+00	4.63E-07	4.69E-05	0.00E+00	0.00E+00	4.71E-05	4.63E-07	0.00E+00	4.63E-07	0.00E+00	0.00E+00	4.69E-05	0.00E+00	0.00E+00	4.71E-05
283	ALL	635425	4175400	NonCancer	0.00E+00	5.06E-07	5.13E-05	0.00E+00	0.00E+00	5.15E-05	5.06E-07	0.00E+00	5.06E-07	0.00E+00	0.00E+00	5.13E-05	0.00E+00	0.00E+00	5.15E-05
284	ALL	635475	4175400	NonCancer	0.00E+00	4.92E-07	4.99E-05	0.00E+00	0.00E+00	5.01E-05	4.92E-07	0.00E+00	4.92E-07	0.00E+00	0.00E+00	4.99E-05	0.00E+00	0.00E+00	5.01E-05
285	ALL	634325	4175450	NonCancer	0.00E+00	2.71E-06	2.74E-04	0.00E+00	0.00E+00	2.75E-04	2.71E-06	0.00E+00	2.71E-06	0.00E+00	0.00E+00	2.74E-04	0.00E+00	0.00E+00	2.75E-04
286	ALL	634475	4175450	NonCancer	0.00E+00	2.66E-06	2.70E-04	0.00E+00	0.00E+00	2.71E-04	2.66E-06	0.00E+00	2.66E-06	0.00E+00	0.00E+00	2.70E-04	0.00E+00	0.00E+00	2.71E-04
287	ALL	634525	4175450	NonCancer	0.00E+00	2.56E-06	2.59E-04	0.00E+00	0.00E+00	2.60E-04	2.56E-06	0.00E+00	2.56E-06	0.00E+00	0.00E+00	2.59E-04	0.00E+00	0.00E+00	2.60E-04
288	ALL	634525	4175500	NonCancer	0.00E+00	1.97E-06	2.00E-04	0.00E+00	0.00E+00	2.01E-04	1.97E-06	0.00E+00	1.97E-06	0.00E+00	0.00E+00	2.00E-04	0.00E+00	0.00E+00	2.01E-04
289	ALL	634325	4175550	NonCancer	0.00E+00	2.46E-06	2.49E-04	0.00E+00	0.00E+00	2.50E-04	2.46E-06	0.00E+00	2.46E-06	0.00E+00	0.00E+00	2.49E-04	0.00E+00	0.00E+00	2.50E-04
290	ALL	634525	4175550	NonCancer	0.00E+00	2.50E-06	2.53E-04	0.00E+00	0.00E+00	2.54E-04	2.50E-06	0.00E+00	2.50E-06	0.00E+00	0.00E+00	2.53E-04	0.00E+00	0.00E+00	2.54E-04
291	ALL	634575	4175550	NonCancer	0.00E+00	2.42E-06	2.45E-04	0.00E+00	0.00E+00	2.46E-04	2.42E-06	0.00E+00	2.42E-06	0.00E+00	0.00E+00	2.45E-04	0.00E+00	0.00E+00	2.46E-04
292	ALL	634775	4175550	NonCancer	0.00E+00	1.86E-06	1.88E-04	0.00E+00	0.00E+00	1.89E-04	1.86E-06	0.00E+00	1.86E-06	0.00E+00	0.00E+00	1.88E-04	0.00E+00	0.00E+00	1.89E-04
293	ALL	634825	4175550	NonCancer	0.00E+00	1.69E-06	1.72E-04	0.00E+00	0.00E+00	1.72E-04	1.69E-06	0.00E+00	1.69E-06	0.00E+00	0.00E+00	1.72E-04	0.00E+00	0.00E+00	1.72E-04
294	ALL	634625	4175600	NonCancer	0.00E+00	2.35E-06	2.38E-04	0.00E+00	0.00E+00	2.39E-04	2.35E-06	0.00E+00	2.35E-06	0.00E+00	0.00E+00	2.38E-04	0.00E+00	0.00E+00	2.39E-04
295	ALL	634675	4175600	NonCancer	0.00E+00	2.16E-06	2.19E-04	0.00E+00	0.00E+00	2.19E-04	2.16E-06	0.00E+00	2.16E-06	0.00E+00	0.00E+00	2.19E-04	0.00E+00	0.00E+00	2.19E-04
296	ALL	634725	4175600	NonCancer	0.00E+00	1.97E-06	2.00E-04	0.00E+00	0.00E+00	2.00E-04	1.97E-06	0.00E+00	1.97E-06	0.00E+00	0.00E+00	2.00E-04	0.00E+00	0.00E+00	2.00E-04
297	ALL	634775	4175600	NonCancer	0.00E+00	1.78E-06	1.80E-04	0.00E+00	0.00E+00	1.81E-04	1.78E-06	0.00E+00	1.78E-06	0.00E+00	0.00E+00	1.80E-04	0.00E+00	0.00E+00	1.81E-04
298	ALL	634825	4175600	NonCancer	0.00E+00	1.60E-06	1.62E-04	0.00E+00	0.00E+00	1.63E-04	1.60E-06	0.00E+00	1.60E-06	0.00E+00	0.00E+00	1.62E-04	0.00E+00	0.00E+00	1.63E-04
299	ALL	634875	4175600	NonCancer	0.00E+00	1.43E-06	1.45E-04	0.00E+00	0.00E+00	1.46E-04	1.43E-06	0.00E+00	1.43E-06	0.00E+00	0.00E+00	1.45E-04	0.00E+00	0.00E+00	1.46E-04
300	ALL	634925	4175600	NonCancer	0.00E+00	1.28E-06	1.29E-04	0.00E+00	0.00E+00	1.30E-04	1.28E-06	0.00E+00	1.28E-06	0.00E+00	0.00E+00	1.29E-04	0.00E+00	0.00E+00	1.30E-04
301	ALL	635375	4175600	NonCancer	0.00E+00	4.28E-07	4.34E-05	0.00E+00	0.00E+00	4.36E-05	4.28E-07	0.00E+00	4.28E-07	0.00E+00	0.00E+00	4.34E-05	0.00E+00	0.00E+00	4.36E-05
302	ALL	634275	4175650	NonCancer	0.00E+00	3.35E-06	3.39E-04	0.00E+00	0.00E+00	3.40E-04	3.35E-06	0.00E+00	3.35E-06	0.00E+00	0.00E+00	3.39E-04	0.00E+00	0.00E+00	3.40E-04
303	ALL	634325	4175650	NonCancer	0.00E+00	3.06E-06	3.10E-04	0.00E+00	0.00E+00	3.12E-04	3.06E-06	0.00E+00	3.06E-06	0.00E+00	0.00E+00	3.10E-04	0.00E+00	0.00E+00	3.12E-04
304	ALL	634575	4175650	NonCancer	0.00E+00	1.74E-06	1.77E-04	0.00E+00	0.00E+00	1.78E-04	1.74E-06	0.00E+00	1.74E-06	0.00E+00	0.00E+00	1.77E-04	0.00E+00	0.00E+00	1.78E-04
305	ALL	634625	4175650	NonCancer	0.00E+00	1.53E-06	1.55E-04	0.00E+00	0.00E+00	1.56E-04	1.53E-06	0.00E+00	1.53E-06	0.00E+00	0.00E+00	1.55E-04	0.00E+00	0.00E+00	1.56E-04
306	ALL	634675	4175650	NonCancer	0.00E+00	1.22E-06	1.24E-04	0.00E+00	0.00E+00	1.24E-04	1.22E-06	0.00E+00	1.22E-06	0.00E+00	0.00E+00	1.24E-04	0.00E+00	0.00E+00	1.24E-04
307	ALL	634725	4175650	NonCancer	0.00E+00	1.07E-06	1.08E-04	0.00E+00	0.00E+00	1.09E-04	1.07E-06	0.00E+00	1.07E-06	0.00E+00	0.00E+00	1.08E-04	0.00E+00	0.00E+00	1.09E-04
308	ALL	634775	4175650	NonCancer	0.00E+00	9.34E-07	9.47E-05	0.00E+00	0.00E+00	9.51E-05	9.34E-07	0.00E+00	9.34E-07	0.00E+00	0.00E+00	9.47E-05	0.00E+00	0.00E+00	9.51E-05
309	ALL	634825	4175650	NonCancer	0.00E+00	8.20E-07	8.31E-05	0.00E+00	0.00E+00	8.35E-05	8.20E-07	0.00E+00	8.20E-07	0.00E+00	0.00E+00	8.31E-05	0.00E+00	0.00E+00	8.35E-05
310	ALL	634875	4175650	NonCancer	0.00E+00	7.19E-07	7.29E-05	0.00E+00	0.00E+00	7.32E-05	7.19E-07	0.00E+00	7.19E-07	0.00E+00	0.00E+00	7.29E-05	0.00E+00	0.00E+00	7.32E-05
311	ALL	634925	4175650	NonCancer	0.00E+00	6.32E-07	6.41E-05	0.00E+00	0.00E+00	6.43E-05	6.32E-07	0.00E+00	6.32E-07	0.00E+00	0.00E+00	6.41E-05	0.00E+00	0.00E+00	6.43E-05
312	ALL	634975	4175650	NonCancer	0.00E+00	5.60E-07	5.68E-05	0.00E+00	0.00E+00	5.70E-05	5.60E-07	0.00E+00	5.60E-07	0.00E+00	0.00E+00	5.68E-05	0.00E+00	0.00E+00	5.70E-05
313	ALL	635025	4175650	NonCancer	0.00E+00	4.98E-07	5.05E-05	0.00E+00	0.00E+00	5.07E-05	4.98E-07	0.00E+00	4.98E-07	0.00E+00	0.00E+00	5.05E-05	0.00E+00	0.00E+00	5.07E-05
314	ALL	635325	4175650	NonCancer	0.00E+00	3.88E-07	3.93E-05	0.00E+00	0.00E+00	3.95E-05	3.88E-07	0.00E+00	3.88E-07	0.00E+00	0.00E+00	3.93E-05	0.00E+00	0.00E+00	3.95E-05
315	ALL	635375	4175650	NonCancer	0.00E+00	3.77E-07	3.82E-05	0.00E+00	0.00E+00	3.84E-05	3.77E-07	0.00E+00	3.77E-07	0.00E+00	0.00E+00	3.82E-05	0.00E+00	0.00E+00	3.84E-05
316	ALL	634475	4175700	NonCancer	0.00E+00	8.03E-07	8.14E-05	0.00E+00	0.00E+00	8.17E-05	8.03E-07	0.00E+00	8.03E-07	0.00E+00	0.00E+00	8.14E-05	0.00E+00	0.00E+00	8.17E-05
317	ALL	634525	4175700	NonCancer	0.00E+00	6.96E-07	7.05E-05	0.00E+00	0.00E+00	7.08E-05	6.96E-07	0.00E+00	6.96E-07	0.00E+00	0.00E+00	7.05E-05	0.00E+00	0.00E+00	7.08E-05
318	ALL	634575	4175700	NonCancer	0.00E+00	6.44E-07	6.52E-05	0.00E+00	0.00E+00	6.55E-05	6.44E-07	0.00E+00	6.44E-07	0.00E+00	0.00E+00	6.52E-05	0.00E+00	0.00E+00	6.55E-05
319	ALL	634625	4175700	NonCancer	0.00E+00	6.16E-07	6.24E-05	0.00E+00	0.00E+00	6.26E-05	6.16E-07	0.00E+00	6.16E-07	0.00E+00	0.00E+00	6.24E-05	0.00E+00	0.00E+00	6.26E-05
320	ALL	634675	4175700	NonCancer	0.00E+00	5.91E-07	5.99E-05	0.00E+00	0.00E+00	6.01E-05	5.91E-07	0.00E+00	5.91E-07	0.00E+00	0.00E+00	5.99E-05	0.00E+00	0.00E+00	6.01E-05
321	ALL	634725	4175700	NonCancer	0.00E+00	5.69E-07	5.76E-05	0.00E+00	0.00E+00	5.79E-05	5.69E-07	0.00E+00	5.69E-07	0.00E+00	0.00E+00	5.76E-05	0.00E+00	0.00E+00	5.79E-05
322	ALL	634775	4175700	NonCancer	0.00E+00	5.46E-07	5.53E-05	0.00E+00	0.00E+00	5.56E-05	5.46E-07	0.00E+00	5.46E-07	0.00E+00	0.00E+00	5.53E-05	0.00E+00	0.00E+00	5.56E-05
323	ALL	634825	4175700	NonCancer	0.00E+00	5.24E-07	5.31E-05	0.00E+00	0.00E+00	5.33E-05	5.24E-07	0.00E+00	5.24E-07	0.00E+00	0.00E+00	5.31E-05	0.00E+00	0.00E+00	5.33E-05
324	ALL	634875	4175700	NonCancer	0.00E+00	5.05E-07	5.12E-05	0.00E+00	0.00E+00	5.14E-05	5.05E-07	0.00E+00	5.05E-07	0.00E+00	0.00E+00	5.12E-05	0.00E+00	0.00E+00	5.14E-05
325	ALL	634925	4175700	NonCancer	0.00E+00	4.85E-07	4.92E-05	0.00E+00	0.00E+00	4.94E-05	4.85E-07	0.00E+00	4.85E-07	0.00E+00	0.00E+00	4.92E-05	0.00E+00	0.00E+00	4.94E-05
326	ALL	634975	4175700	NonCancer	0.00E+00	4.68E-07	4.74E-05	0.00E+00	0.00E+00	4.76E-05	4.68E-07	0.00E+00	4.68E-07	0.00E+00	0.00E+00	4.74E-05	0.00E+00	0.00E+00	4.76E-05
327	ALL	635025	4175700	NonCancer	0.00E+00	4.51E-07	4.57E-05	0.00E+00	0.00E+00	4.59E-05	4.51E-07	0.00E+00	4.51E-07	0.00E+00	0.00E+00	4.57E-05	0.00E+00	0.00E+00	4.59E-05
328	ALL	635075	4175700	NonCancer	0.00E+00	4.36E-07	4.42E-05	0.00E+00	0.00E+00	4.44E-05	4.36E-07	0.00E+00	4.36E-07	0.00E+00	0.00E+00	4.42E-05	0.00E+00	0.00E+00	4.44E-05

329	ALL	635125	4175700	NonCancer	0.00E+00	4.23E-07	4.29E-05	0.00E+00	0.00E+00	4.31E-05	4.23E-07	0.00E+00	4.23E-07	0.00E+00	0.00E+00	4.29E-05	0.00E+00	0.00E+00	4.31E-05
330	ALL	634425	4175750	NonCancer	0.00E+00	7.38E-07	7.48E-05	0.00E+00	0.00E+00	7.51E-05	7.38E-07	0.00E+00	7.38E-07	0.00E+00	0.00E+00	7.48E-05	0.00E+00	0.00E+00	7.51E-05
331	ALL	634575	4175750	NonCancer	0.00E+00	6.48E-07	6.56E-05	0.00E+00	0.00E+00	6.59E-05	6.48E-07	0.00E+00	6.48E-07	0.00E+00	0.00E+00	6.56E-05	0.00E+00	0.00E+00	6.59E-05
332	ALL	634625	4175750	NonCancer	0.00E+00	6.21E-07	6.30E-05	0.00E+00	0.00E+00	6.32E-05	6.21E-07	0.00E+00	6.21E-07	0.00E+00	0.00E+00	6.30E-05	0.00E+00	0.00E+00	6.32E-05
333	ALL	634675	4175750	NonCancer	0.00E+00	5.97E-07	6.05E-05	0.00E+00	0.00E+00	6.07E-05	5.97E-07	0.00E+00	5.97E-07	0.00E+00	0.00E+00	6.05E-05	0.00E+00	0.00E+00	6.07E-05
334	ALL	634725	4175750	NonCancer	0.00E+00	5.75E-07	5.83E-05	0.00E+00	0.00E+00	5.85E-05	5.75E-07	0.00E+00	5.75E-07	0.00E+00	0.00E+00	5.83E-05	0.00E+00	0.00E+00	5.85E-05
335	ALL	634775	4175750	NonCancer	0.00E+00	5.53E-07	5.61E-05	0.00E+00	0.00E+00	5.63E-05	5.53E-07	0.00E+00	5.53E-07	0.00E+00	0.00E+00	5.61E-05	0.00E+00	0.00E+00	5.63E-05
336	ALL	634825	4175750	NonCancer	0.00E+00	5.33E-07	5.40E-05	0.00E+00	0.00E+00	5.42E-05	5.33E-07	0.00E+00	5.33E-07	0.00E+00	0.00E+00	5.40E-05	0.00E+00	0.00E+00	5.42E-05
337	ALL	634875	4175750	NonCancer	0.00E+00	5.13E-07	5.20E-05	0.00E+00	0.00E+00	5.22E-05	5.13E-07	0.00E+00	5.13E-07	0.00E+00	0.00E+00	5.20E-05	0.00E+00	0.00E+00	5.22E-05
338	ALL	634925	4175750	NonCancer	0.00E+00	4.96E-07	5.02E-05	0.00E+00	0.00E+00	5.04E-05	4.96E-07	0.00E+00	4.96E-07	0.00E+00	0.00E+00	5.02E-05	0.00E+00	0.00E+00	5.04E-05
339	ALL	634975	4175750	NonCancer	0.00E+00	4.79E-07	4.85E-05	0.00E+00	0.00E+00	4.87E-05	4.79E-07	0.00E+00	4.79E-07	0.00E+00	0.00E+00	4.85E-05	0.00E+00	0.00E+00	4.87E-05
340	ALL	635025	4175750	NonCancer	0.00E+00	4.63E-07	4.69E-05	0.00E+00	0.00E+00	4.71E-05	4.63E-07	0.00E+00	4.63E-07	0.00E+00	0.00E+00	4.69E-05	0.00E+00	0.00E+00	4.71E-05
341	ALL	635075	4175750	NonCancer	0.00E+00	4.48E-07	4.54E-05	0.00E+00	0.00E+00	4.56E-05	4.48E-07	0.00E+00	4.48E-07	0.00E+00	0.00E+00	4.54E-05	0.00E+00	0.00E+00	4.56E-05
342	ALL	635125	4175750	NonCancer	0.00E+00	4.34E-07	4.40E-05	0.00E+00	0.00E+00	4.42E-05	4.34E-07	0.00E+00	4.34E-07	0.00E+00	0.00E+00	4.40E-05	0.00E+00	0.00E+00	4.42E-05
343	ALL	635175	4175750	NonCancer	0.00E+00	4.20E-07	4.26E-05	0.00E+00	0.00E+00	4.28E-05	4.20E-07	0.00E+00	4.20E-07	0.00E+00	0.00E+00	4.26E-05	0.00E+00	0.00E+00	4.28E-05
344	ALL	635225	4175750	NonCancer	0.00E+00	4.08E-07	4.14E-05	0.00E+00	0.00E+00	4.16E-05	4.08E-07	0.00E+00	4.08E-07	0.00E+00	0.00E+00	4.14E-05	0.00E+00	0.00E+00	4.16E-05
345	ALL	634325	4175800	NonCancer	0.00E+00	7.93E-07	8.04E-05	0.00E+00	0.00E+00	8.07E-05	7.93E-07	0.00E+00	7.93E-07	0.00E+00	0.00E+00	8.04E-05	0.00E+00	0.00E+00	8.07E-05
346	ALL	634375	4175800	NonCancer	0.00E+00	7.57E-07	7.67E-05	0.00E+00	0.00E+00	7.70E-05	7.57E-07	0.00E+00	7.57E-07	0.00E+00	0.00E+00	7.67E-05	0.00E+00	0.00E+00	7.70E-05
347	ALL	634425	4175800	NonCancer	0.00E+00	7.22E-07	7.32E-05	0.00E+00	0.00E+00	7.35E-05	7.22E-07	0.00E+00	7.22E-07	0.00E+00	0.00E+00	7.32E-05	0.00E+00	0.00E+00	7.35E-05
348	ALL	634475	4175800	NonCancer	0.00E+00	6.92E-07	7.01E-05	0.00E+00	0.00E+00	7.04E-05	6.92E-07	0.00E+00	6.92E-07	0.00E+00	0.00E+00	7.01E-05	0.00E+00	0.00E+00	7.04E-05
349	ALL	634525	4175800	NonCancer	0.00E+00	6.63E-07	6.72E-05	0.00E+00	0.00E+00	6.74E-05	6.63E-07	0.00E+00	6.63E-07	0.00E+00	0.00E+00	6.72E-05	0.00E+00	0.00E+00	6.74E-05
350	ALL	634575	4175800	NonCancer	0.00E+00	6.35E-07	6.43E-05	0.00E+00	0.00E+00	6.46E-05	6.35E-07	0.00E+00	6.35E-07	0.00E+00	0.00E+00	6.43E-05	0.00E+00	0.00E+00	6.46E-05
351	ALL	634625	4175800	NonCancer	0.00E+00	6.11E-07	6.20E-05	0.00E+00	0.00E+00	6.22E-05	6.11E-07	0.00E+00	6.11E-07	0.00E+00	0.00E+00	6.20E-05	0.00E+00	0.00E+00	6.22E-05
352	ALL	634675	4175800	NonCancer	0.00E+00	5.86E-07	5.94E-05	0.00E+00	0.00E+00	5.97E-05	5.86E-07	0.00E+00	5.86E-07	0.00E+00	0.00E+00	5.94E-05	0.00E+00	0.00E+00	5.97E-05
353	ALL	634725	4175800	NonCancer	0.00E+00	5.66E-07	5.73E-05	0.00E+00	0.00E+00	5.76E-05	5.66E-07	0.00E+00	5.66E-07	0.00E+00	0.00E+00	5.73E-05	0.00E+00	0.00E+00	5.76E-05
354	ALL	634775	4175800	NonCancer	0.00E+00	5.44E-07	5.52E-05	0.00E+00	0.00E+00	5.54E-05	5.44E-07	0.00E+00	5.44E-07	0.00E+00	0.00E+00	5.52E-05	0.00E+00	0.00E+00	5.54E-05
355	ALL	634825	4175800	NonCancer	0.00E+00	5.26E-07	5.33E-05	0.00E+00	0.00E+00	5.35E-05	5.26E-07	0.00E+00	5.26E-07	0.00E+00	0.00E+00	5.33E-05	0.00E+00	0.00E+00	5.35E-05
356	ALL	634875	4175800	NonCancer	0.00E+00	5.06E-07	5.13E-05	0.00E+00	0.00E+00	5.15E-05	5.06E-07	0.00E+00	5.06E-07	0.00E+00	0.00E+00	5.13E-05	0.00E+00	0.00E+00	5.15E-05
357	ALL	634925	4175800	NonCancer	0.00E+00	4.90E-07	4.97E-05	0.00E+00	0.00E+00	4.99E-05	4.90E-07	0.00E+00	4.90E-07	0.00E+00	0.00E+00	4.97E-05	0.00E+00	0.00E+00	4.99E-05
358	ALL	634975	4175800	NonCancer	0.00E+00	4.74E-07	4.80E-05	0.00E+00	0.00E+00	4.82E-05	4.74E-07	0.00E+00	4.74E-07	0.00E+00	0.00E+00	4.80E-05	0.00E+00	0.00E+00	4.82E-05
359	ALL	635025	4175800	NonCancer	0.00E+00	4.58E-07	4.64E-05	0.00E+00	0.00E+00	4.66E-05	4.58E-07	0.00E+00	4.58E-07	0.00E+00	0.00E+00	4.64E-05	0.00E+00	0.00E+00	4.66E-05
360	ALL	635075	4175800	NonCancer	0.00E+00	4.43E-07	4.49E-05	0.00E+00	0.00E+00	4.51E-05	4.43E-07	0.00E+00	4.43E-07	0.00E+00	0.00E+00	4.49E-05	0.00E+00	0.00E+00	4.51E-05
361	ALL	635125	4175800	NonCancer	0.00E+00	4.30E-07	4.36E-05	0.00E+00	0.00E+00	4.37E-05	4.30E-07	0.00E+00	4.30E-07	0.00E+00	0.00E+00	4.36E-05	0.00E+00	0.00E+00	4.37E-05
362	ALL	635175	4175800	NonCancer	0.00E+00	4.17E-07	4.23E-05	0.00E+00	0.00E+00	4.25E-05	4.17E-07	0.00E+00	4.17E-07	0.00E+00	0.00E+00	4.23E-05	0.00E+00	0.00E+00	4.25E-05
363	ALL	635225	4175800	NonCancer	0.00E+00	4.05E-07	4.10E-05	0.00E+00	0.00E+00	4.12E-05	4.05E-07	0.00E+00	4.05E-07	0.00E+00	0.00E+00	4.10E-05	0.00E+00	0.00E+00	4.12E-05
364	ALL	635275	4175800	NonCancer	0.00E+00	3.94E-07	3.99E-05	0.00E+00	0.00E+00	4.01E-05	3.94E-07	0.00E+00	3.94E-07	0.00E+00	0.00E+00	3.99E-05	0.00E+00	0.00E+00	4.01E-05
365	ALL	635325	4175800	NonCancer	0.00E+00	3.82E-07	3.87E-05	0.00E+00	0.00E+00	3.89E-05	3.82E-07	0.00E+00	3.82E-07	0.00E+00	0.00E+00	3.87E-05	0.00E+00	0.00E+00	3.89E-05
366	ALL	634225	4175850	NonCancer	0.00E+00	8.65E-07	8.77E-05	0.00E+00	0.00E+00	8.80E-05	8.65E-07	0.00E+00	8.65E-07	0.00E+00	0.00E+00	8.77E-05	0.00E+00	0.00E+00	8.80E-05
367	ALL	634325	4175850	NonCancer	0.00E+00	7.64E-07	7.74E-05	0.00E+00	0.00E+00	7.77E-05	7.64E-07	0.00E+00	7.64E-07	0.00E+00	0.00E+00	7.74E-05	0.00E+00	0.00E+00	7.77E-05
368	ALL	634375	4175850	NonCancer	0.00E+00	7.17E-07	7.27E-05	0.00E+00	0.00E+00	7.30E-05	7.17E-07	0.00E+00	7.17E-07	0.00E+00	0.00E+00	7.27E-05	0.00E+00	0.00E+00	7.30E-05
369	ALL	634425	4175850	NonCancer	0.00E+00	6.83E-07	6.93E-05	0.00E+00	0.00E+00	6.95E-05	6.83E-07	0.00E+00	6.83E-07	0.00E+00	0.00E+00	6.93E-05	0.00E+00	0.00E+00	6.95E-05
370	ALL	634475	4175850	NonCancer	0.00E+00	6.53E-07	6.62E-05	0.00E+00	0.00E+00	6.64E-05	6.53E-07	0.00E+00	6.53E-07	0.00E+00	0.00E+00	6.62E-05	0.00E+00	0.00E+00	6.64E-05
371	ALL	634525	4175850	NonCancer	0.00E+00	6.24E-07	6.32E-05	0.00E+00	0.00E+00	6.35E-05	6.24E-07	0.00E+00	6.24E-07	0.00E+00	0.00E+00	6.32E-05	0.00E+00	0.00E+00	6.35E-05
372	ALL	634575	4175850	NonCancer	0.00E+00	5.96E-07	6.05E-05	0.00E+00	0.00E+00	6.07E-05	5.96E-07	0.00E+00	5.96E-07	0.00E+00	0.00E+00	6.05E-05	0.00E+00	0.00E+00	6.07E-05
373	ALL	634625	4175850	NonCancer	0.00E+00	5.73E-07	5.81E-05	0.00E+00	0.00E+00	5.83E-05	5.73E-07	0.00E+00	5.73E-07	0.00E+00	0.00E+00	5.81E-05	0.00E+00	0.00E+00	5.83E-05
374	ALL	634675	4175850	NonCancer	0.00E+00	5.48E-07	5.56E-05	0.00E+00	0.00E+00	5.58E-05	5.48E-07	0.00E+00	5.48E-07	0.00E+00	0.00E+00	5.56E-05	0.00E+00	0.00E+00	5.58E-05
375	ALL	634725	4175850	NonCancer	0.00E+00	5.26E-07	5.33E-05	0.00E+00	0.00E+00	5.35E-05	5.26E-07	0.00E+00	5.26E-07	0.00E+00	0.00E+00	5.33E-05	0.00E+00	0.00E+00	5.35E-05
376	ALL	634775	4175850	NonCancer	0.00E+00	5.07E-07	5.14E-05	0.00E+00	0.00E+00	5.16E-05	5.07E-07	0.00E+00	5.07E-07	0.00E+00	0.00E+00	5.14E-05	0.00E+00	0.00E+00	5.16E-05
377	ALL	634825	4175850	NonCancer	0.00E+00	4.87E-07	4.93E-05	0.00E+00	0.00E+00	4.95E-05	4.87E-07	0.00E+00	4.87E-07	0.00E+00	0.00E+00	4.93E-05	0.00E+00	0.00E+00	4.95E-05
378	ALL	634875	4175850	NonCancer	0.00E+00	4.68E-07	4.74E-05	0.00E+00	0.00E+00	4.76E-05	4.68E-07	0.00E+00	4.68E-07	0.00E+00	0.00E+00	4.74E-05	0.00E+00	0.00E+00	4.76E-05
379	ALL	634925	4175850	NonCancer	0.00E+00	4.50E-07	4.56E-05	0.00E+00	0.00E+00	4.58E-05	4.50E-07	0.00E+00	4.50E-07	0.00E+00	0.00E+00	4.56E-05	0.00E+00	0.00E+00	4.58E-05
380	ALL	634975	4175850	NonCancer	0.00E+00	4.36E-07	4.42E-05	0.00E+00	0.00E+00	4.44E-05	4.36E-07	0.00E+00	4.36E-07	0.00E+00	0.00E+00	4.42E-05	0.00E+00	0.00E+00	4.44E-05
381	ALL	635025	4175850	NonCancer	0.00E+00	4.22E-07	4.28E-05	0.00E+00	0.00E+00	4.29E-05	4.22E-07	0.00E+00	4.22E-07	0.00E+00	0.00E+00	4.28E-05	0.00E+00	0.00E+00	4.29E-05
382	ALL	635075	4175850	NonCancer	0.00E+00	4.09E-07	4.15E-05	0.00E+00	0.00E+00	4.17E-05	4.09E-07	0.00E+00	4.09E-07	0.00E+00	0.00E+00	4.15E-05	0.00E+00	0.00E+00	4.17E-05
383	ALL	635125	4175850	NonCancer	0.00E+00	3.97E-07	4.03E-05	0.00E+00	0.00E+00	4.04E-05	3.97E-07	0.00E+00	3.97E-07	0.00E+00	0.00E+00	4.03E-05	0.00E+00	0.00E+00	4.04E-05

384	ALL	635175	4175850	NonCancer	0.00E+00	3.86E-07	3.91E-05	0.00E+00	0.00E+00	3.92E-05	3.86E-07	0.00E+00	3.86E-07	0.00E+00	0.00E+00	3.91E-05	0.00E+00	0.00E+00	3.92E-05
385	ALL	635225	4175850	NonCancer	0.00E+00	3.74E-07	3.79E-05	0.00E+00	0.00E+00	3.81E-05	3.74E-07	0.00E+00	3.74E-07	0.00E+00	0.00E+00	3.79E-05	0.00E+00	0.00E+00	3.81E-05
386	ALL	635275	4175850	NonCancer	0.00E+00	3.64E-07	3.69E-05	0.00E+00	0.00E+00	3.70E-05	3.64E-07	0.00E+00	3.64E-07	0.00E+00	0.00E+00	3.69E-05	0.00E+00	0.00E+00	3.70E-05
387	ALL	635325	4175850	NonCancer	0.00E+00	3.53E-07	3.58E-05	0.00E+00	0.00E+00	3.60E-05	3.53E-07	0.00E+00	3.53E-07	0.00E+00	0.00E+00	3.58E-05	0.00E+00	0.00E+00	3.60E-05
388	ALL	635375	4175850	NonCancer	0.00E+00	3.43E-07	3.48E-05	0.00E+00	0.00E+00	3.49E-05	3.43E-07	0.00E+00	3.43E-07	0.00E+00	0.00E+00	3.48E-05	0.00E+00	0.00E+00	3.49E-05
389	ALL	635425	4175850	NonCancer	0.00E+00	3.34E-07	3.38E-05	0.00E+00	0.00E+00	3.40E-05	3.34E-07	0.00E+00	3.34E-07	0.00E+00	0.00E+00	3.38E-05	0.00E+00	0.00E+00	3.40E-05
390	ALL	634225	4175900	NonCancer	0.00E+00	9.40E-07	9.53E-05	0.00E+00	0.00E+00	9.56E-05	9.40E-07	0.00E+00	9.40E-07	0.00E+00	0.00E+00	9.53E-05	0.00E+00	0.00E+00	9.56E-05
391	ALL	634325	4175900	NonCancer	0.00E+00	8.55E-07	8.67E-05	0.00E+00	0.00E+00	8.70E-05	8.55E-07	0.00E+00	8.55E-07	0.00E+00	0.00E+00	8.67E-05	0.00E+00	0.00E+00	8.70E-05
392	ALL	634375	4175900	NonCancer	0.00E+00	8.12E-07	8.23E-05	0.00E+00	0.00E+00	8.27E-05	8.12E-07	0.00E+00	8.12E-07	0.00E+00	0.00E+00	8.23E-05	0.00E+00	0.00E+00	8.27E-05
393	ALL	634425	4175900	NonCancer	0.00E+00	7.71E-07	7.82E-05	0.00E+00	0.00E+00	7.85E-05	7.71E-07	0.00E+00	7.71E-07	0.00E+00	0.00E+00	7.82E-05	0.00E+00	0.00E+00	7.85E-05
394	ALL	634475	4175900	NonCancer	0.00E+00	7.35E-07	7.45E-05	0.00E+00	0.00E+00	7.48E-05	7.35E-07	0.00E+00	7.35E-07	0.00E+00	0.00E+00	7.45E-05	0.00E+00	0.00E+00	7.48E-05
395	ALL	634525	4175900	NonCancer	0.00E+00	7.00E-07	7.10E-05	0.00E+00	0.00E+00	7.13E-05	7.00E-07	0.00E+00	7.00E-07	0.00E+00	0.00E+00	7.10E-05	0.00E+00	0.00E+00	7.13E-05
396	ALL	634575	4175900	NonCancer	0.00E+00	6.68E-07	6.77E-05	0.00E+00	0.00E+00	6.79E-05	6.68E-07	0.00E+00	6.68E-07	0.00E+00	0.00E+00	6.77E-05	0.00E+00	0.00E+00	6.79E-05
397	ALL	634625	4175900	NonCancer	0.00E+00	6.38E-07	6.46E-05	0.00E+00	0.00E+00	6.49E-05	6.38E-07	0.00E+00	6.38E-07	0.00E+00	0.00E+00	6.46E-05	0.00E+00	0.00E+00	6.49E-05
398	ALL	634675	4175900	NonCancer	0.00E+00	6.10E-07	6.19E-05	0.00E+00	0.00E+00	6.21E-05	6.10E-07	0.00E+00	6.10E-07	0.00E+00	0.00E+00	6.19E-05	0.00E+00	0.00E+00	6.21E-05
399	ALL	634725	4175900	NonCancer	0.00E+00	5.82E-07	5.90E-05	0.00E+00	0.00E+00	5.92E-05	5.82E-07	0.00E+00	5.82E-07	0.00E+00	0.00E+00	5.90E-05	0.00E+00	0.00E+00	5.92E-05
400	ALL	634775	4175900	NonCancer	0.00E+00	5.56E-07	5.64E-05	0.00E+00	0.00E+00	5.66E-05	5.56E-07	0.00E+00	5.56E-07	0.00E+00	0.00E+00	5.64E-05	0.00E+00	0.00E+00	5.66E-05
401	ALL	634875	4175900	NonCancer	0.00E+00	5.08E-07	5.15E-05	0.00E+00	0.00E+00	5.17E-05	5.08E-07	0.00E+00	5.08E-07	0.00E+00	0.00E+00	5.15E-05	0.00E+00	0.00E+00	5.17E-05
402	ALL	634925	4175900	NonCancer	0.00E+00	4.85E-07	4.92E-05	0.00E+00	0.00E+00	4.93E-05	4.85E-07	0.00E+00	4.85E-07	0.00E+00	0.00E+00	4.92E-05	0.00E+00	0.00E+00	4.93E-05
403	ALL	634975	4175900	NonCancer	0.00E+00	4.65E-07	4.71E-05	0.00E+00	0.00E+00	4.73E-05	4.65E-07	0.00E+00	4.65E-07	0.00E+00	0.00E+00	4.71E-05	0.00E+00	0.00E+00	4.73E-05
404	ALL	635025	4175900	NonCancer	0.00E+00	4.45E-07	4.51E-05	0.00E+00	0.00E+00	4.53E-05	4.45E-07	0.00E+00	4.45E-07	0.00E+00	0.00E+00	4.51E-05	0.00E+00	0.00E+00	4.53E-05
405	ALL	635075	4175900	NonCancer	0.00E+00	4.27E-07	4.32E-05	0.00E+00	0.00E+00	4.34E-05	4.27E-07	0.00E+00	4.27E-07	0.00E+00	0.00E+00	4.32E-05	0.00E+00	0.00E+00	4.34E-05
406	ALL	635125	4175900	NonCancer	0.00E+00	4.08E-07	4.14E-05	0.00E+00	0.00E+00	4.16E-05	4.08E-07	0.00E+00	4.08E-07	0.00E+00	0.00E+00	4.14E-05	0.00E+00	0.00E+00	4.16E-05
407	ALL	635175	4175900	NonCancer	0.00E+00	3.92E-07	3.97E-05	0.00E+00	0.00E+00	3.99E-05	3.92E-07	0.00E+00	3.92E-07	0.00E+00	0.00E+00	3.97E-05	0.00E+00	0.00E+00	3.99E-05
408	ALL	635225	4175900	NonCancer	0.00E+00	3.77E-07	3.83E-05	0.00E+00	0.00E+00	3.84E-05	3.77E-07	0.00E+00	3.77E-07	0.00E+00	0.00E+00	3.83E-05	0.00E+00	0.00E+00	3.84E-05
409	ALL	635275	4175900	NonCancer	0.00E+00	3.66E-07	3.71E-05	0.00E+00	0.00E+00	3.72E-05	3.66E-07	0.00E+00	3.66E-07	0.00E+00	0.00E+00	3.71E-05	0.00E+00	0.00E+00	3.72E-05
410	ALL	635325	4175900	NonCancer	0.00E+00	3.56E-07	3.61E-05	0.00E+00	0.00E+00	3.62E-05	3.56E-07	0.00E+00	3.56E-07	0.00E+00	0.00E+00	3.61E-05	0.00E+00	0.00E+00	3.62E-05
411	ALL	635375	4175900	NonCancer	0.00E+00	3.44E-07	3.49E-05	0.00E+00	0.00E+00	3.50E-05	3.44E-07	0.00E+00	3.44E-07	0.00E+00	0.00E+00	3.49E-05	0.00E+00	0.00E+00	3.50E-05
412	ALL	635425	4175900	NonCancer	0.00E+00	3.34E-07	3.39E-05	0.00E+00	0.00E+00	3.40E-05	3.34E-07	0.00E+00	3.34E-07	0.00E+00	0.00E+00	3.39E-05	0.00E+00	0.00E+00	3.40E-05
413	ALL	635475	4175900	NonCancer	0.00E+00	3.25E-07	3.29E-05	0.00E+00	0.00E+00	3.31E-05	3.25E-07	0.00E+00	3.25E-07	0.00E+00	0.00E+00	3.29E-05	0.00E+00	0.00E+00	3.31E-05
414	ALL	635525	4175900	NonCancer	0.00E+00	3.16E-07	3.20E-05	0.00E+00	0.00E+00	3.21E-05	3.16E-07	0.00E+00	3.16E-07	0.00E+00	0.00E+00	3.20E-05	0.00E+00	0.00E+00	3.21E-05
415	ALL	634325	4175950	NonCancer	0.00E+00	8.19E-07	8.31E-05	0.00E+00	0.00E+00	8.34E-05	8.19E-07	0.00E+00	8.19E-07	0.00E+00	0.00E+00	8.31E-05	0.00E+00	0.00E+00	8.34E-05
416	ALL	634375	4175950	NonCancer	0.00E+00	7.89E-07	7.99E-05	0.00E+00	0.00E+00	8.03E-05	7.89E-07	0.00E+00	7.89E-07	0.00E+00	0.00E+00	7.99E-05	0.00E+00	0.00E+00	8.03E-05
417	ALL	634425	4175950	NonCancer	0.00E+00	7.57E-07	7.67E-05	0.00E+00	0.00E+00	7.70E-05	7.57E-07	0.00E+00	7.57E-07	0.00E+00	0.00E+00	7.67E-05	0.00E+00	0.00E+00	7.70E-05
418	ALL	634475	4175950	NonCancer	0.00E+00	7.27E-07	7.37E-05	0.00E+00	0.00E+00	7.40E-05	7.27E-07	0.00E+00	7.27E-07	0.00E+00	0.00E+00	7.37E-05	0.00E+00	0.00E+00	7.40E-05
419	ALL	634525	4175950	NonCancer	0.00E+00	6.96E-07	7.06E-05	0.00E+00	0.00E+00	7.09E-05	6.96E-07	0.00E+00	6.96E-07	0.00E+00	0.00E+00	7.06E-05	0.00E+00	0.00E+00	7.09E-05
420	ALL	634575	4175950	NonCancer	0.00E+00	6.67E-07	6.76E-05	0.00E+00	0.00E+00	6.79E-05	6.67E-07	0.00E+00	6.67E-07	0.00E+00	0.00E+00	6.76E-05	0.00E+00	0.00E+00	6.79E-05
421	ALL	634625	4175950	NonCancer	0.00E+00	6.45E-07	6.53E-05	0.00E+00	0.00E+00	6.56E-05	6.45E-07	0.00E+00	6.45E-07	0.00E+00	0.00E+00	6.53E-05	0.00E+00	0.00E+00	6.56E-05
422	ALL	634675	4175950	NonCancer	0.00E+00	6.24E-07	6.33E-05	0.00E+00	0.00E+00	6.35E-05	6.24E-07	0.00E+00	6.24E-07	0.00E+00	0.00E+00	6.33E-05	0.00E+00	0.00E+00	6.35E-05
423	ALL	634875	4175950	NonCancer	0.00E+00	5.41E-07	5.49E-05	0.00E+00	0.00E+00	5.51E-05	5.41E-07	0.00E+00	5.41E-07	0.00E+00	0.00E+00	5.49E-05	0.00E+00	0.00E+00	5.51E-05
424	ALL	634925	4175950	NonCancer	0.00E+00	5.22E-07	5.29E-05	0.00E+00	0.00E+00	5.31E-05	5.22E-07	0.00E+00	5.22E-07	0.00E+00	0.00E+00	5.29E-05	0.00E+00	0.00E+00	5.31E-05
425	ALL	634975	4175950	NonCancer	0.00E+00	5.05E-07	5.12E-05	0.00E+00	0.00E+00	5.14E-05	5.05E-07	0.00E+00	5.05E-07	0.00E+00	0.00E+00	5.12E-05	0.00E+00	0.00E+00	5.14E-05
426	ALL	635025	4175950	NonCancer	0.00E+00	4.87E-07	4.93E-05	0.00E+00	0.00E+00	4.95E-05	4.87E-07	0.00E+00	4.87E-07	0.00E+00	0.00E+00	4.93E-05	0.00E+00	0.00E+00	4.95E-05
427	ALL	635075	4175950	NonCancer	0.00E+00	4.70E-07	4.76E-05	0.00E+00	0.00E+00	4.78E-05	4.70E-07	0.00E+00	4.70E-07	0.00E+00	0.00E+00	4.76E-05	0.00E+00	0.00E+00	4.78E-05
428	ALL	635125	4175950	NonCancer	0.00E+00	4.54E-07	4.60E-05	0.00E+00	0.00E+00	4.62E-05	4.54E-07	0.00E+00	4.54E-07	0.00E+00	0.00E+00	4.60E-05	0.00E+00	0.00E+00	4.62E-05
429	ALL	635175	4175950	NonCancer	0.00E+00	4.38E-07	4.44E-05	0.00E+00	0.00E+00	4.46E-05	4.38E-07	0.00E+00	4.38E-07	0.00E+00	0.00E+00	4.44E-05	0.00E+00	0.00E+00	4.46E-05
430	ALL	635225	4175950	NonCancer	0.00E+00	4.22E-07	4.28E-05	0.00E+00	0.00E+00	4.30E-05	4.22E-07	0.00E+00	4.22E-07	0.00E+00	0.00E+00	4.28E-05	0.00E+00	0.00E+00	4.30E-05
431	ALL	635275	4175950	NonCancer	0.00E+00	4.09E-07	4.14E-05	0.00E+00	0.00E+00	4.16E-05	4.09E-07	0.00E+00	4.09E-07	0.00E+00	0.00E+00	4.14E-05	0.00E+00	0.00E+00	4.16E-05
432	ALL	635325	4175950	NonCancer	0.00E+00	3.93E-07	3.99E-05	0.00E+00	0.00E+00	4.00E-05	3.93E-07	0.00E+00	3.93E-07	0.00E+00	0.00E+00	3.99E-05	0.00E+00	0.00E+00	4.00E-05
433	ALL	635375	4175950	NonCancer	0.00E+00	3.80E-07	3.85E-05	0.00E+00	0.00E+00	3.87E-05	3.80E-07	0.00E+00	3.80E-07	0.00E+00	0.00E+00	3.85E-05	0.00E+00	0.00E+00	3.87E-05
434	ALL	635425	4175950	NonCancer	0.00E+00	3.67E-07	3.72E-05	0.00E+00	0.00E+00	3.74E-05	3.67E-07	0.00E+00	3.67E-07	0.00E+00	0.00E+00	3.72E-05	0.00E+00	0.00E+00	3.74E-05
435	ALL	635475	4175950	NonCancer	0.00E+00	3.54E-07	3.59E-05	0.00E+00	0.00E+00	3.61E-05	3.54E-07	0.00E+00	3.54E-07	0.00E+00	0.00E+00	3.59E-05	0.00E+00	0.00E+00	3.61E-05
436	ALL	635525	4175950	NonCancer	0.00E+00	3.41E-07	3.46E-05	0.00E+00	0.00E+00	3.48E-05	3.41E-07	0.00E+00	3.41E-07	0.00E+00	0.00E+00	3.46E-05	0.00E+00	0.00E+00	3.48E-05
437	ALL	635575	4175950	NonCancer	0.00E+00	3.30E-07	3.35E-05	0.00E+00	0.00E+00	3.36E-05	3.30E-07	0.00E+00	3.30E-07	0.00E+00	0.00E+00	3.35E-05	0.00E+00	0.00E+00	3.36E-05
438	ALL	634725	4176000	NonCancer	0.00E+00	5.82E-07	5.90E-05	0.00E+00	0.00E+00	5.92E-05	5.82E-07	0.00E+00	5.82E-07	0.00E+00	0.00E+00	5.90E-05	0.00E+00	0.00E+00	5.92E-05

439	ALL	634925	4176000	NonCancer	0.00E+00	5.11E-07	5.18E-05	0.00E+00	0.00E+00	5.20E-05	5.11E-07	0.00E+00	5.11E-07	0.00E+00	0.00E+00	5.18E-05	0.00E+00	0.00E+00	5.20E-05
440	ALL	634975	4176000	NonCancer	0.00E+00	4.96E-07	5.03E-05	0.00E+00	0.00E+00	5.05E-05	4.96E-07	0.00E+00	4.96E-07	0.00E+00	0.00E+00	5.03E-05	0.00E+00	0.00E+00	5.05E-05
441	ALL	635025	4176000	NonCancer	0.00E+00	4.80E-07	4.87E-05	0.00E+00	0.00E+00	4.88E-05	4.80E-07	0.00E+00	4.80E-07	0.00E+00	0.00E+00	4.87E-05	0.00E+00	0.00E+00	4.88E-05
442	ALL	635075	4176000	NonCancer	0.00E+00	4.63E-07	4.70E-05	0.00E+00	0.00E+00	4.72E-05	4.63E-07	0.00E+00	4.63E-07	0.00E+00	0.00E+00	4.70E-05	0.00E+00	0.00E+00	4.72E-05
443	ALL	635125	4176000	NonCancer	0.00E+00	4.50E-07	4.56E-05	0.00E+00	0.00E+00	4.58E-05	4.50E-07	0.00E+00	4.50E-07	0.00E+00	0.00E+00	4.56E-05	0.00E+00	0.00E+00	4.58E-05
444	ALL	635175	4176000	NonCancer	0.00E+00	4.38E-07	4.44E-05	0.00E+00	0.00E+00	4.46E-05	4.38E-07	0.00E+00	4.38E-07	0.00E+00	0.00E+00	4.44E-05	0.00E+00	0.00E+00	4.46E-05
445	ALL	635225	4176000	NonCancer	0.00E+00	4.27E-07	4.33E-05	0.00E+00	0.00E+00	4.35E-05	4.27E-07	0.00E+00	4.27E-07	0.00E+00	0.00E+00	4.33E-05	0.00E+00	0.00E+00	4.35E-05
446	ALL	635275	4176000	NonCancer	0.00E+00	4.16E-07	4.22E-05	0.00E+00	0.00E+00	4.24E-05	4.16E-07	0.00E+00	4.16E-07	0.00E+00	0.00E+00	4.22E-05	0.00E+00	0.00E+00	4.24E-05
447	ALL	635325	4176000	NonCancer	0.00E+00	4.04E-07	4.10E-05	0.00E+00	0.00E+00	4.12E-05	4.04E-07	0.00E+00	4.04E-07	0.00E+00	0.00E+00	4.10E-05	0.00E+00	0.00E+00	4.12E-05
448	ALL	635375	4176000	NonCancer	0.00E+00	3.94E-07	3.99E-05	0.00E+00	0.00E+00	4.01E-05	3.94E-07	0.00E+00	3.94E-07	0.00E+00	0.00E+00	3.99E-05	0.00E+00	0.00E+00	4.01E-05
449	ALL	635425	4176000	NonCancer	0.00E+00	3.82E-07	3.88E-05	0.00E+00	0.00E+00	3.89E-05	3.82E-07	0.00E+00	3.82E-07	0.00E+00	0.00E+00	3.88E-05	0.00E+00	0.00E+00	3.89E-05
450	ALL	635475	4176000	NonCancer	0.00E+00	3.72E-07	3.77E-05	0.00E+00	0.00E+00	3.78E-05	3.72E-07	0.00E+00	3.72E-07	0.00E+00	0.00E+00	3.77E-05	0.00E+00	0.00E+00	3.78E-05
451	ALL	635525	4176000	NonCancer	0.00E+00	3.62E-07	3.66E-05	0.00E+00	0.00E+00	3.68E-05	3.62E-07	0.00E+00	3.62E-07	0.00E+00	0.00E+00	3.66E-05	0.00E+00	0.00E+00	3.68E-05
452	ALL	635575	4176000	NonCancer	0.00E+00	3.51E-07	3.56E-05	0.00E+00	0.00E+00	3.57E-05	3.51E-07	0.00E+00	3.51E-07	0.00E+00	0.00E+00	3.56E-05	0.00E+00	0.00E+00	3.57E-05
453	ALL	634825	4176050	NonCancer	0.00E+00	5.55E-07	5.63E-05	0.00E+00	0.00E+00	5.65E-05	5.55E-07	0.00E+00	5.55E-07	0.00E+00	0.00E+00	5.63E-05	0.00E+00	0.00E+00	5.65E-05
454	ALL	634875	4176050	NonCancer	0.00E+00	5.36E-07	5.43E-05	0.00E+00	0.00E+00	5.45E-05	5.36E-07	0.00E+00	5.36E-07	0.00E+00	0.00E+00	5.43E-05	0.00E+00	0.00E+00	5.45E-05
455	ALL	634925	4176050	NonCancer	0.00E+00	5.16E-07	5.23E-05	0.00E+00	0.00E+00	5.26E-05	5.16E-07	0.00E+00	5.16E-07	0.00E+00	0.00E+00	5.23E-05	0.00E+00	0.00E+00	5.26E-05
456	ALL	634975	4176050	NonCancer	0.00E+00	4.97E-07	5.04E-05	0.00E+00	0.00E+00	5.06E-05	4.97E-07	0.00E+00	4.97E-07	0.00E+00	0.00E+00	5.04E-05	0.00E+00	0.00E+00	5.06E-05
457	ALL	635025	4176050	NonCancer	0.00E+00	4.77E-07	4.83E-05	0.00E+00	0.00E+00	4.85E-05	4.77E-07	0.00E+00	4.77E-07	0.00E+00	0.00E+00	4.83E-05	0.00E+00	0.00E+00	4.85E-05
458	ALL	635075	4176050	NonCancer	0.00E+00	4.57E-07	4.63E-05	0.00E+00	0.00E+00	4.65E-05	4.57E-07	0.00E+00	4.57E-07	0.00E+00	0.00E+00	4.63E-05	0.00E+00	0.00E+00	4.65E-05
459	ALL	635125	4176050	NonCancer	0.00E+00	4.39E-07	4.45E-05	0.00E+00	0.00E+00	4.47E-05	4.39E-07	0.00E+00	4.39E-07	0.00E+00	0.00E+00	4.45E-05	0.00E+00	0.00E+00	4.47E-05
460	ALL	635175	4176050	NonCancer	0.00E+00	4.25E-07	4.31E-05	0.00E+00	0.00E+00	4.33E-05	4.25E-07	0.00E+00	4.25E-07	0.00E+00	0.00E+00	4.31E-05	0.00E+00	0.00E+00	4.33E-05
461	ALL	635225	4176050	NonCancer	0.00E+00	4.15E-07	4.21E-05	0.00E+00	0.00E+00	4.23E-05	4.15E-07	0.00E+00	4.15E-07	0.00E+00	0.00E+00	4.21E-05	0.00E+00	0.00E+00	4.23E-05
462	ALL	635275	4176050	NonCancer	0.00E+00	4.05E-07	4.11E-05	0.00E+00	0.00E+00	4.13E-05	4.05E-07	0.00E+00	4.05E-07	0.00E+00	0.00E+00	4.11E-05	0.00E+00	0.00E+00	4.13E-05
463	ALL	635325	4176050	NonCancer	0.00E+00	3.95E-07	4.01E-05	0.00E+00	0.00E+00	4.02E-05	3.95E-07	0.00E+00	3.95E-07	0.00E+00	0.00E+00	4.01E-05	0.00E+00	0.00E+00	4.02E-05
464	ALL	635375	4176050	NonCancer	0.00E+00	3.84E-07	3.90E-05	0.00E+00	0.00E+00	3.91E-05	3.84E-07	0.00E+00	3.84E-07	0.00E+00	0.00E+00	3.90E-05	0.00E+00	0.00E+00	3.91E-05
465	ALL	635425	4176050	NonCancer	0.00E+00	3.75E-07	3.80E-05	0.00E+00	0.00E+00	3.82E-05	3.75E-07	0.00E+00	3.75E-07	0.00E+00	0.00E+00	3.80E-05	0.00E+00	0.00E+00	3.82E-05
466	ALL	635475	4176050	NonCancer	0.00E+00	3.65E-07	3.70E-05	0.00E+00	0.00E+00	3.71E-05	3.65E-07	0.00E+00	3.65E-07	0.00E+00	0.00E+00	3.70E-05	0.00E+00	0.00E+00	3.71E-05
467	ALL	635525	4176050	NonCancer	0.00E+00	3.55E-07	3.59E-05	0.00E+00	0.00E+00	3.61E-05	3.55E-07	0.00E+00	3.55E-07	0.00E+00	0.00E+00	3.59E-05	0.00E+00	0.00E+00	3.61E-05
468	ALL	635575	4176050	NonCancer	0.00E+00	3.44E-07	3.49E-05	0.00E+00	0.00E+00	3.50E-05	3.44E-07	0.00E+00	3.44E-07	0.00E+00	0.00E+00	3.49E-05	0.00E+00	0.00E+00	3.50E-05
469	ALL	634825	4176100	NonCancer	0.00E+00	5.47E-07	5.55E-05	0.00E+00	0.00E+00	5.57E-05	5.47E-07	0.00E+00	5.47E-07	0.00E+00	0.00E+00	5.55E-05	0.00E+00	0.00E+00	5.57E-05
470	ALL	634875	4176100	NonCancer	0.00E+00	5.32E-07	5.39E-05	0.00E+00	0.00E+00	5.42E-05	5.32E-07	0.00E+00	5.32E-07	0.00E+00	0.00E+00	5.39E-05	0.00E+00	0.00E+00	5.42E-05
471	ALL	634925	4176100	NonCancer	0.00E+00	5.14E-07	5.21E-05	0.00E+00	0.00E+00	5.23E-05	5.14E-07	0.00E+00	5.14E-07	0.00E+00	0.00E+00	5.21E-05	0.00E+00	0.00E+00	5.23E-05
472	ALL	634975	4176100	NonCancer	0.00E+00	4.97E-07	5.04E-05	0.00E+00	0.00E+00	5.06E-05	4.97E-07	0.00E+00	4.97E-07	0.00E+00	0.00E+00	5.04E-05	0.00E+00	0.00E+00	5.06E-05
473	ALL	635025	4176100	NonCancer	0.00E+00	4.80E-07	4.86E-05	0.00E+00	0.00E+00	4.88E-05	4.80E-07	0.00E+00	4.80E-07	0.00E+00	0.00E+00	4.86E-05	0.00E+00	0.00E+00	4.88E-05
474	ALL	635075	4176100	NonCancer	0.00E+00	4.66E-07	4.72E-05	0.00E+00	0.00E+00	4.74E-05	4.66E-07	0.00E+00	4.66E-07	0.00E+00	0.00E+00	4.72E-05	0.00E+00	0.00E+00	4.74E-05
475	ALL	635125	4176100	NonCancer	0.00E+00	4.53E-07	4.59E-05	0.00E+00	0.00E+00	4.61E-05	4.53E-07	0.00E+00	4.53E-07	0.00E+00	0.00E+00	4.59E-05	0.00E+00	0.00E+00	4.61E-05
476	ALL	635175	4176100	NonCancer	0.00E+00	4.40E-07	4.46E-05	0.00E+00	0.00E+00	4.47E-05	4.40E-07	0.00E+00	4.40E-07	0.00E+00	0.00E+00	4.46E-05	0.00E+00	0.00E+00	4.47E-05
477	ALL	635225	4176100	NonCancer	0.00E+00	4.27E-07	4.32E-05	0.00E+00	0.00E+00	4.34E-05	4.27E-07	0.00E+00	4.27E-07	0.00E+00	0.00E+00	4.32E-05	0.00E+00	0.00E+00	4.34E-05
478	ALL	635275	4176100	NonCancer	0.00E+00	4.13E-07	4.19E-05	0.00E+00	0.00E+00	4.20E-05	4.13E-07	0.00E+00	4.13E-07	0.00E+00	0.00E+00	4.19E-05	0.00E+00	0.00E+00	4.20E-05
479	ALL	635325	4176100	NonCancer	0.00E+00	3.99E-07	4.05E-05	0.00E+00	0.00E+00	4.07E-05	3.99E-07	0.00E+00	3.99E-07	0.00E+00	0.00E+00	4.05E-05	0.00E+00	0.00E+00	4.07E-05
480	ALL	635375	4176100	NonCancer	0.00E+00	3.86E-07	3.91E-05	0.00E+00	0.00E+00	3.93E-05	3.86E-07	0.00E+00	3.86E-07	0.00E+00	0.00E+00	3.91E-05	0.00E+00	0.00E+00	3.93E-05
481	ALL	635425	4176100	NonCancer	0.00E+00	3.71E-07	3.76E-05	0.00E+00	0.00E+00	3.78E-05	3.71E-07	0.00E+00	3.71E-07	0.00E+00	0.00E+00	3.76E-05	0.00E+00	0.00E+00	3.78E-05
482	ALL	635475	4176100	NonCancer	0.00E+00	3.59E-07	3.64E-05	0.00E+00	0.00E+00	3.65E-05	3.59E-07	0.00E+00	3.59E-07	0.00E+00	0.00E+00	3.64E-05	0.00E+00	0.00E+00	3.65E-05
483	ALL	635525	4176100	NonCancer	0.00E+00	3.45E-07	3.50E-05	0.00E+00	0.00E+00	3.52E-05	3.45E-07	0.00E+00	3.45E-07	0.00E+00	0.00E+00	3.50E-05	0.00E+00	0.00E+00	3.52E-05
484	ALL	635575	4176100	NonCancer	0.00E+00	3.35E-07	3.40E-05	0.00E+00	0.00E+00	3.41E-05	3.35E-07	0.00E+00	3.35E-07	0.00E+00	0.00E+00	3.40E-05	0.00E+00	0.00E+00	3.41E-05
485	ALL	634825	4176150	NonCancer	0.00E+00	5.47E-07	5.54E-05	0.00E+00	0.00E+00	5.56E-05	5.47E-07	0.00E+00	5.47E-07	0.00E+00	0.00E+00	5.54E-05	0.00E+00	0.00E+00	5.56E-05
486	ALL	634875	4176150	NonCancer	0.00E+00	5.27E-07	5.34E-05	0.00E+00	0.00E+00	5.36E-05	5.27E-07	0.00E+00	5.27E-07	0.00E+00	0.00E+00	5.34E-05	0.00E+00	0.00E+00	5.36E-05
487	ALL	634925	4176150	NonCancer	0.00E+00	5.09E-07	5.16E-05	0.00E+00	0.00E+00	5.18E-05	5.09E-07	0.00E+00	5.09E-07	0.00E+00	0.00E+00	5.16E-05	0.00E+00	0.00E+00	5.18E-05
488	ALL	634975	4176150	NonCancer	0.00E+00	4.95E-07	5.02E-05	0.00E+00	0.00E+00	5.04E-05	4.95E-07	0.00E+00	4.95E-07	0.00E+00	0.00E+00	5.02E-05	0.00E+00	0.00E+00	5.04E-05
489	ALL	635025	4176150	NonCancer	0.00E+00	4.80E-07	4.87E-05	0.00E+00	0.00E+00	4.89E-05	4.80E-07	0.00E+00	4.80E-07	0.00E+00	0.00E+00	4.87E-05	0.00E+00	0.00E+00	4.89E-05
490	ALL	635075	4176150	NonCancer	0.00E+00	4.63E-07	4.69E-05	0.00E+00	0.00E+00	4.71E-05	4.63E-07	0.00E+00	4.63E-07	0.00E+00	0.00E+00	4.69E-05	0.00E+00	0.00E+00	4.71E-05
491	ALL	635125	4176150	NonCancer	0.00E+00	4.48E-07	4.54E-05	0.00E+00	0.00E+00	4.56E-05	4.48E-07	0.00E+00	4.48E-07	0.00E+00	0.00E+00	4.54E-05	0.00E+00	0.00E+00	4.56E-05
492	ALL	635175	4176150	NonCancer	0.00E+00	4.36E-07	4.42E-05	0.00E+00	0.00E+00	4.44E-05	4.36E-07	0.00E+00	4.36E-07	0.00E+00	0.00E+00	4.42E-05	0.00E+00	0.00E+00	4.44E-05
493	ALL	635225	4176150	NonCancer	0.00E+00	4.23E-07	4.29E-05	0.00E+00	0.00E+00	4.31E-05	4.23E-07	0.00E+00	4.23E-07	0.00E+00	0.00E+00	4.29E-05	0.00E+00	0.00E+00	4.31E-05

494	ALL	635275	4176150	NonCancer	0.00E+00	4.12E-07	4.17E-05	0.00E+00	0.00E+00	4.19E-05	4.12E-07	0.00E+00	4.12E-07	0.00E+00	0.00E+00	4.17E-05	0.00E+00	0.00E+00	4.19E-05
495	ALL	635325	4176150	NonCancer	0.00E+00	3.99E-07	4.04E-05	0.00E+00	0.00E+00	4.06E-05	3.99E-07	0.00E+00	3.99E-07	0.00E+00	0.00E+00	4.04E-05	0.00E+00	0.00E+00	4.06E-05
496	ALL	635375	4176150	NonCancer	0.00E+00	3.86E-07	3.91E-05	0.00E+00	0.00E+00	3.93E-05	3.86E-07	0.00E+00	3.86E-07	0.00E+00	0.00E+00	3.91E-05	0.00E+00	0.00E+00	3.93E-05
497	ALL	635425	4176150	NonCancer	0.00E+00	3.76E-07	3.81E-05	0.00E+00	0.00E+00	3.83E-05	3.76E-07	0.00E+00	3.76E-07	0.00E+00	0.00E+00	3.81E-05	0.00E+00	0.00E+00	3.83E-05
498	ALL	635475	4176150	NonCancer	0.00E+00	3.68E-07	3.73E-05	0.00E+00	0.00E+00	3.74E-05	3.68E-07	0.00E+00	3.68E-07	0.00E+00	0.00E+00	3.73E-05	0.00E+00	0.00E+00	3.74E-05
499	ALL	635525	4176150	NonCancer	0.00E+00	3.58E-07	3.63E-05	0.00E+00	0.00E+00	3.65E-05	3.58E-07	0.00E+00	3.58E-07	0.00E+00	0.00E+00	3.63E-05	0.00E+00	0.00E+00	3.65E-05
500	ALL	635575	4176150	NonCancer	0.00E+00	3.49E-07	3.54E-05	0.00E+00	0.00E+00	3.55E-05	3.49E-07	0.00E+00	3.49E-07	0.00E+00	0.00E+00	3.54E-05	0.00E+00	0.00E+00	3.55E-05
501	ALL	634875	4176200	NonCancer	0.00E+00	5.27E-07	5.34E-05	0.00E+00	0.00E+00	5.36E-05	5.27E-07	0.00E+00	5.27E-07	0.00E+00	0.00E+00	5.34E-05	0.00E+00	0.00E+00	5.36E-05
502	ALL	634925	4176200	NonCancer	0.00E+00	5.07E-07	5.14E-05	0.00E+00	0.00E+00	5.16E-05	5.07E-07	0.00E+00	5.07E-07	0.00E+00	0.00E+00	5.14E-05	0.00E+00	0.00E+00	5.16E-05
503	ALL	634975	4176200	NonCancer	0.00E+00	4.89E-07	4.95E-05	0.00E+00	0.00E+00	4.97E-05	4.89E-07	0.00E+00	4.89E-07	0.00E+00	0.00E+00	4.95E-05	0.00E+00	0.00E+00	4.97E-05
504	ALL	635125	4176200	NonCancer	0.00E+00	4.46E-07	4.52E-05	0.00E+00	0.00E+00	4.54E-05	4.46E-07	0.00E+00	4.46E-07	0.00E+00	0.00E+00	4.52E-05	0.00E+00	0.00E+00	4.54E-05
505	ALL	635175	4176200	NonCancer	0.00E+00	4.32E-07	4.38E-05	0.00E+00	0.00E+00	4.40E-05	4.32E-07	0.00E+00	4.32E-07	0.00E+00	0.00E+00	4.38E-05	0.00E+00	0.00E+00	4.40E-05
506	ALL	635225	4176200	NonCancer	0.00E+00	4.21E-07	4.27E-05	0.00E+00	0.00E+00	4.28E-05	4.21E-07	0.00E+00	4.21E-07	0.00E+00	0.00E+00	4.27E-05	0.00E+00	0.00E+00	4.28E-05
507	ALL	635525	4176200	NonCancer	0.00E+00	3.56E-07	3.61E-05	0.00E+00	0.00E+00	3.62E-05	3.56E-07	0.00E+00	3.56E-07	0.00E+00	0.00E+00	3.61E-05	0.00E+00	0.00E+00	3.62E-05
508	ALL	635575	4176200	NonCancer	0.00E+00	3.46E-07	3.51E-05	0.00E+00	0.00E+00	3.52E-05	3.46E-07	0.00E+00	3.46E-07	0.00E+00	0.00E+00	3.51E-05	0.00E+00	0.00E+00	3.52E-05
509	ALL	634325	4176250	NonCancer	0.00E+00	7.75E-07	7.86E-05	0.00E+00	0.00E+00	7.89E-05	7.75E-07	0.00E+00	7.75E-07	0.00E+00	0.00E+00	7.86E-05	0.00E+00	0.00E+00	7.89E-05
510	ALL	634375	4176250	NonCancer	0.00E+00	7.50E-07	7.60E-05	0.00E+00	0.00E+00	7.63E-05	7.50E-07	0.00E+00	7.50E-07	0.00E+00	0.00E+00	7.60E-05	0.00E+00	0.00E+00	7.63E-05
511	ALL	634875	4176250	NonCancer	0.00E+00	5.14E-07	5.21E-05	0.00E+00	0.00E+00	5.23E-05	5.14E-07	0.00E+00	5.14E-07	0.00E+00	0.00E+00	5.21E-05	0.00E+00	0.00E+00	5.23E-05
512	ALL	634925	4176250	NonCancer	0.00E+00	4.89E-07	4.96E-05	0.00E+00	0.00E+00	4.98E-05	4.89E-07	0.00E+00	4.89E-07	0.00E+00	0.00E+00	4.96E-05	0.00E+00	0.00E+00	4.98E-05
513	ALL	634975	4176250	NonCancer	0.00E+00	4.81E-07	4.87E-05	0.00E+00	0.00E+00	4.89E-05	4.81E-07	0.00E+00	4.81E-07	0.00E+00	0.00E+00	4.87E-05	0.00E+00	0.00E+00	4.89E-05
514	ALL	635025	4176250	NonCancer	0.00E+00	4.71E-07	4.77E-05	0.00E+00	0.00E+00	4.79E-05	4.71E-07	0.00E+00	4.71E-07	0.00E+00	0.00E+00	4.77E-05	0.00E+00	0.00E+00	4.79E-05
515	ALL	635075	4176250	NonCancer	0.00E+00	4.58E-07	4.65E-05	0.00E+00	0.00E+00	4.67E-05	4.58E-07	0.00E+00	4.58E-07	0.00E+00	0.00E+00	4.65E-05	0.00E+00	0.00E+00	4.67E-05
516	ALL	635125	4176250	NonCancer	0.00E+00	4.45E-07	4.51E-05	0.00E+00	0.00E+00	4.53E-05	4.45E-07	0.00E+00	4.45E-07	0.00E+00	0.00E+00	4.51E-05	0.00E+00	0.00E+00	4.53E-05
517	ALL	635175	4176250	NonCancer	0.00E+00	4.30E-07	4.36E-05	0.00E+00	0.00E+00	4.38E-05	4.30E-07	0.00E+00	4.30E-07	0.00E+00	0.00E+00	4.36E-05	0.00E+00	0.00E+00	4.38E-05
518	ALL	635225	4176250	NonCancer	0.00E+00	4.17E-07	4.23E-05	0.00E+00	0.00E+00	4.25E-05	4.17E-07	0.00E+00	4.17E-07	0.00E+00	0.00E+00	4.23E-05	0.00E+00	0.00E+00	4.25E-05
519	ALL	635275	4176250	NonCancer	0.00E+00	4.07E-07	4.12E-05	0.00E+00	0.00E+00	4.14E-05	4.07E-07	0.00E+00	4.07E-07	0.00E+00	0.00E+00	4.12E-05	0.00E+00	0.00E+00	4.14E-05
520	ALL	635375	4176250	NonCancer	0.00E+00	3.83E-07	3.88E-05	0.00E+00	0.00E+00	3.90E-05	3.83E-07	0.00E+00	3.83E-07	0.00E+00	0.00E+00	3.88E-05	0.00E+00	0.00E+00	3.90E-05
521	ALL	635425	4176250	NonCancer	0.00E+00	3.71E-07	3.76E-05	0.00E+00	0.00E+00	3.77E-05	3.71E-07	0.00E+00	3.71E-07	0.00E+00	0.00E+00	3.76E-05	0.00E+00	0.00E+00	3.77E-05
522	ALL	635525	4176250	NonCancer	0.00E+00	3.54E-07	3.59E-05	0.00E+00	0.00E+00	3.61E-05	3.54E-07	0.00E+00	3.54E-07	0.00E+00	0.00E+00	3.59E-05	0.00E+00	0.00E+00	3.61E-05
523	ALL	635575	4176250	NonCancer	0.00E+00	3.46E-07	3.50E-05	0.00E+00	0.00E+00	3.52E-05	3.46E-07	0.00E+00	3.46E-07	0.00E+00	0.00E+00	3.50E-05	0.00E+00	0.00E+00	3.52E-05
524	ALL	634875	4176300	NonCancer	0.00E+00	5.15E-07	5.22E-05	0.00E+00	0.00E+00	5.24E-05	5.15E-07	0.00E+00	5.15E-07	0.00E+00	0.00E+00	5.22E-05	0.00E+00	0.00E+00	5.24E-05
525	ALL	634925	4176300	NonCancer	0.00E+00	4.98E-07	5.05E-05	0.00E+00	0.00E+00	5.07E-05	4.98E-07	0.00E+00	4.98E-07	0.00E+00	0.00E+00	5.05E-05	0.00E+00	0.00E+00	5.07E-05
526	ALL	634975	4176300	NonCancer	0.00E+00	4.85E-07	4.91E-05	0.00E+00	0.00E+00	4.93E-05	4.85E-07	0.00E+00	4.85E-07	0.00E+00	0.00E+00	4.91E-05	0.00E+00	0.00E+00	4.93E-05
527	ALL	635025	4176300	NonCancer	0.00E+00	4.69E-07	4.75E-05	0.00E+00	0.00E+00	4.77E-05	4.69E-07	0.00E+00	4.69E-07	0.00E+00	0.00E+00	4.75E-05	0.00E+00	0.00E+00	4.77E-05
528	ALL	635075	4176300	NonCancer	0.00E+00	4.50E-07	4.56E-05	0.00E+00	0.00E+00	4.58E-05	4.50E-07	0.00E+00	4.50E-07	0.00E+00	0.00E+00	4.56E-05	0.00E+00	0.00E+00	4.58E-05
529	ALL	635125	4176300	NonCancer	0.00E+00	4.30E-07	4.36E-05	0.00E+00	0.00E+00	4.38E-05	4.30E-07	0.00E+00	4.30E-07	0.00E+00	0.00E+00	4.36E-05	0.00E+00	0.00E+00	4.38E-05
530	ALL	635175	4176300	NonCancer	0.00E+00	4.18E-07	4.24E-05	0.00E+00	0.00E+00	4.25E-05	4.18E-07	0.00E+00	4.18E-07	0.00E+00	0.00E+00	4.24E-05	0.00E+00	0.00E+00	4.25E-05
531	ALL	635225	4176300	NonCancer	0.00E+00	4.12E-07	4.17E-05	0.00E+00	0.00E+00	4.19E-05	4.12E-07	0.00E+00	4.12E-07	0.00E+00	0.00E+00	4.17E-05	0.00E+00	0.00E+00	4.19E-05
532	ALL	635275	4176300	NonCancer	0.00E+00	4.04E-07	4.10E-05	0.00E+00	0.00E+00	4.11E-05	4.04E-07	0.00E+00	4.04E-07	0.00E+00	0.00E+00	4.10E-05	0.00E+00	0.00E+00	4.11E-05
533	ALL	635375	4176300	NonCancer	0.00E+00	3.82E-07	3.87E-05	0.00E+00	0.00E+00	3.89E-05	3.82E-07	0.00E+00	3.82E-07	0.00E+00	0.00E+00	3.87E-05	0.00E+00	0.00E+00	3.89E-05
534	ALL	635425	4176300	NonCancer	0.00E+00	3.70E-07	3.75E-05	0.00E+00	0.00E+00	3.76E-05	3.70E-07	0.00E+00	3.70E-07	0.00E+00	0.00E+00	3.75E-05	0.00E+00	0.00E+00	3.76E-05
535	ALL	635525	4176300	NonCancer	0.00E+00	3.52E-07	3.57E-05	0.00E+00	0.00E+00	3.58E-05	3.52E-07	0.00E+00	3.52E-07	0.00E+00	0.00E+00	3.57E-05	0.00E+00	0.00E+00	3.58E-05
536	ALL	635575	4176300	NonCancer	0.00E+00	3.43E-07	3.47E-05	0.00E+00	0.00E+00	3.49E-05	3.43E-07	0.00E+00	3.43E-07	0.00E+00	0.00E+00	3.47E-05	0.00E+00	0.00E+00	3.49E-05
537	ALL	634875	4176350	NonCancer	0.00E+00	5.11E-07	5.18E-05	0.00E+00	0.00E+00	5.20E-05	5.11E-07	0.00E+00	5.11E-07	0.00E+00	0.00E+00	5.18E-05	0.00E+00	0.00E+00	5.20E-05
538	ALL	634925	4176350	NonCancer	0.00E+00	4.93E-07	5.00E-05	0.00E+00	0.00E+00	5.02E-05	4.93E-07	0.00E+00	4.93E-07	0.00E+00	0.00E+00	5.00E-05	0.00E+00	0.00E+00	5.02E-05
539	ALL	634975	4176350	NonCancer	0.00E+00	4.79E-07	4.85E-05	0.00E+00	0.00E+00	4.87E-05	4.79E-07	0.00E+00	4.79E-07	0.00E+00	0.00E+00	4.85E-05	0.00E+00	0.00E+00	4.87E-05
540	ALL	635025	4176350	NonCancer	0.00E+00	4.66E-07	4.72E-05	0.00E+00	0.00E+00	4.74E-05	4.66E-07	0.00E+00	4.66E-07	0.00E+00	0.00E+00	4.72E-05	0.00E+00	0.00E+00	4.74E-05
541	ALL	635075	4176350	NonCancer	0.00E+00	4.50E-07	4.56E-05	0.00E+00	0.00E+00	4.57E-05	4.50E-07	0.00E+00	4.50E-07	0.00E+00	0.00E+00	4.56E-05	0.00E+00	0.00E+00	4.57E-05
542	ALL	635125	4176350	NonCancer	0.00E+00	4.37E-07	4.43E-05	0.00E+00	0.00E+00	4.44E-05	4.37E-07	0.00E+00	4.37E-07	0.00E+00	0.00E+00	4.43E-05	0.00E+00	0.00E+00	4.44E-05
543	ALL	635175	4176350	NonCancer	0.00E+00	4.25E-07	4.31E-05	0.00E+00	0.00E+00	4.33E-05	4.25E-07	0.00E+00	4.25E-07	0.00E+00	0.00E+00	4.31E-05	0.00E+00	0.00E+00	4.33E-05
544	ALL	635225	4176350	NonCancer	0.00E+00	4.13E-07	4.19E-05	0.00E+00	0.00E+00	4.20E-05	4.13E-07	0.00E+00	4.13E-07	0.00E+00	0.00E+00	4.19E-05	0.00E+00	0.00E+00	4.20E-05
545	ALL	635275	4176350	NonCancer	0.00E+00	3.98E-07	4.03E-05	0.00E+00	0.00E+00	4.05E-05	3.98E-07	0.00E+00	3.98E-07	0.00E+00	0.00E+00	4.03E-05	0.00E+00	0.00E+00	4.05E-05
546	ALL	635375	4176350	NonCancer	0.00E+00	3.67E-07	3.72E-05	0.00E+00	0.00E+00	3.74E-05	3.67E-07	0.00E+00	3.67E-07	0.00E+00	0.00E+00	3.72E-05	0.00E+00	0.00E+00	3.74E-05
547	ALL	635425	4176350	NonCancer	0.00E+00	3.63E-07	3.68E-05	0.00E+00	0.00E+00	3.69E-05	3.63E-07	0.00E+00	3.63E-07	0.00E+00	0.00E+00	3.68E-05	0.00E+00	0.00E+00	3.69E-05
548	ALL	635525	4176350	NonCancer	0.00E+00	3.50E-07	3.54E-05	0.00E+00	0.00E+00	3.56E-05	3.50E-07	0.00E+00	3.50E-07	0.00E+00	0.00E+00	3.54E-05	0.00E+00	0.00E+00	3.56E-05

549	ALL	635575	4176350	NonCancer	0.00E+00	3.41E-07	3.45E-05	0.00E+00	0.00E+00	3.47E-05	3.41E-07	0.00E+00	3.41E-07	0.00E+00	0.00E+00	3.45E-05	0.00E+00	0.00E+00	3.47E-05
550	ALL	634875	4176400	NonCancer	0.00E+00	5.04E-07	5.11E-05	0.00E+00	0.00E+00	5.13E-05	5.04E-07	0.00E+00	5.04E-07	0.00E+00	0.00E+00	5.11E-05	0.00E+00	0.00E+00	5.13E-05
551	ALL	634925	4176400	NonCancer	0.00E+00	4.90E-07	4.97E-05	0.00E+00	0.00E+00	4.99E-05	4.90E-07	0.00E+00	4.90E-07	0.00E+00	0.00E+00	4.97E-05	0.00E+00	0.00E+00	4.99E-05
552	ALL	634975	4176400	NonCancer	0.00E+00	4.72E-07	4.79E-05	0.00E+00	0.00E+00	4.81E-05	4.72E-07	0.00E+00	4.72E-07	0.00E+00	0.00E+00	4.79E-05	0.00E+00	0.00E+00	4.81E-05
553	ALL	635025	4176400	NonCancer	0.00E+00	4.60E-07	4.67E-05	0.00E+00	0.00E+00	4.69E-05	4.60E-07	0.00E+00	4.60E-07	0.00E+00	0.00E+00	4.67E-05	0.00E+00	0.00E+00	4.69E-05
554	ALL	635075	4176400	NonCancer	0.00E+00	4.47E-07	4.53E-05	0.00E+00	0.00E+00	4.55E-05	4.47E-07	0.00E+00	4.47E-07	0.00E+00	0.00E+00	4.53E-05	0.00E+00	0.00E+00	4.55E-05
555	ALL	635125	4176400	NonCancer	0.00E+00	4.31E-07	4.37E-05	0.00E+00	0.00E+00	4.39E-05	4.31E-07	0.00E+00	4.31E-07	0.00E+00	0.00E+00	4.37E-05	0.00E+00	0.00E+00	4.39E-05
556	ALL	635175	4176400	NonCancer	0.00E+00	4.22E-07	4.28E-05	0.00E+00	0.00E+00	4.30E-05	4.22E-07	0.00E+00	4.22E-07	0.00E+00	0.00E+00	4.28E-05	0.00E+00	0.00E+00	4.30E-05
557	ALL	635225	4176400	NonCancer	0.00E+00	4.11E-07	4.16E-05	0.00E+00	0.00E+00	4.18E-05	4.11E-07	0.00E+00	4.11E-07	0.00E+00	0.00E+00	4.16E-05	0.00E+00	0.00E+00	4.18E-05
558	ALL	635275	4176400	NonCancer	0.00E+00	3.97E-07	4.03E-05	0.00E+00	0.00E+00	4.04E-05	3.97E-07	0.00E+00	3.97E-07	0.00E+00	0.00E+00	4.03E-05	0.00E+00	0.00E+00	4.04E-05
559	ALL	635425	4176400	NonCancer	0.00E+00	3.67E-07	3.72E-05	0.00E+00	0.00E+00	3.73E-05	3.67E-07	0.00E+00	3.67E-07	0.00E+00	0.00E+00	3.72E-05	0.00E+00	0.00E+00	3.73E-05
560	ALL	635525	4176400	NonCancer	0.00E+00	3.40E-07	3.45E-05	0.00E+00	0.00E+00	3.46E-05	3.40E-07	0.00E+00	3.40E-07	0.00E+00	0.00E+00	3.45E-05	0.00E+00	0.00E+00	3.46E-05
561	ALL	635575	4176400	NonCancer	0.00E+00	3.26E-07	3.31E-05	0.00E+00	0.00E+00	3.32E-05	3.26E-07	0.00E+00	3.26E-07	0.00E+00	0.00E+00	3.31E-05	0.00E+00	0.00E+00	3.32E-05
562	ALL	633650	4176200	NonCancer	0.00E+00	1.70E-06	1.72E-04	0.00E+00	0.00E+00	1.73E-04	1.70E-06	0.00E+00	1.70E-06	0.00E+00	0.00E+00	1.72E-04	0.00E+00	0.00E+00	1.73E-04
563	ALL	633700	4176200	NonCancer	0.00E+00	1.58E-06	1.60E-04	0.00E+00	0.00E+00	1.61E-04	1.58E-06	0.00E+00	1.58E-06	0.00E+00	0.00E+00	1.60E-04	0.00E+00	0.00E+00	1.61E-04
564	ALL	633850	4176200	NonCancer	0.00E+00	1.30E-06	1.32E-04	0.00E+00	0.00E+00	1.32E-04	1.30E-06	0.00E+00	1.30E-06	0.00E+00	0.00E+00	1.32E-04	0.00E+00	0.00E+00	1.32E-04
565	ALL	633850	4176250	NonCancer	0.00E+00	1.25E-06	1.26E-04	0.00E+00	0.00E+00	1.27E-04	1.25E-06	0.00E+00	1.25E-06	0.00E+00	0.00E+00	1.26E-04	0.00E+00	0.00E+00	1.27E-04
566	ALL	633950	4176250	NonCancer	0.00E+00	1.14E-06	1.15E-04	0.00E+00	0.00E+00	1.16E-04	1.14E-06	0.00E+00	1.14E-06	0.00E+00	0.00E+00	1.15E-04	0.00E+00	0.00E+00	1.16E-04
567	ALL	634350	4176250	NonCancer	0.00E+00	7.59E-07	7.69E-05	0.00E+00	0.00E+00	7.73E-05	7.59E-07	0.00E+00	7.59E-07	0.00E+00	0.00E+00	7.69E-05	0.00E+00	0.00E+00	7.73E-05
568	ALL	633750	4176300	NonCancer	0.00E+00	1.52E-06	1.54E-04	0.00E+00	0.00E+00	1.55E-04	1.52E-06	0.00E+00	1.52E-06	0.00E+00	0.00E+00	1.54E-04	0.00E+00	0.00E+00	1.55E-04
569	ALL	633950	4176300	NonCancer	0.00E+00	1.08E-06	1.10E-04	0.00E+00	0.00E+00	1.10E-04	1.08E-06	0.00E+00	1.08E-06	0.00E+00	0.00E+00	1.10E-04	0.00E+00	0.00E+00	1.10E-04
570	ALL	634000	4176300	NonCancer	0.00E+00	1.05E-06	1.07E-04	0.00E+00	0.00E+00	1.07E-04	1.05E-06	0.00E+00	1.05E-06	0.00E+00	0.00E+00	1.07E-04	0.00E+00	0.00E+00	1.07E-04
571	ALL	634050	4176300	NonCancer	0.00E+00	9.97E-07	1.01E-04	0.00E+00	0.00E+00	1.01E-04	9.97E-07	0.00E+00	9.97E-07	0.00E+00	0.00E+00	1.01E-04	0.00E+00	0.00E+00	1.01E-04
572	ALL	634050	4176350	NonCancer	0.00E+00	9.55E-07	9.68E-05	0.00E+00	0.00E+00	9.72E-05	9.55E-07	0.00E+00	9.55E-07	0.00E+00	0.00E+00	9.68E-05	0.00E+00	0.00E+00	9.72E-05
573	ALL	634050	4176400	NonCancer	0.00E+00	9.52E-07	9.65E-05	0.00E+00	0.00E+00	9.69E-05	9.52E-07	0.00E+00	9.52E-07	0.00E+00	0.00E+00	9.65E-05	0.00E+00	0.00E+00	9.69E-05
574	ALL	634000	4176450	NonCancer	0.00E+00	1.06E-06	1.08E-04	0.00E+00	0.00E+00	1.08E-04	1.06E-06	0.00E+00	1.06E-06	0.00E+00	0.00E+00	1.08E-04	0.00E+00	0.00E+00	1.08E-04
575	ALL	634050	4176450	NonCancer	0.00E+00	9.85E-07	9.98E-05	0.00E+00	0.00E+00	1.00E-04	9.85E-07	0.00E+00	9.85E-07	0.00E+00	0.00E+00	9.98E-05	0.00E+00	0.00E+00	1.00E-04
576	ALL	634200	4176600	NonCancer	0.00E+00	8.33E-07	8.45E-05	0.00E+00	0.00E+00	8.48E-05	8.33E-07	0.00E+00	8.33E-07	0.00E+00	0.00E+00	8.45E-05	0.00E+00	0.00E+00	8.48E-05
577	ALL	634100	4176650	NonCancer	0.00E+00	8.87E-07	8.99E-05	0.00E+00	0.00E+00	9.03E-05	8.87E-07	0.00E+00	8.87E-07	0.00E+00	0.00E+00	8.99E-05	0.00E+00	0.00E+00	9.03E-05
578	ALL	634150	4176650	NonCancer	0.00E+00	8.40E-07	8.51E-05	0.00E+00	0.00E+00	8.54E-05	8.40E-07	0.00E+00	8.40E-07	0.00E+00	0.00E+00	8.51E-05	0.00E+00	0.00E+00	8.54E-05
579	ALL	634200	4176650	NonCancer	0.00E+00	8.07E-07	8.18E-05	0.00E+00	0.00E+00	8.21E-05	8.07E-07	0.00E+00	8.07E-07	0.00E+00	0.00E+00	8.18E-05	0.00E+00	0.00E+00	8.21E-05
580	ALL	634200	4176850	NonCancer	0.00E+00	7.13E-07	7.23E-05	0.00E+00	0.00E+00	7.26E-05	7.13E-07	0.00E+00	7.13E-07	0.00E+00	0.00E+00	7.23E-05	0.00E+00	0.00E+00	7.26E-05
581	ALL	634200	4176900	NonCancer	0.00E+00	7.10E-07	7.20E-05	0.00E+00	0.00E+00	7.23E-05	7.10E-07	0.00E+00	7.10E-07	0.00E+00	0.00E+00	7.20E-05	0.00E+00	0.00E+00	7.23E-05
582	ALL	634250	4176900	NonCancer	0.00E+00	6.81E-07	6.91E-05	0.00E+00	0.00E+00	6.93E-05	6.81E-07	0.00E+00	6.81E-07	0.00E+00	0.00E+00	6.91E-05	0.00E+00	0.00E+00	6.93E-05
583	ALL	634300	4176900	NonCancer	0.00E+00	6.68E-07	6.77E-05	0.00E+00	0.00E+00	6.79E-05	6.68E-07	0.00E+00	6.68E-07	0.00E+00	0.00E+00	6.77E-05	0.00E+00	0.00E+00	6.79E-05
584	ALL	634400	4177000	NonCancer	0.00E+00	5.88E-07	5.97E-05	0.00E+00	0.00E+00	5.99E-05	5.88E-07	0.00E+00	5.88E-07	0.00E+00	0.00E+00	5.97E-05	0.00E+00	0.00E+00	5.99E-05
585	ALL	634450	4177000	NonCancer	0.00E+00	5.82E-07	5.90E-05	0.00E+00	0.00E+00	5.93E-05	5.82E-07	0.00E+00	5.82E-07	0.00E+00	0.00E+00	5.90E-05	0.00E+00	0.00E+00	5.93E-05
586	ALL	634500	4177000	NonCancer	0.00E+00	5.67E-07	5.75E-05	0.00E+00	0.00E+00	5.77E-05	5.67E-07	0.00E+00	5.67E-07	0.00E+00	0.00E+00	5.75E-05	0.00E+00	0.00E+00	5.77E-05
587	ALL	634550	4177000	NonCancer	0.00E+00	5.58E-07	5.65E-05	0.00E+00	0.00E+00	5.68E-05	5.58E-07	0.00E+00	5.58E-07	0.00E+00	0.00E+00	5.65E-05	0.00E+00	0.00E+00	5.68E-05
588	ALL	634400	4177050	NonCancer	0.00E+00	5.89E-07	5.97E-05	0.00E+00	0.00E+00	6.00E-05	5.89E-07	0.00E+00	5.89E-07	0.00E+00	0.00E+00	5.97E-05	0.00E+00	0.00E+00	6.00E-05
589	ALL	634450	4177050	NonCancer	0.00E+00	5.51E-07	5.58E-05	0.00E+00	0.00E+00	5.60E-05	5.51E-07	0.00E+00	5.51E-07	0.00E+00	0.00E+00	5.58E-05	0.00E+00	0.00E+00	5.60E-05
590	ALL	634500	4177050	NonCancer	0.00E+00	5.57E-07	5.64E-05	0.00E+00	0.00E+00	5.67E-05	5.57E-07	0.00E+00	5.57E-07	0.00E+00	0.00E+00	5.64E-05	0.00E+00	0.00E+00	5.67E-05
591	ALL	634550	4177050	NonCancer	0.00E+00	5.42E-07	5.49E-05	0.00E+00	0.00E+00	5.52E-05	5.42E-07	0.00E+00	5.42E-07	0.00E+00	0.00E+00	5.49E-05	0.00E+00	0.00E+00	5.52E-05
592	ALL	633750	4173175	NonCancer	0.00E+00	7.88E-07	7.98E-05	0.00E+00	0.00E+00	8.02E-05	7.88E-07	0.00E+00	7.88E-07	0.00E+00	0.00E+00	7.98E-05	0.00E+00	0.00E+00	8.02E-05
593	ALL	634450	4173325	NonCancer	0.00E+00	5.06E-07	5.13E-05	0.00E+00	0.00E+00	5.15E-05	5.06E-07	0.00E+00	5.06E-07	0.00E+00	0.00E+00	5.13E-05	0.00E+00	0.00E+00	5.15E-05
594	ALL	634450	4173375	NonCancer	0.00E+00	4.50E-07	4.56E-05	0.00E+00	0.00E+00	4.58E-05	4.50E-07	0.00E+00	4.50E-07	0.00E+00	0.00E+00	4.56E-05	0.00E+00	0.00E+00	4.58E-05
595	ALL	634350	4173475	NonCancer	0.00E+00	5.78E-07	5.86E-05	0.00E+00	0.00E+00	5.88E-05	5.78E-07	0.00E+00	5.78E-07	0.00E+00	0.00E+00	5.86E-05	0.00E+00	0.00E+00	5.88E-05
596	ALL	634300	4173625	NonCancer	0.00E+00	5.04E-07	5.11E-05	0.00E+00	0.00E+00	5.13E-05	5.04E-07	0.00E+00	5.04E-07	0.00E+00	0.00E+00	5.11E-05	0.00E+00	0.00E+00	5.13E-05
597	ALL	634300	4173675	NonCancer	0.00E+00	6.31E-07	6.40E-05	0.00E+00	0.00E+00	6.43E-05	6.31E-07	0.00E+00	6.31E-07	0.00E+00	0.00E+00	6.40E-05	0.00E+00	0.00E+00	6.43E-05
598	ALL	634350	4173675	NonCancer	0.00E+00	7.43E-07	7.54E-05	0.00E+00	0.00E+00	7.57E-05	7.43E-07	0.00E+00	7.43E-07	0.00E+00	0.00E+00	7.54E-05	0.00E+00	0.00E+00	7.57E-05
599	ALL	634250	4173775	NonCancer	0.00E+00	7.56E-07	7.67E-05	0.00E+00	0.00E+00	7.70E-05	7.56E-07	0.00E+00	7.56E-07	0.00E+00	0.00E+00	7.67E-05	0.00E+00	0.00E+00	7.70E-05
600	ALL	633950	4173825	NonCancer	0.00E+00	1.07E-06	1.08E-04	0.00E+00	0.00E+00	1.09E-04	1.07E-06	0.00E+00	1.07E-06	0.00E+00	0.00E+00	1.08E-04	0.00E+00	0.00E+00	1.09E-04
601	ALL	634050	4173825	NonCancer	0.00E+00	9.97E-07	1.01E-04	0.00E+00	0.00E+00	1.01E-04	9.97E-07	0.00E+00	9.97E-07	0.00E+00	0.00E+00	1.01E-04	0.00E+00	0.00E+00	1.01E-04
602	ALL	634100	4173825	NonCancer	0.00E+00	8.95E-07	9.07E-05	0.00E+00	0.00E+00	9.11E-05	8.95E-07	0.00E+00	8.95E-07	0.00E+00	0.00E+00	9.07E-05	0.00E+00	0.00E+00	9.11E-05
603	ALL	634250	4173825	NonCancer	0.00E+00	8.82E-07	8.94E-05	0.00E+00	0.00E+00	8.98E-05	8.82E-07	0.00E+00	8.82E-07	0.00E+00	0.00E+00	8.94E-05	0.00E+00	0.00E+00	8.98E-05

604	ALL	634250	4173975	NonCancer	0.00E+00	9.98E-07	1.01E-04	0.00E+00	0.00E+00	1.02E-04	9.98E-07	0.00E+00	9.98E-07	0.00E+00	0.00E+00	1.01E-04	0.00E+00	0.00E+00	1.02E-04
605	ALL	634150	4174125	NonCancer	0.00E+00	1.22E-06	1.24E-04	0.00E+00	0.00E+00	1.24E-04	1.22E-06	0.00E+00	1.22E-06	0.00E+00	0.00E+00	1.24E-04	0.00E+00	0.00E+00	1.24E-04
606	ALL	634200	4174125	NonCancer	0.00E+00	1.16E-06	1.17E-04	0.00E+00	0.00E+00	1.18E-04	1.16E-06	0.00E+00	1.16E-06	0.00E+00	0.00E+00	1.17E-04	0.00E+00	0.00E+00	1.18E-04
607	ALL	634250	4174125	NonCancer	0.00E+00	9.37E-07	9.50E-05	0.00E+00	0.00E+00	9.54E-05	9.37E-07	0.00E+00	9.37E-07	0.00E+00	0.00E+00	9.50E-05	0.00E+00	0.00E+00	9.54E-05
608	ALL	634250	4174225	NonCancer	0.00E+00	1.13E-06	1.15E-04	0.00E+00	0.00E+00	1.15E-04	1.13E-06	0.00E+00	1.13E-06	0.00E+00	0.00E+00	1.15E-04	0.00E+00	0.00E+00	1.15E-04
609	ALL	634350	4174225	NonCancer	0.00E+00	1.21E-06	1.23E-04	0.00E+00	0.00E+00	1.24E-04	1.21E-06	0.00E+00	1.21E-06	0.00E+00	0.00E+00	1.23E-04	0.00E+00	0.00E+00	1.24E-04
610	ALL	634400	4174225	NonCancer	0.00E+00	1.05E-06	1.06E-04	0.00E+00	0.00E+00	1.06E-04	1.05E-06	0.00E+00	1.05E-06	0.00E+00	0.00E+00	1.06E-04	0.00E+00	0.00E+00	1.06E-04
611	ALL	634200	4174325	NonCancer	0.00E+00	1.47E-06	1.49E-04	0.00E+00	0.00E+00	1.49E-04	1.47E-06	0.00E+00	1.47E-06	0.00E+00	0.00E+00	1.49E-04	0.00E+00	0.00E+00	1.49E-04
612	ALL	634250	4174325	NonCancer	0.00E+00	1.43E-06	1.44E-04	0.00E+00	0.00E+00	1.45E-04	1.43E-06	0.00E+00	1.43E-06	0.00E+00	0.00E+00	1.44E-04	0.00E+00	0.00E+00	1.45E-04
613	ALL	634200	4174375	NonCancer	0.00E+00	1.58E-06	1.60E-04	0.00E+00	0.00E+00	1.61E-04	1.58E-06	0.00E+00	1.58E-06	0.00E+00	0.00E+00	1.60E-04	0.00E+00	0.00E+00	1.61E-04
614	ALL	634250	4174425	NonCancer	0.00E+00	1.30E-06	1.32E-04	0.00E+00	0.00E+00	1.33E-04	1.30E-06	0.00E+00	1.30E-06	0.00E+00	0.00E+00	1.32E-04	0.00E+00	0.00E+00	1.33E-04
615	ALL	634000	4174475	NonCancer	0.00E+00	1.49E-06	1.51E-04	0.00E+00	0.00E+00	1.51E-04	1.49E-06	0.00E+00	1.49E-06	0.00E+00	0.00E+00	1.51E-04	0.00E+00	0.00E+00	1.51E-04
616	ALL	634250	4174525	NonCancer	0.00E+00	1.53E-06	1.55E-04	0.00E+00	0.00E+00	1.56E-04	1.53E-06	0.00E+00	1.53E-06	0.00E+00	0.00E+00	1.55E-04	0.00E+00	0.00E+00	1.56E-04
617	ALL	634100	4174575	NonCancer	0.00E+00	1.89E-06	1.92E-04	0.00E+00	0.00E+00	1.93E-04	1.89E-06	0.00E+00	1.89E-06	0.00E+00	0.00E+00	1.92E-04	0.00E+00	0.00E+00	1.93E-04
618	ALL	634150	4174575	NonCancer	0.00E+00	1.82E-06	1.84E-04	0.00E+00	0.00E+00	1.85E-04	1.82E-06	0.00E+00	1.82E-06	0.00E+00	0.00E+00	1.84E-04	0.00E+00	0.00E+00	1.85E-04
619	ALL	634200	4174575	NonCancer	0.00E+00	1.69E-06	1.72E-04	0.00E+00	0.00E+00	1.72E-04	1.69E-06	0.00E+00	1.69E-06	0.00E+00	0.00E+00	1.72E-04	0.00E+00	0.00E+00	1.72E-04
620	ALL	634250	4174575	NonCancer	0.00E+00	1.52E-06	1.54E-04	0.00E+00	0.00E+00	1.55E-04	1.52E-06	0.00E+00	1.52E-06	0.00E+00	0.00E+00	1.54E-04	0.00E+00	0.00E+00	1.55E-04
621	ALL	634250	4174625	NonCancer	0.00E+00	1.51E-06	1.53E-04	0.00E+00	0.00E+00	1.54E-04	1.51E-06	0.00E+00	1.51E-06	0.00E+00	0.00E+00	1.53E-04	0.00E+00	0.00E+00	1.54E-04
622	ALL	634250	4174675	NonCancer	0.00E+00	1.72E-06	1.74E-04	0.00E+00	0.00E+00	1.75E-04	1.72E-06	0.00E+00	1.72E-06	0.00E+00	0.00E+00	1.74E-04	0.00E+00	0.00E+00	1.75E-04
623	ALL	634250	4174825	NonCancer	0.00E+00	2.37E-06	2.40E-04	0.00E+00	0.00E+00	2.41E-04	2.37E-06	0.00E+00	2.37E-06	0.00E+00	0.00E+00	2.40E-04	0.00E+00	0.00E+00	2.41E-04
624	ALL	634250	4174875	NonCancer	0.00E+00	1.69E-06	1.71E-04	0.00E+00	0.00E+00	1.71E-04	1.69E-06	0.00E+00	1.69E-06	0.00E+00	0.00E+00	1.71E-04	0.00E+00	0.00E+00	1.71E-04
625	ALL	634200	4174925	NonCancer	0.00E+00	2.06E-06	2.09E-04	0.00E+00	0.00E+00	2.10E-04	2.06E-06	0.00E+00	2.06E-06	0.00E+00	0.00E+00	2.09E-04	0.00E+00	0.00E+00	2.10E-04
626	ALL	634250	4174925	NonCancer	0.00E+00	2.46E-06	2.50E-04	0.00E+00	0.00E+00	2.51E-04	2.46E-06	0.00E+00	2.46E-06	0.00E+00	0.00E+00	2.50E-04	0.00E+00	0.00E+00	2.51E-04
627	ALL	631950	4173950	NonCancer	0.00E+00	8.21E-07	8.32E-05	0.00E+00	0.00E+00	8.35E-05	8.21E-07	0.00E+00	8.21E-07	0.00E+00	0.00E+00	8.32E-05	0.00E+00	0.00E+00	8.35E-05
628	ALL	631550	4174000	NonCancer	0.00E+00	4.93E-07	5.00E-05	0.00E+00	0.00E+00	5.02E-05	4.93E-07	0.00E+00	4.93E-07	0.00E+00	0.00E+00	5.00E-05	0.00E+00	0.00E+00	5.02E-05
629	ALL	631550	4174050	NonCancer	0.00E+00	5.07E-07	5.14E-05	0.00E+00	0.00E+00	5.16E-05	5.07E-07	0.00E+00	5.07E-07	0.00E+00	0.00E+00	5.14E-05	0.00E+00	0.00E+00	5.16E-05
630	ALL	631750	4174250	NonCancer	0.00E+00	9.65E-07	9.78E-05	0.00E+00	0.00E+00	9.82E-05	9.65E-07	0.00E+00	9.65E-07	0.00E+00	0.00E+00	9.78E-05	0.00E+00	0.00E+00	9.82E-05
631	ALL	632300	4174300	NonCancer	0.00E+00	2.07E-06	2.10E-04	0.00E+00	0.00E+00	2.11E-04	2.07E-06	0.00E+00	2.07E-06	0.00E+00	0.00E+00	2.10E-04	0.00E+00	0.00E+00	2.11E-04
632	ALL	632350	4174300	NonCancer	0.00E+00	2.44E-06	2.47E-04	0.00E+00	0.00E+00	2.48E-04	2.44E-06	0.00E+00	2.44E-06	0.00E+00	0.00E+00	2.47E-04	0.00E+00	0.00E+00	2.48E-04
633	ALL	632300	4174350	NonCancer	0.00E+00	1.84E-06	1.86E-04	0.00E+00	0.00E+00	1.87E-04	1.84E-06	0.00E+00	1.84E-06	0.00E+00	0.00E+00	1.86E-04	0.00E+00	0.00E+00	1.87E-04
634	ALL	632350	4174350	NonCancer	0.00E+00	2.58E-06	2.62E-04	0.00E+00	0.00E+00	2.63E-04	2.58E-06	0.00E+00	2.58E-06	0.00E+00	0.00E+00	2.62E-04	0.00E+00	0.00E+00	2.63E-04
635	ALL	631600	4174400	NonCancer	0.00E+00	1.30E-06	1.32E-04	0.00E+00	0.00E+00	1.33E-04	1.30E-06	0.00E+00	1.30E-06	0.00E+00	0.00E+00	1.32E-04	0.00E+00	0.00E+00	1.33E-04
636	ALL	631650	4174400	NonCancer	0.00E+00	1.50E-06	1.53E-04	0.00E+00	0.00E+00	1.53E-04	1.50E-06	0.00E+00	1.50E-06	0.00E+00	0.00E+00	1.53E-04	0.00E+00	0.00E+00	1.53E-04
637	ALL	632000	4174400	NonCancer	0.00E+00	2.88E-06	2.92E-04	0.00E+00	0.00E+00	2.93E-04	2.88E-06	0.00E+00	2.88E-06	0.00E+00	0.00E+00	2.92E-04	0.00E+00	0.00E+00	2.93E-04
638	ALL	632000	4174450	NonCancer	0.00E+00	2.52E-06	2.55E-04	0.00E+00	0.00E+00	2.56E-04	2.52E-06	0.00E+00	2.52E-06	0.00E+00	0.00E+00	2.55E-04	0.00E+00	0.00E+00	2.56E-04
639	ALL	631950	4174500	NonCancer	0.00E+00	1.95E-06	1.98E-04	0.00E+00	0.00E+00	1.98E-04	1.95E-06	0.00E+00	1.95E-06	0.00E+00	0.00E+00	1.98E-04	0.00E+00	0.00E+00	1.98E-04
640	ALL	632150	4174950	NonCancer	0.00E+00	3.94E-06	4.00E-04	0.00E+00	0.00E+00	4.01E-04	3.94E-06	0.00E+00	3.94E-06	0.00E+00	0.00E+00	4.00E-04	0.00E+00	0.00E+00	4.01E-04
641	ALL	632200	4174950	NonCancer	0.00E+00	3.11E-06	3.15E-04	0.00E+00	0.00E+00	3.16E-04	3.11E-06	0.00E+00	3.11E-06	0.00E+00	0.00E+00	3.15E-04	0.00E+00	0.00E+00	3.16E-04

*HARP - HRACalc v19044 1/12/2021 10:09:32 AM - Chronic Risk - Input File: C:\Users\swang\Desktop\SchulteOpMit\hra\ChronicMitHRAInput.hra

REC	GRP	NETID	X	Y	SCENARIO	CV	CNS	IMMUN	KIDNEY	GILV	REPRO/DE\	RESP	SKIN	EYE	BONE/TEET	ENDO	BLOOD	ODOR	GENERAL	MAXHI
1	ALL		631050	4178050	NonCancer	0.00E+00	4.88E-10	0.00E+00	0.00E+00	0.00E+00	3.55E-10	1.13E-04	0.00E+00	1.33E-10	0.00E+00	0.00E+00	6.49E-09	0.00E+00	0.00E+00	1.13E-04
2	ALL		631150	4178250	NonCancer	0.00E+00	4.67E-10	0.00E+00	0.00E+00	0.00E+00	3.40E-10	1.20E-04	0.00E+00	1.27E-10	0.00E+00	0.00E+00	6.21E-09	0.00E+00	0.00E+00	1.20E-04
3	ALL		631250	4178250	NonCancer	0.00E+00	4.83E-10	0.00E+00	0.00E+00	0.00E+00	3.52E-10	1.17E-04	0.00E+00	1.31E-10	0.00E+00	0.00E+00	6.42E-09	0.00E+00	0.00E+00	1.17E-04
4	ALL		631350	4178250	NonCancer	0.00E+00	5.00E-10	0.00E+00	0.00E+00	0.00E+00	3.64E-10	1.20E-04	0.00E+00	1.36E-10	0.00E+00	0.00E+00	6.65E-09	0.00E+00	0.00E+00	1.20E-04
5	ALL		631450	4178250	NonCancer	0.00E+00	5.19E-10	0.00E+00	0.00E+00	0.00E+00	3.78E-10	1.21E-04	0.00E+00	1.41E-10	0.00E+00	0.00E+00	6.90E-09	0.00E+00	0.00E+00	1.21E-04
6	ALL		631550	4178250	NonCancer	0.00E+00	5.39E-10	0.00E+00	0.00E+00	0.00E+00	3.92E-10	1.24E-04	0.00E+00	1.46E-10	0.00E+00	0.00E+00	7.16E-09	0.00E+00	0.00E+00	1.24E-04
7	ALL		631650	4178250	NonCancer	0.00E+00	5.53E-10	0.00E+00	0.00E+00	0.00E+00	4.03E-10	1.41E-04	0.00E+00	1.50E-10	0.00E+00	0.00E+00	7.35E-09	0.00E+00	0.00E+00	1.41E-04
8	ALL		631750	4178250	NonCancer	0.00E+00	5.63E-10	0.00E+00	0.00E+00	0.00E+00	4.10E-10	1.48E-04	0.00E+00	1.53E-10	0.00E+00	0.00E+00	7.48E-09	0.00E+00	0.00E+00	1.48E-04
9	ALL		631150	4178350	NonCancer	0.00E+00	4.47E-10	0.00E+00	0.00E+00	0.00E+00	3.26E-10	1.14E-04	0.00E+00	1.22E-10	0.00E+00	0.00E+00	5.94E-09	0.00E+00	0.00E+00	1.14E-04
10	ALL		631450	4178350	NonCancer	0.00E+00	4.96E-10	0.00E+00	0.00E+00	0.00E+00	3.61E-10	1.17E-04	0.00E+00	1.35E-10	0.00E+00	0.00E+00	6.59E-09	0.00E+00	0.00E+00	1.17E-04
11	ALL		631550	4178350	NonCancer	0.00E+00	5.11E-10	0.00E+00	0.00E+00	0.00E+00	3.72E-10	1.26E-04	0.00E+00	1.39E-10	0.00E+00	0.00E+00	6.80E-09	0.00E+00	0.00E+00	1.26E-04
12	ALL		631650	4178350	NonCancer	0.00E+00	5.23E-10	0.00E+00	0.00E+00	0.00E+00	3.81E-10	1.40E-04	0.00E+00	1.42E-10	0.00E+00	0.00E+00	6.95E-09	0.00E+00	0.00E+00	1.40E-04
13	ALL		631750	4178350	NonCancer	0.00E+00	5.29E-10	0.00E+00	0.00E+00	0.00E+00	3.85E-10	1.41E-04	0.00E+00	1.44E-10	0.00E+00	0.00E+00	7.04E-09	0.00E+00	0.00E+00	1.41E-04
14	ALL		630650	4178450	NonCancer	0.00E+00	3.63E-10	0.00E+00	0.00E+00	0.00E+00	2.64E-10	9.11E-05	0.00E+00	9.88E-11	0.00E+00	0.00E+00	4.83E-09	0.00E+00	0.00E+00	9.11E-05
15	ALL		630850	4178450	NonCancer	0.00E+00	3.90E-10	0.00E+00	0.00E+00	0.00E+00	2.84E-10	1.00E-04	0.00E+00	1.06E-10	0.00E+00	0.00E+00	5.19E-09	0.00E+00	0.00E+00	1.00E-04
16	ALL		631050	4178450	NonCancer	0.00E+00	4.16E-10	0.00E+00	0.00E+00	0.00E+00	3.03E-10	1.12E-04	0.00E+00	1.13E-10	0.00E+00	0.00E+00	5.52E-09	0.00E+00	0.00E+00	1.12E-04
17	ALL		631150	4178450	NonCancer	0.00E+00	4.29E-10	0.00E+00	0.00E+00	0.00E+00	3.12E-10	1.06E-04	0.00E+00	1.17E-10	0.00E+00	0.00E+00	5.70E-09	0.00E+00	0.00E+00	1.06E-04
18	ALL		631250	4178450	NonCancer	0.00E+00	4.43E-10	0.00E+00	0.00E+00	0.00E+00	3.22E-10	1.08E-04	0.00E+00	1.20E-10	0.00E+00	0.00E+00	5.89E-09	0.00E+00	0.00E+00	1.08E-04
19	ALL		631550	4178450	NonCancer	0.00E+00	4.85E-10	0.00E+00	0.00E+00	0.00E+00	3.53E-10	1.29E-04	0.00E+00	1.32E-10	0.00E+00	0.00E+00	6.45E-09	0.00E+00	0.00E+00	1.29E-04
20	ALL		631650	4178450	NonCancer	0.00E+00	4.93E-10	0.00E+00	0.00E+00	0.00E+00	3.59E-10	1.33E-04	0.00E+00	1.34E-10	0.00E+00	0.00E+00	6.56E-09	0.00E+00	0.00E+00	1.33E-04
21	ALL		631750	4178450	NonCancer	0.00E+00	4.98E-10	0.00E+00	0.00E+00	0.00E+00	3.63E-10	1.34E-04	0.00E+00	1.35E-10	0.00E+00	0.00E+00	6.62E-09	0.00E+00	0.00E+00	1.34E-04
22	ALL		631850	4178450	NonCancer	0.00E+00	5.06E-10	0.00E+00	0.00E+00	0.00E+00	3.68E-10	1.37E-04	0.00E+00	1.38E-10	0.00E+00	0.00E+00	6.72E-09	0.00E+00	0.00E+00	1.37E-04
23	ALL		631950	4178450	NonCancer	0.00E+00	5.20E-10	0.00E+00	0.00E+00	0.00E+00	3.78E-10	1.39E-04	0.00E+00	1.41E-10	0.00E+00	0.00E+00	6.91E-09	0.00E+00	0.00E+00	1.39E-04
24	ALL		632050	4178450	NonCancer	0.00E+00	5.39E-10	0.00E+00	0.00E+00	0.00E+00	3.93E-10	1.39E-04	0.00E+00	1.47E-10	0.00E+00	0.00E+00	7.17E-09	0.00E+00	0.00E+00	1.39E-04
25	ALL		632150	4178450	NonCancer	0.00E+00	5.62E-10	0.00E+00	0.00E+00	0.00E+00	4.09E-10	1.43E-04	0.00E+00	1.53E-10	0.00E+00	0.00E+00	7.47E-09	0.00E+00	0.00E+00	1.43E-04
26	ALL		630550	4178550	NonCancer	0.00E+00	3.40E-10	0.00E+00	0.00E+00	0.00E+00	2.48E-10	8.67E-05	0.00E+00	9.25E-11	0.00E+00	0.00E+00	4.52E-09	0.00E+00	0.00E+00	8.67E-05
27	ALL		630650	4178550	NonCancer	0.00E+00	3.52E-10	0.00E+00	0.00E+00	0.00E+00	2.56E-10	8.81E-05	0.00E+00	9.58E-11	0.00E+00	0.00E+00	4.68E-09	0.00E+00	0.00E+00	8.81E-05
28	ALL		630750	4178550	NonCancer	0.00E+00	3.64E-10	0.00E+00	0.00E+00	0.00E+00	2.65E-10	9.47E-05	0.00E+00	9.91E-11	0.00E+00	0.00E+00	4.85E-09	0.00E+00	0.00E+00	9.47E-05
29	ALL		630950	4178550	NonCancer	0.00E+00	3.88E-10	0.00E+00	0.00E+00	0.00E+00	2.82E-10	1.10E-04	0.00E+00	1.05E-10	0.00E+00	0.00E+00	5.15E-09	0.00E+00	0.00E+00	1.10E-04
30	ALL		631050	4178550	NonCancer	0.00E+00	3.99E-10	0.00E+00	0.00E+00	0.00E+00	2.91E-10	1.02E-04	0.00E+00	1.09E-10	0.00E+00	0.00E+00	5.31E-09	0.00E+00	0.00E+00	1.02E-04
31	ALL		631250	4178550	NonCancer	0.00E+00	4.25E-10	0.00E+00	0.00E+00	0.00E+00	3.10E-10	1.03E-04	0.00E+00	1.16E-10	0.00E+00	0.00E+00	5.65E-09	0.00E+00	0.00E+00	1.03E-04
32	ALL		631350	4178550	NonCancer	0.00E+00	4.39E-10	0.00E+00	0.00E+00	0.00E+00	3.20E-10	1.05E-04	0.00E+00	1.19E-10	0.00E+00	0.00E+00	5.84E-09	0.00E+00	0.00E+00	1.05E-04
33	ALL		631450	4178550	NonCancer	0.00E+00	4.52E-10	0.00E+00	0.00E+00	0.00E+00	3.29E-10	1.16E-04	0.00E+00	1.23E-10	0.00E+00	0.00E+00	6.01E-09	0.00E+00	0.00E+00	1.16E-04
34	ALL		631550	4178550	NonCancer	0.00E+00	4.61E-10	0.00E+00	0.00E+00	0.00E+00	3.35E-10	1.26E-04	0.00E+00	1.25E-10	0.00E+00	0.00E+00	6.12E-09	0.00E+00	0.00E+00	1.26E-04
35	ALL		631650	4178550	NonCancer	0.00E+00	4.66E-10	0.00E+00	0.00E+00	0.00E+00	3.39E-10	1.27E-04	0.00E+00	1.27E-10	0.00E+00	0.00E+00	6.20E-09	0.00E+00	0.00E+00	1.27E-04
36	ALL		631750	4178550	NonCancer	0.00E+00	4.71E-10	0.00E+00	0.00E+00	0.00E+00	3.43E-10	1.30E-04	0.00E+00	1.28E-10	0.00E+00	0.00E+00	6.26E-09	0.00E+00	0.00E+00	1.30E-04
37	ALL		631850	4178550	NonCancer	0.00E+00	4.80E-10	0.00E+00	0.00E+00	0.00E+00	3.49E-10	1.29E-04	0.00E+00	1.30E-10	0.00E+00	0.00E+00	6.38E-09	0.00E+00	0.00E+00	1.29E-04
38	ALL		631950	4178550	NonCancer	0.00E+00	4.94E-10	0.00E+00	0.00E+00	0.00E+00	3.60E-10	1.33E-04	0.00E+00	1.34E-10	0.00E+00	0.00E+00	6.57E-09	0.00E+00	0.00E+00	1.33E-04
39	ALL		632050	4178550	NonCancer	0.00E+00	5.13E-10	0.00E+00	0.00E+00	0.00E+00	3.74E-10	1.28E-04	0.00E+00	1.40E-10	0.00E+00	0.00E+00	6.82E-09	0.00E+00	0.00E+00	1.28E-04
40	ALL		632150	4178550	NonCancer	0.00E+00	5.33E-10	0.00E+00	0.00E+00	0.00E+00	3.88E-10	1.36E-04	0.00E+00	1.45E-10	0.00E+00	0.00E+00	7.08E-09	0.00E+00	0.00E+00	1.36E-04
41	ALL		630450	4178650	NonCancer	0.00E+00	3.19E-10	0.00E+00	0.00E+00	0.00E+00	2.32E-10	8.25E-05	0.00E+00	8.68E-11	0.00E+00	0.00E+00	4.24E-09	0.00E+00	0.00E+00	8.25E-05
42	ALL		630550	4178650	NonCancer	0.00E+00	3.30E-10	0.00E+00	0.00E+00	0.00E+00	2.41E-10	8.26E-05	0.00E+00	8.98E-11	0.00E+00	0.00E+00	4.39E-09	0.00E+00	0.00E+00	8.26E-05
43	ALL		630650	4178650	NonCancer	0.00E+00	3.41E-10	0.00E+00	0.00E+00	0.00E+00	2.49E-10	8.94E-05	0.00E+00	9.28E-11	0.00E+00	0.00E+00	4.54E-09	0.00E+00	0.00E+00	8.94E-05
44	ALL		630750	4178650	NonCancer	0.00E+00	3.52E-10	0.00E+00	0.00E+00	0.00E+00	2.56E-10	1.00E-04	0.00E+00	9.58E-11	0.00E+00	0.00E+00	4.68E-09	0.00E+00	0.00E+00	1.00E-04
45	ALL		630850	4178650	NonCancer	0.00E+00	3.63E-10	0.00E+00	0.00E+00	0.00E+00	2.64E-10	1.06E-04	0.00E+00	9.86E-11	0.00E+00	0.00E+00	4.82E-09	0.00E+00	0.00E+00	1.06E-04
46	ALL		630950	4178650	NonCancer	0.00E+00	3.73E-10	0.00E+00	0.00E+00	0.00E+00	2.71E-10	1.02E-04	0.00E+00	1.01E-10	0.00E+00	0.00E+00	4.96E-09	0.00E+00	0.00E+00	1.02E-04
47	ALL		631050	4178650	NonCancer	0.00E+00	3.84E-10	0.00E+00	0.00E+00	0.00E+00	2.79E-10	9.65E-05	0.00E+00	1.04E-10	0.00E+00	0.00E+00	5.10E-09	0.00E+00	0.00E+00	9.65E-05
48	ALL		631150	4178650	NonCancer	0.00E+00	3.96E-10	0.00E+00	0.00E+00	0.00E+00	2.88E-10	9.66E-05	0.00E+00	1.08E-10	0.00E+00	0.00E+00	5.26E-09	0.00E+00	0.00E+00	9.66E-05
49	ALL		631250	4178650	NonCancer	0.00E+00	4.09E-10	0.00E+00	0.00E+00	0.00E+00	2.98E-10	1.00E-04	0.00E+00	1.11E-10	0.00E+00	0.00E+00	5.43E-09	0.00E+00	0.00E+00	1.00E-04
50	ALL		631350	4178650	NonCancer	0.00E+00	4.21E-10	0.00E+00	0.00E+00	0.00E+00	3.07E-10	1.03E-04	0.00E+00	1.14E-10	0.00E+00	0.00E+00	5.60E-09	0.00E+00	0.00E+00	1.03E-04
51	ALL		631450	4178650	NonCancer	0.00E+00	4.31E-10	0.00E+00	0.00E+00	0.00E+00	3.14E-10	1.18E-04	0.00E+00	1.17E-10	0.00E+00	0.00E+00	5.72E-09	0.00E+00	0.00E+00	1.18E-04
52	ALL		631550	4178650	NonCancer	0.00E+00	4.37E-10	0.00E+00	0.00E+00	0.00E+00	3.18E-10	1.21E-04	0.00E+00	1.19E-10	0.00E+00	0.00E+00	5.81E-09	0.00E+00	0.00E+00	1.21E-04
53	ALL		631650	4178650	NonCancer	0.00E+00	4.41E-10	0.00E+00	0.00E+00	0.00E+00	3.21E-10	1.22E-04	0.00E+00	1.20E-10	0.00E+00	0.00E+00	5.87E-09	0.00E+00	0.00E+00	1.22E-04

54	ALL	631750	4178650	NonCancer	0.00E+00	4.46E-10	0.00E+00	0.00E+00	0.00E+00	3.25E-10	1.25E-04	0.00E+00	1.21E-10	0.00E+00	0.00E+00	5.94E-09	0.00E+00	0.00E+00	1.25E-04
55	ALL	631850	4178650	NonCancer	0.00E+00	4.57E-10	0.00E+00	0.00E+00	0.00E+00	3.32E-10	1.26E-04	0.00E+00	1.24E-10	0.00E+00	0.00E+00	6.07E-09	0.00E+00	0.00E+00	1.26E-04
56	ALL	631950	4178650	NonCancer	0.00E+00	4.71E-10	0.00E+00	0.00E+00	0.00E+00	3.43E-10	1.27E-04	0.00E+00	1.28E-10	0.00E+00	0.00E+00	6.27E-09	0.00E+00	0.00E+00	1.27E-04
57	ALL	632050	4178650	NonCancer	0.00E+00	4.89E-10	0.00E+00	0.00E+00	0.00E+00	3.56E-10	1.27E-04	0.00E+00	1.33E-10	0.00E+00	0.00E+00	6.50E-09	0.00E+00	0.00E+00	1.27E-04
58	ALL	632150	4178650	NonCancer	0.00E+00	5.06E-10	0.00E+00	0.00E+00	0.00E+00	3.68E-10	1.28E-04	0.00E+00	1.38E-10	0.00E+00	0.00E+00	6.73E-09	0.00E+00	0.00E+00	1.28E-04
59	ALL	630350	4178750	NonCancer	0.00E+00	3.01E-10	0.00E+00	0.00E+00	0.00E+00	2.19E-10	7.88E-05	0.00E+00	8.17E-11	0.00E+00	0.00E+00	3.99E-09	0.00E+00	0.00E+00	7.88E-05
60	ALL	630450	4178750	NonCancer	0.00E+00	3.11E-10	0.00E+00	0.00E+00	0.00E+00	2.26E-10	7.74E-05	0.00E+00	8.44E-11	0.00E+00	0.00E+00	4.13E-09	0.00E+00	0.00E+00	7.74E-05
61	ALL	630550	4178750	NonCancer	0.00E+00	3.21E-10	0.00E+00	0.00E+00	0.00E+00	2.34E-10	8.45E-05	0.00E+00	8.72E-11	0.00E+00	0.00E+00	4.26E-09	0.00E+00	0.00E+00	8.45E-05
62	ALL	630650	4178750	NonCancer	0.00E+00	3.31E-10	0.00E+00	0.00E+00	0.00E+00	2.41E-10	9.49E-05	0.00E+00	8.99E-11	0.00E+00	0.00E+00	4.39E-09	0.00E+00	0.00E+00	9.49E-05
63	ALL	630750	4178750	NonCancer	0.00E+00	3.40E-10	0.00E+00	0.00E+00	0.00E+00	2.48E-10	1.03E-04	0.00E+00	9.25E-11	0.00E+00	0.00E+00	4.52E-09	0.00E+00	0.00E+00	1.03E-04
64	ALL	630850	4178750	NonCancer	0.00E+00	3.49E-10	0.00E+00	0.00E+00	0.00E+00	2.54E-10	1.01E-04	0.00E+00	9.50E-11	0.00E+00	0.00E+00	4.64E-09	0.00E+00	0.00E+00	1.01E-04
65	ALL	630950	4178750	NonCancer	0.00E+00	3.59E-10	0.00E+00	0.00E+00	0.00E+00	2.61E-10	9.18E-05	0.00E+00	9.76E-11	0.00E+00	0.00E+00	4.77E-09	0.00E+00	0.00E+00	9.18E-05
66	ALL	631050	4178750	NonCancer	0.00E+00	3.69E-10	0.00E+00	0.00E+00	0.00E+00	2.69E-10	9.29E-05	0.00E+00	1.00E-10	0.00E+00	0.00E+00	4.91E-09	0.00E+00	0.00E+00	9.29E-05
67	ALL	631150	4178750	NonCancer	0.00E+00	3.81E-10	0.00E+00	0.00E+00	0.00E+00	2.77E-10	9.51E-05	0.00E+00	1.04E-10	0.00E+00	0.00E+00	5.06E-09	0.00E+00	0.00E+00	9.51E-05
68	ALL	631250	4178750	NonCancer	0.00E+00	3.93E-10	0.00E+00	0.00E+00	0.00E+00	2.86E-10	9.58E-05	0.00E+00	1.07E-10	0.00E+00	0.00E+00	5.22E-09	0.00E+00	0.00E+00	9.58E-05
69	ALL	631350	4178750	NonCancer	0.00E+00	4.03E-10	0.00E+00	0.00E+00	0.00E+00	2.93E-10	1.08E-04	0.00E+00	1.10E-10	0.00E+00	0.00E+00	5.36E-09	0.00E+00	0.00E+00	1.08E-04
70	ALL	631450	4178750	NonCancer	0.00E+00	4.10E-10	0.00E+00	0.00E+00	0.00E+00	2.99E-10	1.15E-04	0.00E+00	1.12E-10	0.00E+00	0.00E+00	5.45E-09	0.00E+00	0.00E+00	1.15E-04
71	ALL	631550	4178750	NonCancer	0.00E+00	4.15E-10	0.00E+00	0.00E+00	0.00E+00	3.02E-10	1.15E-04	0.00E+00	1.13E-10	0.00E+00	0.00E+00	5.51E-09	0.00E+00	0.00E+00	1.15E-04
72	ALL	631650	4178750	NonCancer	0.00E+00	4.19E-10	0.00E+00	0.00E+00	0.00E+00	3.05E-10	1.18E-04	0.00E+00	1.14E-10	0.00E+00	0.00E+00	5.57E-09	0.00E+00	0.00E+00	1.18E-04
73	ALL	631750	4178750	NonCancer	0.00E+00	4.25E-10	0.00E+00	0.00E+00	0.00E+00	3.09E-10	1.18E-04	0.00E+00	1.16E-10	0.00E+00	0.00E+00	5.65E-09	0.00E+00	0.00E+00	1.18E-04
74	ALL	631850	4178750	NonCancer	0.00E+00	4.36E-10	0.00E+00	0.00E+00	0.00E+00	3.17E-10	1.21E-04	0.00E+00	1.18E-10	0.00E+00	0.00E+00	5.79E-09	0.00E+00	0.00E+00	1.21E-04
75	ALL	631950	4178750	NonCancer	0.00E+00	4.51E-10	0.00E+00	0.00E+00	0.00E+00	3.28E-10	1.18E-04	0.00E+00	1.23E-10	0.00E+00	0.00E+00	5.99E-09	0.00E+00	0.00E+00	1.18E-04
76	ALL	632050	4178750	NonCancer	0.00E+00	4.67E-10	0.00E+00	0.00E+00	0.00E+00	3.40E-10	1.24E-04	0.00E+00	1.27E-10	0.00E+00	0.00E+00	6.21E-09	0.00E+00	0.00E+00	1.24E-04
77	ALL	632150	4178750	NonCancer	0.00E+00	4.80E-10	0.00E+00	0.00E+00	0.00E+00	3.50E-10	1.24E-04	0.00E+00	1.31E-10	0.00E+00	0.00E+00	6.38E-09	0.00E+00	0.00E+00	1.24E-04
78	ALL	630250	4178850	NonCancer	0.00E+00	2.84E-10	0.00E+00	0.00E+00	0.00E+00	2.06E-10	7.58E-05	0.00E+00	7.71E-11	0.00E+00	0.00E+00	3.77E-09	0.00E+00	0.00E+00	7.58E-05
79	ALL	630350	4178850	NonCancer	0.00E+00	2.93E-10	0.00E+00	0.00E+00	0.00E+00	2.13E-10	7.34E-05	0.00E+00	7.96E-11	0.00E+00	0.00E+00	3.89E-09	0.00E+00	0.00E+00	7.34E-05
80	ALL	630450	4178850	NonCancer	0.00E+00	3.02E-10	0.00E+00	0.00E+00	0.00E+00	2.20E-10	7.99E-05	0.00E+00	8.21E-11	0.00E+00	0.00E+00	4.01E-09	0.00E+00	0.00E+00	7.99E-05
81	ALL	630550	4178850	NonCancer	0.00E+00	3.11E-10	0.00E+00	0.00E+00	0.00E+00	2.27E-10	9.03E-05	0.00E+00	8.46E-11	0.00E+00	0.00E+00	4.14E-09	0.00E+00	0.00E+00	9.03E-05
82	ALL	630650	4178850	NonCancer	0.00E+00	3.20E-10	0.00E+00	0.00E+00	0.00E+00	2.33E-10	9.91E-05	0.00E+00	8.69E-11	0.00E+00	0.00E+00	4.25E-09	0.00E+00	0.00E+00	9.91E-05
83	ALL	630750	4178850	NonCancer	0.00E+00	3.28E-10	0.00E+00	0.00E+00	0.00E+00	2.39E-10	9.96E-05	0.00E+00	8.93E-11	0.00E+00	0.00E+00	4.36E-09	0.00E+00	0.00E+00	9.96E-05
84	ALL	630850	4178850	NonCancer	0.00E+00	3.37E-10	0.00E+00	0.00E+00	0.00E+00	2.45E-10	9.02E-05	0.00E+00	9.16E-11	0.00E+00	0.00E+00	4.48E-09	0.00E+00	0.00E+00	9.02E-05
85	ALL	630950	4178850	NonCancer	0.00E+00	3.46E-10	0.00E+00	0.00E+00	0.00E+00	2.52E-10	8.87E-05	0.00E+00	9.41E-11	0.00E+00	0.00E+00	4.60E-09	0.00E+00	0.00E+00	8.87E-05
86	ALL	631050	4178850	NonCancer	0.00E+00	3.56E-10	0.00E+00	0.00E+00	0.00E+00	2.59E-10	8.94E-05	0.00E+00	9.69E-11	0.00E+00	0.00E+00	4.74E-09	0.00E+00	0.00E+00	8.94E-05
87	ALL	631150	4178850	NonCancer	0.00E+00	3.67E-10	0.00E+00	0.00E+00	0.00E+00	2.67E-10	9.08E-05	0.00E+00	9.98E-11	0.00E+00	0.00E+00	4.88E-09	0.00E+00	0.00E+00	9.08E-05
88	ALL	631250	4178850	NonCancer	0.00E+00	3.77E-10	0.00E+00	0.00E+00	0.00E+00	2.75E-10	9.68E-05	0.00E+00	1.03E-10	0.00E+00	0.00E+00	5.02E-09	0.00E+00	0.00E+00	9.68E-05
89	ALL	631350	4178850	NonCancer	0.00E+00	3.85E-10	0.00E+00	0.00E+00	0.00E+00	2.81E-10	1.08E-04	0.00E+00	1.05E-10	0.00E+00	0.00E+00	5.12E-09	0.00E+00	0.00E+00	1.08E-04
90	ALL	631450	4178850	NonCancer	0.00E+00	3.91E-10	0.00E+00	0.00E+00	0.00E+00	2.84E-10	1.10E-04	0.00E+00	1.06E-10	0.00E+00	0.00E+00	5.19E-09	0.00E+00	0.00E+00	1.10E-04
91	ALL	631550	4178850	NonCancer	0.00E+00	3.94E-10	0.00E+00	0.00E+00	0.00E+00	2.87E-10	1.11E-04	0.00E+00	1.07E-10	0.00E+00	0.00E+00	5.24E-09	0.00E+00	0.00E+00	1.11E-04
92	ALL	631650	4178850	NonCancer	0.00E+00	3.98E-10	0.00E+00	0.00E+00	0.00E+00	2.90E-10	1.14E-04	0.00E+00	1.08E-10	0.00E+00	0.00E+00	5.29E-09	0.00E+00	0.00E+00	1.14E-04
93	ALL	631750	4178850	NonCancer	0.00E+00	4.05E-10	0.00E+00	0.00E+00	0.00E+00	2.95E-10	1.14E-04	0.00E+00	1.10E-10	0.00E+00	0.00E+00	5.39E-09	0.00E+00	0.00E+00	1.14E-04
94	ALL	631850	4178850	NonCancer	0.00E+00	4.17E-10	0.00E+00	0.00E+00	0.00E+00	3.03E-10	1.16E-04	0.00E+00	1.13E-10	0.00E+00	0.00E+00	5.54E-09	0.00E+00	0.00E+00	1.16E-04
95	ALL	631950	4178850	NonCancer	0.00E+00	4.31E-10	0.00E+00	0.00E+00	0.00E+00	3.14E-10	1.13E-04	0.00E+00	1.17E-10	0.00E+00	0.00E+00	5.74E-09	0.00E+00	0.00E+00	1.13E-04
96	ALL	632050	4178850	NonCancer	0.00E+00	4.46E-10	0.00E+00	0.00E+00	0.00E+00	3.25E-10	1.18E-04	0.00E+00	1.21E-10	0.00E+00	0.00E+00	5.93E-09	0.00E+00	0.00E+00	1.18E-04
97	ALL	632150	4178850	NonCancer	0.00E+00	4.56E-10	0.00E+00	0.00E+00	0.00E+00	3.32E-10	1.20E-04	0.00E+00	1.24E-10	0.00E+00	0.00E+00	6.06E-09	0.00E+00	0.00E+00	1.20E-04
98	ALL	630250	4178950	NonCancer	0.00E+00	2.77E-10	0.00E+00	0.00E+00	0.00E+00	2.01E-10	7.18E-05	0.00E+00	7.52E-11	0.00E+00	0.00E+00	3.68E-09	0.00E+00	0.00E+00	7.18E-05
99	ALL	630350	4178950	NonCancer	0.00E+00	2.85E-10	0.00E+00	0.00E+00	0.00E+00	2.08E-10	7.56E-05	0.00E+00	7.75E-11	0.00E+00	0.00E+00	3.79E-09	0.00E+00	0.00E+00	7.56E-05
100	ALL	630450	4178950	NonCancer	0.00E+00	2.93E-10	0.00E+00	0.00E+00	0.00E+00	2.14E-10	8.54E-05	0.00E+00	7.98E-11	0.00E+00	0.00E+00	3.90E-09	0.00E+00	0.00E+00	8.54E-05
101	ALL	630550	4178950	NonCancer	0.00E+00	3.02E-10	0.00E+00	0.00E+00	0.00E+00	2.20E-10	9.59E-05	0.00E+00	8.20E-11	0.00E+00	0.00E+00	4.01E-09	0.00E+00	0.00E+00	9.59E-05
102	ALL	630650	4178950	NonCancer	0.00E+00	3.09E-10	0.00E+00	0.00E+00	0.00E+00	2.25E-10	9.77E-05	0.00E+00	8.40E-11	0.00E+00	0.00E+00	4.11E-09	0.00E+00	0.00E+00	9.77E-05
103	ALL	630750	4178950	NonCancer	0.00E+00	3.17E-10	0.00E+00	0.00E+00	0.00E+00	2.31E-10	9.08E-05	0.00E+00	8.62E-11	0.00E+00	0.00E+00	4.21E-09	0.00E+00	0.00E+00	9.08E-05
104	ALL	630850	4178950	NonCancer	0.00E+00	3.25E-10	0.00E+00	0.00E+00	0.00E+00	2.37E-10	8.42E-05	0.00E+00	8.83E-11	0.00E+00	0.00E+00	4.32E-09	0.00E+00	0.00E+00	8.42E-05
105	ALL	630950	4178950	NonCancer	0.00E+00	3.34E-10	0.00E+00	0.00E+00	0.00E+00	2.43E-10	8.37E-05	0.00E+00	9.08E-11	0.00E+00	0.00E+00	4.44E-09	0.00E+00	0.00E+00	8.37E-05
106	ALL	631050	4178950	NonCancer	0.00E+00	3.44E-10	0.00E+00	0.00E+00	0.00E+00	2.50E-10	8.70E-05	0.00E+00	9.35E-11	0.00E+00	0.00E+00	4.57E-09	0.00E+00	0.00E+00	8.70E-05
107	ALL	631150	4178950	NonCancer	0.00E+00	3.54E-10	0.00E+00	0.00E+00	0.00E+00	2.58E-10	8.71E-05	0.00E+00	9.62E-11	0.00E+00	0.00E+00	4.70E-09	0.00E+00	0.00E+00	8.71E-05
108	ALL	631250	4178950	NonCancer	0.00E+00	3.62E-10	0.00E+00	0.00E+00	0.00E+00	2.64E-10	1.00E-04	0.00E+00	9.85E-11	0.00E+00	0.00E+00	4.82E-09	0.00E+00	0.00E+00	1.00E-04

109	ALL	631350	4178950	NonCancer	0.00E+00	3.69E-10	0.00E+00	0.00E+00	0.00E+00	2.68E-10	1.05E-04	0.00E+00	1.00E-10	0.00E+00	0.00E+00	4.90E-09	0.00E+00	0.00E+00	1.05E-04
110	ALL	631450	4178950	NonCancer	0.00E+00	3.72E-10	0.00E+00	0.00E+00	0.00E+00	2.71E-10	1.05E-04	0.00E+00	1.01E-10	0.00E+00	0.00E+00	4.95E-09	0.00E+00	0.00E+00	1.05E-04
111	ALL	631550	4178950	NonCancer	0.00E+00	3.75E-10	0.00E+00	0.00E+00	0.00E+00	2.73E-10	1.08E-04	0.00E+00	1.02E-10	0.00E+00	0.00E+00	4.99E-09	0.00E+00	0.00E+00	1.08E-04
112	ALL	631650	4178950	NonCancer	0.00E+00	3.80E-10	0.00E+00	0.00E+00	0.00E+00	2.76E-10	1.08E-04	0.00E+00	1.03E-10	0.00E+00	0.00E+00	5.05E-09	0.00E+00	0.00E+00	1.08E-04
113	ALL	631750	4178950	NonCancer	0.00E+00	3.88E-10	0.00E+00	0.00E+00	0.00E+00	2.82E-10	1.11E-04	0.00E+00	1.05E-10	0.00E+00	0.00E+00	5.15E-09	0.00E+00	0.00E+00	1.11E-04
114	ALL	631850	4178950	NonCancer	0.00E+00	3.99E-10	0.00E+00	0.00E+00	0.00E+00	2.91E-10	1.10E-04	0.00E+00	1.09E-10	0.00E+00	0.00E+00	5.31E-09	0.00E+00	0.00E+00	1.10E-04
115	ALL	631950	4178950	NonCancer	0.00E+00	4.13E-10	0.00E+00	0.00E+00	0.00E+00	3.01E-10	1.12E-04	0.00E+00	1.12E-10	0.00E+00	0.00E+00	5.50E-09	0.00E+00	0.00E+00	1.12E-04
116	ALL	632050	4178950	NonCancer	0.00E+00	4.26E-10	0.00E+00	0.00E+00	0.00E+00	3.10E-10	1.11E-04	0.00E+00	1.16E-10	0.00E+00	0.00E+00	5.66E-09	0.00E+00	0.00E+00	1.11E-04
117	ALL	632150	4178950	NonCancer	0.00E+00	4.34E-10	0.00E+00	0.00E+00	0.00E+00	3.16E-10	1.15E-04	0.00E+00	1.18E-10	0.00E+00	0.00E+00	5.77E-09	0.00E+00	0.00E+00	1.15E-04
118	ALL	629950	4179050	NonCancer	0.00E+00	2.47E-10	0.00E+00	0.00E+00	0.00E+00	1.80E-10	6.98E-05	0.00E+00	6.70E-11	0.00E+00	0.00E+00	3.28E-09	0.00E+00	0.00E+00	6.98E-05
119	ALL	630250	4179050	NonCancer	0.00E+00	2.70E-10	0.00E+00	0.00E+00	0.00E+00	1.96E-10	7.15E-05	0.00E+00	7.33E-11	0.00E+00	0.00E+00	3.58E-09	0.00E+00	0.00E+00	7.15E-05
120	ALL	630350	4179050	NonCancer	0.00E+00	2.77E-10	0.00E+00	0.00E+00	0.00E+00	2.02E-10	8.09E-05	0.00E+00	7.54E-11	0.00E+00	0.00E+00	3.69E-09	0.00E+00	0.00E+00	8.09E-05
121	ALL	630450	4179050	NonCancer	0.00E+00	2.85E-10	0.00E+00	0.00E+00	0.00E+00	2.07E-10	9.20E-05	0.00E+00	7.74E-11	0.00E+00	0.00E+00	3.79E-09	0.00E+00	0.00E+00	9.20E-05
122	ALL	630550	4179050	NonCancer	0.00E+00	2.92E-10	0.00E+00	0.00E+00	0.00E+00	2.13E-10	9.58E-05	0.00E+00	7.94E-11	0.00E+00	0.00E+00	3.88E-09	0.00E+00	0.00E+00	9.58E-05
123	ALL	630650	4179050	NonCancer	0.00E+00	2.99E-10	0.00E+00	0.00E+00	0.00E+00	2.18E-10	9.07E-05	0.00E+00	8.12E-11	0.00E+00	0.00E+00	3.97E-09	0.00E+00	0.00E+00	9.07E-05
124	ALL	630750	4179050	NonCancer	0.00E+00	3.06E-10	0.00E+00	0.00E+00	0.00E+00	2.23E-10	8.00E-05	0.00E+00	8.32E-11	0.00E+00	0.00E+00	4.07E-09	0.00E+00	0.00E+00	8.00E-05
125	ALL	630850	4179050	NonCancer	0.00E+00	3.14E-10	0.00E+00	0.00E+00	0.00E+00	2.29E-10	8.09E-05	0.00E+00	8.54E-11	0.00E+00	0.00E+00	4.17E-09	0.00E+00	0.00E+00	8.09E-05
126	ALL	630950	4179050	NonCancer	0.00E+00	3.23E-10	0.00E+00	0.00E+00	0.00E+00	2.35E-10	8.29E-05	0.00E+00	8.78E-11	0.00E+00	0.00E+00	4.29E-09	0.00E+00	0.00E+00	8.29E-05
127	ALL	631050	4179050	NonCancer	0.00E+00	3.32E-10	0.00E+00	0.00E+00	0.00E+00	2.42E-10	8.36E-05	0.00E+00	9.03E-11	0.00E+00	0.00E+00	4.42E-09	0.00E+00	0.00E+00	8.36E-05
128	ALL	631150	4179050	NonCancer	0.00E+00	3.41E-10	0.00E+00	0.00E+00	0.00E+00	2.48E-10	9.09E-05	0.00E+00	9.27E-11	0.00E+00	0.00E+00	4.53E-09	0.00E+00	0.00E+00	9.09E-05
129	ALL	631250	4179050	NonCancer	0.00E+00	3.48E-10	0.00E+00	0.00E+00	0.00E+00	2.53E-10	9.98E-05	0.00E+00	9.45E-11	0.00E+00	0.00E+00	4.62E-09	0.00E+00	0.00E+00	9.98E-05
130	ALL	631350	4179050	NonCancer	0.00E+00	3.52E-10	0.00E+00	0.00E+00	0.00E+00	2.56E-10	1.01E-04	0.00E+00	9.57E-11	0.00E+00	0.00E+00	4.68E-09	0.00E+00	0.00E+00	1.01E-04
131	ALL	631450	4179050	NonCancer	0.00E+00	3.55E-10	0.00E+00	0.00E+00	0.00E+00	2.58E-10	1.02E-04	0.00E+00	9.65E-11	0.00E+00	0.00E+00	4.72E-09	0.00E+00	0.00E+00	1.02E-04
132	ALL	631550	4179050	NonCancer	0.00E+00	3.58E-10	0.00E+00	0.00E+00	0.00E+00	2.60E-10	1.04E-04	0.00E+00	9.72E-11	0.00E+00	0.00E+00	4.75E-09	0.00E+00	0.00E+00	1.04E-04
133	ALL	631650	4179050	NonCancer	0.00E+00	3.63E-10	0.00E+00	0.00E+00	0.00E+00	2.64E-10	1.04E-04	0.00E+00	9.87E-11	0.00E+00	0.00E+00	4.82E-09	0.00E+00	0.00E+00	1.04E-04
134	ALL	631750	4179050	NonCancer	0.00E+00	3.72E-10	0.00E+00	0.00E+00	0.00E+00	2.71E-10	1.06E-04	0.00E+00	1.01E-10	0.00E+00	0.00E+00	4.94E-09	0.00E+00	0.00E+00	1.06E-04
135	ALL	631850	4179050	NonCancer	0.00E+00	3.83E-10	0.00E+00	0.00E+00	0.00E+00	2.79E-10	1.02E-04	0.00E+00	1.04E-10	0.00E+00	0.00E+00	5.10E-09	0.00E+00	0.00E+00	1.02E-04
136	ALL	631950	4179050	NonCancer	0.00E+00	3.97E-10	0.00E+00	0.00E+00	0.00E+00	2.89E-10	1.09E-04	0.00E+00	1.08E-10	0.00E+00	0.00E+00	5.27E-09	0.00E+00	0.00E+00	1.09E-04
137	ALL	632050	4179050	NonCancer	0.00E+00	4.07E-10	0.00E+00	0.00E+00	0.00E+00	2.97E-10	1.09E-04	0.00E+00	1.11E-10	0.00E+00	0.00E+00	5.41E-09	0.00E+00	0.00E+00	1.09E-04
138	ALL	632150	4179050	NonCancer	0.00E+00	4.13E-10	0.00E+00	0.00E+00	0.00E+00	3.01E-10	1.10E-04	0.00E+00	1.12E-10	0.00E+00	0.00E+00	5.49E-09	0.00E+00	0.00E+00	1.10E-04
139	ALL	629850	4179150	NonCancer	0.00E+00	2.34E-10	0.00E+00	0.00E+00	0.00E+00	1.71E-10	6.74E-05	0.00E+00	6.37E-11	0.00E+00	0.00E+00	3.11E-09	0.00E+00	0.00E+00	6.74E-05
140	ALL	629950	4179150	NonCancer	0.00E+00	2.41E-10	0.00E+00	0.00E+00	0.00E+00	1.76E-10	7.00E-05	0.00E+00	6.56E-11	0.00E+00	0.00E+00	3.21E-09	0.00E+00	0.00E+00	7.00E-05
141	ALL	630150	4179150	NonCancer	0.00E+00	2.55E-10	0.00E+00	0.00E+00	0.00E+00	1.86E-10	6.77E-05	0.00E+00	6.94E-11	0.00E+00	0.00E+00	3.39E-09	0.00E+00	0.00E+00	6.77E-05
142	ALL	630250	4179150	NonCancer	0.00E+00	2.62E-10	0.00E+00	0.00E+00	0.00E+00	1.91E-10	7.64E-05	0.00E+00	7.14E-11	0.00E+00	0.00E+00	3.49E-09	0.00E+00	0.00E+00	7.64E-05
143	ALL	630350	4179150	NonCancer	0.00E+00	2.69E-10	0.00E+00	0.00E+00	0.00E+00	1.96E-10	8.79E-05	0.00E+00	7.32E-11	0.00E+00	0.00E+00	3.58E-09	0.00E+00	0.00E+00	8.79E-05
144	ALL	630450	4179150	NonCancer	0.00E+00	2.76E-10	0.00E+00	0.00E+00	0.00E+00	2.01E-10	9.32E-05	0.00E+00	7.51E-11	0.00E+00	0.00E+00	3.67E-09	0.00E+00	0.00E+00	9.32E-05
145	ALL	630550	4179150	NonCancer	0.00E+00	2.83E-10	0.00E+00	0.00E+00	0.00E+00	2.06E-10	9.07E-05	0.00E+00	7.68E-11	0.00E+00	0.00E+00	3.76E-09	0.00E+00	0.00E+00	9.07E-05
146	ALL	630650	4179150	NonCancer	0.00E+00	2.89E-10	0.00E+00	0.00E+00	0.00E+00	2.10E-10	8.04E-05	0.00E+00	7.86E-11	0.00E+00	0.00E+00	3.84E-09	0.00E+00	0.00E+00	8.04E-05
147	ALL	630750	4179150	NonCancer	0.00E+00	2.96E-10	0.00E+00	0.00E+00	0.00E+00	2.16E-10	7.77E-05	0.00E+00	8.05E-11	0.00E+00	0.00E+00	3.93E-09	0.00E+00	0.00E+00	7.77E-05
148	ALL	630850	4179150	NonCancer	0.00E+00	3.04E-10	0.00E+00	0.00E+00	0.00E+00	2.21E-10	7.82E-05	0.00E+00	8.26E-11	0.00E+00	0.00E+00	4.04E-09	0.00E+00	0.00E+00	7.82E-05
149	ALL	630950	4179150	NonCancer	0.00E+00	3.12E-10	0.00E+00	0.00E+00	0.00E+00	2.27E-10	7.95E-05	0.00E+00	8.49E-11	0.00E+00	0.00E+00	4.15E-09	0.00E+00	0.00E+00	7.95E-05
150	ALL	631050	4179150	NonCancer	0.00E+00	3.21E-10	0.00E+00	0.00E+00	0.00E+00	2.34E-10	8.14E-05	0.00E+00	8.72E-11	0.00E+00	0.00E+00	4.27E-09	0.00E+00	0.00E+00	8.14E-05
151	ALL	631150	4179150	NonCancer	0.00E+00	3.28E-10	0.00E+00	0.00E+00	0.00E+00	2.39E-10	9.31E-05	0.00E+00	8.92E-11	0.00E+00	0.00E+00	4.36E-09	0.00E+00	0.00E+00	9.31E-05
152	ALL	631250	4179150	NonCancer	0.00E+00	3.33E-10	0.00E+00	0.00E+00	0.00E+00	2.43E-10	9.62E-05	0.00E+00	9.06E-11	0.00E+00	0.00E+00	4.43E-09	0.00E+00	0.00E+00	9.62E-05
153	ALL	631350	4179150	NonCancer	0.00E+00	3.36E-10	0.00E+00	0.00E+00	0.00E+00	2.45E-10	9.61E-05	0.00E+00	9.15E-11	0.00E+00	0.00E+00	4.47E-09	0.00E+00	0.00E+00	9.61E-05
154	ALL	631450	4179150	NonCancer	0.00E+00	3.39E-10	0.00E+00	0.00E+00	0.00E+00	2.47E-10	9.92E-05	0.00E+00	9.21E-11	0.00E+00	0.00E+00	4.50E-09	0.00E+00	0.00E+00	9.92E-05
155	ALL	631550	4179150	NonCancer	0.00E+00	3.42E-10	0.00E+00	0.00E+00	0.00E+00	2.49E-10	9.95E-05	0.00E+00	9.29E-11	0.00E+00	0.00E+00	4.54E-09	0.00E+00	0.00E+00	9.95E-05
156	ALL	631650	4179150	NonCancer	0.00E+00	3.48E-10	0.00E+00	0.00E+00	0.00E+00	2.53E-10	1.02E-04	0.00E+00	9.46E-11	0.00E+00	0.00E+00	4.62E-09	0.00E+00	0.00E+00	1.02E-04
157	ALL	631750	4179150	NonCancer	0.00E+00	3.57E-10	0.00E+00	0.00E+00	0.00E+00	2.60E-10	1.02E-04	0.00E+00	9.72E-11	0.00E+00	0.00E+00	4.75E-09	0.00E+00	0.00E+00	1.02E-04
158	ALL	631850	4179150	NonCancer	0.00E+00	3.69E-10	0.00E+00	0.00E+00	0.00E+00	2.69E-10	1.00E-04	0.00E+00	1.00E-10	0.00E+00	0.00E+00	4.91E-09	0.00E+00	0.00E+00	1.00E-04
159	ALL	631950	4179150	NonCancer	0.00E+00	3.80E-10	0.00E+00	0.00E+00	0.00E+00	2.76E-10	1.04E-04	0.00E+00	1.03E-10	0.00E+00	0.00E+00	5.05E-09	0.00E+00	0.00E+00	1.04E-04
160	ALL	632050	4179150	NonCancer	0.00E+00	3.89E-10	0.00E+00	0.00E+00	0.00E+00	2.84E-10	1.05E-04	0.00E+00	1.06E-10	0.00E+00	0.00E+00	5.18E-09	0.00E+00	0.00E+00	1.05E-04
161	ALL	632150	4179150	NonCancer	0.00E+00	3.93E-10	0.00E+00	0.00E+00	0.00E+00	2.86E-10	1.08E-04	0.00E+00	1.07E-10	0.00E+00	0.00E+00	5.23E-09	0.00E+00	0.00E+00	1.08E-04
162	ALL	630850	4179250	NonCancer	0.00E+00	2.94E-10	0.00E+00	0.00E+00	0.00E+00	2.14E-10	7.65E-05	0.00E+00	8.00E-11	0.00E+00	0.00E+00	3.91E-09	0.00E+00	0.00E+00	7.65E-05
163	ALL	630950	4179250	NonCancer	0.00E+00	3.02E-10	0.00E+00	0.00E+00	0.00E+00	2.20E-10	7.68E-05	0.00E+00	8.22E-11	0.00E+00	0.00E+00	4.02E-09	0.00E+00	0.00E+00	7.68E-05

164	ALL	631050	4177625	NonCancer	0.00E+00	5.62E-10	0.00E+00	0.00E+00	0.00E+00	4.09E-10	1.43E-04	0.00E+00	1.53E-10	0.00E+00	0.00E+00	7.47E-09	0.00E+00	0.00E+00	1.43E-04
165	ALL	631100	4177725	NonCancer	0.00E+00	5.62E-10	0.00E+00	0.00E+00	0.00E+00	4.09E-10	1.39E-04	0.00E+00	1.53E-10	0.00E+00	0.00E+00	7.48E-09	0.00E+00	0.00E+00	1.39E-04
166	ALL	631100	4177825	NonCancer	0.00E+00	5.43E-10	0.00E+00	0.00E+00	0.00E+00	3.95E-10	1.34E-04	0.00E+00	1.48E-10	0.00E+00	0.00E+00	7.22E-09	0.00E+00	0.00E+00	1.34E-04
167	ALL	631350	4178225	NonCancer	0.00E+00	5.06E-10	0.00E+00	0.00E+00	0.00E+00	3.68E-10	1.21E-04	0.00E+00	1.38E-10	0.00E+00	0.00E+00	6.72E-09	0.00E+00	0.00E+00	1.21E-04
168	ALL	631400	4178225	NonCancer	0.00E+00	5.15E-10	0.00E+00	0.00E+00	0.00E+00	3.75E-10	1.22E-04	0.00E+00	1.40E-10	0.00E+00	0.00E+00	6.85E-09	0.00E+00	0.00E+00	1.22E-04
169	ALL	631450	4178225	NonCancer	0.00E+00	5.25E-10	0.00E+00	0.00E+00	0.00E+00	3.82E-10	1.22E-04	0.00E+00	1.43E-10	0.00E+00	0.00E+00	6.98E-09	0.00E+00	0.00E+00	1.22E-04
170	ALL	631500	4178225	NonCancer	0.00E+00	5.35E-10	0.00E+00	0.00E+00	0.00E+00	3.90E-10	1.25E-04	0.00E+00	1.46E-10	0.00E+00	0.00E+00	7.12E-09	0.00E+00	0.00E+00	1.25E-04
171	ALL	631100	4178275	NonCancer	0.00E+00	4.54E-10	0.00E+00	0.00E+00	0.00E+00	3.31E-10	1.18E-04	0.00E+00	1.24E-10	0.00E+00	0.00E+00	6.04E-09	0.00E+00	0.00E+00	1.18E-04
172	ALL	631150	4178275	NonCancer	0.00E+00	4.62E-10	0.00E+00	0.00E+00	0.00E+00	3.36E-10	1.20E-04	0.00E+00	1.26E-10	0.00E+00	0.00E+00	6.14E-09	0.00E+00	0.00E+00	1.20E-04
173	ALL	631200	4178275	NonCancer	0.00E+00	4.70E-10	0.00E+00	0.00E+00	0.00E+00	3.42E-10	1.18E-04	0.00E+00	1.28E-10	0.00E+00	0.00E+00	6.24E-09	0.00E+00	0.00E+00	1.18E-04
174	ALL	631250	4178275	NonCancer	0.00E+00	4.78E-10	0.00E+00	0.00E+00	0.00E+00	3.48E-10	1.16E-04	0.00E+00	1.30E-10	0.00E+00	0.00E+00	6.35E-09	0.00E+00	0.00E+00	1.16E-04
175	ALL	631300	4178275	NonCancer	0.00E+00	4.86E-10	0.00E+00	0.00E+00	0.00E+00	3.54E-10	1.17E-04	0.00E+00	1.32E-10	0.00E+00	0.00E+00	6.46E-09	0.00E+00	0.00E+00	1.17E-04
176	ALL	631350	4178275	NonCancer	0.00E+00	4.94E-10	0.00E+00	0.00E+00	0.00E+00	3.60E-10	1.19E-04	0.00E+00	1.34E-10	0.00E+00	0.00E+00	6.57E-09	0.00E+00	0.00E+00	1.19E-04
177	ALL	631400	4178275	NonCancer	0.00E+00	5.04E-10	0.00E+00	0.00E+00	0.00E+00	3.67E-10	1.18E-04	0.00E+00	1.37E-10	0.00E+00	0.00E+00	6.69E-09	0.00E+00	0.00E+00	1.18E-04
178	ALL	631450	4178275	NonCancer	0.00E+00	5.13E-10	0.00E+00	0.00E+00	0.00E+00	3.74E-10	1.21E-04	0.00E+00	1.40E-10	0.00E+00	0.00E+00	6.82E-09	0.00E+00	0.00E+00	1.21E-04
179	ALL	631500	4178275	NonCancer	0.00E+00	5.23E-10	0.00E+00	0.00E+00	0.00E+00	3.81E-10	1.22E-04	0.00E+00	1.42E-10	0.00E+00	0.00E+00	6.95E-09	0.00E+00	0.00E+00	1.22E-04
180	ALL	630950	4178325	NonCancer	0.00E+00	4.23E-10	0.00E+00	0.00E+00	0.00E+00	3.08E-10	1.07E-04	0.00E+00	1.15E-10	0.00E+00	0.00E+00	5.62E-09	0.00E+00	0.00E+00	1.07E-04
181	ALL	631100	4178325	NonCancer	0.00E+00	4.45E-10	0.00E+00	0.00E+00	0.00E+00	3.24E-10	1.18E-04	0.00E+00	1.21E-10	0.00E+00	0.00E+00	5.91E-09	0.00E+00	0.00E+00	1.18E-04
182	ALL	631150	4178325	NonCancer	0.00E+00	4.52E-10	0.00E+00	0.00E+00	0.00E+00	3.29E-10	1.17E-04	0.00E+00	1.23E-10	0.00E+00	0.00E+00	6.01E-09	0.00E+00	0.00E+00	1.17E-04
183	ALL	631200	4178325	NonCancer	0.00E+00	4.60E-10	0.00E+00	0.00E+00	0.00E+00	3.35E-10	1.13E-04	0.00E+00	1.25E-10	0.00E+00	0.00E+00	6.11E-09	0.00E+00	0.00E+00	1.13E-04
184	ALL	631250	4178325	NonCancer	0.00E+00	4.67E-10	0.00E+00	0.00E+00	0.00E+00	3.40E-10	1.14E-04	0.00E+00	1.27E-10	0.00E+00	0.00E+00	6.21E-09	0.00E+00	0.00E+00	1.14E-04
185	ALL	631300	4178325	NonCancer	0.00E+00	4.75E-10	0.00E+00	0.00E+00	0.00E+00	3.46E-10	1.15E-04	0.00E+00	1.29E-10	0.00E+00	0.00E+00	6.32E-09	0.00E+00	0.00E+00	1.15E-04
186	ALL	631400	4178325	NonCancer	0.00E+00	4.93E-10	0.00E+00	0.00E+00	0.00E+00	3.59E-10	1.16E-04	0.00E+00	1.34E-10	0.00E+00	0.00E+00	6.55E-09	0.00E+00	0.00E+00	1.16E-04
187	ALL	631450	4178325	NonCancer	0.00E+00	5.02E-10	0.00E+00	0.00E+00	0.00E+00	3.65E-10	1.18E-04	0.00E+00	1.36E-10	0.00E+00	0.00E+00	6.67E-09	0.00E+00	0.00E+00	1.18E-04
188	ALL	631500	4178325	NonCancer	0.00E+00	5.11E-10	0.00E+00	0.00E+00	0.00E+00	3.72E-10	1.19E-04	0.00E+00	1.39E-10	0.00E+00	0.00E+00	6.79E-09	0.00E+00	0.00E+00	1.19E-04
189	ALL	630950	4178375	NonCancer	0.00E+00	4.15E-10	0.00E+00	0.00E+00	0.00E+00	3.02E-10	1.06E-04	0.00E+00	1.13E-10	0.00E+00	0.00E+00	5.52E-09	0.00E+00	0.00E+00	1.06E-04
190	ALL	631200	4178375	NonCancer	0.00E+00	4.50E-10	0.00E+00	0.00E+00	0.00E+00	3.27E-10	1.11E-04	0.00E+00	1.22E-10	0.00E+00	0.00E+00	5.98E-09	0.00E+00	0.00E+00	1.11E-04
191	ALL	631300	4178375	NonCancer	0.00E+00	4.65E-10	0.00E+00	0.00E+00	0.00E+00	3.39E-10	1.12E-04	0.00E+00	1.26E-10	0.00E+00	0.00E+00	6.18E-09	0.00E+00	0.00E+00	1.12E-04
192	ALL	631400	4178375	NonCancer	0.00E+00	4.82E-10	0.00E+00	0.00E+00	0.00E+00	3.51E-10	1.15E-04	0.00E+00	1.31E-10	0.00E+00	0.00E+00	6.41E-09	0.00E+00	0.00E+00	1.15E-04
193	ALL	631450	4178375	NonCancer	0.00E+00	4.90E-10	0.00E+00	0.00E+00	0.00E+00	3.57E-10	1.15E-04	0.00E+00	1.33E-10	0.00E+00	0.00E+00	6.52E-09	0.00E+00	0.00E+00	1.15E-04
194	ALL	631500	4178375	NonCancer	0.00E+00	4.98E-10	0.00E+00	0.00E+00	0.00E+00	3.63E-10	1.16E-04	0.00E+00	1.35E-10	0.00E+00	0.00E+00	6.62E-09	0.00E+00	0.00E+00	1.16E-04
195	ALL	630800	4178425	NonCancer	0.00E+00	3.87E-10	0.00E+00	0.00E+00	0.00E+00	2.82E-10	9.80E-05	0.00E+00	1.05E-10	0.00E+00	0.00E+00	5.14E-09	0.00E+00	0.00E+00	9.80E-05
196	ALL	630850	4178425	NonCancer	0.00E+00	3.94E-10	0.00E+00	0.00E+00	0.00E+00	2.87E-10	1.01E-04	0.00E+00	1.07E-10	0.00E+00	0.00E+00	5.23E-09	0.00E+00	0.00E+00	1.01E-04
197	ALL	631050	4178425	NonCancer	0.00E+00	4.20E-10	0.00E+00	0.00E+00	0.00E+00	3.06E-10	1.14E-04	0.00E+00	1.14E-10	0.00E+00	0.00E+00	5.58E-09	0.00E+00	0.00E+00	1.14E-04
198	ALL	631200	4178425	NonCancer	0.00E+00	4.40E-10	0.00E+00	0.00E+00	0.00E+00	3.20E-10	1.08E-04	0.00E+00	1.20E-10	0.00E+00	0.00E+00	5.85E-09	0.00E+00	0.00E+00	1.08E-04
199	ALL	631250	4178425	NonCancer	0.00E+00	4.48E-10	0.00E+00	0.00E+00	0.00E+00	3.26E-10	1.10E-04	0.00E+00	1.22E-10	0.00E+00	0.00E+00	5.95E-09	0.00E+00	0.00E+00	1.10E-04
200	ALL	631300	4178425	NonCancer	0.00E+00	4.55E-10	0.00E+00	0.00E+00	0.00E+00	3.31E-10	1.09E-04	0.00E+00	1.24E-10	0.00E+00	0.00E+00	6.05E-09	0.00E+00	0.00E+00	1.09E-04
201	ALL	630650	4178475	NonCancer	0.00E+00	3.60E-10	0.00E+00	0.00E+00	0.00E+00	2.62E-10	8.83E-05	0.00E+00	9.80E-11	0.00E+00	0.00E+00	4.79E-09	0.00E+00	0.00E+00	8.83E-05
202	ALL	630800	4178475	NonCancer	0.00E+00	3.80E-10	0.00E+00	0.00E+00	0.00E+00	2.77E-10	9.80E-05	0.00E+00	1.03E-10	0.00E+00	0.00E+00	5.06E-09	0.00E+00	0.00E+00	9.80E-05
203	ALL	630850	4178475	NonCancer	0.00E+00	3.87E-10	0.00E+00	0.00E+00	0.00E+00	2.82E-10	1.00E-04	0.00E+00	1.05E-10	0.00E+00	0.00E+00	5.14E-09	0.00E+00	0.00E+00	1.00E-04
204	ALL	631050	4178475	NonCancer	0.00E+00	4.11E-10	0.00E+00	0.00E+00	0.00E+00	3.00E-10	1.10E-04	0.00E+00	1.12E-10	0.00E+00	0.00E+00	5.47E-09	0.00E+00	0.00E+00	1.10E-04
205	ALL	631200	4178475	NonCancer	0.00E+00	4.31E-10	0.00E+00	0.00E+00	0.00E+00	3.14E-10	1.06E-04	0.00E+00	1.17E-10	0.00E+00	0.00E+00	5.73E-09	0.00E+00	0.00E+00	1.06E-04
206	ALL	631250	4178475	NonCancer	0.00E+00	4.38E-10	0.00E+00	0.00E+00	0.00E+00	3.19E-10	1.06E-04	0.00E+00	1.19E-10	0.00E+00	0.00E+00	5.83E-09	0.00E+00	0.00E+00	1.06E-04
207	ALL	631300	4178475	NonCancer	0.00E+00	4.46E-10	0.00E+00	0.00E+00	0.00E+00	3.25E-10	1.08E-04	0.00E+00	1.21E-10	0.00E+00	0.00E+00	5.92E-09	0.00E+00	0.00E+00	1.08E-04
208	ALL	631450	4178475	NonCancer	0.00E+00	4.68E-10	0.00E+00	0.00E+00	0.00E+00	3.41E-10	1.12E-04	0.00E+00	1.27E-10	0.00E+00	0.00E+00	6.22E-09	0.00E+00	0.00E+00	1.12E-04
209	ALL	631500	4178475	NonCancer	0.00E+00	4.74E-10	0.00E+00	0.00E+00	0.00E+00	3.45E-10	1.22E-04	0.00E+00	1.29E-10	0.00E+00	0.00E+00	6.30E-09	0.00E+00	0.00E+00	1.22E-04
210	ALL	630550	4178525	NonCancer	0.00E+00	3.42E-10	0.00E+00	0.00E+00	0.00E+00	2.49E-10	8.89E-05	0.00E+00	9.31E-11	0.00E+00	0.00E+00	4.55E-09	0.00E+00	0.00E+00	8.89E-05
211	ALL	630600	4178525	NonCancer	0.00E+00	3.49E-10	0.00E+00	0.00E+00	0.00E+00	2.54E-10	8.62E-05	0.00E+00	9.48E-11	0.00E+00	0.00E+00	4.64E-09	0.00E+00	0.00E+00	8.62E-05
212	ALL	630650	4178525	NonCancer	0.00E+00	3.55E-10	0.00E+00	0.00E+00	0.00E+00	2.58E-10	8.71E-05	0.00E+00	9.65E-11	0.00E+00	0.00E+00	4.72E-09	0.00E+00	0.00E+00	8.71E-05
213	ALL	630700	4178525	NonCancer	0.00E+00	3.61E-10	0.00E+00	0.00E+00	0.00E+00	2.63E-10	9.18E-05	0.00E+00	9.82E-11	0.00E+00	0.00E+00	4.80E-09	0.00E+00	0.00E+00	9.18E-05
214	ALL	630750	4178525	NonCancer	0.00E+00	3.68E-10	0.00E+00	0.00E+00	0.00E+00	2.68E-10	9.51E-05	0.00E+00	9.99E-11	0.00E+00	0.00E+00	4.89E-09	0.00E+00	0.00E+00	9.51E-05
215	ALL	630950	4178525	NonCancer	0.00E+00	3.91E-10	0.00E+00	0.00E+00	0.00E+00	2.85E-10	1.10E-04	0.00E+00	1.06E-10	0.00E+00	0.00E+00	5.20E-09	0.00E+00	0.00E+00	1.10E-04
216	ALL	631050	4178525	NonCancer	0.00E+00	4.03E-10	0.00E+00	0.00E+00	0.00E+00	2.94E-10	1.05E-04	0.00E+00	1.10E-10	0.00E+00	0.00E+00	5.36E-09	0.00E+00	0.00E+00	1.05E-04
217	ALL	631200	4178525	NonCancer	0.00E+00	4.22E-10	0.00E+00	0.00E+00	0.00E+00	3.08E-10	1.04E-04	0.00E+00	1.15E-10	0.00E+00	0.00E+00	5.61E-09	0.00E+00	0.00E+00	1.04E-04
218	ALL	631250	4178525	NonCancer	0.00E+00	4.29E-10	0.00E+00	0.00E+00	0.00E+00	3.13E-10	1.04E-04	0.00E+00	1.17E-10	0.00E+00	0.00E+00	5.71E-09	0.00E+00	0.00E+00	1.04E-04

219	ALL	631300	4178525	NonCancer	0.00E+00	4.37E-10	0.00E+00	0.00E+00	0.00E+00	3.18E-10	1.06E-04	0.00E+00	1.19E-10	0.00E+00	0.00E+00	5.81E-09	0.00E+00	0.00E+00	1.06E-04
220	ALL	631350	4178525	NonCancer	0.00E+00	4.44E-10	0.00E+00	0.00E+00	0.00E+00	3.23E-10	1.06E-04	0.00E+00	1.21E-10	0.00E+00	0.00E+00	5.90E-09	0.00E+00	0.00E+00	1.06E-04
221	ALL	631400	4178525	NonCancer	0.00E+00	4.51E-10	0.00E+00	0.00E+00	0.00E+00	3.28E-10	1.07E-04	0.00E+00	1.23E-10	0.00E+00	0.00E+00	6.00E-09	0.00E+00	0.00E+00	1.07E-04
222	ALL	631450	4178525	NonCancer	0.00E+00	4.57E-10	0.00E+00	0.00E+00	0.00E+00	3.33E-10	1.15E-04	0.00E+00	1.24E-10	0.00E+00	0.00E+00	6.08E-09	0.00E+00	0.00E+00	1.15E-04
223	ALL	631500	4178525	NonCancer	0.00E+00	4.62E-10	0.00E+00	0.00E+00	0.00E+00	3.37E-10	1.23E-04	0.00E+00	1.26E-10	0.00E+00	0.00E+00	6.15E-09	0.00E+00	0.00E+00	1.23E-04
224	ALL	630500	4178575	NonCancer	0.00E+00	3.32E-10	0.00E+00	0.00E+00	0.00E+00	2.41E-10	8.67E-05	0.00E+00	9.02E-11	0.00E+00	0.00E+00	4.41E-09	0.00E+00	0.00E+00	8.67E-05
225	ALL	630550	4178575	NonCancer	0.00E+00	3.38E-10	0.00E+00	0.00E+00	0.00E+00	2.46E-10	8.42E-05	0.00E+00	9.18E-11	0.00E+00	0.00E+00	4.49E-09	0.00E+00	0.00E+00	8.42E-05
226	ALL	630600	4178575	NonCancer	0.00E+00	3.44E-10	0.00E+00	0.00E+00	0.00E+00	2.50E-10	8.42E-05	0.00E+00	9.34E-11	0.00E+00	0.00E+00	4.57E-09	0.00E+00	0.00E+00	8.42E-05
227	ALL	630650	4178575	NonCancer	0.00E+00	3.49E-10	0.00E+00	0.00E+00	0.00E+00	2.54E-10	8.88E-05	0.00E+00	9.50E-11	0.00E+00	0.00E+00	4.64E-09	0.00E+00	0.00E+00	8.88E-05
228	ALL	630700	4178575	NonCancer	0.00E+00	3.55E-10	0.00E+00	0.00E+00	0.00E+00	2.59E-10	9.22E-05	0.00E+00	9.66E-11	0.00E+00	0.00E+00	4.73E-09	0.00E+00	0.00E+00	9.22E-05
229	ALL	630750	4178575	NonCancer	0.00E+00	3.61E-10	0.00E+00	0.00E+00	0.00E+00	2.63E-10	9.41E-05	0.00E+00	9.83E-11	0.00E+00	0.00E+00	4.80E-09	0.00E+00	0.00E+00	9.41E-05
230	ALL	630800	4178575	NonCancer	0.00E+00	3.67E-10	0.00E+00	0.00E+00	0.00E+00	2.67E-10	1.01E-04	0.00E+00	9.98E-11	0.00E+00	0.00E+00	4.88E-09	0.00E+00	0.00E+00	1.01E-04
231	ALL	630850	4178575	NonCancer	0.00E+00	3.73E-10	0.00E+00	0.00E+00	0.00E+00	2.71E-10	1.06E-04	0.00E+00	1.01E-10	0.00E+00	0.00E+00	4.95E-09	0.00E+00	0.00E+00	1.06E-04
232	ALL	631000	4178575	NonCancer	0.00E+00	3.89E-10	0.00E+00	0.00E+00	0.00E+00	2.84E-10	1.05E-04	0.00E+00	1.06E-10	0.00E+00	0.00E+00	5.18E-09	0.00E+00	0.00E+00	1.05E-04
233	ALL	631050	4178575	NonCancer	0.00E+00	3.95E-10	0.00E+00	0.00E+00	0.00E+00	2.88E-10	9.97E-05	0.00E+00	1.07E-10	0.00E+00	0.00E+00	5.25E-09	0.00E+00	0.00E+00	9.97E-05
234	ALL	631200	4178575	NonCancer	0.00E+00	4.14E-10	0.00E+00	0.00E+00	0.00E+00	3.01E-10	1.00E-04	0.00E+00	1.13E-10	0.00E+00	0.00E+00	5.50E-09	0.00E+00	0.00E+00	1.00E-04
235	ALL	631250	4178575	NonCancer	0.00E+00	4.21E-10	0.00E+00	0.00E+00	0.00E+00	3.06E-10	1.03E-04	0.00E+00	1.14E-10	0.00E+00	0.00E+00	5.60E-09	0.00E+00	0.00E+00	1.03E-04
236	ALL	631300	4178575	NonCancer	0.00E+00	4.28E-10	0.00E+00	0.00E+00	0.00E+00	3.12E-10	1.04E-04	0.00E+00	1.16E-10	0.00E+00	0.00E+00	5.69E-09	0.00E+00	0.00E+00	1.04E-04
237	ALL	631350	4178575	NonCancer	0.00E+00	4.35E-10	0.00E+00	0.00E+00	0.00E+00	3.17E-10	1.04E-04	0.00E+00	1.18E-10	0.00E+00	0.00E+00	5.78E-09	0.00E+00	0.00E+00	1.04E-04
238	ALL	631400	4178575	NonCancer	0.00E+00	4.41E-10	0.00E+00	0.00E+00	0.00E+00	3.21E-10	1.08E-04	0.00E+00	1.20E-10	0.00E+00	0.00E+00	5.86E-09	0.00E+00	0.00E+00	1.08E-04
239	ALL	631450	4178575	NonCancer	0.00E+00	4.46E-10	0.00E+00	0.00E+00	0.00E+00	3.25E-10	1.17E-04	0.00E+00	1.21E-10	0.00E+00	0.00E+00	5.94E-09	0.00E+00	0.00E+00	1.17E-04
240	ALL	631500	4178575	NonCancer	0.00E+00	4.51E-10	0.00E+00	0.00E+00	0.00E+00	3.28E-10	1.23E-04	0.00E+00	1.23E-10	0.00E+00	0.00E+00	6.00E-09	0.00E+00	0.00E+00	1.23E-04
241	ALL	630500	4178625	NonCancer	0.00E+00	3.27E-10	0.00E+00	0.00E+00	0.00E+00	2.38E-10	8.22E-05	0.00E+00	8.89E-11	0.00E+00	0.00E+00	4.35E-09	0.00E+00	0.00E+00	8.22E-05
242	ALL	630550	4178625	NonCancer	0.00E+00	3.33E-10	0.00E+00	0.00E+00	0.00E+00	2.42E-10	8.17E-05	0.00E+00	9.05E-11	0.00E+00	0.00E+00	4.42E-09	0.00E+00	0.00E+00	8.17E-05
243	ALL	630600	4178625	NonCancer	0.00E+00	3.38E-10	0.00E+00	0.00E+00	0.00E+00	2.46E-10	8.61E-05	0.00E+00	9.20E-11	0.00E+00	0.00E+00	4.50E-09	0.00E+00	0.00E+00	8.61E-05
244	ALL	630650	4178625	NonCancer	0.00E+00	3.44E-10	0.00E+00	0.00E+00	0.00E+00	2.50E-10	8.94E-05	0.00E+00	9.35E-11	0.00E+00	0.00E+00	4.57E-09	0.00E+00	0.00E+00	8.94E-05
245	ALL	630700	4178625	NonCancer	0.00E+00	3.50E-10	0.00E+00	0.00E+00	0.00E+00	2.55E-10	9.15E-05	0.00E+00	9.51E-11	0.00E+00	0.00E+00	4.65E-09	0.00E+00	0.00E+00	9.15E-05
246	ALL	630750	4178625	NonCancer	0.00E+00	3.55E-10	0.00E+00	0.00E+00	0.00E+00	2.59E-10	9.84E-05	0.00E+00	9.66E-11	0.00E+00	0.00E+00	4.72E-09	0.00E+00	0.00E+00	9.84E-05
247	ALL	630800	4178625	NonCancer	0.00E+00	3.61E-10	0.00E+00	0.00E+00	0.00E+00	2.63E-10	1.04E-04	0.00E+00	9.81E-11	0.00E+00	0.00E+00	4.79E-09	0.00E+00	0.00E+00	1.04E-04
248	ALL	630850	4178625	NonCancer	0.00E+00	3.66E-10	0.00E+00	0.00E+00	0.00E+00	2.66E-10	1.07E-04	0.00E+00	9.95E-11	0.00E+00	0.00E+00	4.87E-09	0.00E+00	0.00E+00	1.07E-04
249	ALL	631000	4178625	NonCancer	0.00E+00	3.82E-10	0.00E+00	0.00E+00	0.00E+00	2.78E-10	9.89E-05	0.00E+00	1.04E-10	0.00E+00	0.00E+00	5.08E-09	0.00E+00	0.00E+00	9.89E-05
250	ALL	631050	4178625	NonCancer	0.00E+00	3.87E-10	0.00E+00	0.00E+00	0.00E+00	2.82E-10	9.77E-05	0.00E+00	1.05E-10	0.00E+00	0.00E+00	5.15E-09	0.00E+00	0.00E+00	9.77E-05
251	ALL	631100	4178625	NonCancer	0.00E+00	3.93E-10	0.00E+00	0.00E+00	0.00E+00	2.86E-10	9.87E-05	0.00E+00	1.07E-10	0.00E+00	0.00E+00	5.23E-09	0.00E+00	0.00E+00	9.87E-05
252	ALL	631150	4178625	NonCancer	0.00E+00	3.99E-10	0.00E+00	0.00E+00	0.00E+00	2.91E-10	9.84E-05	0.00E+00	1.09E-10	0.00E+00	0.00E+00	5.31E-09	0.00E+00	0.00E+00	9.84E-05
253	ALL	631200	4178625	NonCancer	0.00E+00	4.06E-10	0.00E+00	0.00E+00	0.00E+00	2.96E-10	9.96E-05	0.00E+00	1.10E-10	0.00E+00	0.00E+00	5.40E-09	0.00E+00	0.00E+00	9.96E-05
254	ALL	631250	4178625	NonCancer	0.00E+00	4.13E-10	0.00E+00	0.00E+00	0.00E+00	3.00E-10	1.01E-04	0.00E+00	1.12E-10	0.00E+00	0.00E+00	5.49E-09	0.00E+00	0.00E+00	1.01E-04
255	ALL	631300	4178625	NonCancer	0.00E+00	4.19E-10	0.00E+00	0.00E+00	0.00E+00	3.05E-10	1.01E-04	0.00E+00	1.14E-10	0.00E+00	0.00E+00	5.57E-09	0.00E+00	0.00E+00	1.01E-04
256	ALL	631350	4178625	NonCancer	0.00E+00	4.26E-10	0.00E+00	0.00E+00	0.00E+00	3.10E-10	1.02E-04	0.00E+00	1.16E-10	0.00E+00	0.00E+00	5.66E-09	0.00E+00	0.00E+00	1.02E-04
257	ALL	631400	4178625	NonCancer	0.00E+00	4.31E-10	0.00E+00	0.00E+00	0.00E+00	3.14E-10	1.11E-04	0.00E+00	1.17E-10	0.00E+00	0.00E+00	5.73E-09	0.00E+00	0.00E+00	1.11E-04
258	ALL	631450	4178625	NonCancer	0.00E+00	4.36E-10	0.00E+00	0.00E+00	0.00E+00	3.17E-10	1.18E-04	0.00E+00	1.19E-10	0.00E+00	0.00E+00	5.79E-09	0.00E+00	0.00E+00	1.18E-04
259	ALL	631500	4178625	NonCancer	0.00E+00	4.40E-10	0.00E+00	0.00E+00	0.00E+00	3.20E-10	1.22E-04	0.00E+00	1.20E-10	0.00E+00	0.00E+00	5.85E-09	0.00E+00	0.00E+00	1.22E-04
260	ALL	631100	4175700	NonCancer	0.00E+00	4.19E-10	0.00E+00	0.00E+00	0.00E+00	3.05E-10	4.43E-04	0.00E+00	1.14E-10	0.00E+00	0.00E+00	5.57E-09	0.00E+00	0.00E+00	4.43E-04
261	ALL	631150	4175700	NonCancer	0.00E+00	4.38E-10	0.00E+00	0.00E+00	0.00E+00	3.19E-10	4.55E-04	0.00E+00	1.19E-10	0.00E+00	0.00E+00	5.83E-09	0.00E+00	0.00E+00	4.55E-04
262	ALL	631200	4175700	NonCancer	0.00E+00	4.58E-10	0.00E+00	0.00E+00	0.00E+00	3.33E-10	4.68E-04	0.00E+00	1.24E-10	0.00E+00	0.00E+00	6.09E-09	0.00E+00	0.00E+00	4.68E-04
263	ALL	631250	4175700	NonCancer	0.00E+00	4.81E-10	0.00E+00	0.00E+00	0.00E+00	3.50E-10	4.81E-04	0.00E+00	1.31E-10	0.00E+00	0.00E+00	6.39E-09	0.00E+00	0.00E+00	4.81E-04
264	ALL	631100	4175750	NonCancer	0.00E+00	4.10E-10	0.00E+00	0.00E+00	0.00E+00	2.99E-10	4.38E-04	0.00E+00	1.12E-10	0.00E+00	0.00E+00	5.45E-09	0.00E+00	0.00E+00	4.38E-04
265	ALL	631150	4175750	NonCancer	0.00E+00	4.30E-10	0.00E+00	0.00E+00	0.00E+00	3.13E-10	4.52E-04	0.00E+00	1.17E-10	0.00E+00	0.00E+00	5.72E-09	0.00E+00	0.00E+00	4.52E-04
266	ALL	629400	4179050	NonCancer	0.00E+00	2.03E-10	0.00E+00	0.00E+00	0.00E+00	1.48E-10	6.24E-05	0.00E+00	5.52E-11	0.00E+00	0.00E+00	2.70E-09	0.00E+00	0.00E+00	6.24E-05
267	ALL	629450	4179050	NonCancer	0.00E+00	2.07E-10	0.00E+00	0.00E+00	0.00E+00	1.51E-10	6.36E-05	0.00E+00	5.63E-11	0.00E+00	0.00E+00	2.75E-09	0.00E+00	0.00E+00	6.36E-05
268	ALL	629500	4179050	NonCancer	0.00E+00	2.11E-10	0.00E+00	0.00E+00	0.00E+00	1.54E-10	6.42E-05	0.00E+00	5.75E-11	0.00E+00	0.00E+00	2.81E-09	0.00E+00	0.00E+00	6.42E-05
269	ALL	629400	4179100	NonCancer	0.00E+00	2.02E-10	0.00E+00	0.00E+00	0.00E+00	1.47E-10	6.22E-05	0.00E+00	5.51E-11	0.00E+00	0.00E+00	2.69E-09	0.00E+00	0.00E+00	6.22E-05
270	ALL	629450	4179100	NonCancer	0.00E+00	2.07E-10	0.00E+00	0.00E+00	0.00E+00	1.50E-10	6.27E-05	0.00E+00	5.62E-11	0.00E+00	0.00E+00	2.75E-09	0.00E+00	0.00E+00	6.27E-05
271	ALL	629400	4179150	NonCancer	0.00E+00	2.02E-10	0.00E+00	0.00E+00	0.00E+00	1.47E-10	6.13E-05	0.00E+00	5.49E-11	0.00E+00	0.00E+00	2.68E-09	0.00E+00	0.00E+00	6.13E-05
272	ALL	629500	4179150	NonCancer	0.00E+00	2.10E-10	0.00E+00	0.00E+00	0.00E+00	1.53E-10	6.10E-05	0.00E+00	5.70E-11	0.00E+00	0.00E+00	2.79E-09	0.00E+00	0.00E+00	6.10E-05
273	ALL	629550	4179150	NonCancer	0.00E+00	2.13E-10	0.00E+00	0.00E+00	0.00E+00	1.55E-10	6.27E-05	0.00E+00	5.80E-11	0.00E+00	0.00E+00	2.84E-09	0.00E+00	0.00E+00	6.27E-05

274	ALL	629600	4179150	NonCancer	0.00E+00	2.17E-10	0.00E+00	0.00E+00	0.00E+00	1.58E-10	6.38E-05	0.00E+00	5.90E-11	0.00E+00	0.00E+00	2.89E-09	0.00E+00	0.00E+00	6.38E-05
275	ALL	629650	4179150	NonCancer	0.00E+00	2.21E-10	0.00E+00	0.00E+00	0.00E+00	1.61E-10	6.42E-05	0.00E+00	6.00E-11	0.00E+00	0.00E+00	2.93E-09	0.00E+00	0.00E+00	6.42E-05
276	ALL	629700	4179150	NonCancer	0.00E+00	2.24E-10	0.00E+00	0.00E+00	0.00E+00	1.63E-10	6.48E-05	0.00E+00	6.09E-11	0.00E+00	0.00E+00	2.98E-09	0.00E+00	0.00E+00	6.48E-05
277	ALL	629800	4179200	NonCancer	0.00E+00	2.29E-10	0.00E+00	0.00E+00	0.00E+00	1.66E-10	6.66E-05	0.00E+00	6.21E-11	0.00E+00	0.00E+00	3.04E-09	0.00E+00	0.00E+00	6.66E-05
278	ALL	629400	4179300	NonCancer	0.00E+00	1.99E-10	0.00E+00	0.00E+00	0.00E+00	1.45E-10	5.88E-05	0.00E+00	5.41E-11	0.00E+00	0.00E+00	2.65E-09	0.00E+00	0.00E+00	5.88E-05
279	ALL	629400	4179350	NonCancer	0.00E+00	1.98E-10	0.00E+00	0.00E+00	0.00E+00	1.44E-10	5.84E-05	0.00E+00	5.38E-11	0.00E+00	0.00E+00	2.63E-09	0.00E+00	0.00E+00	5.84E-05
280	ALL	634375	4175350	NonCancer	0.00E+00	3.82E-09	0.00E+00	0.00E+00	0.00E+00	2.78E-09	3.59E-04	0.00E+00	1.04E-09	0.00E+00	0.00E+00	5.07E-08	0.00E+00	0.00E+00	3.59E-04
281	ALL	634425	4175350	NonCancer	0.00E+00	3.60E-09	0.00E+00	0.00E+00	0.00E+00	2.62E-09	3.46E-04	0.00E+00	9.80E-10	0.00E+00	0.00E+00	4.79E-08	0.00E+00	0.00E+00	3.46E-04
282	ALL	635425	4175350	NonCancer	0.00E+00	1.63E-09	0.00E+00	0.00E+00	0.00E+00	1.19E-09	2.38E-04	0.00E+00	4.43E-10	0.00E+00	0.00E+00	2.17E-08	0.00E+00	0.00E+00	2.38E-04
283	ALL	635425	4175400	NonCancer	0.00E+00	1.68E-09	0.00E+00	0.00E+00	0.00E+00	1.23E-09	2.08E-04	0.00E+00	4.58E-10	0.00E+00	0.00E+00	2.24E-08	0.00E+00	0.00E+00	2.08E-04
284	ALL	635475	4175400	NonCancer	0.00E+00	1.64E-09	0.00E+00	0.00E+00	0.00E+00	1.19E-09	1.98E-04	0.00E+00	4.45E-10	0.00E+00	0.00E+00	2.18E-08	0.00E+00	0.00E+00	1.98E-04
285	ALL	634325	4175450	NonCancer	0.00E+00	4.71E-09	0.00E+00	0.00E+00	0.00E+00	3.43E-09	4.20E-04	0.00E+00	1.28E-09	0.00E+00	0.00E+00	6.26E-08	0.00E+00	0.00E+00	4.20E-04
286	ALL	634475	4175450	NonCancer	0.00E+00	3.86E-09	0.00E+00	0.00E+00	0.00E+00	2.81E-09	4.07E-04	0.00E+00	1.05E-09	0.00E+00	0.00E+00	5.13E-08	0.00E+00	0.00E+00	4.07E-04
287	ALL	634525	4175450	NonCancer	0.00E+00	3.64E-09	0.00E+00	0.00E+00	0.00E+00	2.65E-09	3.98E-04	0.00E+00	9.90E-10	0.00E+00	0.00E+00	4.84E-08	0.00E+00	0.00E+00	3.98E-04
288	ALL	634525	4175500	NonCancer	0.00E+00	3.84E-09	0.00E+00	0.00E+00	0.00E+00	2.80E-09	3.85E-04	0.00E+00	1.04E-09	0.00E+00	0.00E+00	5.11E-08	0.00E+00	0.00E+00	3.85E-04
289	ALL	634325	4175550	NonCancer	0.00E+00	5.31E-09	0.00E+00	0.00E+00	0.00E+00	3.87E-09	4.31E-04	0.00E+00	1.44E-09	0.00E+00	0.00E+00	7.06E-08	0.00E+00	0.00E+00	4.31E-04
290	ALL	634525	4175550	NonCancer	0.00E+00	3.98E-09	0.00E+00	0.00E+00	0.00E+00	2.90E-09	3.42E-04	0.00E+00	1.08E-09	0.00E+00	0.00E+00	5.30E-08	0.00E+00	0.00E+00	3.42E-04
291	ALL	634575	4175550	NonCancer	0.00E+00	3.75E-09	0.00E+00	0.00E+00	0.00E+00	2.73E-09	3.26E-04	0.00E+00	1.02E-09	0.00E+00	0.00E+00	4.98E-08	0.00E+00	0.00E+00	3.26E-04
292	ALL	634775	4175550	NonCancer	0.00E+00	3.01E-09	0.00E+00	0.00E+00	0.00E+00	2.19E-09	2.77E-04	0.00E+00	8.18E-10	0.00E+00	0.00E+00	4.00E-08	0.00E+00	0.00E+00	2.77E-04
293	ALL	634825	4175550	NonCancer	0.00E+00	2.87E-09	0.00E+00	0.00E+00	0.00E+00	2.09E-09	2.66E-04	0.00E+00	7.79E-10	0.00E+00	0.00E+00	3.81E-08	0.00E+00	0.00E+00	2.66E-04
294	ALL	634625	4175600	NonCancer	0.00E+00	3.55E-09	0.00E+00	0.00E+00	0.00E+00	2.59E-09	3.11E-04	0.00E+00	9.67E-10	0.00E+00	0.00E+00	4.73E-08	0.00E+00	0.00E+00	3.11E-04
295	ALL	634675	4175600	NonCancer	0.00E+00	3.36E-09	0.00E+00	0.00E+00	0.00E+00	2.45E-09	3.00E-04	0.00E+00	9.15E-10	0.00E+00	0.00E+00	4.47E-08	0.00E+00	0.00E+00	3.00E-04
296	ALL	634725	4175600	NonCancer	0.00E+00	3.20E-09	0.00E+00	0.00E+00	0.00E+00	2.33E-09	2.89E-04	0.00E+00	8.69E-10	0.00E+00	0.00E+00	4.25E-08	0.00E+00	0.00E+00	2.89E-04
297	ALL	634775	4175600	NonCancer	0.00E+00	3.04E-09	0.00E+00	0.00E+00	0.00E+00	2.21E-09	2.79E-04	0.00E+00	8.27E-10	0.00E+00	0.00E+00	4.04E-08	0.00E+00	0.00E+00	2.79E-04
298	ALL	634825	4175600	NonCancer	0.00E+00	2.90E-09	0.00E+00	0.00E+00	0.00E+00	2.11E-09	2.68E-04	0.00E+00	7.88E-10	0.00E+00	0.00E+00	3.85E-08	0.00E+00	0.00E+00	2.68E-04
299	ALL	634875	4175600	NonCancer	0.00E+00	2.77E-09	0.00E+00	0.00E+00	0.00E+00	2.02E-09	2.58E-04	0.00E+00	7.53E-10	0.00E+00	0.00E+00	3.68E-08	0.00E+00	0.00E+00	2.58E-04
300	ALL	634925	4175600	NonCancer	0.00E+00	2.65E-09	0.00E+00	0.00E+00	0.00E+00	1.93E-09	2.49E-04	0.00E+00	7.21E-10	0.00E+00	0.00E+00	3.53E-08	0.00E+00	0.00E+00	2.49E-04
301	ALL	635375	4175600	NonCancer	0.00E+00	1.91E-09	0.00E+00	0.00E+00	0.00E+00	1.39E-09	1.87E-04	0.00E+00	5.19E-10	0.00E+00	0.00E+00	2.54E-08	0.00E+00	0.00E+00	1.87E-04
302	ALL	634275	4175650	NonCancer	0.00E+00	5.55E-09	0.00E+00	0.00E+00	0.00E+00	4.04E-09	4.41E-04	0.00E+00	1.51E-09	0.00E+00	0.00E+00	7.38E-08	0.00E+00	0.00E+00	4.41E-04
303	ALL	634325	4175650	NonCancer	0.00E+00	5.14E-09	0.00E+00	0.00E+00	0.00E+00	3.74E-09	4.20E-04	0.00E+00	1.40E-09	0.00E+00	0.00E+00	6.83E-08	0.00E+00	0.00E+00	4.20E-04
304	ALL	634575	4175650	NonCancer	0.00E+00	3.72E-09	0.00E+00	0.00E+00	0.00E+00	2.71E-09	3.32E-04	0.00E+00	1.01E-09	0.00E+00	0.00E+00	4.94E-08	0.00E+00	0.00E+00	3.32E-04
305	ALL	634625	4175650	NonCancer	0.00E+00	3.52E-09	0.00E+00	0.00E+00	0.00E+00	2.56E-09	3.18E-04	0.00E+00	9.58E-10	0.00E+00	0.00E+00	4.68E-08	0.00E+00	0.00E+00	3.18E-04
306	ALL	634675	4175650	NonCancer	0.00E+00	3.34E-09	0.00E+00	0.00E+00	0.00E+00	2.43E-09	3.05E-04	0.00E+00	9.08E-10	0.00E+00	0.00E+00	4.44E-08	0.00E+00	0.00E+00	3.05E-04
307	ALL	634725	4175650	NonCancer	0.00E+00	3.18E-09	0.00E+00	0.00E+00	0.00E+00	2.32E-09	2.92E-04	0.00E+00	8.66E-10	0.00E+00	0.00E+00	4.23E-08	0.00E+00	0.00E+00	2.92E-04
308	ALL	634775	4175650	NonCancer	0.00E+00	3.04E-09	0.00E+00	0.00E+00	0.00E+00	2.21E-09	2.80E-04	0.00E+00	8.26E-10	0.00E+00	0.00E+00	4.04E-08	0.00E+00	0.00E+00	2.80E-04
309	ALL	634825	4175650	NonCancer	0.00E+00	2.91E-09	0.00E+00	0.00E+00	0.00E+00	2.12E-09	2.70E-04	0.00E+00	7.91E-10	0.00E+00	0.00E+00	3.87E-08	0.00E+00	0.00E+00	2.70E-04
310	ALL	634875	4175650	NonCancer	0.00E+00	2.79E-09	0.00E+00	0.00E+00	0.00E+00	2.03E-09	2.60E-04	0.00E+00	7.57E-10	0.00E+00	0.00E+00	3.70E-08	0.00E+00	0.00E+00	2.60E-04
311	ALL	634925	4175650	NonCancer	0.00E+00	2.67E-09	0.00E+00	0.00E+00	0.00E+00	1.95E-09	2.51E-04	0.00E+00	7.26E-10	0.00E+00	0.00E+00	3.55E-08	0.00E+00	0.00E+00	2.51E-04
312	ALL	634975	4175650	NonCancer	0.00E+00	2.57E-09	0.00E+00	0.00E+00	0.00E+00	1.87E-09	2.42E-04	0.00E+00	6.98E-10	0.00E+00	0.00E+00	3.41E-08	0.00E+00	0.00E+00	2.42E-04
313	ALL	635025	4175650	NonCancer	0.00E+00	2.47E-09	0.00E+00	0.00E+00	0.00E+00	1.80E-09	2.34E-04	0.00E+00	6.71E-10	0.00E+00	0.00E+00	3.28E-08	0.00E+00	0.00E+00	2.34E-04
314	ALL	635325	4175650	NonCancer	0.00E+00	2.00E-09	0.00E+00	0.00E+00	0.00E+00	1.45E-09	1.91E-04	0.00E+00	5.43E-10	0.00E+00	0.00E+00	2.65E-08	0.00E+00	0.00E+00	1.91E-04
315	ALL	635375	4175650	NonCancer	0.00E+00	1.93E-09	0.00E+00	0.00E+00	0.00E+00	1.41E-09	1.85E-04	0.00E+00	5.26E-10	0.00E+00	0.00E+00	2.57E-08	0.00E+00	0.00E+00	1.85E-04
316	ALL	634475	4175700	NonCancer	0.00E+00	4.08E-09	0.00E+00	0.00E+00	0.00E+00	2.97E-09	3.66E-04	0.00E+00	1.11E-09	0.00E+00	0.00E+00	5.43E-08	0.00E+00	0.00E+00	3.66E-04
317	ALL	634525	4175700	NonCancer	0.00E+00	3.87E-09	0.00E+00	0.00E+00	0.00E+00	2.82E-09	3.48E-04	0.00E+00	1.05E-09	0.00E+00	0.00E+00	5.14E-08	0.00E+00	0.00E+00	3.48E-04
318	ALL	634575	4175700	NonCancer	0.00E+00	3.67E-09	0.00E+00	0.00E+00	0.00E+00	2.68E-09	3.32E-04	0.00E+00	9.99E-10	0.00E+00	0.00E+00	4.88E-08	0.00E+00	0.00E+00	3.32E-04
319	ALL	634625	4175700	NonCancer	0.00E+00	3.50E-09	0.00E+00	0.00E+00	0.00E+00	2.55E-09	3.16E-04	0.00E+00	9.51E-10	0.00E+00	0.00E+00	4.65E-08	0.00E+00	0.00E+00	3.16E-04
320	ALL	634675	4175700	NonCancer	0.00E+00	3.33E-09	0.00E+00	0.00E+00	0.00E+00	2.43E-09	3.02E-04	0.00E+00	9.07E-10	0.00E+00	0.00E+00	4.43E-08	0.00E+00	0.00E+00	3.02E-04
321	ALL	634725	4175700	NonCancer	0.00E+00	3.19E-09	0.00E+00	0.00E+00	0.00E+00	2.32E-09	2.90E-04	0.00E+00	8.67E-10	0.00E+00	0.00E+00	4.24E-08	0.00E+00	0.00E+00	2.90E-04
322	ALL	634775	4175700	NonCancer	0.00E+00	3.05E-09	0.00E+00	0.00E+00	0.00E+00	2.22E-09	2.80E-04	0.00E+00	8.29E-10	0.00E+00	0.00E+00	4.06E-08	0.00E+00	0.00E+00	2.80E-04
323	ALL	634825	4175700	NonCancer	0.00E+00	2.92E-09	0.00E+00	0.00E+00	0.00E+00	2.13E-09	2.69E-04	0.00E+00	7.94E-10	0.00E+00	0.00E+00	3.88E-08	0.00E+00	0.00E+00	2.69E-04
324	ALL	634875	4175700	NonCancer	0.00E+00	2.80E-09	0.00E+00	0.00E+00	0.00E+00	2.04E-09	2.60E-04	0.00E+00	7.62E-10	0.00E+00	0.00E+00	3.73E-08	0.00E+00	0.00E+00	2.60E-04
325	ALL	634925	4175700	NonCancer	0.00E+00	2.69E-09	0.00E+00	0.00E+00	0.00E+00	1.96E-09	2.51E-04	0.00E+00	7.31E-10	0.00E+00	0.00E+00	3.58E-08	0.00E+00	0.00E+00	2.51E-04
326	ALL	634975	4175700	NonCancer	0.00E+00	2.59E-09	0.00E+00	0.00E+00	0.00E+00	1.88E-09	2.43E-04	0.00E+00	7.03E-10	0.00E+00	0.00E+00	3.44E-08	0.00E+00	0.00E+00	2.43E-04
327	ALL	635025	4175700	NonCancer	0.00E+00	2.49E-09	0.00E+00	0.00E+00	0.00E+00	1.81E-09	2.34E-04	0.00E+00	6.77E-10	0.00E+00	0.00E+00	3.31E-08	0.00E+00	0.00E+00	2.34E-04
328	ALL	635075	4175700	NonCancer	0.00E+00	2.40E-09	0.00E+00	0.00E+00	0.00E+00	1.75E-09	2.27E-04	0.00E+00	6.52E-10	0.00E+00	0.00E+00	3.19E-08	0.00E+00	0.00E+00	2.27E-04

329	ALL	635125	4175700	NonCancer	0.00E+00	2.31E-09	0.00E+00	0.00E+00	0.00E+00	1.68E-09	2.20E-04	0.00E+00	6.28E-10	0.00E+00	0.00E+00	3.07E-08	0.00E+00	0.00E+00	2.20E-04
330	ALL	634425	4175750	NonCancer	0.00E+00	4.27E-09	0.00E+00	0.00E+00	0.00E+00	3.11E-09	3.86E-04	0.00E+00	1.16E-09	0.00E+00	0.00E+00	5.68E-08	0.00E+00	0.00E+00	3.86E-04
331	ALL	634575	4175750	NonCancer	0.00E+00	3.67E-09	0.00E+00	0.00E+00	0.00E+00	2.67E-09	3.34E-04	0.00E+00	9.98E-10	0.00E+00	0.00E+00	4.88E-08	0.00E+00	0.00E+00	3.34E-04
332	ALL	634625	4175750	NonCancer	0.00E+00	3.50E-09	0.00E+00	0.00E+00	0.00E+00	2.55E-09	3.19E-04	0.00E+00	9.51E-10	0.00E+00	0.00E+00	4.65E-08	0.00E+00	0.00E+00	3.19E-04
333	ALL	634675	4175750	NonCancer	0.00E+00	3.34E-09	0.00E+00	0.00E+00	0.00E+00	2.43E-09	3.05E-04	0.00E+00	9.08E-10	0.00E+00	0.00E+00	4.44E-08	0.00E+00	0.00E+00	3.05E-04
334	ALL	634725	4175750	NonCancer	0.00E+00	3.19E-09	0.00E+00	0.00E+00	0.00E+00	2.33E-09	2.93E-04	0.00E+00	8.69E-10	0.00E+00	0.00E+00	4.25E-08	0.00E+00	0.00E+00	2.93E-04
335	ALL	634775	4175750	NonCancer	0.00E+00	3.06E-09	0.00E+00	0.00E+00	0.00E+00	2.23E-09	2.81E-04	0.00E+00	8.31E-10	0.00E+00	0.00E+00	4.06E-08	0.00E+00	0.00E+00	2.81E-04
336	ALL	634825	4175750	NonCancer	0.00E+00	2.93E-09	0.00E+00	0.00E+00	0.00E+00	2.13E-09	2.69E-04	0.00E+00	7.97E-10	0.00E+00	0.00E+00	3.90E-08	0.00E+00	0.00E+00	2.69E-04
337	ALL	634875	4175750	NonCancer	0.00E+00	2.81E-09	0.00E+00	0.00E+00	0.00E+00	2.05E-09	2.58E-04	0.00E+00	7.64E-10	0.00E+00	0.00E+00	3.73E-08	0.00E+00	0.00E+00	2.58E-04
338	ALL	634925	4175750	NonCancer	0.00E+00	2.70E-09	0.00E+00	0.00E+00	0.00E+00	1.96E-09	2.49E-04	0.00E+00	7.34E-10	0.00E+00	0.00E+00	3.59E-08	0.00E+00	0.00E+00	2.49E-04
339	ALL	634975	4175750	NonCancer	0.00E+00	2.59E-09	0.00E+00	0.00E+00	0.00E+00	1.89E-09	2.40E-04	0.00E+00	7.05E-10	0.00E+00	0.00E+00	3.45E-08	0.00E+00	0.00E+00	2.40E-04
340	ALL	635025	4175750	NonCancer	0.00E+00	2.50E-09	0.00E+00	0.00E+00	0.00E+00	1.82E-09	2.32E-04	0.00E+00	6.78E-10	0.00E+00	0.00E+00	3.32E-08	0.00E+00	0.00E+00	2.32E-04
341	ALL	635075	4175750	NonCancer	0.00E+00	2.40E-09	0.00E+00	0.00E+00	0.00E+00	1.75E-09	2.25E-04	0.00E+00	6.54E-10	0.00E+00	0.00E+00	3.20E-08	0.00E+00	0.00E+00	2.25E-04
342	ALL	635125	4175750	NonCancer	0.00E+00	2.32E-09	0.00E+00	0.00E+00	0.00E+00	1.69E-09	2.18E-04	0.00E+00	6.30E-10	0.00E+00	0.00E+00	3.08E-08	0.00E+00	0.00E+00	2.18E-04
343	ALL	635175	4175750	NonCancer	0.00E+00	2.23E-09	0.00E+00	0.00E+00	0.00E+00	1.63E-09	2.10E-04	0.00E+00	6.07E-10	0.00E+00	0.00E+00	2.97E-08	0.00E+00	0.00E+00	2.10E-04
344	ALL	635225	4175750	NonCancer	0.00E+00	2.16E-09	0.00E+00	0.00E+00	0.00E+00	1.57E-09	2.04E-04	0.00E+00	5.87E-10	0.00E+00	0.00E+00	2.87E-08	0.00E+00	0.00E+00	2.04E-04
345	ALL	634325	4175800	NonCancer	0.00E+00	4.73E-09	0.00E+00	0.00E+00	0.00E+00	3.44E-09	4.29E-04	0.00E+00	1.29E-09	0.00E+00	0.00E+00	6.29E-08	0.00E+00	0.00E+00	4.29E-04
346	ALL	634375	4175800	NonCancer	0.00E+00	4.47E-09	0.00E+00	0.00E+00	0.00E+00	3.26E-09	4.07E-04	0.00E+00	1.22E-09	0.00E+00	0.00E+00	5.95E-08	0.00E+00	0.00E+00	4.07E-04
347	ALL	634425	4175800	NonCancer	0.00E+00	4.24E-09	0.00E+00	0.00E+00	0.00E+00	3.09E-09	3.86E-04	0.00E+00	1.15E-09	0.00E+00	0.00E+00	5.64E-08	0.00E+00	0.00E+00	3.86E-04
348	ALL	634475	4175800	NonCancer	0.00E+00	4.03E-09	0.00E+00	0.00E+00	0.00E+00	2.93E-09	3.68E-04	0.00E+00	1.10E-09	0.00E+00	0.00E+00	5.35E-08	0.00E+00	0.00E+00	3.68E-04
349	ALL	634525	4175800	NonCancer	0.00E+00	3.83E-09	0.00E+00	0.00E+00	0.00E+00	2.79E-09	3.51E-04	0.00E+00	1.04E-09	0.00E+00	0.00E+00	5.09E-08	0.00E+00	0.00E+00	3.51E-04
350	ALL	634575	4175800	NonCancer	0.00E+00	3.65E-09	0.00E+00	0.00E+00	0.00E+00	2.65E-09	3.35E-04	0.00E+00	9.91E-10	0.00E+00	0.00E+00	4.85E-08	0.00E+00	0.00E+00	3.35E-04
351	ALL	634625	4175800	NonCancer	0.00E+00	3.48E-09	0.00E+00	0.00E+00	0.00E+00	2.53E-09	3.21E-04	0.00E+00	9.46E-10	0.00E+00	0.00E+00	4.63E-08	0.00E+00	0.00E+00	3.21E-04
352	ALL	634675	4175800	NonCancer	0.00E+00	3.32E-09	0.00E+00	0.00E+00	0.00E+00	2.42E-09	3.07E-04	0.00E+00	9.03E-10	0.00E+00	0.00E+00	4.41E-08	0.00E+00	0.00E+00	3.07E-04
353	ALL	634725	4175800	NonCancer	0.00E+00	3.18E-09	0.00E+00	0.00E+00	0.00E+00	2.31E-09	2.95E-04	0.00E+00	8.64E-10	0.00E+00	0.00E+00	4.22E-08	0.00E+00	0.00E+00	2.95E-04
354	ALL	634775	4175800	NonCancer	0.00E+00	3.04E-09	0.00E+00	0.00E+00	0.00E+00	2.21E-09	2.83E-04	0.00E+00	8.27E-10	0.00E+00	0.00E+00	4.04E-08	0.00E+00	0.00E+00	2.83E-04
355	ALL	634825	4175800	NonCancer	0.00E+00	2.92E-09	0.00E+00	0.00E+00	0.00E+00	2.12E-09	2.73E-04	0.00E+00	7.93E-10	0.00E+00	0.00E+00	3.88E-08	0.00E+00	0.00E+00	2.73E-04
356	ALL	634875	4175800	NonCancer	0.00E+00	2.80E-09	0.00E+00	0.00E+00	0.00E+00	2.04E-09	2.62E-04	0.00E+00	7.60E-10	0.00E+00	0.00E+00	3.72E-08	0.00E+00	0.00E+00	2.62E-04
357	ALL	634925	4175800	NonCancer	0.00E+00	2.69E-09	0.00E+00	0.00E+00	0.00E+00	1.96E-09	2.52E-04	0.00E+00	7.30E-10	0.00E+00	0.00E+00	3.57E-08	0.00E+00	0.00E+00	2.52E-04
358	ALL	634975	4175800	NonCancer	0.00E+00	2.58E-09	0.00E+00	0.00E+00	0.00E+00	1.88E-09	2.44E-04	0.00E+00	7.02E-10	0.00E+00	0.00E+00	3.43E-08	0.00E+00	0.00E+00	2.44E-04
359	ALL	635025	4175800	NonCancer	0.00E+00	2.48E-09	0.00E+00	0.00E+00	0.00E+00	1.81E-09	2.35E-04	0.00E+00	6.75E-10	0.00E+00	0.00E+00	3.30E-08	0.00E+00	0.00E+00	2.35E-04
360	ALL	635075	4175800	NonCancer	0.00E+00	2.39E-09	0.00E+00	0.00E+00	0.00E+00	1.74E-09	2.27E-04	0.00E+00	6.50E-10	0.00E+00	0.00E+00	3.18E-08	0.00E+00	0.00E+00	2.27E-04
361	ALL	635125	4175800	NonCancer	0.00E+00	2.31E-09	0.00E+00	0.00E+00	0.00E+00	1.68E-09	2.19E-04	0.00E+00	6.27E-10	0.00E+00	0.00E+00	3.06E-08	0.00E+00	0.00E+00	2.19E-04
362	ALL	635175	4175800	NonCancer	0.00E+00	2.22E-09	0.00E+00	0.00E+00	0.00E+00	1.62E-09	2.13E-04	0.00E+00	6.05E-10	0.00E+00	0.00E+00	2.96E-08	0.00E+00	0.00E+00	2.13E-04
363	ALL	635225	4175800	NonCancer	0.00E+00	2.15E-09	0.00E+00	0.00E+00	0.00E+00	1.56E-09	2.06E-04	0.00E+00	5.84E-10	0.00E+00	0.00E+00	2.86E-08	0.00E+00	0.00E+00	2.06E-04
364	ALL	635275	4175800	NonCancer	0.00E+00	2.08E-09	0.00E+00	0.00E+00	0.00E+00	1.51E-09	2.00E-04	0.00E+00	5.64E-10	0.00E+00	0.00E+00	2.76E-08	0.00E+00	0.00E+00	2.00E-04
365	ALL	635325	4175800	NonCancer	0.00E+00	2.01E-09	0.00E+00	0.00E+00	0.00E+00	1.46E-09	1.93E-04	0.00E+00	5.46E-10	0.00E+00	0.00E+00	2.67E-08	0.00E+00	0.00E+00	1.93E-04
366	ALL	634225	4175850	NonCancer	0.00E+00	5.19E-09	0.00E+00	0.00E+00	0.00E+00	3.78E-09	4.60E-04	0.00E+00	1.41E-09	0.00E+00	0.00E+00	6.90E-08	0.00E+00	0.00E+00	4.60E-04
367	ALL	634325	4175850	NonCancer	0.00E+00	4.63E-09	0.00E+00	0.00E+00	0.00E+00	3.37E-09	4.15E-04	0.00E+00	1.26E-09	0.00E+00	0.00E+00	6.16E-08	0.00E+00	0.00E+00	4.15E-04
368	ALL	634375	4175850	NonCancer	0.00E+00	4.38E-09	0.00E+00	0.00E+00	0.00E+00	3.19E-09	3.93E-04	0.00E+00	1.19E-09	0.00E+00	0.00E+00	5.83E-08	0.00E+00	0.00E+00	3.93E-04
369	ALL	634425	4175850	NonCancer	0.00E+00	4.16E-09	0.00E+00	0.00E+00	0.00E+00	3.03E-09	3.75E-04	0.00E+00	1.13E-09	0.00E+00	0.00E+00	5.53E-08	0.00E+00	0.00E+00	3.75E-04
370	ALL	634475	4175850	NonCancer	0.00E+00	3.95E-09	0.00E+00	0.00E+00	0.00E+00	2.88E-09	3.58E-04	0.00E+00	1.07E-09	0.00E+00	0.00E+00	5.25E-08	0.00E+00	0.00E+00	3.58E-04
371	ALL	634525	4175850	NonCancer	0.00E+00	3.76E-09	0.00E+00	0.00E+00	0.00E+00	2.74E-09	3.42E-04	0.00E+00	1.02E-09	0.00E+00	0.00E+00	5.00E-08	0.00E+00	0.00E+00	3.42E-04
372	ALL	634575	4175850	NonCancer	0.00E+00	3.58E-09	0.00E+00	0.00E+00	0.00E+00	2.61E-09	3.26E-04	0.00E+00	9.74E-10	0.00E+00	0.00E+00	4.76E-08	0.00E+00	0.00E+00	3.26E-04
373	ALL	634625	4175850	NonCancer	0.00E+00	3.42E-09	0.00E+00	0.00E+00	0.00E+00	2.49E-09	3.14E-04	0.00E+00	9.31E-10	0.00E+00	0.00E+00	4.55E-08	0.00E+00	0.00E+00	3.14E-04
374	ALL	634675	4175850	NonCancer	0.00E+00	3.27E-09	0.00E+00	0.00E+00	0.00E+00	2.38E-09	3.00E-04	0.00E+00	8.89E-10	0.00E+00	0.00E+00	4.34E-08	0.00E+00	0.00E+00	3.00E-04
375	ALL	634725	4175850	NonCancer	0.00E+00	3.13E-09	0.00E+00	0.00E+00	0.00E+00	2.28E-09	2.88E-04	0.00E+00	8.50E-10	0.00E+00	0.00E+00	4.15E-08	0.00E+00	0.00E+00	2.88E-04
376	ALL	634775	4175850	NonCancer	0.00E+00	3.00E-09	0.00E+00	0.00E+00	0.00E+00	2.18E-09	2.78E-04	0.00E+00	8.15E-10	0.00E+00	0.00E+00	3.98E-08	0.00E+00	0.00E+00	2.78E-04
377	ALL	634825	4175850	NonCancer	0.00E+00	2.87E-09	0.00E+00	0.00E+00	0.00E+00	2.09E-09	2.67E-04	0.00E+00	7.81E-10	0.00E+00	0.00E+00	3.82E-08	0.00E+00	0.00E+00	2.67E-04
378	ALL	634875	4175850	NonCancer	0.00E+00	2.76E-09	0.00E+00	0.00E+00	0.00E+00	2.01E-09	2.57E-04	0.00E+00	7.49E-10	0.00E+00	0.00E+00	3.66E-08	0.00E+00	0.00E+00	2.57E-04
379	ALL	634925	4175850	NonCancer	0.00E+00	2.65E-09	0.00E+00	0.00E+00	0.00E+00	1.93E-09	2.47E-04	0.00E+00	7.20E-10	0.00E+00	0.00E+00	3.52E-08	0.00E+00	0.00E+00	2.47E-04
380	ALL	634975	4175850	NonCancer	0.00E+00	2.55E-09	0.00E+00	0.00E+00	0.00E+00	1.85E-09	2.39E-04	0.00E+00	6.92E-10	0.00E+00	0.00E+00	3.38E-08	0.00E+00	0.00E+00	2.39E-04
381	ALL	635025	4175850	NonCancer	0.00E+00	2.45E-09	0.00E+00	0.00E+00	0.00E+00	1.78E-09	2.31E-04	0.00E+00	6.66E-10	0.00E+00	0.00E+00	3.26E-08	0.00E+00	0.00E+00	2.31E-04
382	ALL	635075	4175850	NonCancer	0.00E+00	2.36E-09	0.00E+00	0.00E+00	0.00E+00	1.72E-09	2.23E-04	0.00E+00	6.42E-10	0.00E+00	0.00E+00	3.14E-08	0.00E+00	0.00E+00	2.23E-04
383	ALL	635125	4175850	NonCancer	0.00E+00	2.28E-09	0.00E+00	0.00E+00	0.00E+00	1.66E-09	2.16E-04	0.00E+00	6.19E-10	0.00E+00	0.00E+00	3.03E-08	0.00E+00	0.00E+00	2.16E-04

384	ALL	635175	4175850	NonCancer	0.00E+00	2.20E-09	0.00E+00	0.00E+00	0.00E+00	1.60E-09	2.09E-04	0.00E+00	5.98E-10	0.00E+00	0.00E+00	2.92E-08	0.00E+00	0.00E+00	2.09E-04
385	ALL	635225	4175850	NonCancer	0.00E+00	2.12E-09	0.00E+00	0.00E+00	0.00E+00	1.55E-09	2.02E-04	0.00E+00	5.77E-10	0.00E+00	0.00E+00	2.82E-08	0.00E+00	0.00E+00	2.02E-04
386	ALL	635275	4175850	NonCancer	0.00E+00	2.05E-09	0.00E+00	0.00E+00	0.00E+00	1.49E-09	1.97E-04	0.00E+00	5.58E-10	0.00E+00	0.00E+00	2.73E-08	0.00E+00	0.00E+00	1.97E-04
387	ALL	635325	4175850	NonCancer	0.00E+00	1.98E-09	0.00E+00	0.00E+00	0.00E+00	1.44E-09	1.91E-04	0.00E+00	5.40E-10	0.00E+00	0.00E+00	2.64E-08	0.00E+00	0.00E+00	1.91E-04
388	ALL	635375	4175850	NonCancer	0.00E+00	1.92E-09	0.00E+00	0.00E+00	0.00E+00	1.40E-09	1.85E-04	0.00E+00	5.22E-10	0.00E+00	0.00E+00	2.55E-08	0.00E+00	0.00E+00	1.85E-04
389	ALL	635425	4175850	NonCancer	0.00E+00	1.86E-09	0.00E+00	0.00E+00	0.00E+00	1.35E-09	1.79E-04	0.00E+00	5.05E-10	0.00E+00	0.00E+00	2.47E-08	0.00E+00	0.00E+00	1.79E-04
390	ALL	634225	4175900	NonCancer	0.00E+00	4.99E-09	0.00E+00	0.00E+00	0.00E+00	3.63E-09	4.97E-04	0.00E+00	1.36E-09	0.00E+00	0.00E+00	6.63E-08	0.00E+00	0.00E+00	4.97E-04
391	ALL	634325	4175900	NonCancer	0.00E+00	4.47E-09	0.00E+00	0.00E+00	0.00E+00	3.26E-09	4.43E-04	0.00E+00	1.22E-09	0.00E+00	0.00E+00	5.94E-08	0.00E+00	0.00E+00	4.43E-04
392	ALL	634375	4175900	NonCancer	0.00E+00	4.24E-09	0.00E+00	0.00E+00	0.00E+00	3.09E-09	4.17E-04	0.00E+00	1.15E-09	0.00E+00	0.00E+00	5.63E-08	0.00E+00	0.00E+00	4.17E-04
393	ALL	634425	4175900	NonCancer	0.00E+00	4.02E-09	0.00E+00	0.00E+00	0.00E+00	2.93E-09	3.93E-04	0.00E+00	1.09E-09	0.00E+00	0.00E+00	5.35E-08	0.00E+00	0.00E+00	3.93E-04
394	ALL	634475	4175900	NonCancer	0.00E+00	3.83E-09	0.00E+00	0.00E+00	0.00E+00	2.79E-09	3.73E-04	0.00E+00	1.04E-09	0.00E+00	0.00E+00	5.09E-08	0.00E+00	0.00E+00	3.73E-04
395	ALL	634525	4175900	NonCancer	0.00E+00	3.65E-09	0.00E+00	0.00E+00	0.00E+00	2.65E-09	3.53E-04	0.00E+00	9.91E-10	0.00E+00	0.00E+00	4.85E-08	0.00E+00	0.00E+00	3.53E-04
396	ALL	634575	4175900	NonCancer	0.00E+00	3.48E-09	0.00E+00	0.00E+00	0.00E+00	2.53E-09	3.35E-04	0.00E+00	9.46E-10	0.00E+00	0.00E+00	4.62E-08	0.00E+00	0.00E+00	3.35E-04
397	ALL	634625	4175900	NonCancer	0.00E+00	3.32E-09	0.00E+00	0.00E+00	0.00E+00	2.42E-09	3.19E-04	0.00E+00	9.04E-10	0.00E+00	0.00E+00	4.42E-08	0.00E+00	0.00E+00	3.19E-04
398	ALL	634675	4175900	NonCancer	0.00E+00	3.18E-09	0.00E+00	0.00E+00	0.00E+00	2.32E-09	3.04E-04	0.00E+00	8.65E-10	0.00E+00	0.00E+00	4.23E-08	0.00E+00	0.00E+00	3.04E-04
399	ALL	634725	4175900	NonCancer	0.00E+00	3.05E-09	0.00E+00	0.00E+00	0.00E+00	2.22E-09	2.89E-04	0.00E+00	8.28E-10	0.00E+00	0.00E+00	4.05E-08	0.00E+00	0.00E+00	2.89E-04
400	ALL	634775	4175900	NonCancer	0.00E+00	2.92E-09	0.00E+00	0.00E+00	0.00E+00	2.13E-09	2.76E-04	0.00E+00	7.94E-10	0.00E+00	0.00E+00	3.88E-08	0.00E+00	0.00E+00	2.76E-04
401	ALL	634875	4175900	NonCancer	0.00E+00	2.69E-09	0.00E+00	0.00E+00	0.00E+00	1.96E-09	2.51E-04	0.00E+00	7.32E-10	0.00E+00	0.00E+00	3.58E-08	0.00E+00	0.00E+00	2.51E-04
402	ALL	634925	4175900	NonCancer	0.00E+00	2.59E-09	0.00E+00	0.00E+00	0.00E+00	1.88E-09	2.40E-04	0.00E+00	7.03E-10	0.00E+00	0.00E+00	3.44E-08	0.00E+00	0.00E+00	2.40E-04
403	ALL	634975	4175900	NonCancer	0.00E+00	2.49E-09	0.00E+00	0.00E+00	0.00E+00	1.81E-09	2.31E-04	0.00E+00	6.77E-10	0.00E+00	0.00E+00	3.31E-08	0.00E+00	0.00E+00	2.31E-04
404	ALL	635025	4175900	NonCancer	0.00E+00	2.40E-09	0.00E+00	0.00E+00	0.00E+00	1.75E-09	2.23E-04	0.00E+00	6.52E-10	0.00E+00	0.00E+00	3.19E-08	0.00E+00	0.00E+00	2.23E-04
405	ALL	635075	4175900	NonCancer	0.00E+00	2.31E-09	0.00E+00	0.00E+00	0.00E+00	1.68E-09	2.15E-04	0.00E+00	6.29E-10	0.00E+00	0.00E+00	3.08E-08	0.00E+00	0.00E+00	2.15E-04
406	ALL	635125	4175900	NonCancer	0.00E+00	2.23E-09	0.00E+00	0.00E+00	0.00E+00	1.62E-09	2.07E-04	0.00E+00	6.07E-10	0.00E+00	0.00E+00	2.97E-08	0.00E+00	0.00E+00	2.07E-04
407	ALL	635175	4175900	NonCancer	0.00E+00	2.16E-09	0.00E+00	0.00E+00	0.00E+00	1.57E-09	2.00E-04	0.00E+00	5.86E-10	0.00E+00	0.00E+00	2.86E-08	0.00E+00	0.00E+00	2.00E-04
408	ALL	635225	4175900	NonCancer	0.00E+00	2.08E-09	0.00E+00	0.00E+00	0.00E+00	1.52E-09	1.94E-04	0.00E+00	5.66E-10	0.00E+00	0.00E+00	2.77E-08	0.00E+00	0.00E+00	1.94E-04
409	ALL	635275	4175900	NonCancer	0.00E+00	2.01E-09	0.00E+00	0.00E+00	0.00E+00	1.47E-09	1.87E-04	0.00E+00	5.47E-10	0.00E+00	0.00E+00	2.68E-08	0.00E+00	0.00E+00	1.87E-04
410	ALL	635325	4175900	NonCancer	0.00E+00	1.95E-09	0.00E+00	0.00E+00	0.00E+00	1.42E-09	1.81E-04	0.00E+00	5.30E-10	0.00E+00	0.00E+00	2.59E-08	0.00E+00	0.00E+00	1.81E-04
411	ALL	635375	4175900	NonCancer	0.00E+00	1.89E-09	0.00E+00	0.00E+00	0.00E+00	1.37E-09	1.75E-04	0.00E+00	5.13E-10	0.00E+00	0.00E+00	2.51E-08	0.00E+00	0.00E+00	1.75E-04
412	ALL	635425	4175900	NonCancer	0.00E+00	1.83E-09	0.00E+00	0.00E+00	0.00E+00	1.33E-09	1.70E-04	0.00E+00	4.97E-10	0.00E+00	0.00E+00	2.43E-08	0.00E+00	0.00E+00	1.70E-04
413	ALL	635475	4175900	NonCancer	0.00E+00	1.77E-09	0.00E+00	0.00E+00	0.00E+00	1.29E-09	1.65E-04	0.00E+00	4.82E-10	0.00E+00	0.00E+00	2.35E-08	0.00E+00	0.00E+00	1.65E-04
414	ALL	635525	4175900	NonCancer	0.00E+00	1.72E-09	0.00E+00	0.00E+00	0.00E+00	1.25E-09	1.60E-04	0.00E+00	4.67E-10	0.00E+00	0.00E+00	2.28E-08	0.00E+00	0.00E+00	1.60E-04
415	ALL	634325	4175950	NonCancer	0.00E+00	4.25E-09	0.00E+00	0.00E+00	0.00E+00	3.09E-09	4.40E-04	0.00E+00	1.16E-09	0.00E+00	0.00E+00	5.65E-08	0.00E+00	0.00E+00	4.40E-04
416	ALL	634375	4175950	NonCancer	0.00E+00	4.04E-09	0.00E+00	0.00E+00	0.00E+00	2.94E-09	4.19E-04	0.00E+00	1.10E-09	0.00E+00	0.00E+00	5.37E-08	0.00E+00	0.00E+00	4.19E-04
417	ALL	634425	4175950	NonCancer	0.00E+00	3.84E-09	0.00E+00	0.00E+00	0.00E+00	2.80E-09	4.00E-04	0.00E+00	1.05E-09	0.00E+00	0.00E+00	5.11E-08	0.00E+00	0.00E+00	4.00E-04
418	ALL	634475	4175950	NonCancer	0.00E+00	3.66E-09	0.00E+00	0.00E+00	0.00E+00	2.67E-09	3.83E-04	0.00E+00	9.96E-10	0.00E+00	0.00E+00	4.87E-08	0.00E+00	0.00E+00	3.83E-04
419	ALL	634525	4175950	NonCancer	0.00E+00	3.50E-09	0.00E+00	0.00E+00	0.00E+00	2.55E-09	3.66E-04	0.00E+00	9.51E-10	0.00E+00	0.00E+00	4.65E-08	0.00E+00	0.00E+00	3.66E-04
420	ALL	634575	4175950	NonCancer	0.00E+00	3.34E-09	0.00E+00	0.00E+00	0.00E+00	2.43E-09	3.50E-04	0.00E+00	9.08E-10	0.00E+00	0.00E+00	4.44E-08	0.00E+00	0.00E+00	3.50E-04
421	ALL	634625	4175950	NonCancer	0.00E+00	3.20E-09	0.00E+00	0.00E+00	0.00E+00	2.33E-09	3.36E-04	0.00E+00	8.70E-10	0.00E+00	0.00E+00	4.25E-08	0.00E+00	0.00E+00	3.36E-04
422	ALL	634675	4175950	NonCancer	0.00E+00	3.07E-09	0.00E+00	0.00E+00	0.00E+00	2.23E-09	3.23E-04	0.00E+00	8.34E-10	0.00E+00	0.00E+00	4.08E-08	0.00E+00	0.00E+00	3.23E-04
423	ALL	634875	4175950	NonCancer	0.00E+00	2.61E-09	0.00E+00	0.00E+00	0.00E+00	1.90E-09	2.72E-04	0.00E+00	7.08E-10	0.00E+00	0.00E+00	3.46E-08	0.00E+00	0.00E+00	2.72E-04
424	ALL	634925	4175950	NonCancer	0.00E+00	2.51E-09	0.00E+00	0.00E+00	0.00E+00	1.83E-09	2.61E-04	0.00E+00	6.82E-10	0.00E+00	0.00E+00	3.33E-08	0.00E+00	0.00E+00	2.61E-04
425	ALL	634975	4175950	NonCancer	0.00E+00	2.42E-09	0.00E+00	0.00E+00	0.00E+00	1.76E-09	2.51E-04	0.00E+00	6.57E-10	0.00E+00	0.00E+00	3.21E-08	0.00E+00	0.00E+00	2.51E-04
426	ALL	635025	4175950	NonCancer	0.00E+00	2.33E-09	0.00E+00	0.00E+00	0.00E+00	1.70E-09	2.42E-04	0.00E+00	6.34E-10	0.00E+00	0.00E+00	3.10E-08	0.00E+00	0.00E+00	2.42E-04
427	ALL	635075	4175950	NonCancer	0.00E+00	2.25E-09	0.00E+00	0.00E+00	0.00E+00	1.64E-09	2.32E-04	0.00E+00	6.11E-10	0.00E+00	0.00E+00	2.99E-08	0.00E+00	0.00E+00	2.32E-04
428	ALL	635125	4175950	NonCancer	0.00E+00	2.17E-09	0.00E+00	0.00E+00	0.00E+00	1.58E-09	2.24E-04	0.00E+00	5.91E-10	0.00E+00	0.00E+00	2.89E-08	0.00E+00	0.00E+00	2.24E-04
429	ALL	635175	4175950	NonCancer	0.00E+00	2.10E-09	0.00E+00	0.00E+00	0.00E+00	1.53E-09	2.16E-04	0.00E+00	5.71E-10	0.00E+00	0.00E+00	2.79E-08	0.00E+00	0.00E+00	2.16E-04
430	ALL	635225	4175950	NonCancer	0.00E+00	2.03E-09	0.00E+00	0.00E+00	0.00E+00	1.48E-09	2.07E-04	0.00E+00	5.52E-10	0.00E+00	0.00E+00	2.70E-08	0.00E+00	0.00E+00	2.07E-04
431	ALL	635275	4175950	NonCancer	0.00E+00	1.97E-09	0.00E+00	0.00E+00	0.00E+00	1.43E-09	2.00E-04	0.00E+00	5.34E-10	0.00E+00	0.00E+00	2.61E-08	0.00E+00	0.00E+00	2.00E-04
432	ALL	635325	4175950	NonCancer	0.00E+00	1.90E-09	0.00E+00	0.00E+00	0.00E+00	1.38E-09	1.92E-04	0.00E+00	5.17E-10	0.00E+00	0.00E+00	2.53E-08	0.00E+00	0.00E+00	1.92E-04
433	ALL	635375	4175950	NonCancer	0.00E+00	1.84E-09	0.00E+00	0.00E+00	0.00E+00	1.34E-09	1.86E-04	0.00E+00	5.01E-10	0.00E+00	0.00E+00	2.45E-08	0.00E+00	0.00E+00	1.86E-04
434	ALL	635425	4175950	NonCancer	0.00E+00	1.79E-09	0.00E+00	0.00E+00	0.00E+00	1.30E-09	1.79E-04	0.00E+00	4.86E-10	0.00E+00	0.00E+00	2.37E-08	0.00E+00	0.00E+00	1.79E-04
435	ALL	635475	4175950	NonCancer	0.00E+00	1.73E-09	0.00E+00	0.00E+00	0.00E+00	1.26E-09	1.73E-04	0.00E+00	4.71E-10	0.00E+00	0.00E+00	2.30E-08	0.00E+00	0.00E+00	1.73E-04
436	ALL	635525	4175950	NonCancer	0.00E+00	1.68E-09	0.00E+00	0.00E+00	0.00E+00	1.22E-09	1.67E-04	0.00E+00	4.57E-10	0.00E+00	0.00E+00	2.23E-08	0.00E+00	0.00E+00	1.67E-04
437	ALL	635575	4175950	NonCancer	0.00E+00	1.63E-09	0.00E+00	0.00E+00	0.00E+00	1.19E-09	1.61E-04	0.00E+00	4.44E-10	0.00E+00	0.00E+00	2.17E-08	0.00E+00	0.00E+00	1.61E-04
438	ALL	634725	4176000	NonCancer	0.00E+00	2.81E-09	0.00E+00	0.00E+00	0.00E+00	2.05E-09	3.03E-04	0.00E+00	7.65E-10	0.00E+00	0.00E+00	3.74E-08	0.00E+00	0.00E+00	3.03E-04

439	ALL	634925	4176000	NonCancer	0.00E+00	2.41E-09	0.00E+00	0.00E+00	0.00E+00	1.76E-09	2.60E-04	0.00E+00	6.56E-10	0.00E+00	0.00E+00	3.21E-08	0.00E+00	0.00E+00	2.60E-04
440	ALL	634975	4176000	NonCancer	0.00E+00	2.33E-09	0.00E+00	0.00E+00	0.00E+00	1.70E-09	2.53E-04	0.00E+00	6.33E-10	0.00E+00	0.00E+00	3.10E-08	0.00E+00	0.00E+00	2.53E-04
441	ALL	635025	4176000	NonCancer	0.00E+00	2.25E-09	0.00E+00	0.00E+00	0.00E+00	1.64E-09	2.45E-04	0.00E+00	6.12E-10	0.00E+00	0.00E+00	2.99E-08	0.00E+00	0.00E+00	2.45E-04
442	ALL	635075	4176000	NonCancer	0.00E+00	2.17E-09	0.00E+00	0.00E+00	0.00E+00	1.58E-09	2.37E-04	0.00E+00	5.90E-10	0.00E+00	0.00E+00	2.89E-08	0.00E+00	0.00E+00	2.37E-04
443	ALL	635125	4176000	NonCancer	0.00E+00	2.10E-09	0.00E+00	0.00E+00	0.00E+00	1.53E-09	2.29E-04	0.00E+00	5.71E-10	0.00E+00	0.00E+00	2.79E-08	0.00E+00	0.00E+00	2.29E-04
444	ALL	635175	4176000	NonCancer	0.00E+00	2.03E-09	0.00E+00	0.00E+00	0.00E+00	1.48E-09	2.22E-04	0.00E+00	5.52E-10	0.00E+00	0.00E+00	2.70E-08	0.00E+00	0.00E+00	2.22E-04
445	ALL	635225	4176000	NonCancer	0.00E+00	1.97E-09	0.00E+00	0.00E+00	0.00E+00	1.43E-09	2.15E-04	0.00E+00	5.35E-10	0.00E+00	0.00E+00	2.61E-08	0.00E+00	0.00E+00	2.15E-04
446	ALL	635275	4176000	NonCancer	0.00E+00	1.91E-09	0.00E+00	0.00E+00	0.00E+00	1.39E-09	2.09E-04	0.00E+00	5.18E-10	0.00E+00	0.00E+00	2.53E-08	0.00E+00	0.00E+00	2.09E-04
447	ALL	635325	4176000	NonCancer	0.00E+00	1.85E-09	0.00E+00	0.00E+00	0.00E+00	1.34E-09	2.02E-04	0.00E+00	5.02E-10	0.00E+00	0.00E+00	2.45E-08	0.00E+00	0.00E+00	2.02E-04
448	ALL	635375	4176000	NonCancer	0.00E+00	1.79E-09	0.00E+00	0.00E+00	0.00E+00	1.30E-09	1.95E-04	0.00E+00	4.87E-10	0.00E+00	0.00E+00	2.38E-08	0.00E+00	0.00E+00	1.95E-04
449	ALL	635425	4176000	NonCancer	0.00E+00	1.74E-09	0.00E+00	0.00E+00	0.00E+00	1.26E-09	1.89E-04	0.00E+00	4.72E-10	0.00E+00	0.00E+00	2.31E-08	0.00E+00	0.00E+00	1.89E-04
450	ALL	635475	4176000	NonCancer	0.00E+00	1.68E-09	0.00E+00	0.00E+00	0.00E+00	1.23E-09	1.83E-04	0.00E+00	4.58E-10	0.00E+00	0.00E+00	2.24E-08	0.00E+00	0.00E+00	1.83E-04
451	ALL	635525	4176000	NonCancer	0.00E+00	1.64E-09	0.00E+00	0.00E+00	0.00E+00	1.19E-09	1.77E-04	0.00E+00	4.45E-10	0.00E+00	0.00E+00	2.18E-08	0.00E+00	0.00E+00	1.77E-04
452	ALL	635575	4176000	NonCancer	0.00E+00	1.59E-09	0.00E+00	0.00E+00	0.00E+00	1.16E-09	1.72E-04	0.00E+00	4.32E-10	0.00E+00	0.00E+00	2.11E-08	0.00E+00	0.00E+00	1.72E-04
453	ALL	634825	4176050	NonCancer	0.00E+00	2.48E-09	0.00E+00	0.00E+00	0.00E+00	1.80E-09	2.81E-04	0.00E+00	6.74E-10	0.00E+00	0.00E+00	3.29E-08	0.00E+00	0.00E+00	2.81E-04
454	ALL	634875	4176050	NonCancer	0.00E+00	2.39E-09	0.00E+00	0.00E+00	0.00E+00	1.74E-09	2.70E-04	0.00E+00	6.50E-10	0.00E+00	0.00E+00	3.18E-08	0.00E+00	0.00E+00	2.70E-04
455	ALL	634925	4176050	NonCancer	0.00E+00	2.31E-09	0.00E+00	0.00E+00	0.00E+00	1.68E-09	2.59E-04	0.00E+00	6.28E-10	0.00E+00	0.00E+00	3.07E-08	0.00E+00	0.00E+00	2.59E-04
456	ALL	634975	4176050	NonCancer	0.00E+00	2.23E-09	0.00E+00	0.00E+00	0.00E+00	1.62E-09	2.49E-04	0.00E+00	6.07E-10	0.00E+00	0.00E+00	2.97E-08	0.00E+00	0.00E+00	2.49E-04
457	ALL	635025	4176050	NonCancer	0.00E+00	2.16E-09	0.00E+00	0.00E+00	0.00E+00	1.57E-09	2.38E-04	0.00E+00	5.86E-10	0.00E+00	0.00E+00	2.87E-08	0.00E+00	0.00E+00	2.38E-04
458	ALL	635075	4176050	NonCancer	0.00E+00	2.09E-09	0.00E+00	0.00E+00	0.00E+00	1.52E-09	2.30E-04	0.00E+00	5.67E-10	0.00E+00	0.00E+00	2.77E-08	0.00E+00	0.00E+00	2.30E-04
459	ALL	635125	4176050	NonCancer	0.00E+00	2.02E-09	0.00E+00	0.00E+00	0.00E+00	1.47E-09	2.24E-04	0.00E+00	5.49E-10	0.00E+00	0.00E+00	2.68E-08	0.00E+00	0.00E+00	2.24E-04
460	ALL	635175	4176050	NonCancer	0.00E+00	1.96E-09	0.00E+00	0.00E+00	0.00E+00	1.42E-09	2.17E-04	0.00E+00	5.32E-10	0.00E+00	0.00E+00	2.60E-08	0.00E+00	0.00E+00	2.17E-04
461	ALL	635225	4176050	NonCancer	0.00E+00	1.90E-09	0.00E+00	0.00E+00	0.00E+00	1.38E-09	2.11E-04	0.00E+00	5.15E-10	0.00E+00	0.00E+00	2.52E-08	0.00E+00	0.00E+00	2.11E-04
462	ALL	635275	4176050	NonCancer	0.00E+00	1.84E-09	0.00E+00	0.00E+00	0.00E+00	1.34E-09	2.04E-04	0.00E+00	5.00E-10	0.00E+00	0.00E+00	2.44E-08	0.00E+00	0.00E+00	2.04E-04
463	ALL	635325	4176050	NonCancer	0.00E+00	1.78E-09	0.00E+00	0.00E+00	0.00E+00	1.30E-09	1.98E-04	0.00E+00	4.85E-10	0.00E+00	0.00E+00	2.37E-08	0.00E+00	0.00E+00	1.98E-04
464	ALL	635375	4176050	NonCancer	0.00E+00	1.73E-09	0.00E+00	0.00E+00	0.00E+00	1.26E-09	1.92E-04	0.00E+00	4.70E-10	0.00E+00	0.00E+00	2.30E-08	0.00E+00	0.00E+00	1.92E-04
465	ALL	635425	4176050	NonCancer	0.00E+00	1.68E-09	0.00E+00	0.00E+00	0.00E+00	1.22E-09	1.87E-04	0.00E+00	4.57E-10	0.00E+00	0.00E+00	2.23E-08	0.00E+00	0.00E+00	1.87E-04
466	ALL	635475	4176050	NonCancer	0.00E+00	1.63E-09	0.00E+00	0.00E+00	0.00E+00	1.19E-09	1.82E-04	0.00E+00	4.44E-10	0.00E+00	0.00E+00	2.17E-08	0.00E+00	0.00E+00	1.82E-04
467	ALL	635525	4176050	NonCancer	0.00E+00	1.59E-09	0.00E+00	0.00E+00	0.00E+00	1.15E-09	1.77E-04	0.00E+00	4.31E-10	0.00E+00	0.00E+00	2.11E-08	0.00E+00	0.00E+00	1.77E-04
468	ALL	635575	4176050	NonCancer	0.00E+00	1.54E-09	0.00E+00	0.00E+00	0.00E+00	1.12E-09	1.73E-04	0.00E+00	4.19E-10	0.00E+00	0.00E+00	2.05E-08	0.00E+00	0.00E+00	1.73E-04
469	ALL	634825	4176100	NonCancer	0.00E+00	2.35E-09	0.00E+00	0.00E+00	0.00E+00	1.71E-09	2.78E-04	0.00E+00	6.40E-10	0.00E+00	0.00E+00	3.13E-08	0.00E+00	0.00E+00	2.78E-04
470	ALL	634875	4176100	NonCancer	0.00E+00	2.27E-09	0.00E+00	0.00E+00	0.00E+00	1.66E-09	2.69E-04	0.00E+00	6.18E-10	0.00E+00	0.00E+00	3.02E-08	0.00E+00	0.00E+00	2.69E-04
471	ALL	634925	4176100	NonCancer	0.00E+00	2.20E-09	0.00E+00	0.00E+00	0.00E+00	1.60E-09	2.59E-04	0.00E+00	5.98E-10	0.00E+00	0.00E+00	2.92E-08	0.00E+00	0.00E+00	2.59E-04
472	ALL	634975	4176100	NonCancer	0.00E+00	2.13E-09	0.00E+00	0.00E+00	0.00E+00	1.55E-09	2.49E-04	0.00E+00	5.78E-10	0.00E+00	0.00E+00	2.83E-08	0.00E+00	0.00E+00	2.49E-04
473	ALL	635025	4176100	NonCancer	0.00E+00	2.06E-09	0.00E+00	0.00E+00	0.00E+00	1.50E-09	2.42E-04	0.00E+00	5.60E-10	0.00E+00	0.00E+00	2.74E-08	0.00E+00	0.00E+00	2.42E-04
474	ALL	635075	4176100	NonCancer	0.00E+00	2.00E-09	0.00E+00	0.00E+00	0.00E+00	1.45E-09	2.34E-04	0.00E+00	5.43E-10	0.00E+00	0.00E+00	2.65E-08	0.00E+00	0.00E+00	2.34E-04
475	ALL	635125	4176100	NonCancer	0.00E+00	1.93E-09	0.00E+00	0.00E+00	0.00E+00	1.41E-09	2.27E-04	0.00E+00	5.26E-10	0.00E+00	0.00E+00	2.57E-08	0.00E+00	0.00E+00	2.27E-04
476	ALL	635175	4176100	NonCancer	0.00E+00	1.87E-09	0.00E+00	0.00E+00	0.00E+00	1.36E-09	2.19E-04	0.00E+00	5.10E-10	0.00E+00	0.00E+00	2.49E-08	0.00E+00	0.00E+00	2.19E-04
477	ALL	635225	4176100	NonCancer	0.00E+00	1.82E-09	0.00E+00	0.00E+00	0.00E+00	1.32E-09	2.12E-04	0.00E+00	4.95E-10	0.00E+00	0.00E+00	2.42E-08	0.00E+00	0.00E+00	2.12E-04
478	ALL	635275	4176100	NonCancer	0.00E+00	1.77E-09	0.00E+00	0.00E+00	0.00E+00	1.29E-09	2.05E-04	0.00E+00	4.80E-10	0.00E+00	0.00E+00	2.35E-08	0.00E+00	0.00E+00	2.05E-04
479	ALL	635325	4176100	NonCancer	0.00E+00	1.71E-09	0.00E+00	0.00E+00	0.00E+00	1.25E-09	1.97E-04	0.00E+00	4.66E-10	0.00E+00	0.00E+00	2.28E-08	0.00E+00	0.00E+00	1.97E-04
480	ALL	635375	4176100	NonCancer	0.00E+00	1.67E-09	0.00E+00	0.00E+00	0.00E+00	1.21E-09	1.91E-04	0.00E+00	4.53E-10	0.00E+00	0.00E+00	2.21E-08	0.00E+00	0.00E+00	1.91E-04
481	ALL	635425	4176100	NonCancer	0.00E+00	1.62E-09	0.00E+00	0.00E+00	0.00E+00	1.18E-09	1.83E-04	0.00E+00	4.40E-10	0.00E+00	0.00E+00	2.15E-08	0.00E+00	0.00E+00	1.83E-04
482	ALL	635475	4176100	NonCancer	0.00E+00	1.57E-09	0.00E+00	0.00E+00	0.00E+00	1.15E-09	1.78E-04	0.00E+00	4.28E-10	0.00E+00	0.00E+00	2.09E-08	0.00E+00	0.00E+00	1.78E-04
483	ALL	635525	4176100	NonCancer	0.00E+00	1.53E-09	0.00E+00	0.00E+00	0.00E+00	1.11E-09	1.73E-04	0.00E+00	4.16E-10	0.00E+00	0.00E+00	2.03E-08	0.00E+00	0.00E+00	1.73E-04
484	ALL	635575	4176100	NonCancer	0.00E+00	1.49E-09	0.00E+00	0.00E+00	0.00E+00	1.08E-09	1.69E-04	0.00E+00	4.05E-10	0.00E+00	0.00E+00	1.98E-08	0.00E+00	0.00E+00	1.69E-04
485	ALL	634825	4176150	NonCancer	0.00E+00	2.22E-09	0.00E+00	0.00E+00	0.00E+00	1.62E-09	2.75E-04	0.00E+00	6.04E-10	0.00E+00	0.00E+00	2.95E-08	0.00E+00	0.00E+00	2.75E-04
486	ALL	634875	4176150	NonCancer	0.00E+00	2.15E-09	0.00E+00	0.00E+00	0.00E+00	1.57E-09	2.65E-04	0.00E+00	5.86E-10	0.00E+00	0.00E+00	2.86E-08	0.00E+00	0.00E+00	2.65E-04
487	ALL	634925	4176150	NonCancer	0.00E+00	2.08E-09	0.00E+00	0.00E+00	0.00E+00	1.52E-09	2.56E-04	0.00E+00	5.67E-10	0.00E+00	0.00E+00	2.77E-08	0.00E+00	0.00E+00	2.56E-04
488	ALL	634975	4176150	NonCancer	0.00E+00	2.02E-09	0.00E+00	0.00E+00	0.00E+00	1.47E-09	2.48E-04	0.00E+00	5.49E-10	0.00E+00	0.00E+00	2.69E-08	0.00E+00	0.00E+00	2.48E-04
489	ALL	635025	4176150	NonCancer	0.00E+00	1.96E-09	0.00E+00	0.00E+00	0.00E+00	1.43E-09	2.40E-04	0.00E+00	5.33E-10	0.00E+00	0.00E+00	2.61E-08	0.00E+00	0.00E+00	2.40E-04
490	ALL	635075	4176150	NonCancer	0.00E+00	1.90E-09	0.00E+00	0.00E+00	0.00E+00	1.38E-09	2.31E-04	0.00E+00	5.17E-10	0.00E+00	0.00E+00	2.53E-08	0.00E+00	0.00E+00	2.31E-04
491	ALL	635125	4176150	NonCancer	0.00E+00	1.85E-09	0.00E+00	0.00E+00	0.00E+00	1.34E-09	2.24E-04	0.00E+00	5.02E-10	0.00E+00	0.00E+00	2.45E-08	0.00E+00	0.00E+00	2.24E-04
492	ALL	635175	4176150	NonCancer	0.00E+00	1.79E-09	0.00E+00	0.00E+00	0.00E+00	1.30E-09	2.17E-04	0.00E+00	4.87E-10	0.00E+00	0.00E+00	2.38E-08	0.00E+00	0.00E+00	2.17E-04
493	ALL	635225	4176150	NonCancer	0.00E+00	1.74E-09	0.00E+00	0.00E+00	0.00E+00	1.27E-09	2.10E-04	0.00E+00	4.73E-10	0.00E+00	0.00E+00	2.31E-08	0.00E+00	0.00E+00	2.10E-04

494	ALL	635275	4176150	NonCancer	0.00E+00	1.69E-09	0.00E+00	0.00E+00	0.00E+00	1.23E-09	2.04E-04	0.00E+00	4.60E-10	0.00E+00	0.00E+00	2.25E-08	0.00E+00	0.00E+00	2.04E-04
495	ALL	635325	4176150	NonCancer	0.00E+00	1.64E-09	0.00E+00	0.00E+00	0.00E+00	1.20E-09	1.97E-04	0.00E+00	4.47E-10	0.00E+00	0.00E+00	2.18E-08	0.00E+00	0.00E+00	1.97E-04
496	ALL	635375	4176150	NonCancer	0.00E+00	1.60E-09	0.00E+00	0.00E+00	0.00E+00	1.16E-09	1.92E-04	0.00E+00	4.35E-10	0.00E+00	0.00E+00	2.12E-08	0.00E+00	0.00E+00	1.92E-04
497	ALL	635425	4176150	NonCancer	0.00E+00	1.55E-09	0.00E+00	0.00E+00	0.00E+00	1.13E-09	1.87E-04	0.00E+00	4.22E-10	0.00E+00	0.00E+00	2.07E-08	0.00E+00	0.00E+00	1.87E-04
498	ALL	635475	4176150	NonCancer	0.00E+00	1.51E-09	0.00E+00	0.00E+00	0.00E+00	1.10E-09	1.82E-04	0.00E+00	4.11E-10	0.00E+00	0.00E+00	2.01E-08	0.00E+00	0.00E+00	1.82E-04
499	ALL	635525	4176150	NonCancer	0.00E+00	1.47E-09	0.00E+00	0.00E+00	0.00E+00	1.07E-09	1.76E-04	0.00E+00	4.01E-10	0.00E+00	0.00E+00	1.96E-08	0.00E+00	0.00E+00	1.76E-04
500	ALL	635575	4176150	NonCancer	0.00E+00	1.44E-09	0.00E+00	0.00E+00	0.00E+00	1.04E-09	1.71E-04	0.00E+00	3.90E-10	0.00E+00	0.00E+00	1.91E-08	0.00E+00	0.00E+00	1.71E-04
501	ALL	634875	4176200	NonCancer	0.00E+00	2.03E-09	0.00E+00	0.00E+00	0.00E+00	1.48E-09	2.64E-04	0.00E+00	5.53E-10	0.00E+00	0.00E+00	2.70E-08	0.00E+00	0.00E+00	2.64E-04
502	ALL	634925	4176200	NonCancer	0.00E+00	1.97E-09	0.00E+00	0.00E+00	0.00E+00	1.43E-09	2.54E-04	0.00E+00	5.36E-10	0.00E+00	0.00E+00	2.62E-08	0.00E+00	0.00E+00	2.54E-04
503	ALL	634975	4176200	NonCancer	0.00E+00	1.91E-09	0.00E+00	0.00E+00	0.00E+00	1.39E-09	2.44E-04	0.00E+00	5.20E-10	0.00E+00	0.00E+00	2.54E-08	0.00E+00	0.00E+00	2.44E-04
504	ALL	635125	4176200	NonCancer	0.00E+00	1.75E-09	0.00E+00	0.00E+00	0.00E+00	1.28E-09	2.22E-04	0.00E+00	4.77E-10	0.00E+00	0.00E+00	2.33E-08	0.00E+00	0.00E+00	2.22E-04
505	ALL	635175	4176200	NonCancer	0.00E+00	1.71E-09	0.00E+00	0.00E+00	0.00E+00	1.24E-09	2.15E-04	0.00E+00	4.64E-10	0.00E+00	0.00E+00	2.27E-08	0.00E+00	0.00E+00	2.15E-04
506	ALL	635225	4176200	NonCancer	0.00E+00	1.66E-09	0.00E+00	0.00E+00	0.00E+00	1.21E-09	2.09E-04	0.00E+00	4.51E-10	0.00E+00	0.00E+00	2.21E-08	0.00E+00	0.00E+00	2.09E-04
507	ALL	635525	4176200	NonCancer	0.00E+00	1.41E-09	0.00E+00	0.00E+00	0.00E+00	1.03E-09	1.75E-04	0.00E+00	3.85E-10	0.00E+00	0.00E+00	1.88E-08	0.00E+00	0.00E+00	1.75E-04
508	ALL	635575	4176200	NonCancer	0.00E+00	1.38E-09	0.00E+00	0.00E+00	0.00E+00	1.00E-09	1.70E-04	0.00E+00	3.75E-10	0.00E+00	0.00E+00	1.83E-08	0.00E+00	0.00E+00	1.70E-04
509	ALL	634325	4176250	NonCancer	0.00E+00	2.67E-09	0.00E+00	0.00E+00	0.00E+00	1.94E-09	4.01E-04	0.00E+00	7.25E-10	0.00E+00	0.00E+00	3.55E-08	0.00E+00	0.00E+00	4.01E-04
510	ALL	634375	4176250	NonCancer	0.00E+00	2.58E-09	0.00E+00	0.00E+00	0.00E+00	1.88E-09	3.82E-04	0.00E+00	7.01E-10	0.00E+00	0.00E+00	3.43E-08	0.00E+00	0.00E+00	3.82E-04
511	ALL	634875	4176250	NonCancer	0.00E+00	1.91E-09	0.00E+00	0.00E+00	0.00E+00	1.39E-09	2.59E-04	0.00E+00	5.19E-10	0.00E+00	0.00E+00	2.54E-08	0.00E+00	0.00E+00	2.59E-04
512	ALL	634925	4176250	NonCancer	0.00E+00	1.86E-09	0.00E+00	0.00E+00	0.00E+00	1.35E-09	2.48E-04	0.00E+00	5.05E-10	0.00E+00	0.00E+00	2.47E-08	0.00E+00	0.00E+00	2.48E-04
513	ALL	634975	4176250	NonCancer	0.00E+00	1.81E-09	0.00E+00	0.00E+00	0.00E+00	1.32E-09	2.39E-04	0.00E+00	4.91E-10	0.00E+00	0.00E+00	2.40E-08	0.00E+00	0.00E+00	2.39E-04
514	ALL	635025	4176250	NonCancer	0.00E+00	1.76E-09	0.00E+00	0.00E+00	0.00E+00	1.28E-09	2.34E-04	0.00E+00	4.78E-10	0.00E+00	0.00E+00	2.34E-08	0.00E+00	0.00E+00	2.34E-04
515	ALL	635075	4176250	NonCancer	0.00E+00	1.71E-09	0.00E+00	0.00E+00	0.00E+00	1.25E-09	2.27E-04	0.00E+00	4.65E-10	0.00E+00	0.00E+00	2.27E-08	0.00E+00	0.00E+00	2.27E-04
516	ALL	635125	4176250	NonCancer	0.00E+00	1.67E-09	0.00E+00	0.00E+00	0.00E+00	1.21E-09	2.20E-04	0.00E+00	4.53E-10	0.00E+00	0.00E+00	2.21E-08	0.00E+00	0.00E+00	2.20E-04
517	ALL	635175	4176250	NonCancer	0.00E+00	1.62E-09	0.00E+00	0.00E+00	0.00E+00	1.18E-09	2.13E-04	0.00E+00	4.41E-10	0.00E+00	0.00E+00	2.16E-08	0.00E+00	0.00E+00	2.13E-04
518	ALL	635225	4176250	NonCancer	0.00E+00	1.58E-09	0.00E+00	0.00E+00	0.00E+00	1.15E-09	2.06E-04	0.00E+00	4.30E-10	0.00E+00	0.00E+00	2.10E-08	0.00E+00	0.00E+00	2.06E-04
519	ALL	635275	4176250	NonCancer	0.00E+00	1.54E-09	0.00E+00	0.00E+00	0.00E+00	1.12E-09	2.01E-04	0.00E+00	4.18E-10	0.00E+00	0.00E+00	2.05E-08	0.00E+00	0.00E+00	2.01E-04
520	ALL	635375	4176250	NonCancer	0.00E+00	1.46E-09	0.00E+00	0.00E+00	0.00E+00	1.06E-09	1.89E-04	0.00E+00	3.97E-10	0.00E+00	0.00E+00	1.94E-08	0.00E+00	0.00E+00	1.89E-04
521	ALL	635425	4176250	NonCancer	0.00E+00	1.42E-09	0.00E+00	0.00E+00	0.00E+00	1.04E-09	1.83E-04	0.00E+00	3.87E-10	0.00E+00	0.00E+00	1.89E-08	0.00E+00	0.00E+00	1.83E-04
522	ALL	635525	4176250	NonCancer	0.00E+00	1.36E-09	0.00E+00	0.00E+00	0.00E+00	9.87E-10	1.74E-04	0.00E+00	3.69E-10	0.00E+00	0.00E+00	1.80E-08	0.00E+00	0.00E+00	1.74E-04
523	ALL	635575	4176250	NonCancer	0.00E+00	1.32E-09	0.00E+00	0.00E+00	0.00E+00	9.63E-10	1.69E-04	0.00E+00	3.60E-10	0.00E+00	0.00E+00	1.76E-08	0.00E+00	0.00E+00	1.69E-04
524	ALL	634875	4176300	NonCancer	0.00E+00	1.79E-09	0.00E+00	0.00E+00	0.00E+00	1.30E-09	2.56E-04	0.00E+00	4.87E-10	0.00E+00	0.00E+00	2.38E-08	0.00E+00	0.00E+00	2.56E-04
525	ALL	634925	4176300	NonCancer	0.00E+00	1.75E-09	0.00E+00	0.00E+00	0.00E+00	1.27E-09	2.47E-04	0.00E+00	4.75E-10	0.00E+00	0.00E+00	2.32E-08	0.00E+00	0.00E+00	2.47E-04
526	ALL	634975	4176300	NonCancer	0.00E+00	1.70E-09	0.00E+00	0.00E+00	0.00E+00	1.24E-09	2.39E-04	0.00E+00	4.63E-10	0.00E+00	0.00E+00	2.26E-08	0.00E+00	0.00E+00	2.39E-04
527	ALL	635025	4176300	NonCancer	0.00E+00	1.66E-09	0.00E+00	0.00E+00	0.00E+00	1.21E-09	2.32E-04	0.00E+00	4.51E-10	0.00E+00	0.00E+00	2.20E-08	0.00E+00	0.00E+00	2.32E-04
528	ALL	635075	4176300	NonCancer	0.00E+00	1.62E-09	0.00E+00	0.00E+00	0.00E+00	1.18E-09	2.24E-04	0.00E+00	4.40E-10	0.00E+00	0.00E+00	2.15E-08	0.00E+00	0.00E+00	2.24E-04
529	ALL	635125	4176300	NonCancer	0.00E+00	1.58E-09	0.00E+00	0.00E+00	0.00E+00	1.15E-09	2.16E-04	0.00E+00	4.29E-10	0.00E+00	0.00E+00	2.10E-08	0.00E+00	0.00E+00	2.16E-04
530	ALL	635175	4176300	NonCancer	0.00E+00	1.54E-09	0.00E+00	0.00E+00	0.00E+00	1.12E-09	2.07E-04	0.00E+00	4.18E-10	0.00E+00	0.00E+00	2.04E-08	0.00E+00	0.00E+00	2.07E-04
531	ALL	635225	4176300	NonCancer	0.00E+00	1.50E-09	0.00E+00	0.00E+00	0.00E+00	1.09E-09	2.03E-04	0.00E+00	4.08E-10	0.00E+00	0.00E+00	1.99E-08	0.00E+00	0.00E+00	2.03E-04
532	ALL	635275	4176300	NonCancer	0.00E+00	1.46E-09	0.00E+00	0.00E+00	0.00E+00	1.07E-09	1.99E-04	0.00E+00	3.98E-10	0.00E+00	0.00E+00	1.95E-08	0.00E+00	0.00E+00	1.99E-04
533	ALL	635375	4176300	NonCancer	0.00E+00	1.39E-09	0.00E+00	0.00E+00	0.00E+00	1.01E-09	1.87E-04	0.00E+00	3.79E-10	0.00E+00	0.00E+00	1.85E-08	0.00E+00	0.00E+00	1.87E-04
534	ALL	635425	4176300	NonCancer	0.00E+00	1.36E-09	0.00E+00	0.00E+00	0.00E+00	9.90E-10	1.82E-04	0.00E+00	3.70E-10	0.00E+00	0.00E+00	1.81E-08	0.00E+00	0.00E+00	1.82E-04
535	ALL	635525	4176300	NonCancer	0.00E+00	1.30E-09	0.00E+00	0.00E+00	0.00E+00	9.44E-10	1.72E-04	0.00E+00	3.53E-10	0.00E+00	0.00E+00	1.72E-08	0.00E+00	0.00E+00	1.72E-04
536	ALL	635575	4176300	NonCancer	0.00E+00	1.27E-09	0.00E+00	0.00E+00	0.00E+00	9.22E-10	1.67E-04	0.00E+00	3.44E-10	0.00E+00	0.00E+00	1.68E-08	0.00E+00	0.00E+00	1.67E-04
537	ALL	634875	4176350	NonCancer	0.00E+00	1.68E-09	0.00E+00	0.00E+00	0.00E+00	1.22E-09	2.51E-04	0.00E+00	4.57E-10	0.00E+00	0.00E+00	2.23E-08	0.00E+00	0.00E+00	2.51E-04
538	ALL	634925	4176350	NonCancer	0.00E+00	1.64E-09	0.00E+00	0.00E+00	0.00E+00	1.19E-09	2.44E-04	0.00E+00	4.46E-10	0.00E+00	0.00E+00	2.18E-08	0.00E+00	0.00E+00	2.44E-04
539	ALL	634975	4176350	NonCancer	0.00E+00	1.60E-09	0.00E+00	0.00E+00	0.00E+00	1.16E-09	2.36E-04	0.00E+00	4.35E-10	0.00E+00	0.00E+00	2.13E-08	0.00E+00	0.00E+00	2.36E-04
540	ALL	635025	4176350	NonCancer	0.00E+00	1.56E-09	0.00E+00	0.00E+00	0.00E+00	1.14E-09	2.29E-04	0.00E+00	4.24E-10	0.00E+00	0.00E+00	2.08E-08	0.00E+00	0.00E+00	2.29E-04
541	ALL	635075	4176350	NonCancer	0.00E+00	1.52E-09	0.00E+00	0.00E+00	0.00E+00	1.11E-09	2.22E-04	0.00E+00	4.14E-10	0.00E+00	0.00E+00	2.03E-08	0.00E+00	0.00E+00	2.22E-04
542	ALL	635125	4176350	NonCancer	0.00E+00	1.49E-09	0.00E+00	0.00E+00	0.00E+00	1.08E-09	2.15E-04	0.00E+00	4.05E-10	0.00E+00	0.00E+00	1.98E-08	0.00E+00	0.00E+00	2.15E-04
543	ALL	635175	4176350	NonCancer	0.00E+00	1.45E-09	0.00E+00	0.00E+00	0.00E+00	1.06E-09	2.08E-04	0.00E+00	3.95E-10	0.00E+00	0.00E+00	1.93E-08	0.00E+00	0.00E+00	2.08E-04
544	ALL	635225	4176350	NonCancer	0.00E+00	1.42E-09	0.00E+00	0.00E+00	0.00E+00	1.03E-09	2.03E-04	0.00E+00	3.86E-10	0.00E+00	0.00E+00	1.89E-08	0.00E+00	0.00E+00	2.03E-04
545	ALL	635275	4176350	NonCancer	0.00E+00	1.39E-09	0.00E+00	0.00E+00	0.00E+00	1.01E-09	1.96E-04	0.00E+00	3.78E-10	0.00E+00	0.00E+00	1.85E-08	0.00E+00	0.00E+00	1.96E-04
546	ALL	635375	4176350	NonCancer	0.00E+00	1.32E-09	0.00E+00	0.00E+00	0.00E+00	9.65E-10	1.82E-04	0.00E+00	3.60E-10	0.00E+00	0.00E+00	1.76E-08	0.00E+00	0.00E+00	1.82E-04
547	ALL	635425	4176350	NonCancer	0.00E+00	1.30E-09	0.00E+00	0.00E+00	0.00E+00	9.43E-10	1.78E-04	0.00E+00	3.52E-10	0.00E+00	0.00E+00	1.72E-08	0.00E+00	0.00E+00	1.78E-04
548	ALL	635525	4176350	NonCancer	0.00E+00	1.24E-09	0.00E+00	0.00E+00	0.00E+00	9.02E-10	1.70E-04	0.00E+00	3.37E-10	0.00E+00	0.00E+00	1.65E-08	0.00E+00	0.00E+00	1.70E-04

549	ALL	635575	4176350	NonCancer	0.00E+00	1.21E-09	0.00E+00	0.00E+00	0.00E+00	8.81E-10	1.66E-04	0.00E+00	3.29E-10	0.00E+00	0.00E+00	1.61E-08	0.00E+00	0.00E+00	1.66E-04
550	ALL	634875	4176400	NonCancer	0.00E+00	1.58E-09	0.00E+00	0.00E+00	0.00E+00	1.15E-09	2.45E-04	0.00E+00	4.28E-10	0.00E+00	0.00E+00	2.09E-08	0.00E+00	0.00E+00	2.45E-04
551	ALL	634925	4176400	NonCancer	0.00E+00	1.54E-09	0.00E+00	0.00E+00	0.00E+00	1.12E-09	2.39E-04	0.00E+00	4.18E-10	0.00E+00	0.00E+00	2.05E-08	0.00E+00	0.00E+00	2.39E-04
552	ALL	634975	4176400	NonCancer	0.00E+00	1.50E-09	0.00E+00	0.00E+00	0.00E+00	1.09E-09	2.33E-04	0.00E+00	4.09E-10	0.00E+00	0.00E+00	2.00E-08	0.00E+00	0.00E+00	2.33E-04
553	ALL	635025	4176400	NonCancer	0.00E+00	1.47E-09	0.00E+00	0.00E+00	0.00E+00	1.07E-09	2.25E-04	0.00E+00	3.99E-10	0.00E+00	0.00E+00	1.95E-08	0.00E+00	0.00E+00	2.25E-04
554	ALL	635075	4176400	NonCancer	0.00E+00	1.44E-09	0.00E+00	0.00E+00	0.00E+00	1.05E-09	2.19E-04	0.00E+00	3.90E-10	0.00E+00	0.00E+00	1.91E-08	0.00E+00	0.00E+00	2.19E-04
555	ALL	635125	4176400	NonCancer	0.00E+00	1.40E-09	0.00E+00	0.00E+00	0.00E+00	1.02E-09	2.12E-04	0.00E+00	3.82E-10	0.00E+00	0.00E+00	1.87E-08	0.00E+00	0.00E+00	2.12E-04
556	ALL	635175	4176400	NonCancer	0.00E+00	1.37E-09	0.00E+00	0.00E+00	0.00E+00	1.00E-09	2.05E-04	0.00E+00	3.74E-10	0.00E+00	0.00E+00	1.83E-08	0.00E+00	0.00E+00	2.05E-04
557	ALL	635225	4176400	NonCancer	0.00E+00	1.34E-09	0.00E+00	0.00E+00	0.00E+00	9.79E-10	2.00E-04	0.00E+00	3.66E-10	0.00E+00	0.00E+00	1.79E-08	0.00E+00	0.00E+00	2.00E-04
558	ALL	635275	4176400	NonCancer	0.00E+00	1.32E-09	0.00E+00	0.00E+00	0.00E+00	9.58E-10	1.95E-04	0.00E+00	3.58E-10	0.00E+00	0.00E+00	1.75E-08	0.00E+00	0.00E+00	1.95E-04
559	ALL	635425	4176400	NonCancer	0.00E+00	1.23E-09	0.00E+00	0.00E+00	0.00E+00	8.97E-10	1.79E-04	0.00E+00	3.35E-10	0.00E+00	0.00E+00	1.64E-08	0.00E+00	0.00E+00	1.79E-04
560	ALL	635525	4176400	NonCancer	0.00E+00	1.18E-09	0.00E+00	0.00E+00	0.00E+00	8.59E-10	1.68E-04	0.00E+00	3.21E-10	0.00E+00	0.00E+00	1.57E-08	0.00E+00	0.00E+00	1.68E-04
561	ALL	635575	4176400	NonCancer	0.00E+00	1.16E-09	0.00E+00	0.00E+00	0.00E+00	8.42E-10	1.62E-04	0.00E+00	3.14E-10	0.00E+00	0.00E+00	1.54E-08	0.00E+00	0.00E+00	1.62E-04
562	ALL	633650	4176200	NonCancer	0.00E+00	4.98E-09	0.00E+00	0.00E+00	0.00E+00	3.62E-09	9.73E-04	0.00E+00	1.35E-09	0.00E+00	0.00E+00	6.62E-08	0.00E+00	0.00E+00	9.73E-04
563	ALL	633700	4176200	NonCancer	0.00E+00	4.77E-09	0.00E+00	0.00E+00	0.00E+00	3.47E-09	8.75E-04	0.00E+00	1.30E-09	0.00E+00	0.00E+00	6.34E-08	0.00E+00	0.00E+00	8.75E-04
564	ALL	633850	4176200	NonCancer	0.00E+00	4.21E-09	0.00E+00	0.00E+00	0.00E+00	3.06E-09	6.76E-04	0.00E+00	1.14E-09	0.00E+00	0.00E+00	5.60E-08	0.00E+00	0.00E+00	6.76E-04
565	ALL	633850	4176250	NonCancer	0.00E+00	3.78E-09	0.00E+00	0.00E+00	0.00E+00	2.75E-09	6.79E-04	0.00E+00	1.03E-09	0.00E+00	0.00E+00	5.02E-08	0.00E+00	0.00E+00	6.79E-04
566	ALL	633950	4176250	NonCancer	0.00E+00	3.50E-09	0.00E+00	0.00E+00	0.00E+00	2.55E-09	5.79E-04	0.00E+00	9.53E-10	0.00E+00	0.00E+00	4.66E-08	0.00E+00	0.00E+00	5.79E-04
567	ALL	634350	4176250	NonCancer	0.00E+00	2.62E-09	0.00E+00	0.00E+00	0.00E+00	1.91E-09	3.93E-04	0.00E+00	7.14E-10	0.00E+00	0.00E+00	3.49E-08	0.00E+00	0.00E+00	3.93E-04
568	ALL	633750	4176300	NonCancer	0.00E+00	3.64E-09	0.00E+00	0.00E+00	0.00E+00	2.65E-09	7.81E-04	0.00E+00	9.89E-10	0.00E+00	0.00E+00	4.84E-08	0.00E+00	0.00E+00	7.81E-04
569	ALL	633950	4176300	NonCancer	0.00E+00	3.18E-09	0.00E+00	0.00E+00	0.00E+00	2.31E-09	5.74E-04	0.00E+00	8.64E-10	0.00E+00	0.00E+00	4.22E-08	0.00E+00	0.00E+00	5.74E-04
570	ALL	634000	4176300	NonCancer	0.00E+00	3.07E-09	0.00E+00	0.00E+00	0.00E+00	2.24E-09	5.29E-04	0.00E+00	8.35E-10	0.00E+00	0.00E+00	4.08E-08	0.00E+00	0.00E+00	5.29E-04
571	ALL	634050	4176300	NonCancer	0.00E+00	2.96E-09	0.00E+00	0.00E+00	0.00E+00	2.16E-09	5.01E-04	0.00E+00	8.05E-10	0.00E+00	0.00E+00	3.94E-08	0.00E+00	0.00E+00	5.01E-04
572	ALL	634050	4176350	NonCancer	0.00E+00	2.71E-09	0.00E+00	0.00E+00	0.00E+00	1.97E-09	4.91E-04	0.00E+00	7.37E-10	0.00E+00	0.00E+00	3.60E-08	0.00E+00	0.00E+00	4.91E-04
573	ALL	634050	4176400	NonCancer	0.00E+00	2.49E-09	0.00E+00	0.00E+00	0.00E+00	1.81E-09	5.05E-04	0.00E+00	6.76E-10	0.00E+00	0.00E+00	3.30E-08	0.00E+00	0.00E+00	5.05E-04
574	ALL	634000	4176450	NonCancer	0.00E+00	2.35E-09	0.00E+00	0.00E+00	0.00E+00	1.71E-09	5.19E-04	0.00E+00	6.40E-10	0.00E+00	0.00E+00	3.13E-08	0.00E+00	0.00E+00	5.19E-04
575	ALL	634050	4176450	NonCancer	0.00E+00	2.29E-09	0.00E+00	0.00E+00	0.00E+00	1.67E-09	4.85E-04	0.00E+00	6.22E-10	0.00E+00	0.00E+00	3.04E-08	0.00E+00	0.00E+00	4.85E-04
576	ALL	634200	4176600	NonCancer	0.00E+00	1.71E-09	0.00E+00	0.00E+00	0.00E+00	1.24E-09	4.01E-04	0.00E+00	4.65E-10	0.00E+00	0.00E+00	2.27E-08	0.00E+00	0.00E+00	4.01E-04
577	ALL	634100	4176650	NonCancer	0.00E+00	1.71E-09	0.00E+00	0.00E+00	0.00E+00	1.25E-09	3.97E-04	0.00E+00	4.65E-10	0.00E+00	0.00E+00	2.28E-08	0.00E+00	0.00E+00	3.97E-04
578	ALL	634150	4176650	NonCancer	0.00E+00	1.66E-09	0.00E+00	0.00E+00	0.00E+00	1.21E-09	3.90E-04	0.00E+00	4.52E-10	0.00E+00	0.00E+00	2.21E-08	0.00E+00	0.00E+00	3.90E-04
579	ALL	634200	4176650	NonCancer	0.00E+00	1.61E-09	0.00E+00	0.00E+00	0.00E+00	1.17E-09	3.91E-04	0.00E+00	4.38E-10	0.00E+00	0.00E+00	2.14E-08	0.00E+00	0.00E+00	3.91E-04
580	ALL	634200	4176850	NonCancer	0.00E+00	1.34E-09	0.00E+00	0.00E+00	0.00E+00	9.79E-10	3.48E-04	0.00E+00	3.65E-10	0.00E+00	0.00E+00	1.79E-08	0.00E+00	0.00E+00	3.48E-04
581	ALL	634200	4176900	NonCancer	0.00E+00	1.30E-09	0.00E+00	0.00E+00	0.00E+00	9.43E-10	3.33E-04	0.00E+00	3.52E-10	0.00E+00	0.00E+00	1.72E-08	0.00E+00	0.00E+00	3.33E-04
582	ALL	634250	4176900	NonCancer	0.00E+00	1.26E-09	0.00E+00	0.00E+00	0.00E+00	9.15E-10	3.28E-04	0.00E+00	3.42E-10	0.00E+00	0.00E+00	1.67E-08	0.00E+00	0.00E+00	3.28E-04
583	ALL	634300	4176900	NonCancer	0.00E+00	1.22E-09	0.00E+00	0.00E+00	0.00E+00	8.88E-10	3.10E-04	0.00E+00	3.32E-10	0.00E+00	0.00E+00	1.62E-08	0.00E+00	0.00E+00	3.10E-04
584	ALL	634400	4177000	NonCancer	0.00E+00	1.08E-09	0.00E+00	0.00E+00	0.00E+00	7.83E-10	2.79E-04	0.00E+00	2.92E-10	0.00E+00	0.00E+00	1.43E-08	0.00E+00	0.00E+00	2.79E-04
585	ALL	634450	4177000	NonCancer	0.00E+00	1.04E-09	0.00E+00	0.00E+00	0.00E+00	7.60E-10	2.58E-04	0.00E+00	2.84E-10	0.00E+00	0.00E+00	1.39E-08	0.00E+00	0.00E+00	2.58E-04
586	ALL	634500	4177000	NonCancer	0.00E+00	1.01E-09	0.00E+00	0.00E+00	0.00E+00	7.38E-10	2.55E-04	0.00E+00	2.76E-10	0.00E+00	0.00E+00	1.35E-08	0.00E+00	0.00E+00	2.55E-04
587	ALL	634550	4177000	NonCancer	0.00E+00	9.86E-10	0.00E+00	0.00E+00	0.00E+00	7.18E-10	2.46E-04	0.00E+00	2.68E-10	0.00E+00	0.00E+00	1.31E-08	0.00E+00	0.00E+00	2.46E-04
588	ALL	634400	4177050	NonCancer	0.00E+00	1.04E-09	0.00E+00	0.00E+00	0.00E+00	7.59E-10	2.78E-04	0.00E+00	2.84E-10	0.00E+00	0.00E+00	1.39E-08	0.00E+00	0.00E+00	2.78E-04
589	ALL	634450	4177050	NonCancer	0.00E+00	1.01E-09	0.00E+00	0.00E+00	0.00E+00	7.36E-10	2.64E-04	0.00E+00	2.75E-10	0.00E+00	0.00E+00	1.34E-08	0.00E+00	0.00E+00	2.64E-04
590	ALL	634500	4177050	NonCancer	0.00E+00	9.86E-10	0.00E+00	0.00E+00	0.00E+00	7.18E-10	2.46E-04	0.00E+00	2.68E-10	0.00E+00	0.00E+00	1.31E-08	0.00E+00	0.00E+00	2.46E-04
591	ALL	634550	4177050	NonCancer	0.00E+00	9.60E-10	0.00E+00	0.00E+00	0.00E+00	6.99E-10	2.44E-04	0.00E+00	2.61E-10	0.00E+00	0.00E+00	1.28E-08	0.00E+00	0.00E+00	2.44E-04
592	ALL	633750	4173175	NonCancer	0.00E+00	2.41E-10	0.00E+00	0.00E+00	0.00E+00	1.75E-10	2.16E-04	0.00E+00	6.55E-11	0.00E+00	0.00E+00	3.20E-09	0.00E+00	0.00E+00	2.16E-04
593	ALL	634450	4173325	NonCancer	0.00E+00	3.30E-10	0.00E+00	0.00E+00	0.00E+00	2.40E-10	2.27E-04	0.00E+00	8.98E-11	0.00E+00	0.00E+00	4.39E-09	0.00E+00	0.00E+00	2.27E-04
594	ALL	634450	4173375	NonCancer	0.00E+00	3.46E-10	0.00E+00	0.00E+00	0.00E+00	2.52E-10	2.29E-04	0.00E+00	9.41E-11	0.00E+00	0.00E+00	4.60E-09	0.00E+00	0.00E+00	2.29E-04
595	ALL	634350	4173475	NonCancer	0.00E+00	3.69E-10	0.00E+00	0.00E+00	0.00E+00	2.69E-10	2.41E-04	0.00E+00	1.00E-10	0.00E+00	0.00E+00	4.91E-09	0.00E+00	0.00E+00	2.41E-04
596	ALL	634300	4173625	NonCancer	0.00E+00	4.26E-10	0.00E+00	0.00E+00	0.00E+00	3.11E-10	2.56E-04	0.00E+00	1.16E-10	0.00E+00	0.00E+00	5.67E-09	0.00E+00	0.00E+00	2.56E-04
597	ALL	634300	4173675	NonCancer	0.00E+00	4.51E-10	0.00E+00	0.00E+00	0.00E+00	3.29E-10	2.55E-04	0.00E+00	1.23E-10	0.00E+00	0.00E+00	6.00E-09	0.00E+00	0.00E+00	2.55E-04
598	ALL	634350	4173675	NonCancer	0.00E+00	4.58E-10	0.00E+00	0.00E+00	0.00E+00	3.33E-10	2.55E-04	0.00E+00	1.25E-10	0.00E+00	0.00E+00	6.09E-09	0.00E+00	0.00E+00	2.55E-04
599	ALL	634250	4173775	NonCancer	0.00E+00	4.99E-10	0.00E+00	0.00E+00	0.00E+00	3.63E-10	2.63E-04	0.00E+00	1.36E-10	0.00E+00	0.00E+00	6.63E-09	0.00E+00	0.00E+00	2.63E-04
600	ALL	633950	4173825	NonCancer	0.00E+00	4.79E-10	0.00E+00	0.00E+00	0.00E+00	3.49E-10	2.87E-04	0.00E+00	1.30E-10	0.00E+00	0.00E+00	6.36E-09	0.00E+00	0.00E+00	2.87E-04
601	ALL	634050	4173825	NonCancer	0.00E+00	4.99E-10	0.00E+00	0.00E+00	0.00E+00	3.63E-10	2.47E-04	0.00E+00	1.36E-10	0.00E+00	0.00E+00	6.63E-09	0.00E+00	0.00E+00	2.47E-04
602	ALL	634100	4173825	NonCancer	0.00E+00	5.07E-10	0.00E+00	0.00E+00	0.00E+00	3.69E-10	2.60E-04	0.00E+00	1.38E-10	0.00E+00	0.00E+00	6.74E-09	0.00E+00	0.00E+00	2.60E-04
603	ALL	634250	4173825	NonCancer	0.00E+00	5.29E-10	0.00E+00	0.00E+00	0.00E+00	3.85E-10	2.70E-04	0.00E+00	1.44E-10	0.00E+00	0.00E+00	7.03E-09	0.00E+00	0.00E+00	2.70E-04

604	ALL	634250	4173975	NonCancer	0.00E+00	6.33E-10	0.00E+00	0.00E+00	0.00E+00	4.61E-10	2.65E-04	0.00E+00	1.72E-10	0.00E+00	0.00E+00	8.42E-09	0.00E+00	0.00E+00	2.65E-04
605	ALL	634150	4174125	NonCancer	0.00E+00	7.62E-10	0.00E+00	0.00E+00	0.00E+00	5.55E-10	2.80E-04	0.00E+00	2.07E-10	0.00E+00	0.00E+00	1.01E-08	0.00E+00	0.00E+00	2.80E-04
606	ALL	634200	4174125	NonCancer	0.00E+00	7.56E-10	0.00E+00	0.00E+00	0.00E+00	5.50E-10	2.56E-04	0.00E+00	2.05E-10	0.00E+00	0.00E+00	1.00E-08	0.00E+00	0.00E+00	2.56E-04
607	ALL	634250	4174125	NonCancer	0.00E+00	7.46E-10	0.00E+00	0.00E+00	0.00E+00	5.43E-10	2.79E-04	0.00E+00	2.03E-10	0.00E+00	0.00E+00	9.91E-09	0.00E+00	0.00E+00	2.79E-04
608	ALL	634250	4174225	NonCancer	0.00E+00	8.29E-10	0.00E+00	0.00E+00	0.00E+00	6.03E-10	2.88E-04	0.00E+00	2.25E-10	0.00E+00	0.00E+00	1.10E-08	0.00E+00	0.00E+00	2.88E-04
609	ALL	634350	4174225	NonCancer	0.00E+00	7.94E-10	0.00E+00	0.00E+00	0.00E+00	5.78E-10	2.81E-04	0.00E+00	2.16E-10	0.00E+00	0.00E+00	1.06E-08	0.00E+00	0.00E+00	2.81E-04
610	ALL	634400	4174225	NonCancer	0.00E+00	7.75E-10	0.00E+00	0.00E+00	0.00E+00	5.65E-10	2.62E-04	0.00E+00	2.11E-10	0.00E+00	0.00E+00	1.03E-08	0.00E+00	0.00E+00	2.62E-04
611	ALL	634200	4174325	NonCancer	0.00E+00	9.42E-10	0.00E+00	0.00E+00	0.00E+00	6.86E-10	2.94E-04	0.00E+00	2.56E-10	0.00E+00	0.00E+00	1.25E-08	0.00E+00	0.00E+00	2.94E-04
612	ALL	634250	4174325	NonCancer	0.00E+00	9.25E-10	0.00E+00	0.00E+00	0.00E+00	6.73E-10	2.89E-04	0.00E+00	2.51E-10	0.00E+00	0.00E+00	1.23E-08	0.00E+00	0.00E+00	2.89E-04
613	ALL	634200	4174375	NonCancer	0.00E+00	9.93E-10	0.00E+00	0.00E+00	0.00E+00	7.23E-10	3.06E-04	0.00E+00	2.70E-10	0.00E+00	0.00E+00	1.32E-08	0.00E+00	0.00E+00	3.06E-04
614	ALL	634250	4174425	NonCancer	0.00E+00	1.06E-09	0.00E+00	0.00E+00	0.00E+00	7.70E-10	2.72E-04	0.00E+00	2.88E-10	0.00E+00	0.00E+00	1.41E-08	0.00E+00	0.00E+00	2.72E-04
615	ALL	634000	4174475	NonCancer	0.00E+00	1.22E-09	0.00E+00	0.00E+00	0.00E+00	8.87E-10	3.46E-04	0.00E+00	3.31E-10	0.00E+00	0.00E+00	1.62E-08	0.00E+00	0.00E+00	3.46E-04
616	ALL	634250	4174525	NonCancer	0.00E+00	1.16E-09	0.00E+00	0.00E+00	0.00E+00	8.47E-10	2.62E-04	0.00E+00	3.16E-10	0.00E+00	0.00E+00	1.55E-08	0.00E+00	0.00E+00	2.62E-04
617	ALL	634100	4174575	NonCancer	0.00E+00	1.33E-09	0.00E+00	0.00E+00	0.00E+00	9.65E-10	3.37E-04	0.00E+00	3.61E-10	0.00E+00	0.00E+00	1.76E-08	0.00E+00	0.00E+00	3.37E-04
618	ALL	634150	4174575	NonCancer	0.00E+00	1.32E-09	0.00E+00	0.00E+00	0.00E+00	9.60E-10	2.95E-04	0.00E+00	3.59E-10	0.00E+00	0.00E+00	1.75E-08	0.00E+00	0.00E+00	2.95E-04
619	ALL	634200	4174575	NonCancer	0.00E+00	1.27E-09	0.00E+00	0.00E+00	0.00E+00	9.24E-10	2.81E-04	0.00E+00	3.45E-10	0.00E+00	0.00E+00	1.69E-08	0.00E+00	0.00E+00	2.81E-04
620	ALL	634250	4174575	NonCancer	0.00E+00	1.22E-09	0.00E+00	0.00E+00	0.00E+00	8.90E-10	2.71E-04	0.00E+00	3.32E-10	0.00E+00	0.00E+00	1.62E-08	0.00E+00	0.00E+00	2.71E-04
621	ALL	634250	4174625	NonCancer	0.00E+00	1.29E-09	0.00E+00	0.00E+00	0.00E+00	9.40E-10	2.62E-04	0.00E+00	3.51E-10	0.00E+00	0.00E+00	1.72E-08	0.00E+00	0.00E+00	2.62E-04
622	ALL	634250	4174675	NonCancer	0.00E+00	1.37E-09	0.00E+00	0.00E+00	0.00E+00	9.97E-10	2.46E-04	0.00E+00	3.72E-10	0.00E+00	0.00E+00	1.82E-08	0.00E+00	0.00E+00	2.46E-04
623	ALL	634250	4174825	NonCancer	0.00E+00	1.69E-09	0.00E+00	0.00E+00	0.00E+00	1.23E-09	2.68E-04	0.00E+00	4.59E-10	0.00E+00	0.00E+00	2.24E-08	0.00E+00	0.00E+00	2.68E-04
624	ALL	634250	4174875	NonCancer	0.00E+00	1.83E-09	0.00E+00	0.00E+00	0.00E+00	1.33E-09	2.93E-04	0.00E+00	4.98E-10	0.00E+00	0.00E+00	2.44E-08	0.00E+00	0.00E+00	2.93E-04
625	ALL	634200	4174925	NonCancer	0.00E+00	2.07E-09	0.00E+00	0.00E+00	0.00E+00	1.51E-09	3.19E-04	0.00E+00	5.63E-10	0.00E+00	0.00E+00	2.75E-08	0.00E+00	0.00E+00	3.19E-04
626	ALL	634250	4174925	NonCancer	0.00E+00	1.99E-09	0.00E+00	0.00E+00	0.00E+00	1.45E-09	3.23E-04	0.00E+00	5.42E-10	0.00E+00	0.00E+00	2.65E-08	0.00E+00	0.00E+00	3.23E-04
627	ALL	631950	4173950	NonCancer	0.00E+00	1.52E-10	0.00E+00	0.00E+00	0.00E+00	1.11E-10	1.51E-04	0.00E+00	4.14E-11	0.00E+00	0.00E+00	2.03E-09	0.00E+00	0.00E+00	1.51E-04
628	ALL	631550	4174000	NonCancer	0.00E+00	1.33E-10	0.00E+00	0.00E+00	0.00E+00	9.67E-11	1.34E-04	0.00E+00	3.61E-11	0.00E+00	0.00E+00	1.77E-09	0.00E+00	0.00E+00	1.34E-04
629	ALL	631550	4174050	NonCancer	0.00E+00	1.42E-10	0.00E+00	0.00E+00	0.00E+00	1.04E-10	1.46E-04	0.00E+00	3.87E-11	0.00E+00	0.00E+00	1.89E-09	0.00E+00	0.00E+00	1.46E-04
630	ALL	631750	4174250	NonCancer	0.00E+00	1.88E-10	0.00E+00	0.00E+00	0.00E+00	1.37E-10	1.84E-04	0.00E+00	5.12E-11	0.00E+00	0.00E+00	2.50E-09	0.00E+00	0.00E+00	1.84E-04
631	ALL	632300	4174300	NonCancer	0.00E+00	3.65E-10	0.00E+00	0.00E+00	0.00E+00	2.66E-10	2.84E-04	0.00E+00	9.94E-11	0.00E+00	0.00E+00	4.86E-09	0.00E+00	0.00E+00	2.84E-04
632	ALL	632350	4174300	NonCancer	0.00E+00	3.77E-10	0.00E+00	0.00E+00	0.00E+00	2.74E-10	2.93E-04	0.00E+00	1.02E-10	0.00E+00	0.00E+00	5.01E-09	0.00E+00	0.00E+00	2.93E-04
633	ALL	632300	4174350	NonCancer	0.00E+00	3.92E-10	0.00E+00	0.00E+00	0.00E+00	2.85E-10	3.06E-04	0.00E+00	1.07E-10	0.00E+00	0.00E+00	5.21E-09	0.00E+00	0.00E+00	3.06E-04
634	ALL	632350	4174350	NonCancer	0.00E+00	4.05E-10	0.00E+00	0.00E+00	0.00E+00	2.95E-10	2.97E-04	0.00E+00	1.10E-10	0.00E+00	0.00E+00	5.39E-09	0.00E+00	0.00E+00	2.97E-04
635	ALL	631600	4174400	NonCancer	0.00E+00	2.12E-10	0.00E+00	0.00E+00	0.00E+00	1.54E-10	2.21E-04	0.00E+00	5.76E-11	0.00E+00	0.00E+00	2.82E-09	0.00E+00	0.00E+00	2.21E-04
636	ALL	631650	4174400	NonCancer	0.00E+00	2.36E-10	0.00E+00	0.00E+00	0.00E+00	1.72E-10	2.36E-04	0.00E+00	6.41E-11	0.00E+00	0.00E+00	3.13E-09	0.00E+00	0.00E+00	2.36E-04
637	ALL	632000	4174400	NonCancer	0.00E+00	3.39E-10	0.00E+00	0.00E+00	0.00E+00	2.47E-10	2.98E-04	0.00E+00	9.22E-11	0.00E+00	0.00E+00	4.51E-09	0.00E+00	0.00E+00	2.98E-04
638	ALL	632000	4174450	NonCancer	0.00E+00	3.47E-10	0.00E+00	0.00E+00	0.00E+00	2.53E-10	2.86E-04	0.00E+00	9.44E-11	0.00E+00	0.00E+00	4.62E-09	0.00E+00	0.00E+00	2.86E-04
639	ALL	631950	4174500	NonCancer	0.00E+00	3.41E-10	0.00E+00	0.00E+00	0.00E+00	2.48E-10	3.51E-04	0.00E+00	9.27E-11	0.00E+00	0.00E+00	4.53E-09	0.00E+00	0.00E+00	3.51E-04
640	ALL	632150	4174950	NonCancer	0.00E+00	8.02E-10	0.00E+00	0.00E+00	0.00E+00	5.84E-10	5.06E-04	0.00E+00	2.18E-10	0.00E+00	0.00E+00	1.07E-08	0.00E+00	0.00E+00	5.06E-04
641	ALL	632200	4174950	NonCancer	0.00E+00	8.61E-10	0.00E+00	0.00E+00	0.00E+00	6.27E-10	4.68E-04	0.00E+00	2.34E-10	0.00E+00	0.00E+00	1.14E-08	0.00E+00	0.00E+00	4.68E-04

Appendix C

Health Effects

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DRAFT
MEMORANDUM

To:	Memorandum to File
From:	Jennifer Reed, Samantha Wang; Dudek
Subject:	Health Effects from Criteria Air Pollutants Associated with the Schulte Warehouse Project
Date:	January 5, 2021

1 Purpose and Introduction

In response to the California Supreme Court's *Sierra Club v. County of Fresno* (2018) 6 Cal. 5th 502 decision (referred to herein as the Friant Ranch decision), this memorandum addresses the potential for adverse health effects related to emissions of criteria air pollutants associated with construction and operation of the proposed Schulte Warehouse Project (proposed project), based on scientific information and technological methods available at the time of this memorandum's preparation. The published Friant Ranch decision (issued on December 24, 2018) addresses the need to correlate mass emission values for criteria air pollutants to specific health consequences, and contains the following direction from the California Supreme Court: "The Environmental Impact Report (EIR) must provide an adequate analysis to inform the public how its bare numbers translate to create potential adverse impacts or it must explain what the agency *does* know and why, given existing scientific constraints, it cannot translate potential health impacts further." (Italics original.) (Sierra Club v. County of Fresno 2018.)

As discussed below, at the time of this memorandum's preparation, no expert agency, including the San Joaquin Valley Air Pollution Control District (SJVAPCD), the California Air Resources Board (CARB), or the U.S. Environmental Protection Agency (EPA), have approved a quantitative method to reliably, meaningfully, and consistently translate the mass emission estimates for the criteria air pollutants resulting from the proposed project to specific health effects. No California air district or other expert agency/entity has published *quantitative* guidance on how to address the Friant Ranch decision.[1] However, in October 2020, the Sacramento Metropolitan Air Quality Management District (SMAQMD) published an *Guidance to Address the Friant Ranch Ruling for the California Environmental Quality Act (CEQA) Projects in the Sac Metro Air District (SMAQMD 2020; Friant Guidance)*. The SMAQMD Friant Guidance provides screening health information for projects at or below regional CEQA thresholds of significance, screening health information for projects located in selected strategic areas above thresholds of significance, and modeling guidance for large projects located outside strategic areas, which is summarized in Section 4, below.

[1] The following air districts, state agencies and entities were contacted by Dudek in January 2019, which could not provide guidance on how to proceed in response to the Friant Ranch decision at that time: San Diego Air Pollution Control District (APCD), Mojave Desert AQMD, South Coast AQMD, Santa Barbara County APCD, San Luis Obispo County APCD, Bay Area AQMD, California Air Resources Board, California Office of Planning and Research, California Air Pollution Control Officers Association, and Office of Environmental Health Hazard Assessment.

Nonetheless, following the Supreme Court's Friant Ranch decision, some EIRs where estimated criteria air pollutant emissions exceeded applicable air district thresholds, have included a quantitative analysis of potential project-generated health effects using a combination of a regional photochemical grid model (PGM) and the EPA Benefits Mapping and Analysis Program (BenMAP or BenMAP–Community Edition (CE)). The publically available health impact assessments (HIA) typically present results in terms of an increase in health incidences and/or the increase in background health incidence for various health outcomes resulting from the project's estimated increase in concentrations of ozone (O_3) and particulate matter with an aerodynamic diameter less than or equal to 2.5 microns ($PM_{2.5}$). To date, all of the HIAs that are publically available have concluded that the evaluated project's health effects associated with the estimated project-generated increase in concentrations of O_3 and $PM_{2.5}$ represent a small increase in incidences and a very small percent of the number of background incidences, indicating that these health impacts are negligible and potentially within the models' margin of error. A review of the publically available HIAs in CEQA documents is provided in Section 4.

2 National and California Ambient Air Quality Standards

As discussed in Section 4.1, Air Quality, of the proposed project's EIR, ambient air quality standards (AAQS) define clean air, and are established to protect even the most sensitive individuals (CARB 2019a). An AAQS defines the maximum amount of a pollutant averaged over a specified period of time that can be present in outdoor air without harm to the public's health. The EPA and CARB are both authorized to set AAQS.

The Clean Air Act Amendments of 1970 instruct the EPA to set primary National AAQS (NAAQS) to protect public health, and secondary NAAQS to protect plants, forests, crops and materials from damage due to exposure to the following criteria air pollutants: O_3, nitrogen dioxide (NO_2), carbon monoxide (CO), sulfur dioxide (SO_2), particulate matter with an aerodynamic diameter less than or equal to 10 microns (PM_{10}), $PM_{2.5}$, and lead.

The federal Clean Air Act requires that the EPA reassess, at least every five years, whether adopted standards are adequate to protect public health based on current scientific evidence. The EPA is required to rely on the advice of an independent scientific panel, the Clean Air Scientific Advisory Committee. Reviewing the NAAQS is a lengthy undertaking and includes the following major phases: planning, integrated science assessment, risk/exposure assessment, policy assessment, and rulemaking (EPA 2018a). During the integrated science assessment, a comprehensive review, synthesis, and evaluation of the most policy-relevant science is conducted, including key science judgments that are important to inform the development of the risk and exposure assessments (EPA 2018a). Then, the risk/exposure assessment draws upon information and conclusions presented in the integrated science assessment to develop quantitative characterizations of exposures and associated risks to human health or the environment associated with recent air quality conditions and with air quality estimated to just meet the current or alternative standard(s) under consideration (EPA 2018a). Scientific review during policy assessment development, and the NAAQS review process in general, is thorough and extensive.

In 1959, California enacted legislation requiring the state Department of Public Health to establish AAQS and necessary controls for motor vehicle emissions (CARB 2019b). California's AAQS (CAAQS) were adopted in 1971 (CARB 2019b). The CAAQS are established for O_3, NO_2, CO, SO_2, PM_{10}, and $PM_{2.5}$, as well as hydrogen sulfide, vinyl chloride, sulfates, and visibility reducing particles.

Air quality standard setting in California commences with a critical review of all relevant peer reviewed scientific literature. The Office of Environmental Health Hazard Assessment (OEHHA) uses the review of health literature to

develop a recommendation for the standard. The recommendation can be for no change, or can recommend a new standard. The review, including the OEHHA recommendation, is summarized in a document called the draft Initial Statement of Reasons (ISOR), which is released for comment by the public, and also for public peer review by the Air Quality Advisory Committee (AQAC). AQAC members are appointed by the President of the University of California for their expertise in the range of subjects covered in the ISOR, including health, exposure, air quality monitoring, atmospheric chemistry and physics, and effects on plants, trees, materials, and ecosystems. The Committee provides written comments on the draft ISOR. CARB staff next revises the ISOR based on comments from AQAC and the public. The revised ISOR is then released for a 45-day public comment period prior to consideration by the Board of CARB at a regularly scheduled Board hearing (CARB 2017a).

Federal law requires that all states attain the NAAQS. Failure of a state to reach attainment of the NAAQS by the target date can trigger penalties, including withholding of federal highway funds (CARB 2019b). California law similarly continues to mandate CAAQS, although attainment of the NAAQS has precedence over attainment of the CAAQS (CARB 2019b).

Of importance to this memorandum, California air districts have based their thresholds of significance for CEQA purposes on the levels that scientific and factual data demonstrate that the air basin can accommodate without affecting the attainment date for the NAAQS or CAAQS. Since an AAQS is based on maximum pollutant levels in outdoor air that would not harm the public's health, and air district thresholds pertain to attainment of the AAQS, this means that the thresholds established by air districts are also protective of human health. The particular thresholds of relevance to the proposed project are illustrated in Table 4.1-4, SJVAPCD CEQA Significance Thresholds for Criteria Pollutants, of the EIR. Because O_3 is not emitted directly, air districts have established emissions-based thresholds for O_3 precursors—reactive organic gases (ROGs, also known as volatile organic compounds (VOCs)) and oxides of nitrogen (NO_x)—which are intended to serve as a surrogate for an "O_3 significance threshold" (i.e., the potential for adverse O_3 impacts to occur).

The NAAQS and CAAQS for O_3, NO_2, CO, SO_2, PM_{10}, and $PM_{2.5}$ are presented in Table 1. Hydrogen sulfide, vinyl chloride, sulfates, and visibility reducing particles are not addressed further in this evaluation because they are not routinely associated with land use development projects subject to CEQA review, and are thus not presented in Table 1.[2]

Table 1. Ambient Air Quality Standards

Pollutant	Averaging Time	California Standards[a]	National Standards[b]	
		Concentration[c]	Primary[c,d]	Secondary[c,e]
O_3	1 hour	0.09 ppm (180 µg/m³)	—	Same as Primary Standard[f]
	8 hours	0.070 ppm (137 µg/m³)	0.070 ppm (137 µg/m³)[f]	
NO_2[g]	1 hour	0.18 ppm (339 µg/m³)	0.100 ppm (188 µg/m³)	Same as Primary Standard
	Annual Arithmetic Mean	0.030 ppm (57 µg/m³)	0.053 ppm (100 µg/m³)	
	1 hour	20 ppm (23 mg/m³)	35 ppm (40 mg/m³)	

[2] Ambient Air Quality Standards table is provided as Table 1 in the Air Quality and GHG Emissions Analysis Technical Report, and EIR Section 4.1, Air Quality, Table 4.1-1.

Table 1. Ambient Air Quality Standards

Pollutant	Averaging Time	California Standards[a]	National Standards[b]	
		Concentration[c]	Primary[c,d]	Secondary[c,e]
CO	8 hours	9.0 ppm (10 mg/m^3)	9 ppm (10 mg/m^3)	None
SO_2[h]	1 hour	0.25 ppm (655 µg/m^3)	0.075 ppm (196 µg/m^3)	—
	3 hours	—	—	0.5 ppm (1,300 µg/m^3)
	24 hours	0.04 ppm (105 µg/m^3)	0.14 ppm (for certain areas)[g]	—
	Annual	—	0.030 ppm (for certain areas)[g]	—
PM_{10}[i]	24 hours	50 µg/m^3	150 µg/m^3	Same as Primary Standard
	Annual Arithmetic Mean	20 µg/m^3	—	
$PM_{2.5}$[i]	24 hours	—	35 µg/m^3	Same as Primary Standard
	Annual Arithmetic Mean	12 µg/m^3	12.0 µg/m^3	15.0 µg/m^3

Source: CARB 2016.

Notes: µg/m^3 = micrograms per cubic meter; mg/m^3= milligrams per cubic meter; ppm = parts per million by volume; O_3 = ozone; NO_2 = nitrogen dioxide; CO = carbon monoxide; SO_2 = sulfur dioxide; PM_{10} = particulate matter with an aerodynamic diameter less than or equal to 10 microns; $PM_{2.5}$ = particulate matter with an aerodynamic diameter less than or equal to 2.5 microns.

[a] California standards for O_3, CO, SO_2 (1-hour and 24-hour), NO_2, suspended particulate matter (PM_{10}, $PM_{2.5}$), and visibility-reducing particles are values that are not to be exceeded. All others are not to be equaled or exceeded. CAAQS are listed in the Table of Standards in Section 70200 of Title 17 of the California Code of Regulations.

[b] National standards (other than O_3, NO_2, SO_2, particulate matter, and those based on annual averages or annual arithmetic mean) are not to be exceeded more than once per year. The O_3 standard is attained when the fourth highest 8-hour concentration measured at each site in a year, averaged over 3 years, is equal to or less than the standard. For PM_{10}, the 24-hour standard is attained when the expected number of days per calendar year with a 24-hour average concentration above 150 µg/m^3 is equal to or less than 1. For $PM_{2.5}$, the 24-hour standard is attained when 98% of the daily concentrations, averaged over 3 years, are equal to or less than the standard.

[c] Concentration expressed first in units in which it was promulgated. Equivalent units given in parentheses are based on a reference temperature of 25°C and a reference pressure of 760 torr. Most measurements of air quality are to be corrected to a reference temperature of 25°C and a reference pressure of 760 torr; ppm in this table refers to ppm by volume, or micromoles of pollutant per mole of gas.

[d] National Primary Standards: The levels of air quality necessary, with an adequate margin of safety, to protect the public health.

[e] National Secondary Standards: The levels of air quality necessary to protect the public welfare from any known or anticipated adverse effects of a pollutant.

[f] On October 1, 2015, the national 8-hour O_3 primary and secondary standards were lowered from 0.075 to 0.070 ppm.

[g] To attain the national 1-hour standard, the 3-year average of the annual 98th percentile of the 1-hour daily maximum concentrations at each site must not exceed 100 parts per billion (ppb). Note that the national 1-hour standard is in units of ppb. California standards are in units of ppm. To directly compare the national 1-hour standard to the California standards, the units can be converted from ppb to ppm. In this case, the national standard of 100 ppb is identical to 0.100 ppm.

[h] On June 2, 2010, a new 1-hour SO_2 standard was established, and the existing 24-hour and annual primary standards were revoked. To attain the national 1-hour standard, the 3-year average of the annual 99th percentile of the 1-hour daily maximum concentrations at each site must not exceed 75 ppb. The 1971 SO_2 national standards (24-hour and annual) remain in effect until 1 year after an area is designated for the 2010 standard, except that in areas designated nonattainment of the 1971 standards, the 1971 standards remain in effect until implementation plans to attain or maintain the 2010 standards are approved.

[i] CARB adopted new PM standards in June of 2002, responding to requirements of the Children's Environmental Health Protection Act (Senate Bill 25, Escutia 1999), specifically the evaluation of all health-based AAQS to determine if the standards adequately protect human health, particularly that of infants and children. The subsequent review of the PM standards resulted in the recommendation of more health-protective AAQS for PM_{10} and a new standard for $PM_{2.5}$. The new PM standards became effective in 2003. Upon further review, the national annual $PM_{2.5}$ primary standard was lowered from 15 µg/m^3 to 12.0 µg/m^3 on December

14, 2012. The existing national 24-hour $PM_{2.5}$ standards (primary and secondary) were retained at 35 µg/m³, as was the annual secondary standard of 15 µg/m³. The existing 24-hour PM_{10} standards (primary and secondary) of 150 µg/m³ were also retained. The form of the annual primary and secondary standards is the annual mean averaged over 3 years.

Pursuant to the 1990 Clean Air Act amendments, the EPA classifies air basins (or portions thereof) as "attainment" or "nonattainment" for each criteria air pollutant, based on whether the NAAQS have been achieved. Generally, if the recorded concentrations of a pollutant are lower than the standard, the area is classified as "attainment" for that pollutant. If an area exceeds the standard, the area is classified as "nonattainment" for that pollutant. If there is not enough data available to determine whether the standard is exceeded in an area, the area is designated as "unclassified" or "unclassifiable." The designation of "unclassifiable/attainment" means that the area meets the standard or is expected to be meet the standard despite a lack of monitoring data. Nonattainment areas must develop plans to attain the NAAQS. Areas that achieve the standards after a nonattainment designation are redesignated as maintenance areas and must have approved maintenance plans to ensure continued attainment of the standards. The California Clean Air Act, like its federal counterpart, called for the designation of areas as "attainment" or "nonattainment," but based on CAAQS rather than NAAQS. The attainment designations for O_3, NO_2, CO, SO_2, PM_{10}, and $PM_{2.5}$ for the San Joaquin Valley Air Basin (SJVAB) are listed in Table 2.[3]

Table 2. San Joaquin Valley Air Basin Attainment Designation

Pollutant	National Designation	California Designation
Ozone (O_3) – 1-hour	No national standard[1]	**Nonattainment/Severe**
Ozone (O_3) – 8-hour	**Nonattainment/Extreme[2]**	**Nonattainment**
Nitrogen dioxide (NO_2)	Unclassifiable/attainment	Attainment
Carbon monoxide (CO)	Unclassifiable/attainment	Attainment
Sulfur dioxide (SO_2)	Unclassifiable/attainment	Attainment
Respirable particulate matter (PM_{10})	Attainment (Maintenance)[3]	**Nonattainment**
Fine particulate matter ($PM_{2.5}$)	**Nonattainment[4]**	**Nonattainment**

Sources: SJVAPCD 2020c; EPA 2018b (national); CARB 2018a (California).
Notes:
Bold text = not in attainment; Attainment = meets the standards; Attainment (Maintenance) = achieve the standards after a nonattainment designation; Nonattainment = does not meet the standards; Unclassified or Unclassifiable = insufficient data to classify; Unclassifiable/Attainment = meets the standard or is expected to be meet the standard despite a lack of monitoring data.

1 Effective June 15, 2005, the EPA revoked the national 1-hour ozone standard, including associated designations and classifications. EPA had previously classified the SJVAB as extreme nonattainment for this standard. EPA approved the 2004 Extreme Ozone Attainment Demonstration Plan (SJVAPCD 2004) on March 8, 2010 (effective April 7, 2010). Many applicable requirements for extreme 1-hour ozone nonattainment areas continue to apply to the SJVAB.

2 Though the San Joaquin Valley was initially classified as serious nonattainment for the 1997 8-hour ozone standard, EPA approved San Joaquin Valley reclassification to extreme nonattainment in the Federal Register on May 5, 2010 (effective June 4, 2010).

3 On September 25, 2008, EPA re-designated the San Joaquin Valley to attainment for the PM_{10} NAAQS and approved the PM_{10} Maintenance Plan.

4 The San Joaquin Valley is designated nonattainment for the 1997 $PM_{2.5}$ NAAQS. EPA designated the San Joaquin Valley as nonattainment for the 2006 $PM_{2.5}$ NAAQS on November 13, 2009 (effective December 14, 2009).

As shown in Table 2, the EPA has designated the SJVAB as a nonattainment area for the national 8-hour O_3 standard, and CARB has designated the SJVAB as a nonattainment area for the California 1-hour and 8-hour O_3

3 The same discussion of the SJVAB attainment designation is provided in Section 2.3.1, San Joaquin Valley Air Basin Attainment Designation, of the Air Quality and GHG Emissions Analysis Technical Report, and Section 4.1.2, Relevant Plans, Policies, and Ordinances, of the EIR.

standards. The SJVAB has been designated as a nonattainment area for the California 24-hour and annual PM_{10} standards, a nonattainment area for the national 24-hour and annual $PM_{2.5}$ standards, and as a nonattainment area for the California annual $PM_{2.5}$ standard.

As discussed in 4.1.2, Relevant Plans, Policies, and, Ordinances, of the EIR, SJVAPCD is responsible for developing several air quality attainment plans to achieve the ozone and particulate matter standards, the most recent of which include the *2020 Reasonably Available Control Technology Demonstration for the 2015 8-Hour Ozone Standard (SJVAPCD 2020a), 2016 Plan for the 2008 8-Hour Ozone Standard* (SJVAPCD 2016a), *2014 Reasonably Available Control Technology Demonstration for the 8-Hour Ozone State Implementation Plan* (SJVAPCD 2014), *2013 Plan for the Revoked 1-Hour Ozone Standard* (SJVAPCD 2013), *2007 PM_{10} Maintenance Plan and Request for Redesignation* (SJVAPCD 2007), *2012 $PM_{2.5}$ Plan* (SJVAPCD 2012), *2015 Plan for the 1997 $PM_{2.5}$ Standard* (SJVAPCD 2015b), *2016 Moderate Area Plan for the 2012 $PM_{2.5}$ Standard* (SJVAPCD 2016b), and the *2018 Plan for the 1997, 2006, and 2012 $PM_{2.5}$ Standards* (SJVAPCD 2020b). As the SJVAPCD develops and implements plans and control measures designed to attain the AAQS, the SJVAPCD implements measures to reduce public health effects associated with criteria air pollutants.

3 Health Effects of Criteria Air Pollutants and their Precursors

Numerous scientific studies published over the past 50 years point to the harmful effects of air pollution (CARB 2019b). As explained above, the AAQS are designed to prevent these effects (CARB 2019b). The adverse health effects associated with air pollution are diverse and include (SCAQMD 2017):

- Premature mortality
- Cardiovascular effects
- Increased health care utilization (hospitalization, physician and emergency room visits)
- Increased respiratory illness and other morbidity (symptoms, infections, and asthma exacerbation)
- Decreased lung function (breathing capacity)
- Lung inflammation
- Potential immunological changes
- Increased airway reactivity to a known pharmacological agent exposure - a method used in laboratories to evaluate the tendency of airways to have an increased possibility of developing an asthmatic response
- A decreased tolerance for exercise
- Adverse birth outcomes such as low birth weights

The evidence linking these effects to air pollutants is derived from population-based observational and field studies (epidemiological) as well as controlled laboratory studies involving human subjects and animals. There have been an increasing number of studies focusing on the mechanisms (that is, on learning how specific organs, cell types, and biomarkers are involved in the human body's response to air pollution) and specific pollutants responsible for individual effects. Yet the underlying biological pathways for these effects are not always clearly understood (SCAQMD 2017).

Although individuals inhale pollutants as a mixture under ambient conditions, the regulatory framework and the control measures developed are pollutant-specific for six major outdoor pollutants covered under Sections 108 and 109 of the Clean Air Act. This is appropriate, in that different pollutants usually differ in their sources, their times

and places of occurrence, the kinds of health effects they may cause, and their overall levels of health risk. Different pollutants, from the same or different sources, oftentimes occur together. Evidence for more than additive effects has not been strong and, as a practical matter, health scientists, as well as regulatory officials, usually must deal with one pollutant at a time in adopting AAQS (SCAQMD 2017).

Health effects associated with criteria air pollutants are discussed below; the same or similar information is provided in Section 2.1.2, Pollutants and Effects, of the Air Quality and GHG Emissions Analysis Technical Report prepared for the project, and Section 4.1, Air Quality, of the proposed project's EIR.

Ozone (O_3). O_3 in the troposphere causes numerous adverse health effects; short-term exposures (lasting for a few hours) to O_3 at levels typically observed in Southern California can result in breathing pattern changes, reduction of breathing capacity, respiratory symptoms, worsening of lung disease leading to premature death, increased susceptibility to infections, inflammation of and damage to the lung tissue, and some immunological changes (EPA 2013, CARB 2019c). These health problems are particularly acute in sensitive receptors such as the sick, older adults, and young children.

Inhalation of O_3 causes inflammation and irritation of the tissues lining human airways, causing and worsening a variety of symptoms. Exposure to O_3 can reduce the volume of air that the lungs breathe in and cause shortness of breath. O_3 in sufficient doses increases the permeability of lung cells, rendering them more susceptible to toxins and microorganisms. The occurrence and severity of health effects from O_3 exposure vary widely among individuals, even when the dose and the duration of exposure are the same. Research shows adults and children who spend more time outdoors participating in vigorous physical activities are at greater risk from the harmful health effects of O_3 exposure. While there are relatively few studies of O_3's effects on children, the available studies show that children are no more or less likely to suffer harmful effects than adults. However, there are a number of reasons why children may be more susceptible to O_3 and other pollutants. Children and teens spend nearly twice as much time outdoors and engaged in vigorous activities as adults. Children breathe more rapidly than adults and inhale more pollution per pound of their body weight than adults. Also, children are less likely than adults to notice their own symptoms and avoid harmful exposures. Further research may be able to better distinguish between health effects in children and adults. Children, adolescents and adults who exercise or work outdoors, where O_3 concentrations are the highest, are at the greatest risk of harm from this pollutant (CARB 2019c).

A number of population groups are potentially at increased risk for O_3 exposure effects. In the ongoing review of O_3, the EPA has identified populations as having adequate evidence for increased risk from O_3 exposures include individuals with asthma, younger and older age groups, individuals with reduced intake of certain nutrients such as Vitamins C and E, and outdoor workers. There is suggestive evidence for other potential factors, such as variations in genes related to oxidative metabolism or inflammation, gender, socioeconomic status, and obesity. However further evidence is needed (SCAQMD 2017).

The adverse effects reported with short-term O_3 exposure are greater with increased activity because activity increases the breathing rate and the volume of air reaching the lungs, resulting in an increased amount of O_3 reaching the lungs. Children may be a particularly vulnerable population to air pollution effects because they spend more time outdoors, are generally more active, and have a higher specific ventilation relative to their body weight, compared to adults (SCAQMD 2017).

Volatile Organic Compounds (VOCs). The primary health effects of VOCs result from the formation of O_3 and its related health effects. High levels of VOCs in the atmosphere can interfere with oxygen intake by reducing the amount of available oxygen through displacement. Carcinogenic forms of hydrocarbons, such as benzene, are considered TACs. There are no separate health standards for VOCs as a group. Within this evaluation, VOC and reactive organic gases (ROGs) are used interchangeably.

Nitrogen Dioxide (NO_2). A large body of health science literature indicates that exposure to NO_2 can induce adverse health effects. The strongest health evidence, and the health basis for the AAQS for NO_2, is results from controlled human exposure studies that show that NO_2 exposure can intensify responses to allergens in allergic asthmatics. In addition, a number of epidemiological studies have demonstrated associations between NO_2 exposure and premature death, cardiopulmonary effects, decreased lung function growth in children, respiratory symptoms, emergency room visits for asthma, and intensified allergic responses. Infants and children are particularly at risk because they have disproportionately higher exposure to NO_2 than adults due to their greater breathing rate for their body weight and their typically greater outdoor exposure duration. Several studies have shown that long-term NO_2 exposure during childhood, the period of rapid lung growth, can lead to smaller lungs at maturity in children with higher compared to lower levels of exposure. In addition, children with asthma have a greater degree of airway responsiveness compared with adult asthmatics. In adults, the greatest risk is to people who have chronic respiratory diseases, such as asthma and chronic obstructive pulmonary disease (CARB 2019d).

Carbon Monoxide (CO). Carbon monoxide is harmful because it binds to hemoglobin in the blood, reducing the ability of blood to carry oxygen. This interferes with oxygen delivery to the body's organs. The most common effects of CO exposure are fatigue, headaches, confusion and reduced mental alertness, and light-headedness, dizziness due to inadequate oxygen delivery to the brain. For people with cardiovascular disease, short-term CO exposure can further reduce their body's already compromised ability to respond to the increased oxygen demands of exercise, exertion, or stress. Inadequate oxygen delivery to the heart muscle leads to chest pain and decreased exercise tolerance. Unborn babies whose mothers experience high levels of CO exposure during pregnancy are at risk of adverse developmental effects. Unborn babies, infants, elderly people, and people with anemia or with a history of heart or respiratory disease are most likely to experience health effects with exposure to elevated levels of CO (CARB 2019e).

Sulfur Dioxide (SO_2). SO_2 is an irritant gas that attacks the throat and lungs and can cause acute respiratory symptoms and diminished ventilator function in children. When combined with particulate matter (PM), SO_2 can injure lung tissue and reduce visibility and the level of sunlight. SO_2 can worsen asthma resulting in increased symptoms, increased medication usage, and emergency room visits.

Controlled human exposure and epidemiological studies show that children and adults with asthma are more likely to experience adverse responses with SO_2 exposure, compared with the non-asthmatic population. Effects at levels near the one-hour standard are those of asthma exacerbation, including bronchoconstriction accompanied by symptoms of respiratory irritation such as wheezing, shortness of breath and chest tightness, especially during exercise or physical activity. Also, exposure at elevated levels of SO_2 (above 1 parts per million (ppm)) results in increased incidence of pulmonary symptoms and disease, decreased pulmonary function, and increased risk of mortality. The elderly and people with cardiovascular disease or chronic lung disease (such as bronchitis or emphysema) are most likely to experience these adverse effects (CARB 2019f).

SO_2 is of concern both because it is a direct respiratory irritant and because it contributes to the formation of sulfate and sulfuric acid in PM (NRC 2005). People with asthma are of particular concern, both because they have

increased baseline airflow resistance and because their SO_2-induced increase in resistance is greater than in healthy people, and it increases with the severity of their asthma (NRC 2005). SO_2 is thought to induce airway constriction via neural reflexes involving irritant receptors in the airways (NRC 2005).

Particulate Matter (PM_{10} and $PM_{2.5}$). A number of adverse health effects have been associated with exposure to both $PM_{2.5}$ and PM_{10}. For $PM_{2.5}$, short-term exposures (up to 24-hours duration) have been associated with premature mortality, increased hospital admissions for heart or lung causes, acute and chronic bronchitis, asthma attacks, emergency room visits, respiratory symptoms, and restricted activity days. These adverse health effects have been reported primarily in infants, children, and older adults with preexisting heart or lung diseases. In addition, of all of the common air pollutants, $PM_{2.5}$ is associated with the greatest proportion of adverse health effects related to air pollution, both in the United States and world-wide based on the World Health Organization's Global Burden of Disease Project. Short-term exposures to PM_{10} have been associated primarily with worsening of respiratory diseases, including asthma and chronic obstructive pulmonary disease, leading to hospitalization and emergency department visits (CARB 2017b).

Long-term (months to years) exposure to $PM_{2.5}$ has been linked to premature death, particularly in people who have chronic heart or lung diseases, and reduced lung function growth in children. The effects of long-term exposure to PM_{10} are less clear, although several studies suggest a link between long-term PM_{10} exposure and respiratory mortality. The International Agency for Research on Cancer published a review in 2015 that concluded that PM in outdoor air pollution causes lung cancer (CARB 2017b).

People with influenza, people with chronic respiratory and cardiovascular diseases, and older adults may suffer worsening illness and premature death as a result of breathing PM. People with bronchitis can expect aggravated symptoms from breathing PM. Children may experience a decline in lung function due to breathing in PM_{10} and $PM_{2.5}$ (EPA 2009).

PM encompasses a physically and chemically diverse class of ambient air pollutants of both anthropogenic and biological origin. The PM standard is the only NAAQS that does not target a specific chemical or family of chemical species (NRC 2005). The range of human health effects associated with ambient PM levels or demonstrated in laboratory studies has expanded from earlier concerns for total mortality and respiratory morbidity to include cardiac mortality and morbidity, blood vessel constriction, stroke, premature birth, low birth weight, retarded lung growth, enhancement of allergic responses, reduced resistance to infection, degenerative lesions in the brain, and lung cancer (EPA 2004).

4 Scientific and Technological Complexities

At issue in the Friant Ranch decision was the fact that a development project's EIR did not connect its mass emission totals to specific adverse human health effects. Concerned with the sufficiency of the EIR as an informational document, and specifically whether the magnitude of project impacts was adequately disclosed, the California Supreme Court stated the following:

> "The task for real party and the County is clear: The EIR must provide an adequate analysis to inform the public how its bare numbers translate to create potential adverse impacts or it must adequately explain what the agency *does* know and why, given existing scientific constraints, it cannot translate potential health impacts further." (Sierra Club v. County of Fresno 2018; italics original)

As discussed further below, at the time of this writing, no available modeling tools have been proven to provide a reliable and meaningful analysis to correlate an increase in mass totals or concentrations of criteria air pollutants from an individual project to specific health effects, or estimate additional pollutant nonattainment days relative to the NAAQS and CAAQS due to a single project.

4.1 Formation of Secondary Pollutants

The California Supreme Court noted, in the Friant Ranch decision, that: "The raw numbers estimating the tons per year of ROG and NO_x from the Project do not give any information to the reader about how much ozone is estimated to be produced as a result."

In response, the formation of O_3 and PM in the atmosphere, as secondary pollutants,[4] involves complex chemical and physical interactions of multiple pollutants from natural and anthropogenic sources, as further explained below. The complexity in how secondary pollutants are formed and dispersed has resulted in ongoing difficulties in measuring and regulating those pollutants.

Tropospheric, or ground level O_3, is not emitted directly into the air, but is created by chemical reactions between NO_x and VOCs (EPA 2018c). This happens when pollutants emitted by cars, power plants, industrial boilers, refineries, chemical plants, and other sources chemically react in the presence of sunlight (EPA 2018c). O_3 is most likely to reach unhealthy levels on hot sunny days in urban environments, but can still reach high levels during colder months (EPA 2018c). O_3 can also be transported long distances by wind, so even rural areas can experience high O_3 levels (EPA 2018c).

The O_3 reaction is self-perpetuating (or catalytic) in the presence of sunlight because NO_2 is photochemically reformed from nitric oxide (NO). In this way, O_3 is controlled by both NO_x and VOC emissions (NRC 2005). The complexity of these interacting cycles of pollutants means that incremental decreases in one emission may not result in proportional decreases in O_3 (NRC 2005). Although these reactions and interactions are well understood, variability in emission source operations and meteorology creates uncertainty in the modeled O_3 concentrations to which downwind populations may be exposed (NRC 2005). This is especially true for individual projects, like the proposed project, where project-generated criteria air pollutant emissions are not derived from a single "point source," but from mobile sources (cars and trucks) driving to, from and around the Project area and area sources (consumer products, architectural coating, natural gas fireplaces, etc.).

In many urban areas, O_3 nonattainment is not caused by emissions from the local area alone (EPA 2008). Due to atmospheric transport, contributions of precursors from the surrounding region can also be important (EPA 2008, O_3 NAAQS). Thus, in designing control strategies to reduce O_3 concentrations in a local area, it is often necessary to account for regional transport within the U.S. (EPA 2008). In some areas, such as California, global transport of O_3 from beyond North America also can contribute to nonattainment areas (EPA 2008).

PM can be divided into two categories: directly emitted PM and secondary PM. Secondary PM, like O_3, is formed via complex chemical reactions in the atmosphere between precursor chemicals such as SO_x and NO_x (SJVAPCD 2015). In general, PM_{10} is composed largely of primary particles, and a much greater portion of $PM_{2.5}$ contains secondary particles (EPA 2015b). The secondary formation of $PM_{2.5}$ is dominated by a variety of chemical species or

[4] Air pollutants formed through chemical reactions in the atmosphere are referred to as secondary pollutants.

components of atmospheric particles, such as ammonium sulfate, ammonium nitrate, organic carbon mass, elemental carbon, and other soil compounds and oxidized metals. $PM_{2.5}$, sulfate, nitrate, and ammonium ions are predominantly the result of chemical reactions of the oxidized products of SO_2 and NO_x emissions with direct ammonia emission (EPA 2017a). Because of the complexity of secondary PM formation, including the potential to be transported long distances by wind, the tonnage of PM-forming precursor emissions in an area does not necessarily result in an equivalent concentration of secondary PM in that area (SJVAPCD 2015).

Because of the long-range transport of some pollutants, important emission sources may be far from the locations where measured pollutant concentrations exceed the AAQS (NRC 2005). Thus, for areas experiencing higher ambient concentrations of pollutants, such as O_3 and PM, controlling emissions of those pollutants and their precursors is typically a regional, often multistate, problem, not a local one (NRC 2005).

4.2 San Joaquin Valley Air Pollution Control District and South Coast Air Quality Management District Briefs

In connection with the judicial proceedings culminating in issuance of the Friant Ranch decision, the San Joaquin Valley Air Pollution Control District (SJVAPCD) and the South Coast Air Quality Management District (SCAQMD) filed amicus briefs attesting to the extreme difficulty of correlating an individual project's criteria air pollutant emissions to specific health impacts. Both the SJVAPCD and the SCAQMD have among the most sophisticated air quality modeling and health impact evaluation capabilities of the air districts in the State. While the information and arguments presented in those briefs was considered by the California Supreme Court, the Court noted that such information was not part of the administrative record associated with the County's decision to approve the Friant Ranch project. A summary of the key, relevant points of the SJVAPCD and SCAQMD briefs is provided below.

Difference between Toxic Air Contaminants and Criteria Air Pollutants

A toxic air contaminant (TAC) is an air pollutant, identified in regulation by CARB, which may cause or contribute to an increase in deaths or in serious illness, or which may pose a present or potential hazard to human health. TACs are considered under a different regulatory process (California Health and Safety Code section 39650 et seq.) than pollutants subject to CAAQS and NAAQS. Health effects to TACs may occur at extremely low levels and it is typically difficult to identify levels of exposure which do not produce adverse health effects. A criteria air pollutant, on the other hand, is an air pollutant for which acceptable levels of exposure can be determined and for which an AAQS has been set (CARB 2019g).

As the SJVAPCD explained in their brief, "Although criteria air pollutants can also be harmful to human health, they are distinguishable from TACs and are regulated separately. The most relevant difference between criteria pollutants and TACs for purposes of this case is the manner in which human health impacts are accounted for. While it is common practice to analyze the correlation between an individual facility's TAC emissions and the expected localized human health impacts, such is not the case for criteria pollutants" (SJVAPCD 2015). Unlike with TACs (where assessment occurs in conjunction with environmental analysis for individual projects), the human health impacts associated with criteria air pollutants are analyzed and taken into consideration when EPA sets the NAAQS for each criteria pollutant. (42 U.S.C. § 7409(b)(1).) The health impact of a particular criteria pollutant is analyzed on a regional and not a facility or individual project level based on how close the area is to complying with (attaining) the NAAQS (SJVAPCD 2015). The SJVAPCD concluded that while it is possible to perform a health impact analysis for TACs, which was done for operation of the proposed project (see Section 4.1.4 Impacts Analysis,

Threshold C), "it is not feasible to conduct a similar analysis for criteria air pollutants because currently available computer modeling tools are not equipped for this task" (SJVAPCD 2015).

Disconnect Between Mass and Concentration

Another important technical nuance is that health effects from air pollutants are related to the concentration of the air pollutant that an individual is exposed to, not necessarily the individual mass quantity of emissions associated with an individual project. For example, health effects from O_3 are correlated with increases in the ambient level of O_3 in the air a person breathes (SCAQMD 2015). However, it takes a large amount of additional precursor emissions to cause a modeled increase in ambient O_3 levels over an entire region (SCAQMD 2015).

For CEQA analyses, project-generated emissions are typically estimated in pounds per day or tons per year and compared to mass daily or annual emission thresholds. While CEQA thresholds are established at levels that the air basin can accommodate without affecting the attainment date for the AAQS, even if a project exceeds established CEQA significance thresholds, this does not mean that one can easily determine the concentration of O_3 or PM that will be created at or near the project site on a particular day or month of the year, or what specific health impacts will occur (SJVAPCD 2015).

As the SJVAPCD points out, the tonnage of PM "emitted does not always equate to the local PM concentration because it can be transported long distances by wind," and "[s]econdary PM, like O_3, is formed via complex chemical reactions in the atmosphere between precursor chemicals such as sulfur dioxides (SO_x) and NO_x," meaning that "the tonnage of PM-forming precursor emissions in an area does not necessarily result in an equivalent concentration of secondary PM in that area" (SJVAPCD 2015). The disconnect between the tonnage of precursor pollutants (NO_x, SO_x and VOCs) and the concentration of O_3 or PM formed is important because it is not necessarily the tonnage of precursor pollutants that causes human health effects, but the concentration of resulting O_3 or PM (SJVAPCD 2015). As discussed previously, the AAQS are established as concentrations of O_3 or PM and not as tonnages of their precursor pollutants (SJVAPCD 2015). The disconnect between the amount of precursor pollutants and the concentration of O_3 or PM formed makes it difficult to determine potential health impacts, which are related to the concentration of O_3 and PM experienced by the receptor rather than levels of NO_x, SO_x, and VOCs produced by a source (SJVAPCD 2015).

As discussed above, attainment of a particular AAQS occurs when the concentration of the relevant pollutant remains below a set threshold on a consistent basis throughout a particular region (SJVAPCD 2015). Because the AAQS are focused on achieving a particular concentration of pollution region-wide, an air district's tools and plans for attaining the AAQS are regional in nature (SJVAPCD 2015). For instance, the computer models used to simulate and predict an attainment date for the O_3 or PM NAAQS in the San Joaquin Valley are based on regional inputs, such as regional inventories of precursor pollutants (NO_x, SO_x and VOCs) and the atmospheric chemistry and meteorology of the San Joaquin Valley (SJVAPCD 2015). At a very basic level, the models simulate future O_3 or PM levels based on predicted changes in precursor emissions San Joaquin Valley Air Basin-wide (SJVAPCD 2015). Because the AAQS are set levels necessary to protect human health, the closer a region is to attaining a particular AAQS, the lower the human health impact is from that pollutant (SJVAPCD 2015).

The goal of these modeling exercises is not to determine whether the emissions generated by a particular factory or development project will affect the date that the San Joaquin Valley Air Basin attains the AAQS (SJVAPCD 2015). Rather, the SJVAPCD's modeling and planning strategy is regional in nature and based on the extent to which all of

the emission-generating sources in the San Joaquin Valley Air Basin (current and future) must be controlled in order to reach attainment (SJVAPCD 2015).

Correlation to Health Effects

The SJVAPCD ties the difficulty of correlating the emission of criteria pollutants to health impacts to how O_3 and PM are formed, as explained above. According to SJVAPCD, "even once a model is developed to accurately ascertain local increases in concentrations of photochemical pollutants like O_3 and some particulates, it remains impossible, using today's models, to correlate that increase in concentration to a specific health impact [because] such models are designed to determine regional, population-wide health impacts, and simply are not accurate when applied at the local level" (SJVAPCD 2015).

To demonstrate the relative scale between emissions within SJVAB used in photochemical and other regional modeling and proposed project-level emissions, emissions for SJVAB from the CARB California Emissions Projection Analysis Model (CEPAM) emissions inventory and estimated emissions from the proposed project are summarized below. CEPAM produces projected emissions that can then be gridded to serve as the emission input for photochemical modeling. Including all sources except natural sources,[5] total emissions for SJVAB for the CEPAM baseline year of 2012 is as follows: 1,012 tons per day for VOC, 339 tons per day of NO_x, 741 tons per day of CO, 9 tons per day for SO_x, 271 tons per day of PM_{10}, and 69 tons per day of $PM_{2.5}$ (CARB 2018b). For the proposed project's buildout year of 2022, total projected emissions for SJVAB for all sources expect natural, as forecasted by CEPAM, is as follows: 1,014 tons per day for VOC, 183 tons per day of NO_x, 973 tons per day of CO, 11 tons per day for SO_x, 313 tons per day of PM_{10}, and 102 tons per day of $PM_{2.5}$ (CARB 2018b). Construction of the proposed project is estimated to result in maximum daily emissions of 0.04 ton per day for VOC, 0.02 ton per day of NO_x, 0.02 ton per day of CO, less than 0.01 ton per day for SO_x, less than 0.01 ton per day of PM_{10}, and less than 0.01 ton per day of $PM_{2.5}$ after incorporation of mitigation (see Table 4.1-10, Estimated Maximum Daily Construction and Operational Criteria Air Pollutant Emissions - Unmitigated). Proposed project operation is anticipated to result in maximum daily emissions of 0.01 ton per day for VOC, 0.03 ton per day of NO_x, 0.03 ton per day of CO, less than 0.01 ton per day for SO_x, less than 0.01 ton per day of PM_{10}, and less than 0.01 ton per day of $PM_{2.5}$ under unmitigated conditions (see Table 4.1-10, Estimated Maximum Daily Construction and Operational Criteria Air Pollutant Emissions - Unmitigated). As presented above, proposed project emissions represent a small fraction of the total emissions in SJVAB.

SCAQMD used O_3, which is formed from the chemical reaction of NO_x and VOCs in the presence of sunlight, as an example of why it is impracticable to determine specific health outcomes from criteria pollutants for all but very large, regional-scale projects. First, forming O_3 "takes time and the influence of meteorological conditions for these reactions to occur, so ozone may be formed at a distance downwind from the sources" (SCAQMD 2015). Second, "it takes a large amount of additional precursor emissions (NO_x and VOCs) to cause a modeled increase in ambient ozone levels over an entire region," with a 2012 study showing that "reducing NO_x by 432 tons per day (157,680 tons/year) and reducing VOC by 187 tons per day (68,255 tons/year) would reduce ozone levels at the SCAQMD's monitor site with the highest levels by only 9 parts per billion" (SCAQMD 2015). SCAQMD thus concludes that it "does not currently know of a way to accurately quantify O_3-related health impacts caused by NO_x or VOC emissions from relatively small projects" (SCAQMD 2015).

[5] Natural sources are non-manmade emission sources, which include biological and geological sources, wildfires, windblown dust, and biogenic emissions from plants and trees.

Essentially, SCAQMD takes the position that a project emitting only 10 tons per year of NO_x or VOC is small enough that its regional impact on ambient O_3 levels may not be detected in the regional air quality models that are currently used to determine O_3 levels; thus, in this case it would not be feasible to directly correlate project emissions of VOC or NO_x with specific health impacts from O_3 (SCAQMD 2015). Therefore, lead agencies that use SCAQMD's thresholds of significance may determine that many projects have "significant" air quality impacts and must apply all feasible mitigation measures, yet will not be able to precisely correlate the project to quantifiable health impacts.

Effects on Number of Nonattainment Days

In regard to regional concentrations and air basin attainment, the SJVAPCD emphasized that attempting to identify a change in background pollutant concentrations that can be attributed to a single project, even one as large as the entire Friant Ranch Specific Plan, is a theoretical exercise. The SJVAPCD brief noted that it "would be extremely difficult to model the impact on NAAQS attainment that the emissions from the Friant Ranch project may have" (SJVAPCD 2015). The situation is further complicated by the fact that background concentrations of regional pollutants are not uniform either temporally or geographically throughout an air basin, but are constantly fluctuating based upon meteorology and other environmental factors. As discussed above, the currently available modeling tools are equipped to model the impact of all emission sources in the San Joaquin Valley Air Basin on attainment (SJVAPCD 2015). The SJVAPCD brief then indicated that, "Running the photochemical grid model used for predicting O_3 attainment with the emissions solely from the Friant Ranch project (which equate to less than one-tenth of one percent of the total NO_x and VOC in the Valley) is not likely to yield valid information given the relative scale involved" (SJVAPCD 2015).

4.3 Sacramento Metropolitan Air Quality Management District Friant Guidance

As previously discussed, the SMAQMD is to date the only California air district to formally release guidance (Interim Recommendation, April 2019, and the Friant Guidance, October 2020) for lead agencies and practitioners preparing CEQA documents for projects within the Five-Air-District Region (SMAQMD, Yolo-Solano AQMD, Placer County APCD, El Dorado County AQMD, and Feather River AQMD) to comply with the Friant Ranch decision. The Friant Guidance provides methodology developed by SMAQMD "that would provide a consistent, reliable, and meaningful analysis to address the [Supreme] Court's direction on correlating health impacts to a project's emissions" (SMAQMD 2020). The SMAQMD Friant Guidance provides screening health information for projects at or below regional CEQA thresholds of significance, screening health information for projects located in selected strategic areas above thresholds of significance, and modeling guidance for large projects located outside strategic areas. The SMAQMD Friant Guidance emphasizes that although the model generates conservative estimates of health effects, the model outputs indicate low overall health effects.

The Friant Guidance was prepared by running PGM to assess the increase in ambient air concentrations of pollutants that the hypothetical source emissions may cause. PGMs require a database of information, including meteorology and the spatial and temporal allocation of emissions in the area to be modeled. This includes both existing emissions and the emissions of the particular hypothetical source emissions being evaluated. The next step is to put the increases in concentrations from the PGM that result from the hypothetical source emissions into BenMAP that estimates health impacts from O_3 and $PM_{2.5}$. SMAQMD prepared two tools that are intended for use in analyzing health risks from criteria air pollutants. Screening analysis for smaller projects at or below regional CEQA thresholds of significance may use the Minor Project Health Screening Tool, and larger projects with criteria air pollutant emissions greater than the CEQA thresholds of significance and located in strategic areas may use the Strategic Area Health Effects Screening Tool. In addition, SMAQMD provides guidance for photochemical grid

modeling and health effects analysis for larger projects outside the designated strategic areas to prepare a site-specific health effects analysis. In order to estimate the health effects of the increases of criteria pollutants from a proposed project, SMAQMD recommends applying PGM to estimate the increases in concentrations of ozone and $PM_{2.5}$ in the region as a result of the emissions of criteria and precursor pollutants from a project. Next, apply the EPA-authored program BenMAP to estimate the resulting health effects from the increases in concentration (SMAQMD 2020). Furthermore, the Friant Guidance states that the analysis should include a qualitative discussion of how the health effects tool provides an average estimate across all populations.

It should be noted that the SMAQMD Interim recommendation explains that air districts have focused on reducing regional emissions from all sectors to meet the health-based concentration standards, thereby reducing the pollutant specific health impacts for the entire population. For example, the SMAQMD prepared plans to attain and maintain the O_3 and PM AAQS. These attainment plans include emissions inventories, air monitoring data, control measures, modeling, future pollutant-level estimates, and general health information. Attainment planning models rely on regional inputs to determine O_3 and PM formation and concentrations in a regional context, not a project specific context. Because of the complexity of O_3 formation, the pounds or tons of emissions from a proposed project in a specific geographical location does not equate to a specific concentration of ozone formation in a given area, because in addition to emission levels, O_3 formation is affected by atmospheric chemistry, geography, and weather. Secondary formation of PM is very similar to the complexity of O_3 formation, and localized impacts of directly emitted PM do not always equate to local PM concentrations due to transport of emissions. Accordingly, because air district attainment plans and supporting air model tools are regional in nature, they do not allow for analysis of the health impacts of specific projects on any given geographic location. Furthermore, available health-related information cannot be directly correlated to the pounds/day or tons/year of emissions estimated from a single, proposed project (SMAQMD 2019).

4.4 Methods Available

At the time of writing, no specific tools have been developed for use in CEQA documents to connect criteria air pollutant emissions from an individual project to specific health effects in response to Friant Ranch. However, it has been demonstrated to be technically feasible to use existing regional models and an existing health effect modeling program to evaluate individual projects, which has been conducted for a few projects in 2019. The following CEQA documents included a quantitative HIA to address Friant Ranch:

1. California State University Dominguez Hills 2018 Campus Master Plan EIR (CSUDH MP) (Cal State University Dominguez Hills 2019)
2. March Joint Powers Association K4 Warehouse and Cactus Channel Improvements EIR (March JPA K4) (March JPA 2019)
3. Mineta San Jose Airport Amendment to the Airport Master Plan EIR (San Jose Airport) (City of San Jose 2019)
4. City of Inglewood Basketball and Entertainment Center Project EIR (IBEC) (City of Inglewood 2019)
5. San Diego State University Mission Valley Campus Master Plan EIR (SDSU) (San Diego State University 2019)

The first step in all of the five above listed examples including running a regional PGM, such as the Community Multiscale Air Quality (CMAQ)[6] model or the Comprehensive Air Quality Model with extensions (CAMx)[7] to estimate the increase in concentrations of O_3 and $PM_{2.5}$ as a result of project-generated emissions of criteria and precursor pollutants. Air districts, such as the SJVAPCD, use photochemical air quality models for regional air quality planning. These photochemical models are large-scale air quality models that simulate the changes of pollutant concentrations in the atmosphere using a set of mathematical equations characterizing the chemical and physical processes in the atmosphere (EPA 2017b).

After estimating the increase in concentrations of O_3 and $PM_{2.5}$, the second step in the five examples includes use of BenMAP or BenMAP-CE to estimate the resulting associated health effects. BenMAP estimates the number of health incidences resulting from changes in air pollution concentrations (EPA 2018e). The health impact function in BenMAP-CE incorporates four key sources of data: (i) modeled or monitored air quality changes, (ii) population, (iii) baseline incidence rates, and (iv) an effect estimate. While BenMAP can estimate the health effects of emissions of VOC, NO_x, CO, SO_2, and $PM_{2.5}$, O_3 and $PM_{2.5}$ were determined to have the most critical health impacts and thus, were the pollutants evaluated to determine the project's health effects in three of the five examples (i.e., CSUDH MP, March JPA K4, and San Jose Airport). The current version of BenMAP-CE only has health impact functions associated with O_3 and $PM_{2.5}$, which is why the example HIA using BenMAP-CE only quantitatively addressed O_3 and $PM_{2.5}$ related health outcomes. As such, all example HIAs focused on O_3 and $PM_{2.5}$.

BenMAP outputs include O_3- and PM-related health endpoints such as premature mortality, hospital admissions, and emergency room visits (City of San Jose 2019). BenMAP uses the following simplified formula to relate changes in ambient air pollution to certain health endpoints (City of San Jose 2019):

$$Health\ Effect = Air\ Quality\ Change \times Health\ Effect\ Estimate \times Exposed\ Population \times Background\ Health\ Incidence$$

Population characteristics are a key variable in the BenMAP estimate of health incidences. As such, small increases in emissions in an area with a high population may have a much greater affect than large increases in emissions over an area with a small population. While location and associated population is a key factor, making the five examples specific not only to the project-generated emissions, but also to the geographic location and underlying population estimates, the findings of the five examples are provided herein for context, particularly for the conclusions.

For the CSUDH MP, the proposed project retains the existing campus enrollment cap of 20,000 full-time-equivalent students, while providing a framework for development of the CSUDH's campus in a forward-looking manner that accommodates growth from the current enrollment of approximately 11,000 full-time-equivalent students to the maximum enrollment of 20,000 full-time-equivalent students over a planning horizon extending to 2035. The project is located within Los Angeles County within the SCAQMD jurisdictional boundaries (within the South Coast

[6] The CMAQ modeling system includes state-of-the-science capabilities for conducting urban-to-regional-to-hemispheric scale simulations of multiple air quality issues, including tropospheric O_3, fine particles, TACs, acid deposition, and visibility degradation. CMAQ brings together three kinds of models: (1) Meteorological models to represent atmospheric and weather activities, (2) Emission models to represent man-made and naturally-occurring contributions to the atmosphere, and (3) An air chemistry-transport model to predict the atmospheric fate of air pollutants under varying conditions (EPA 2018d).

[7] CAMx is a three-dimensional grid-based Eulerian air quality model designed to estimate the formation and fate of oxidant precursors, primary and secondary particulate matter concentrations, and deposition over regional and urban spatial scales (e.g., over the contiguous U.S.) (EPA 2015a).

Air Basin). For context, the maximum daily emissions of relevant pollutants generated by the CSUDH MP were estimated to be 482.6 pounds per day of VOC, 240.1 pounds per day of NO_x, 2.7 pounds per day of SO_2, and 79.5 pounds per day of $PM_{2.5}$.

The CSUDH MP presented HIA results in terms of an increase in health incidences and the increase in background health incidence for various health outcomes referred to as endpoints. The background health incidence is the actual incidence of health effects as measured in the local population in the absence of additional emissions from the project. (CSUDH 2019)

The two highest $PM_{2.5}$-related health outcomes attributed to the CSUDH MP project-related increases in ambient air concentrations included mortality (10.31 incidences per year, 0.0032% in background health incidence) and asthma-related emergency room visits (4.38 incidences per year, 0.0033% in background health incidence). The remaining health endpoints, including asthma-related hospital admissions, all cardiovascular-related hospital admissions (not including myocardial infarctions), all respiratory-related hospital admissions, and nonfatal acute myocardial infarction ranged from 0.00044 to 2.44 incidences per year (0.00047% to 0.0014% in background health incidence). (CSUDH 2019)

O_3-related health outcomes attributed to the CSDUDH project-related increases in ambient air concentrations included respiratory-related hospital admissions (0.67 incidences per year, 0.00034% in background health incidence), mortality (0.28 incidences per year, 0.00013% in background health incidence), and asthma-related emergency room visits for any age range (lower than 3.38 incidences per year for all age groups, lower than 0.0058% percent in background health incidence for all age groups). (CSUDH 2019)

The CSUDH MP HIA then concluded that "for all these health endpoints, the number of estimated incidences is less than 0.0058% of the background health incidence. … When taken into context, the small increase in incidences and the very small percent of the number of background incidences indicate that these health impacts are negligible in a developed, urban environment." (CSUDH 2019).

The March JPA K4 project is located within the SCAQMD jurisdictional boundaries (within the South Coast Air Basin), but within Riverside County. The proposed project involves the development of the five parcels on the 35.4-acre K4 Parcel with a 718,000-square-foot building conservatively assumed to be occupied by High-Cube ecommerce/fulfillment center use. The mitigated maximum daily operational emissions of relevant pollutants generated by the March JPA K4 were estimated to be 41.0 pounds per day of VOC, 253.0 pounds per day of NO_x, 1.4 pounds per day of SO_x, and 30.3 pounds per day of $PM_{2.5}$. The March HPA K4 HIA determined that, "for all these health endpoints, the number of estimated incidences is less than 0.0042% of the baseline number of incidences," and that "these health impacts are conservatively estimated, and the actual impacts may be zero." (March JPA 2019).

The SDSU project is located within the City of San Diego. The SDSU project proposes construction and operation of the SDSU Mission Valley campus, stadium, parks, recreation, and innovation area to accommodate up to 15,000 full-time-equivalent students over time, resulting in a total student headcount of approximately 20,000 students. The maximum daily emissions of relevant pollutants generated by SDSU were estimated to be 314.1 pounds per day of VOC, 1,120.7 pounds per day of NO_x, 6.5 pounds per day of SO_2, and 205.9 pounds per day of $PM_{2.5}$ (SDSU 2019).

The $PM_{2.5}$-related health outcomes attributed to the SDSU project-related increases in ambient air concentrations included mortality (8.97 incidences per year, 0.0026% in background health incidence) and asthma-related emergency room visits (5.29 incidences per year, 0.0040% in background health incidence). The remaining health endpoints,

including asthma-related hospital admissions, all cardiovascular-related hospital admissions (not including myocardial infarctions), all respiratory-related hospital admissions, and nonfatal acute myocardial infarction ranged from 0.00083 to 3.33 incidences per year (0.00223% to 0.00164% in background health incidence) (SDSU 2019)

O_3-related health outcomes attributed to the SDSU project-related increases in ambient air concentrations included respiratory-related hospital admissions (0.45 incidences per year, 0.0002% in background health incidence), mortality (0.21 incidences per year, 0.00010% in background health incidence), asthma-related emergency room visits for age groups 0-17 (1.73 incidences per year, 0.003% percent in background health incidence), and asthma-related emergency room visits for age groups 18-99 (2.02 incidences per year, 0.002% percent in background health incidence) (SDSU 2019)

The SDSU HIA found that "health effects estimation using the log-linear method presumes that effects seen at large concentration differences can be linearly scaled down to small increases in concentration, with no consideration of potential thresholds below which health effects may occur; thus, this potentially overstates the potential effects. In summary, health effects are conservatively estimated, and the actual effects may be zero." (SDSU 2019).

While the San Jose Airport project is not similar to the proposed project based on land use type, emissions profile, and geographical location, the results still provide a relevant data point. San Jose Airport is located in Santa Clara County within the Bay Area AQMD jurisdictional boundaries (within the San Francisco Bay Area Air Basin). The San Jose Airport project includes amending the approved 2018 Airport Master Plan to a) shift the planning horizon year from 2027 to 2037, b) modify future facility requirements at the airport to reflect updated demand forecasts, and c) modify certain components of the airfield to reduce to potential for runway incursions. (City of San Jose 2019). The estimated maximum daily incremental operational emissions of relevant pollutants generated by the San Jose Airport project were estimated to be -49.4 pounds per day of VOC, 5,325 pounds per day of NO_x, and 52 pounds per day of $PM_{2.5}$. However, the following emissions inventory was assumed for the HIA: 57.3 pounds per day of VOC, 5,643.0 pounds per day of NO_x, and 51.6 pounds per day of $PM_{2.5}$.

The San Jose Airport HIA estimated that the highest health endpoint from $PM_{2.5}$ was mortality at 4.46 incidences (0.0017% percent in background health incidence). All other $PM_{2\text{-}5}$-related health incidences ranged from 0.00022 to 1.89 (0.00027% to 0.0016% percent in background health incidence). For O_3-related health endpoints, the highest was emergency room visits for asthma, which was estimated to be 11.05 incidences (0.028% percent in background health incidence) for ages 0-17 and 14.59 incidences (0.019% percent in background health incidence) for ages 18-99 (City of San Jose 2019). Of the five examples discussed herein, the San Jose Airport resulted in the greatest O_3 incidences, which correlates with the estimated high emissions of ozone-precursors, specifically NO_x at 5,643 pounds per day. Nonetheless, the conclusion was that "when taken into context, the small increase in incidences and the very small percent of the number of background incidences indicate that these health impacts are negligible in a developed, urban environment." (City of San Jose 2019)

The IBEC project HIA provides another important data point for consideration. The IBEC project consists of an arena designed to host the LA Clippers basketball team with up to 18,000 fixed seals for National Basketball Association games and up to 500 additional temporary seats for events such as family shows, concerts, conventions, corporate events, and non-LA Clippers sporting events. The IBEC project is located within Los Angeles County within the jurisdictional boundaries of the SCAQMD (within the South Coast Air Basin). The IBEC EIR evaluated nine operational scenarios; across these multiple scenarios, the estimated maximum daily net increase in operational emissions of relevant pollutants was 94 pounds per day of VOC, 99 pounds per day of NO_x, 3 pounds per day of SO_x, and 89 pounds per day of $PM_{2.5}$.

The IBEC EIR analysis provided helpful context on using regional models for individual projects, as follows: "Generally, models that correlate criteria air pollutant concentrations with specific health effects focus on regulatory decision-making that will apply throughout an entire air basin or region. These models focus on the region-wide health effects of pollutants so that regulators can assess the costs and benefits of adopting a proposed regulation that applies to an entire category of air pollutant sources, rather than the health effects related to emissions from a specific proposed project or source. Because of the scale of these analyses, any one project is likely to have only very small incremental effects which may be difficult to differentiate from the effects of air pollutant concentrations in an entire air basin. … For regional pollutants, it is difficult to trace a particular project's criteria air pollutant emissions to a specific health effect. Moreover, the modeled results may be misleading because the margin of error in such modeling is large enough that, even if the modeled results report a given health effect, the model is sufficiently imprecise that the actual effect may differ from the reported results; that is, the modeled results suggest precision, when in fact available models cannot be that precise on a project level." (City of Inglewood 2019).

For O_3-related health endpoints, emergency room visits for asthma was estimated to be 0.087 incidence per year for all studied age groups combined, 0.016 incidence per year of respiratory-related hospital admissions, and less than 0.02 incidence per year of mortality; the amount of estimated incremental health effects incidence is less than 0.0001% of the baseline number of health effects incidences in the study area.

A key finding from the IBEC HIA was that the for $PM_{2.5}$-related health endpoints, due to the very small changes in ambient $PM_{2.5}$ concentrations as modeled by CMAQ, all of the estimated incremental health incidences were negative values. The IBEC HIA stated that this further confirms that the modeled $PM_{2.5}$ concentrations are within the model's margin of error, no meaningful conclusions can be reached on the specific health effects that may be caused by the proposed project O_3 precursor and $PM_{2.5}$ emissions, and health impacts may in fact be zero, and they would still be well within the models' margin of error (City of Inglewood 2019).

It is also important to note that while these results conclude that the project emissions do not result in a substantial increase in health incidences, the estimated emissions and assumed toxicity is also conservatively inputted into the HIA and thus, overestimate health incidences, particularly for $PM_{2.5}$. For example, as discussed in the San Jose Airport HIA, "the USEPA has also stated that results from various studies have shown the importance of considering particle size, composition, and particle source in determining the health impacts of PM. Further, USEPA found that studies have reported that particles from industrial sources and from coal combustion appear to be the most significant contributors to PM-related mortality, consistent with the findings by Rohr and Wyzga and others. This is particularly important to note here, as the majority of PM emissions generated from the Project are from entrained roadway dust, and not from combustion. Therefore, by not considering the relative toxicity of PM components, the results presented here are conservative." (City of San Jose 2019).

As explained in the SJVAPCD brief and noted previously, running the PGM used for predicting O_3 attainment with the emissions solely from an individual project like the Friant Ranch project or the proposed project is not likely to yield valid information given the relative scale involved. The five examples discussed herein support the SJVAPCD's brief contention that consistent, reliable, and meaningful results may not be provided by methods applied at this time. Accordingly, additional work in the industry and more importantly, air district participation, is needed to develop a more meaningful analysis to correlate project-level mass criteria air pollutant emissions and health effects for decision makers and the public. Furthermore, at the time of writing, no HIA has concluded that health effects estimated using the PGM and BenMAP approach are substantial provided that the estimated project-generated incidences represent a very small percent of the number of background incidences, potentially within the models' margin of error.

5 Evaluation of the Proposed Project's Health Effects

Based on the evaluation of methods available provided in Section 4, this evaluation does not attempt to quantify health effects, but builds upon the discussion provided in Sections 2 and 3 to disclose potential health effects associated with the proposed project. As explained in Section 2, the EPA and CARB have established AAQS at levels above which concentrations could be harmful to human health and welfare, with an adequate margin of safety. Further, California air districts (like SJVAPCD) have established emission-based thresholds that provide project-level estimates of criteria air pollutant quantities that air basins can accommodate without affecting the attainment dates for the AAQS. Accordingly, elevated levels of criteria air pollutants as a result of a proposed project's emissions could cause adverse health effects associated with these pollutants.

In this case, construction of the proposed project would not exceed SJVAPCD thresholds after mitigation is incorporated. Operation of the proposed project, however, would result in emissions that would exceed the SJVAPCD threshold for NO_x after mitigation is incorporated. As shown in Table 2 (Section 2), the SJVAB is designated as a nonattainment area for O_3 under the NAAQS and the CAAQS.

As discussed in Section 3, health effects associated with O_3 include respiratory symptoms, worsening of lung disease leading to premature death, and damage to lung tissue (CARB 2019h). VOCs and NO_x are precursors to O_3, for which the SJVAB is designated as nonattainment with respect to the NAAQS and CAAQS. The contribution of VOCs and NO_x to regional ambient O_3 concentrations is the result of complex photochemistry. The increases in O_3 concentrations in the SJVAB due to O_3 precursor emissions tend to be found downwind from the source location to allow time for the photochemical reactions to occur. However, the potential for exacerbating excessive O_3 concentrations would also depend on the time of year that the VOC emissions would occur because exceedances of the O_3 AAQS tend to occur between April and October when solar radiation is highest. The holistic effect of a single project's emissions of O_3 precursors is speculative because of the lack of quantitative methods to assess this impact. Nonetheless, because NO_x emissions associated with the proposed project's operation would exceed the SJVAPCD's significance threshold, it could minimally contribute to regional O_3 concentrations and the associated health effects.

Health effects associated with NO_x include lung irritation and enhanced allergic responses (see Section 3; CARB 2019h). Health impacts that result from NO_2 and NO_x include respiratory irritation. Although the proposed project operation would generate NO_x emissions that would exceed the SJVAPCD's significance threshold, the proposed project is not anticipated to contribute to exceedances of the NAAQS and CAAQS for NO_2 because the SJVAB is designated as in attainment of the NAAQS and CAAQS for NO_2 and the existing NO_2 concentrations in the area are well below the NAAQS and CAAQS standards. Nonetheless, because there are receptors in proximity to the proposed project's truck routes that could be affected by on-road vehicle exhaust, the proposed project could result in potential health effects associated with NO_2 and NO_x during operations.

Health effects associated with CO include chest pain in patients with heart disease, headache, light-headedness, and reduced mental alertness (See Section 3; CARB 2019h). CO tends to be a localized impact associated with congested intersections. The associated potential for CO hotspots were discussed in Section 4.1.4 Impacts Analysis, Threshold 3, and are determined to be a less-than-significant impact.

In summary, because operation of the proposed project could result in exceedances of the SJVAPCD significance threshold for NO_x, the proposed project would potentially result in health effects associated with the pollutant, as explained in Section 3. Because construction of the proposed project would not exceed SJVAPCD thresholds,

operation of the proposed project would not exceed the SJVAPCD thresholds for VOC, CO, SO_x, PM_{10}, and $PM_{2.5}$, and because the SJVAPCD thresholds are based on levels that the SJVAB can accommodate without affecting the attainment date for the AAQS and the AAQS are established to protect public health and welfare, the proposed project is not anticipated to result in health effects associated with VOC, CO, SO_x, PM_{10}, or $PM_{2.5}$. Notably, there are numerous scientific and technological complexities associated with correlating criteria air pollutant emissions from an individual project to specific health effects or potential additional nonattainment days, and methods available to quantitatively evaluate health effects may not be appropriate to apply to emissions associated with the proposed Project, which cannot be estimated with a high-level of accuracy.

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Appendix D

CO Hotspots Screening Evaluation

APPENDIX D
CO Hotspots Screening Evaluation

To verify that the project would not cause or contribute to a violation of the carbon monoxide (CO) standards, a screening evaluation of the potential for CO hotspots was conducted. The California Department of Transportation (Caltrans) and the U.C. Davis Institute of Transportation Studies *Transportation Project-Level Carbon Monoxide Protocol* (CO Protocol) (Caltrans 1997), and the SJVAPCD *Guidance for Assessing and Mitigating Air Quality Impacts* (GAMAQI; SJVAPCD 2015) were followed. CO hotspots are typically evaluated when (1) the level of service (LOS) of an intersection or roadway decreases to LOS E or worse, (2) signalization and/or channelization is added to an intersection, and (3) sensitive receptors such as residences, schools, and hospitals are located in the vicinity of the affected intersection or roadway segment.

According to the CO Protocol, there is a cap on the number of intersections that need to be analyzed for any one project. For a single project with multiple intersections, only the three intersections representing the worst LOS ratings of the project, and, to the extent they are different intersections, the three intersections representing the highest traffic volumes, need be analyzed. For each intersection failing a screening test as described in this protocol, an additional intersection should be analyzed (Caltrans 1997).

Table 1 shows a summary of the project's LOS for all 6 intersections evaluated.

Table 1
Project Intersection Analysis – Near-Term Conditions

Intersection	Control	Peak	Cumulative + Project
			LOS
1. Schulte Road and International Parkway	Signalized	AM	C
		PM	D
2. Hansen Road and Schulte Road	Signalized	AM	D
		PM	**F**
3. Schulte Road and Lammers Road	Signalized	AM	C
		PM	D
4. Valpico Road and Lammers Road	Signalized	AM	**F**
		PM	**F**
5. Valpico Road and Corral Hollow Road	Signalized	AM	D
		PM	**F**
6. Lammers Road and 11th Street	Signalized	AM	**F**
		PM	**F**

Notes: LOS = Level of Service.
Bold indicates a LOS of E or worse.

CALINE Inputs
14800 W. Schulte Road Logistics Center Project

Ambient Air Quality Data*

Pollutant	Averaging Time	2016	2017	2018	Most Stringent AQ Standard	Monitioring Station***
CO	1 hour	1.7	2.2	3	20	1593 East Hazelton Avenue, Stockton, California 95205

*Data was taken from EPA AirData (http://www.epa.gov/airdata/) and represent the highest concentrations experienced over a given year. Data is presented in parts per million.

** The 2018 CO concentration represents the highest concentration experienced from 2016 to 2018 at the Stockton monitoring station; therefore, this background concentration was used as the background concentration in the Caline4 models.

*** The Stock monitoring station is the nearest air-monitoring station to the project area.

		2016	2017	2018
CO	1 hour	1.7	2.2	3
		1.7	2.2	3
	8 hour	1.3	1.9	2.7
		1.3	1.9	2.7
	Ratios	0.76	0.86	0.90
		0.76	0.86	0.90
	Average	**0.84**		

CL4 Assumptions

Hansen Road and Schulte Road

Cumulative Plus Project Conditions (2022)

Job Parameters

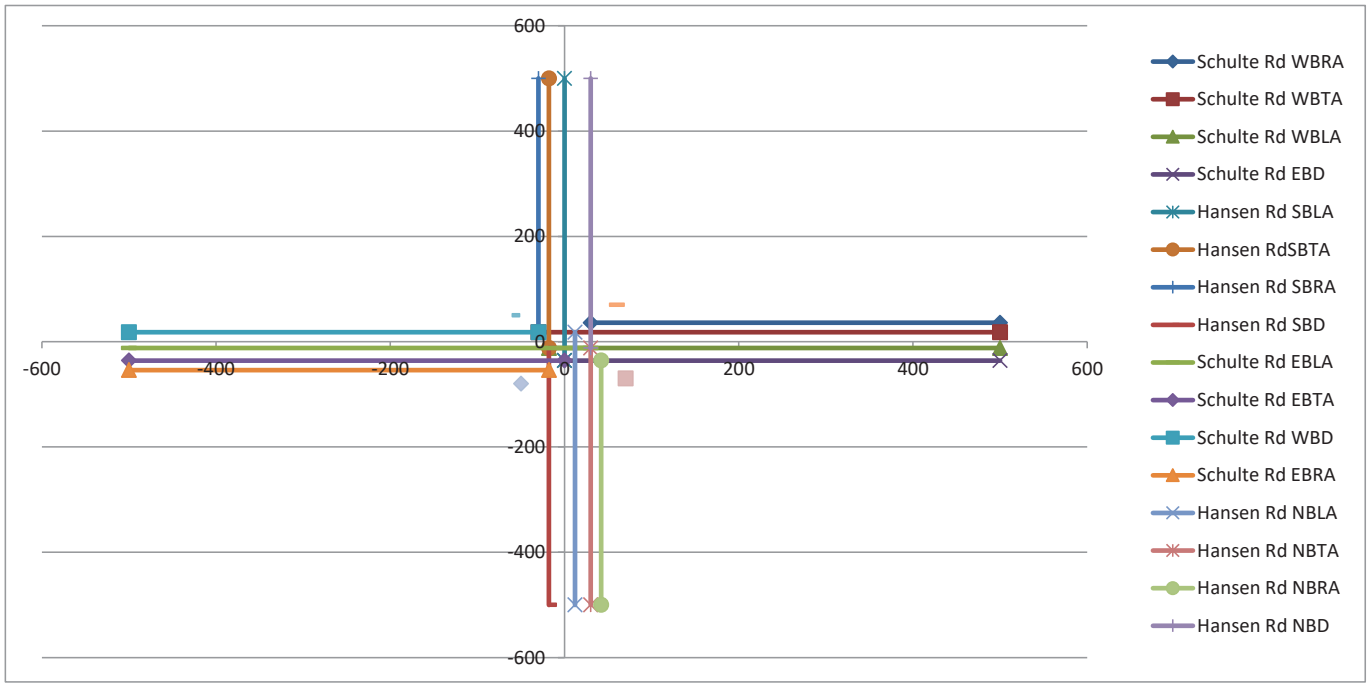
File Name	Hansen&Schulte	
Job	Schulte	
Run type	Worst-case wind angle	
Aerodynamic roughness coefficient	Rural	
Link/Receptor Geometry	feet	
Altitude above sea level (ft)		122
Number of links		16
Number of receptors		4
Averaging interval	1 hour	

Link geometry

Link name	link type	endpoint 1 coordinate x	endpoint 1 coordinate y	endpoint 2 coordinate x	endpoint 2 coordinate y	link height	mixing zone width
Schulte Rd WBRA	at-grade	500	36	30	36	0	33
Schulte Rd WBTA	at-grade	500	18	-30	18	0	33
Schulte Rd WBLA	at-grade	500	-12	-18	-12	0	33
Schulte Rd WBD	at-grade	-30	18	-500	18	0	33
Schulte Rd EBLA	at-grade	-500	-12	30	-12	0	33
Schulte Rd EBTA	at-grade	-500	-36	0	-36	0	33
Schulte Rd EBRA	at-grade	-500	-54	-18	-54	0	33
Schulte Rd EBD	at-grade	0	-36	500	-36	0	33
Hansen Rd NBLA	at-grade	12	-500	12	18	0	33
Hansen Rd NBTA	at-grade	30	-500	30	-12	0	33
Hansen Rd NBRA	at-grade	42	-500	42	-36	0	33
Hansen Rd NBD	at-grade	30	-12	30	500	0	33
Hansen Rd SBLA	at-grade	0	500	0	-36	0	33
Hansen RdSBTA	at-grade	-18	500	-18	-12	0	33
Hansen Rd SBRA	at-grade	-30	500	-30	18	0	33
Hansen Rd SBD	at-grade	-18	-12	-18	-500	0	33

Sensitive Recptors	x	y	z
SR1	-60	50	5.9
SR2	60	70	5.9
SR3	-50	-80	5.9
SR4	70	-70	5.9

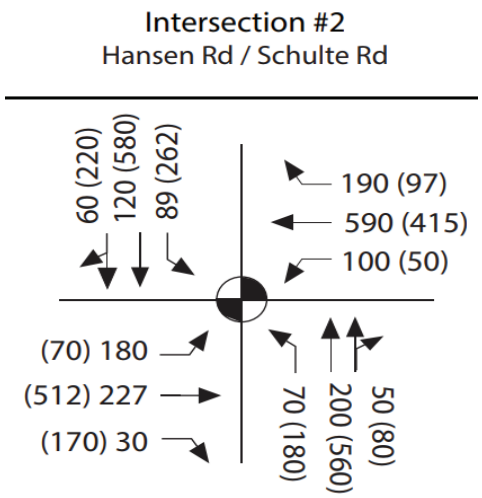
CALINE Inputs
Sunrise Project



CALINE Inputs
Sunrise Project

Link activity

Link/run	Traffic volume	Emission factor	
EBLA	70		2.4
EBTA	512		2.4
EBRA	170		2.4
EBD	854		2.4
WBLA	50		2.4
WBTA	415		2.4
WBRA	97		2.4
WBD	815		2.4
NBLA	180		2.4
NBTA	560		2.4
NBRA	80		2.4
NBD	727		2.4
SBLA	262		2.4
SBTA	580		2.4
SBRA	220		2.4
SBD	800		2.4
	3196		



CALINE Inputs
Sunrise Project

Run conditions

Run:	Hour 1		
Wind speed (m/s)	1		
Wind direction (degrees)	0		
Wind direction standard deviation (degrees)	10		
Atmospheric stability class (1-7)	7		
Mixing height (m)	1000 meters	SCAQMD 1993 CEQA Handbook	
Ambient temperature (degrees Celsius)	5.1		
Ambient pollutant concentration	3		

EMFAC Assumptions

Ambient temperature	44.4	F	6.9	C
Veh type, Veh tech	all, all			
Speed	5 mph			
Year	2022			

IV. Model Results Worst Case Wind Angle

	RECEPTOR		BRG (DEG)	PRED CONC (PPM)
1	Recpt	**SR1**	106	3.3
2	Recpt	**SR2**	195	3.3
3	Recpt	**SR3**	14	3.3
4	Recpt	**SR4**	342	3.3

	RECEPTOR		1-HOUR	8-HOUR
				Persistence Factor*
				0.84
1	Recpt	**SR1**	3.3	2.78
2	Recpt	**SR2**	3.3	2.78
3	Recpt	**SR3**	3.3	2.78
4	Recpt	**SR4**	3.3	2.78

* A persistence factor of 0.69 was used in the Air Quality Analysis
Persistance factor based on ratio of 10 highest 8-hour concentrations to the highest 1-hour concentrations based on SCAQMD 1993 CEQA Handbook.

CL4 Assumptions

Valpico Road and Corral Hallow Road
Cumulative Plus Project Conditions (2022)
Job Parameters

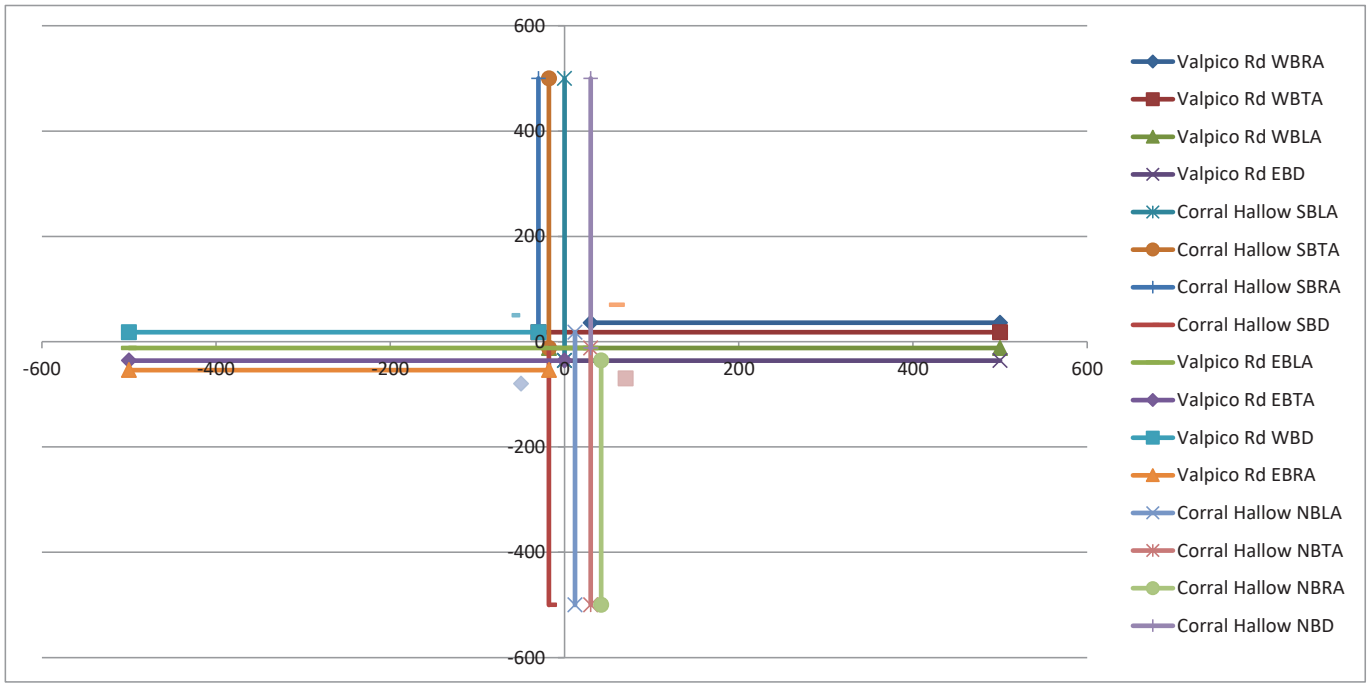
File Name	Valpico&Corral	
Job	Schulte	
Run type	Worst-case wind angle	
Aerodynamic roughness coefficient	Rural	
Link/Receptor Geometry	feet	
Altitude above sea level (ft)		122
Number of links		16
Number of receptors		4
Averaging interval	1 hour	

Link geometry

Link name	link type	endpoint 1 coordinate x	endpoint 1 coordinate y	endpoint 2 coordinate x	endpoint 2 coordinate y	link height	mixing zone width
Valpico Rd WBRA	at-grade	500	36	30	36	0	33
Valpico Rd WBTA	at-grade	500	18	-30	18	0	33
Valpico Rd WBLA	at-grade	500	-12	-18	-12	0	33
Valpico Rd WBD	at-grade	-30	18	-500	18	0	33
Valpico Rd EBLA	at-grade	-500	-12	30	-12	0	33
Valpico Rd EBTA	at-grade	-500	-36	0	-36	0	33
Valpico Rd EBRA	at-grade	-500	-54	-18	-54	0	33
Valpico Rd EBD	at-grade	0	-36	500	-36	0	33
Corral Hallow NBLA	at-grade	12	-500	12	18	0	33
Corral Hallow NBTA	at-grade	30	-500	30	-12	0	33
Corral Hallow NBRA	at-grade	42	-500	42	-36	0	33
Corral Hallow NBD	at-grade	30	-12	30	500	0	33
Corral Hallow SBLA	at-grade	0	500	0	-36	0	33
Corral Hallow SBTA	at-grade	-18	500	-18	-12	0	33
Corral Hallow SBRA	at-grade	-30	500	-30	18	0	33
Corral Hallow SBD	at-grade	-18	-12	-18	-500	0	33

Sensitive Recptors	x	y	z
SR1	-60	50	5.9
SR2	60	70	5.9
SR3	-50	-80	5.9
SR4	70	-70	5.9

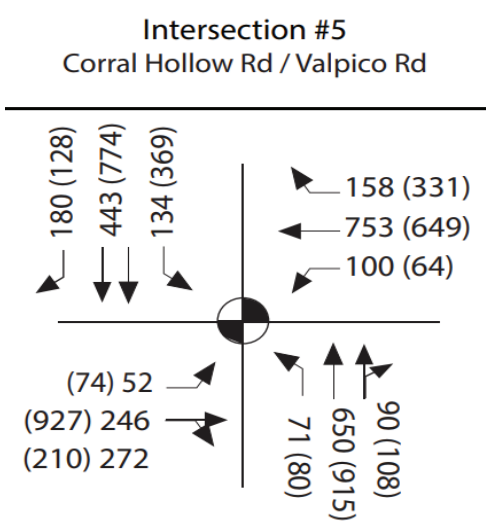
CALINE Inputs
Sunrise Project



CALINE Inputs
Sunrise Project

Link activity

Link/run	Traffic volume	Emission factor
EBLA	74	2.4
EBTA	927	2.4
EBRA	210	2.4
EBD	1404	2.4
WBLA	64	2.4
WBTA	649	2.4
WBRA	331	2.4
WBD	857	2.4
NBLA	80	2.4
NBTA	915	2.4
NBRA	108	2.4
NBD	1320	2.4
SBLA	369	2.4
SBTA	774	2.4
SBRA	128	2.4
SBD	1048	2.4
	4629	



CALINE Inputs
Sunrise Project

Run conditions

Run:	Hour 1		
Wind speed (m/s)		1	
Wind direction (degrees)		0	
Wind direction standard deviation (degrees)		10	
Atmospheric stability class (1-7)		7	
Mixing height (m)	1000 meters		SCAQMD 1993 CEQA Handbook
Ambient temperature (degrees Celsius)		5.1	
Ambient pollutant concentration		3	

EMFAC Assumptions

Ambient temperature	44.4	F	6.9	C
Veh type, Veh tech	all, all			
Speed	5 mph			
Year	2022			

IV. Model Results Worst Case Wind Angle

	RECEPTOR		BRG (DEG)	PRED CONC (PPM)
1	Recpt	**SR1**	105	3.4
2	Recpt	**SR2**	199	3.4
3	Recpt	**SR3**	15	3.4
4	Recpt	**SR4**	343	3.4

	RECEPTOR		1-HOUR	8-HOUR
				Persistence Factor*
				0.84
1	Recpt	**SR1**	3.4	2.87
2	Recpt	**SR2**	3.4	2.87
3	Recpt	**SR3**	3.4	2.87
4	Recpt	**SR4**	3.4	2.87

* A persistence factor of 0.69 was used in the Air Quality Analysis
Persistance factor based on ratio of 10 highest 8-hour concentrations to the highest 1-hour concentrations based on SCAQMD 1993 CEQA Handbook.

CL4 Assumptions

Lammers Road and 11th Street
Cumulative Plus Project Conditions (2022)
Job Parameters

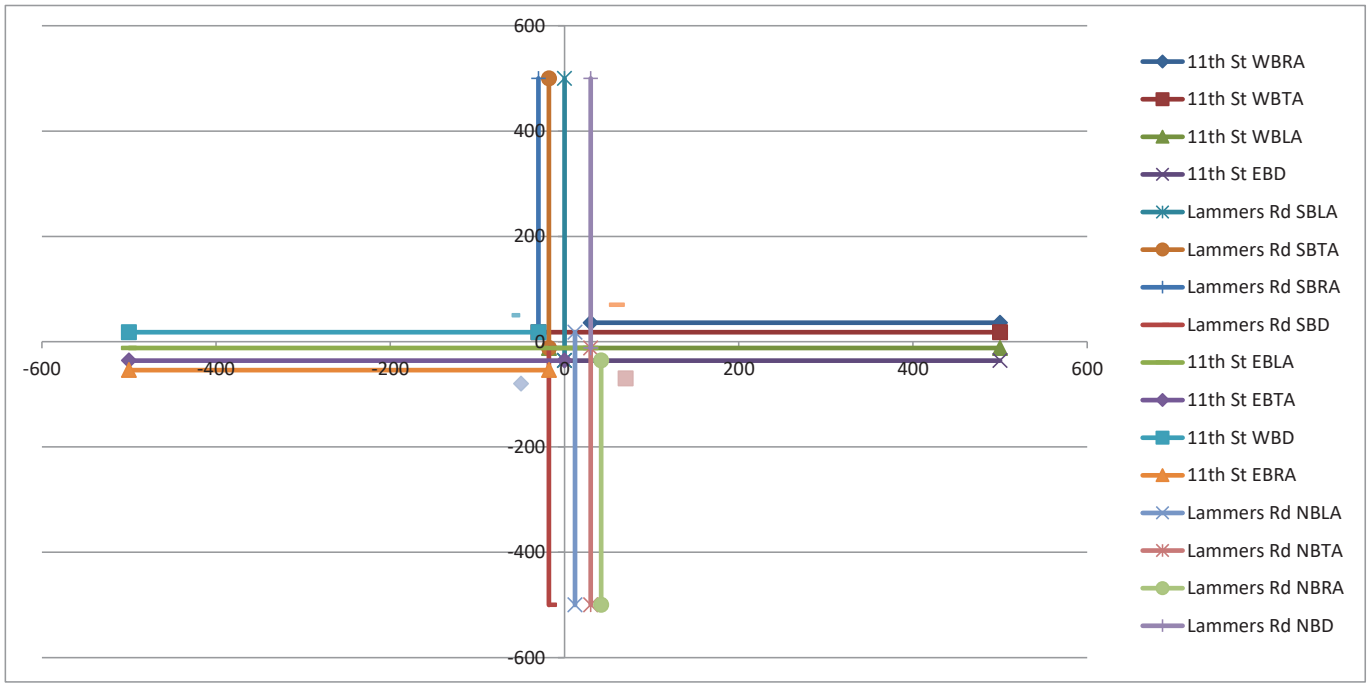
File Name	Lammers&11th	
Job	Schulte	
Run type	Worst-case wind angle	
Aerodynamic roughness coefficient	Rural	
Link/Receptor Geometry	feet	
Altitude above sea level (ft)		122
Number of links		16
Number of receptors		4
Averaging interval	1 hour	

Link geometry

Link name	link type	endpoint 1 coordinate x	endpoint 1 coordinate y	endpoint 2 coordinate x	endpoint 2 coordinate y	link height	mixing zone width
11th St WBRA	at-grade	500	36	30	36	0	33
11th St WBTA	at-grade	500	18	-30	18	0	33
11th St WBLA	at-grade	500	-12	-18	-12	0	33
11th St WBD	at-grade	-30	18	-500	18	0	33
11th St EBLA	at-grade	-500	-12	30	-12	0	33
11th St EBTA	at-grade	-500	-36	0	-36	0	33
11th St EBRA	at-grade	-500	-54	-18	-54	0	33
11th St EBD	at-grade	0	-36	500	-36	0	33
Lammers Rd NBLA	at-grade	12	-500	12	18	0	33
Lammers Rd NBTA	at-grade	30	-500	30	-12	0	33
Lammers Rd NBRA	at-grade	42	-500	42	-36	0	33
Lammers Rd NBD	at-grade	30	-12	30	500	0	33
Lammers Rd SBLA	at-grade	0	500	0	-36	0	33
Lammers Rd SBTA	at-grade	-18	500	-18	-12	0	33
Lammers Rd SBRA	at-grade	-30	500	-30	18	0	33
Lammers Rd SBD	at-grade	-18	-12	-18	-500	0	33

Sensitive Recptors	x	y	z
SR1	-60	50	5.9
SR2	60	70	5.9
SR3	-50	-80	5.9
SR4	70	-70	5.9

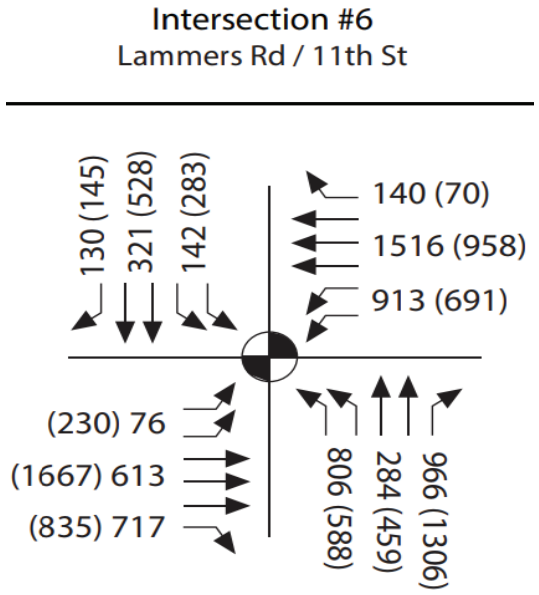
CALINE Inputs
Sunrise Project



CALINE Inputs
Sunrise Project

Link activity

Link/run	Traffic volume	Emission factor
EBLA	230	2.4
EBTA	1667	2.4
EBRA	835	2.4
EBD	3256	2.4
WBLA	691	2.4
WBTA	958	2.4
WBRA	70	2.4
WBD	1691	2.4
NBLA	588	2.4
NBTA	459	2.4
NBRA	1306	2.4
NBD	759	2.4
SBLA	283	2.4
SBTA	528	2.4
SBRA	145	2.4
SBD	2054	2.4
	7760	



CALINE Inputs
Sunrise Project

Run conditions

Run:	Hour 1		
Wind speed (m/s)		1	
Wind direction (degrees)		0	
Wind direction standard deviation (degrees)		10	
Atmospheric stability class (1-7)		7	
Mixing height (m)	1000 meters		SCAQMD 1993 CEQA Handbook
Ambient temperature (degrees Celsius)		5.1	
Ambient pollutant concentration		3	

EMFAC Assumptions

Ambient temperature	44.4	F	6.9	C
Veh type, Veh tech	all, all			
Speed	5 mph			
Year	2022			

IV. Model Results Worst Case Wind Angle

	RECEPTOR		BRG (DEG)	PRED CONC (PPM)
1	Recpt	**SR1**	161	3.7
2	Recpt	**SR2**	193	3.6
3	Recpt	**SR3**	72	3.6
4	Recpt	**SR4**	296	3.7

	RECEPTOR		1-HOUR	8-HOUR
				Persistence Factor*
				0.84
1	Recpt	**SR1**	3.7	3.12
2	Recpt	**SR2**	3.6	3.03
3	Recpt	**SR3**	3.6	3.03
4	Recpt	**SR4**	3.7	3.12

* A persistence factor of 0.69 was used in the Air Quality Analysis
Persistance factor based on ratio of 10 highest 8-hour concentrations to the highest 1-hour concentrations based on SCAQMD 1993 CEQA Handbook.

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION

JOB: Hansen&Schulte
RUN: STANDARD RUN (WORST CASE ANGLE)
POLLUTANT: CO

I. SITE VARIABLES

U=	1.0 M/S	Z0=	10. CM	ALT=	37.2 (M)
BRG=	WORST CASE	VD=	0.0 CM/S		
CLAS=	7 (G)	VS=	0.0 CM/S		
MIXH=	1000. M	AMB=	3.0 PPM		
SIGTH=	10. DEGREES	TEMP=	5.1 DEGREE (C)		

II. LINK VARIABLES

LINK DESCRIPTION	LINK COORDINATES (FT) X1	Y1	X2	Y2	TYPE	VPH	EF (G/MI)	H (FT)	W (FT)
A. Schulte Rd W	500	36	30	36	AG	70	2.4	0.0	33.0
B. Schulte Rd W	500	18	-30	18	AG	512	2.4	0.0	33.0
C. Schulte Rd W	500	-12	-18	-12	AG	170	2.4	0.0	33.0
D. Schulte Rd W	-30	18	-500	18	AG	854	2.4	0.0	33.0
E. Schulte Rd E	-500	-12	30	-12	AG	50	2.4	0.0	33.0
F. Schulte Rd E	-500	-36	0	-36	AG	415	2.4	0.0	33.0
G. Schulte Rd E	-500	-54	-18	-54	AG	97	2.4	0.0	33.0
H. Schulte Rd E	0	-36	500	-36	AG	815	2.4	0.0	33.0
I. Hansen Rd NB	12	-500	12	18	AG	180	2.4	0.0	33.0
J. Hansen Rd NB	30	-500	30	-12	AG	560	2.4	0.0	33.0
K. Hansen Rd NB	42	-500	42	-36	AG	80	2.4	0.0	33.0
L. Hansen Rd NB	30	-12	30	500	AG	727	2.4	0.0	33.0
M. Hansen Rd SB	0	500	0	-36	AG	262	2.4	0.0	33.0
N. Hansen RdSBT	-18	500	-18	-12	AG	580	2.4	0.0	33.0
O. Hansen Rd SB	-30	500	-30	18	AG	220	2.4	0.0	33.0
P. Hansen Rd SB	-18	-12	-18	-500	AG	800	2.4	0.0	33.0

III. RECEPTOR LOCATIONS

RECEPTOR	COORDINATES (FT) X	Y	Z
1. SR1	-60	50	5.9
2. SR2	60	70	5.9
3. SR3	-50	-80	5.9

4. SR4	*	70	-70	5.9

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JOB: Hansen&Schulte
RUN: STANDARD RUN (WORST CASE ANGLE)
POLLUTANT: CO

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	BRG (DEG)	PRED CONC (PPM)	CONC/LINK (PPM) A	B	C	D	E	F	G	H
1. SR1	106.	3.3	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1
2. SR2	195.	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3. SR3	14.	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4. SR4	342.	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1

RECEPTOR	CONC/LINK (PPM) I	J	K	L	M	N	O	P
1. SR1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2. SR2	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1
3. SR3	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0
4. SR4	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0

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CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION

JOB: Lammers&11th
RUN: STANDARD RUN (WORST CASE ANGLE)
POLLUTANT: CO

I. SITE VARIABLES

U=	1.0 M/S	Z0=	10. CM	ALT=	37.2 (M)
BRG=	WORST CASE	VD=	0.0 CM/S		
CLAS=	7 (G)	VS=	0.0 CM/S		
MIXH=	1000. M	AMB=	3.0 PPM		
SIGTH=	10. DEGREES	TEMP=	5.1 DEGREE (C)		

II. LINK VARIABLES

LINK DESCRIPTION	LINK COORDINATES (FT) X1	Y1	X2	Y2	TYPE	VPH	EF (G/MI)	H (FT)	W (FT)
A. 11th St WBRA	500	36	30	36	AG	230	2.4	0.0	33.0
B. 11th St WBTA	500	18	-30	18	AG	1667	2.4	0.0	33.0
C. 11th St WBLA	500	-12	-18	-12	AG	835	2.4	0.0	33.0
D. 11th St WBD	-30	18	-500	18	AG	3256	2.4	0.0	33.0
E. 11th St EBLA	-500	-12	30	-12	AG	691	2.4	0.0	33.0
F. 11th St EBTA	-500	-36	0	-36	AG	958	2.4	0.0	33.0
G. 11th St EBRA	-500	-54	-18	-54	AG	70	2.4	0.0	33.0
H. 11th St EBD	0	-36	500	-36	AG	1691	2.4	0.0	33.0
I. Lammers Rd N	12	-500	12	18	AG	588	2.4	0.0	33.0
J. Lammers Rd N	30	-500	30	-12	AG	459	2.4	0.0	33.0
K. Lammers Rd N	42	-500	42	-36	AG	1306	2.4	0.0	33.0
L. Lammers Rd N	30	-12	30	500	AG	759	2.4	0.0	33.0
M. Lammers Rd S	0	500	0	-36	AG	283	2.4	0.0	33.0
N. Lammers Rd S	-18	500	-18	-12	AG	528	2.4	0.0	33.0
O. Lammers Rd S	-30	500	-30	18	AG	145	2.4	0.0	33.0
P. Lammers Rd S	-18	-12	-18	-500	AG	2054	2.4	0.0	33.0

III. RECEPTOR LOCATIONS

RECEPTOR	COORDINATES (FT) X	Y	Z
1. SR1	-60	50	5.9
2. SR2	60	70	5.9
3. SR3	-50	-80	5.9

4. SR4	*	70	-70	5.9

JOB: Lammers&11th
RUN: STANDARD RUN (WORST CASE ANGLE)
POLLUTANT: CO

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	BRG (DEG)	PRED CONC (PPM)	CONC/LINK (PPM) A	B	C	D	E	F	G	H
1. SR1	161.	3.7	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0
2. SR2	193.	3.6	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1
3. SR3	72.	3.6	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.2
4. SR4	296.	3.7	0.0	0.0	0.0	0.2	0.1	0.1	0.0	0.1

RECEPTOR	CONC/LINK (PPM) I	J	K	L	M	N	O	P
1. SR1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.2
2. SR2	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.1
3. SR3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
4. SR4	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION

JOB: Valpico&Corral
RUN: STANDARD RUN (WORST CASE ANGLE)
POLLUTANT: CO

I. SITE VARIABLES

U=	1.0 M/S	Z0=	10. CM	ALT=	37.2 (M)
BRG=	WORST CASE	VD=	0.0 CM/S		
CLAS=	7 (G)	VS=	0.0 CM/S		
MIXH=	1000. M	AMB=	3.0 PPM		
SIGTH=	10. DEGREES	TEMP=	5.1 DEGREE (C)		

II. LINK VARIABLES

LINK DESCRIPTION	LINK COORDINATES (FT) X1	Y1	X2	Y2	TYPE	VPH	EF (G/MI)	H (FT)	W (FT)
A. Valpico Rd W	500	36	30	36	AG	74	2.4	0.0	33.0
B. Valpico Rd W	500	18	-30	18	AG	927	2.4	0.0	33.0
C. Valpico Rd W	500	-12	-18	-12	AG	210	2.4	0.0	33.0
D. Valpico Rd W	-30	18	-500	18	AG	1404	2.4	0.0	33.0
E. Valpico Rd E	-500	-12	30	-12	AG	64	2.4	0.0	33.0
F. Valpico Rd E	-500	-36	0	-36	AG	649	2.4	0.0	33.0
G. Valpico Rd E	-500	-54	-18	-54	AG	331	2.4	0.0	33.0
H. Valpico Rd E	0	-36	500	-36	AG	857	2.4	0.0	33.0
I. Corral Hallo	12	-500	12	18	AG	80	2.4	0.0	33.0
J. Corral Hallo	30	-500	30	-12	AG	915	2.4	0.0	33.0
K. Corral Hallo	42	-500	42	-36	AG	108	2.4	0.0	33.0
L. Corral Hallo	30	-12	30	500	AG	1320	2.4	0.0	33.0
M. Corral Hallo	0	500	0	-36	AG	369	2.4	0.0	33.0
N. Corral Hallo	-18	500	-18	-12	AG	774	2.4	0.0	33.0
O. Corral Hallo	-30	500	-30	18	AG	128	2.4	0.0	33.0
P. Corral Hallo	-18	-12	-18	-500	AG	1048	2.4	0.0	33.0

III. RECEPTOR LOCATIONS

RECEPTOR	COORDINATES (FT) X	Y	Z
1. SR1	-60	50	5.9
2. SR2	60	70	5.9
3. SR3	-50	-80	5.9

4. SR4	*	70	-70	5.9

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JOB: Valpico&Corral
RUN: STANDARD RUN (WORST CASE ANGLE)
POLLUTANT: CO

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	BRG (DEG)	PRED CONC (PPM)	CONC/LINK (PPM) A	B	C	D	E	F	G	H
1. SR1	105.	3.4	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1
2. SR2	199.	3.4	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
3. SR3	15.	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4. SR4	343.	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1

RECEPTOR	CONC/LINK (PPM) I	J	K	L	M	N	O	P
1. SR1	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0
2. SR2	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.1
3. SR3	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0
4. SR4	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0

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