Initial Study/Mitigated Negative Declaration

Spane Park Stormwater Capture Project

JULY 2023

Prepared for:

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Acronyms and Abbreviations

Acronym/Abbreviation	Definition
AB	Assembly Bill
AERMOD	American Meteorological Society/Environmental Protection Agency Regulatory Model
AQMP	air quality management plan
BMP	best management practice
CAAQS	California Ambient Air Quality Standards
CalEEMod	California Emissions Estimator Model
CAP	climate action plan
CARB	California Air Resources Board
CDFW	California Department of Fish and Wildlife
CEQA	California Environmental Quality Act
CFC	California Fire Code
CH_4	methane
CHRIS	California Historical Resources Information System
City	City of Paramount
CO	carbon monoxide
CO_2	carbon dioxide
CO_2e	carbon dioxide equivalent
CRHR	California Register of Historic Resources
dBA	A-weighted decibel
DPM	diesel particulate matter
FTA	Federal Transit Administration
GHG	greenhouse gas
GWP	global warming potential
HARP2	Hotspots Analysis and Reporting Program Version 2
HRA	health risk assessment
ips	inches per second
IS	initial study
LACM	Natural History Museum of Los Angeles County
L_{eq}	equivalent noise level over a given period
LLAR	Lower Los Angeles River
LST	localized significance threshold
MM	Mitigation Measure
MND	mitigated negative declaration
MT	metric tons
N_2O	nitrous oxide
NAAQS	National Ambient Air Quality Standards
NAHC	Native American Heritage Commission
NO_2	nitrogen dioxide
NO_x	oxides of nitrogen
O_3	ozone

Acronym/Abbreviation	Definition
OEHHA	Office of Environmental Health Hazard Assessment
OPR	Governor's Office of Planning and Research
PM_{10}	particulate matter with an aerodynamic diameter equal to or less than 10 microns
$PM_{2.5}$	particulate matter with an aerodynamic diameter equal to or less than 2.5 microns
ppm	parts per million
PPV	peak particle velocity
PRC	California Public Resources Code
RTP	Regional Transportation Plan
SB	Senate Bill
SCAB	South Coast Air Basin
SCAG	Southern California Association of Governments
SCAQMD	South Coast Air Quality Management District
SCCIC	South Central Coastal Information Center
SCS	Sustainable Communities Strategy
SLF	Sacred Lands File
SR	State Route
SWPPP	stormwater pollution prevention plan
SWRCB	State Water Resources Control Board
TAC	toxic air contaminant
TCR	tribal cultural resource
USFWS	U.S. Fish and Wildlife Service
VMT	vehicle miles traveled
VOC	volatile organic compound
WMP	Watershed Management Program

1 Introduction

The City of Paramount (City) has prepared this mitigated negative declaration (MND) to assess and disclose the potential impacts on the environment of the Spane Park Stormwater Capture Project (project) pursuant to the California Environmental Quality Act (CEQA) (California Public Resources Code [PRC] Section 21000, et. seq). This section of the MND provides information on project background, explains the project's purpose and need, and describes the City's CEQA obligations associated with approving and implementing the project.

1.1 Project Background and Overview

The Lower Los Angeles River (LLAR) Watershed Management Program (WMP) Group identified a suite of watershed control measures and structural best management practices (BMPs) to address the water quality objectives within the LLAR watershed. The WMP Group is a collaborative effort of 10 participating agencies[1] with Municipal Separate Storm Sewer System facilities within the subwatersheds of Reach 1 and Reach 2 of the Los Angeles River, Compton Creek, and Rio Hondo. The WMP was developed to implement the requirements of Los Angeles Regional Water Quality Control Board Order Nos. R4-2012-0175 and R4-2014-0024 (National Pollutant Discharge Elimination System Permit Nos. CA004001 and CA004003, respectively) on a watershed scale. In addition, elements of this WMP relating to Total Maximum Daily Loads address requirements of California State Water Resources Control Board (SWRCB) Order No. 2012-0011-DWQ (the California Department of Transportation Stormwater Permit) for those Total Maximum Daily Loads within the watershed area. Potential sites for targeted control measures were identified in the WMP and recommended by the LLAR WMP Group for further evaluation and potential implementation to meet compliance for the watershed.

Spane Park is an active recreational facility maintained by the City (additional information regarding Spane Park is provided in Section 2.1). The park is located within the Los Angeles River Reach 2 subwatershed. Spane Park sits at the bottom of a 1,338-acre drainage area (including jurisdictions of the Cities of Paramount, Downey, and South Gate) consisting of residential, commercial, industrial, and transportation land uses. Stormwater runoff is conveyed through the storm drain network to the project site in Rosecrans Avenue. The drainage area encompasses various jurisdictions, providing benefit to multiple watershed partners.

The project would divert and capture stormwater runoff into a subterranean concrete storage basin proposed beneath the park's turf multi-use field, where it would be treated. Prior to flow into the subsurface storage container, runoff would be directed through a pre-treatment device that would remove trash, sediments, and solids present in the runoff. Stormwater would infiltrate beneath the basin, allowing physical filtration into permeable earth materials, where it would help recharge groundwater. An outflow pipe and filtration pump unit would be installed to accommodate water during periods of heavy storm flow when the reservoir fills to its capacity, treating the water before discharging it into the existing storm drain system in Rosecrans Avenue. This project has the potential to offer runoff storage and water quality benefits for these jurisdictions and can address the additional needs for stormwater management identified to achieve compliance in the WMP.

In addition to the proposed stormwater capture and filtration facility, the City also intends to implement other park improvements as part of this project to benefit community members and the environment. These improvements

[1] The LLAR WMP Group is comprised of 10 participating agencies, including the Cities of Signal Hill, Downey, Lakewood, Long Beach, Lynwood, Paramount, Pico Rivera, and South Gate, the Los Angeles County Flood Control District, and the California Department of Transportation.

include installing a soccer field, replacing the basketball courts and restroom building, reconstructing the parking lot, revitalizing of the pond and stream, and other ancillary improvements. Additional information on park improvements is provided in Section 2.2.

The City is implementing the project in their capacity as a Municipal Separate Storm Sewer System permittee and member of the WMP, and would be responsible for operating and maintaining the project facilities. The City has initiated the design process and intends to issue a construction contract for project implementation subject to approval by the City Council, which would be considered a discretionary action of the City subject to CEQA compliance.

1.2 Purpose and Need

The project's purpose is to decrease the amount of pollutants in stormwater and dry-weather runoff entering the Los Angeles River. The LLAR WMP Group has identified a need for watershed control measures and structural BMPs to address water quality objectives within the watershed. The City's objectives in implementing the project are as follows:

- Improve the water quality within the Los Angeles River
- Restore and rehabilitate park facilities and install a dedicated soccer field
- Educate the public on the local stormwater issues

1.3 California Environmental Quality Act Compliance

1.3.1 Authority to Prepare an MND

Approval by the City Council to award a construction contract to build the project constitutes a discretionary action that triggers environmental review requirements pursuant to CEQA, with the City serving as lead agency. The City prepared a CEQA initial study (IS) to analyze and consider the environmental impacts of implementing the project, which is included as Chapter 3 of this document. Based on the results of the IS, the City determined that an MND is the appropriate environmental document for compliance with CEQA. As stated in Section 21064 of the CEQA statute, an MND may be prepared for a project subject to CEQA when an IS has identified no potentially significant effects on the environment when mitigation is identified that can reduce impacts to less-than-significant levels.

1.3.2 Public Review and Final MND Process

The City is making the MND available for public review and comment pursuant to Section 15073 of the State CEQA Guidelines. A copy of the MND and related documents are available for review on the City's website (https://www.paramountcity.com). The City has identified a 20-day review and comment period for the MND commencing July 21, 2023, and terminating August 9, 2023.

Comments on the MND may be submitted to the City in writing before the end of the public review period. In reviewing and commenting on the MND, interested public agencies and members of the public should focus on the adequacy of the document in identifying and analyzing the project's potential impacts on the environment. Written

comments on the IS/MND will be accepted in hard copy or email format, and should be received at the following street address or email address by 5:00 p.m., August 9, 2023:

City of Paramount
16400 Colorado Avenue
Paramount, California 90723
Contact: John Carver
Email: JCarver@paramountcity.com

Following the close of the public comment period, City staff will review all comments and may revise the MND if necessary to clarify the document's content. City staff will then prepare a final MND that includes all comment letters received during the public review period and send the final MND to the City Council for adoption and consideration in their decision to approve the project.

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2 Project Description

2.1 Project Location and Environmental Setting

The project is located on the western side of the City, which is within the southern portion of Los Angeles County, as shown in Figure 1, Project Location. The project site covers the majority of Spane Park, an active recreation facility maintained by the City. The park is in a developed area of the City that features a mixture of residential, industrial, commercial, and public uses. The park is bounded by Rosecrans Avenue to the north, an industrial warehouse to the east, Gundry Avenue to the west, and Los Cerritos Elementary to the south. Interstate 105 runs west–east approximately 0.5 miles north of the site, and Interstate 710 runs north–south approximately 0.5 miles west of the site, with a concrete-lined section of the Los Angeles River flowing north–south just east of Interstate 710. An electrical utility easement oriented in a north–south direction is located approximately 250 feet east of the site, on the other side of the abutting warehouse property. The site is designated as Park in the City General Plan Land Use Map, with other General Plan designations in the vicinity of the site including School, Industrial, Commercial, and Utility/Easement (City of Paramount 2022).

Spane Park is approximately 4.2 acres. As shown in Figure 2, Project Site and Existing Features, it features a turf multi-use field, two half-court basketball courts, a children's playground, a restroom building, and a community center building. The park also features an artificial pond at the southern end, fed by a meandering artificial channel. There are paved walking paths, benches, and a picnic area. A paved parking lot with 15 parking stalls and ornamental landscaping with mature trees is located along the western side of the park, adjacent to Gundry Avenue. An irrigation system with underground pipes and sprinkler heads is in place throughout the park.

2.2 Project Characteristics

The project entails constructing and operating a stormwater capture and filtration facility within the central portion of the park, as well as other ancillary park improvements. The stormwater capture and filtration facility would intercept stormwater and dry-weather flow from a storm drain channel and convey flows into an underground reservoir beneath the proposed soccer field for infiltration into the groundwater basin. An outflow pipe would be installed to convey excess water from the reservoir during heavy storms when all the water is not able to infiltrate. The water would pass through a filtration system before discharging back into the existing storm drain channel. Additional detail on the various project features, which are shown in Figure 3, Proposed Stormwater Capture and Treatment System, and Figure 4, Proposed Park Improvements, is provided below.

2.2.1 Diversion Structure and Stormwater Pretreatment Device

A 20 cubic feet per second diversion concrete structure with manhole access would be constructed within Rosecrans Avenue just north of Spane Park. The diversion structure would connect to the existing 10.5- by 6.5-foot storm drain within Rosecrans Avenue maintained by the Los Angeles County Flood Control District. This would divert stormwater by gravity from the storm drain to the pretreatment device and eventually the subsurface storage reservoir. The diversion structure would be approximately 10.5 feet wide and 3 feet long.

The pretreatment device would remove sediment, trash, and debris to prevent them from entering the storage reservoir and compromising its performance, which will reduce maintenance frequency and extend the system's

lifespan. The pretreatment system would be a hydrodynamic separator located to the south of the diversion structure, within Spane Park. A typical hydrodynamic separator directs water through a screen to filter out large debris and into a cylindrical separation chamber where water swirls and forces particles out of the runoff, settling them in an isolated sump. Hydrocarbons float to the top of the water surface and are prevented from being transported downstream.

2.2.2 Storage Reservoir and Infiltration Gallery

After pretreatment, water would continue into an underground storage reservoir that would be installed as part of the project beneath the proposed soccer field (refer to Section 2.2.4). The storage reservoir would have a capacity of 8.5 acre-feet, with an approximate 0.8-acre footprint. The field surface would be removed and earth material would be excavated, removed, and hauled off site for reuse or disposal. Excavation is anticipated to be approximately 20 feet deep. The storage reservoir would be a precast concrete storage system made with reinforced high-strength concrete. Once the system is installed and tested, the project team would install the proposed soccer field and park improvements, and use of the park would resume similar to existing conditions (see Section 2.2.4).

A geotechnical evaluation of the project site concluded that soils beneath Spane Park are suitable to support the project. The reservoir will be designed to facilitate infiltration of captured stormwater, allowing water to seep into the underlying aquifer and providing natural filtration through the soil. To reduce the size of the reservoir and maximize treatment capacity, the system would not be designed to handle all captured storm flows solely through infiltration; during periods of heavy flow, some water would be pumped out of the basin and filtered for discharge back into the storm drain, as described below in Section 2.2.3.

2.2.3 Discharge System and Treatment

During smaller storm events, stormwater collected by the system is anticipated to infiltrate into the soils beneath the storage reservoir and infiltration gallery.

During larger storm events, a proposed electric pump would carry stormwater into a filtration system to provide additional pollutant removal prior to discharging back into the existing storm drain channel in Rosecrans Avenue. When the water level in the reservoir reaches a predetermined elevation during heavy storm flow, the proposed pump would lift the excess water from the storage reservoir to a filter unit on the northern side of the reservoir. The pump would be placed in an underground concrete vault approximately 28 feet beneath the ground surface. A sampling manhole would be located between the discharge filtration unit and the outlet junction to the existing storm drain. Other components of the discharge treatment include a flow meter and a check valve structure to prevent backflow into the system, located below the ground surface within the proposed habitat planting area (see Section 2.2.4).

The proposed pump would also divert a portion of the captured stormwater through a proposed pipe running south and feeding water to the revitalized on-site stream that ultimately drains into the on-site pond (see Section 2.2.4).

2.2.4 Other Stormwater Capture

The project includes 24-inch drop inlets within the proposed reconstructed parking lot and western portion of the storage reservoir to collect surface storm flows within the park and carry water into the infiltration system. These drop inlets would connect to the storage reservoir via new 12-inch reinforced concrete pipe.

2.2.5 Park Improvements

The project includes the following improvements to Spane Park, in addition to the stormwater capture and filtration infrastructure described above, as shown in Figure 4. The existing Learning Center building, parking area in the northwest corner of Spane Park, and playground would remain in place.

Soccer Field

The project would remove and replace the existing multi-use field and install a new youth soccer field with new turf grass over the proposed storage reservoir. The proposed soccer field would be approximately 175 by 120 feet.

Basketball Court

The project would remove and replace the two existing concrete half-court basketball courts with a single new concrete full basketball court. The proposed basketball court would be located to the west of the proposed soccer field.

Exercise Area

To the north of the proposed basketball court and west of the proposed soccer field, a new exercise area with several fitness stations would be installed.

New Restroom Building

The project would remove and replace the existing restroom building with a new restroom building of similar size, providing the same number of restroom facilities as the existing structure. The proposed restroom building would be located south of the proposed basketball court and reconstructed parking lot.

Parking Lot Reconstruction

The existing 15-stall (including one Americans with Disabilities Act [ADA] compliant stall) parking lot would be reconstructed to provide 35 stalls (including four ADA-compliant stalls and two electric vehicle charging stalls). The reconstructed parking lot would be located in the same location as the existing parking lot, but would extend east into the area occupied by the existing basketball courts (to be demolished).

Habitat Garden

The project includes an approximately 5,200-square-foot habitat garden located in the northwestern portion of Spane Park, above the proposed underground discharge system. The habitat planting area would be planted with native species; the planting palette would be determined as project design progresses and preliminarily includes narrowleaf milkweed (*Asclepias fascicularis*), sticky monkeyflower (*Mimulus aurantiacus*), coyote mint (*Monardella villosa*), hummingbird sage (*Salvia spathacea*), and woolly bluecurls (*Trichostema lanatum*).

Pond and Stream Revitalization

The existing artificial pond and stream located at the southern portion of the project site would be improved through planting with native plant species, including dwarf umbrella plant (*Schefflera arboricola*), striped sweet flag (*Acorus calamus 'Variegatus'*), and water pennywort (*Hydrocotyle verticillate*). The planting palette would be determined as project design progresses. The existing pond pump station would be removed. The existing concrete

walkway would be removed and replaced with a new concrete walkway, including two small bridge structures. The existing wooden deck would be removed and replaced in kind. The stream alignment would be reconfigured and shortened, but would be located in the same area to the east of the pond. The stream would be lined with rocks and include two waterfalls to help aerate the water and provide an aesthetic element. The pond would retain its existing size, but with wetland cells added along the edges to encourage ecosystem development. The existing shotcrete pond edges would be removed and replaced with rocks and planting beds to provide a more natural pond appearance and a barrier between the sidewalk and the pond. Additionally, an overflow pipe comprised of 12-inch reinforced concrete would be installed on the northern boundary of the pond to carry water back to the storage reservoir and prevent the pond from overflowing during heavy storms.

Tree Removal and Replacement

Most of the existing trees within Spane Park would be unaffected by construction of the proposed project. However, approximately 24 existing trees would be removed. As part of the project's park improvements, the City will plant approximately 88 trees within Spane Park. Additional shrubs and turf ground cover would be installed throughout the park.

Ancillary Park Improvements

The project would include various other improvements throughout Spane Park, including the following:

- New picnic tables and benches would be installed in the northern and central portion of the park.
- New shade structures would be installed over the playground and seating areas in the central portion of the park.
- The majority of the existing concrete walkways would be removed and replaced in kind to match the existing walkways. This includes reconfiguring the walkway alignment adjacent to the stream. New walkways would be provided to the new basketball courts and restroom facility, as well as to provide additional walking connections throughout the park. The walkway to the north of the proposed exercise area and soccer field would be constructed to allow maintenance access to the subgrade stormwater improvements. For maintenance truck access purposes, an approximately 1,200-square-foot grass paver would be installed in the northern portion of the park.
- New fencing would be installed throughout the park, including replacement of the existing fence separating the northern half of the park from the southern half, where the pond is located. The new fencing would be similar in scale and material as the existing fencing.
- New interpretive signage would be installed within the habitat garden and the pond.
- New lighting, including four soccer field lighting fixtures, would replace existing fixtures throughout the park, designed and installed per City standards.
- A new irrigation system would be installed throughout the park.
- The existing art sculpture located south of the existing parking lot and west of the existing restroom building would be relocated to the habitat garden.

2.2.6 Project Staging and Access

Spane Park is accessed from Gundry Avenue and the central parking lot. Construction staging, including equipment storage, material laydown, and worker parking is anticipated to occur in the central parking lot and throughout the construction area as needed. Depending on the construction phase, affected portions of Spane Park would be

temporarily closed to the public for the duration. The construction area would be fenced off for safety and security purposes and made unavailable for public use during project construction.

Construction would also require temporary encroachment into the southernmost lane of Rosecrans Avenue for construction of the diversion structure and outfall junction.

2.3 Construction Phasing and Schedule

Table 2-1 presents the anticipated construction phasing, equipment usage, and duration assumed for the project for purposes of environmental impact analysis in this MND. These assumptions were developed in consultation with the project design engineers for consideration in Section 3.3, Air Quality; Section 3.6, Energy; Section 3.8, Greenhouse Gas Emissions; and Section 3.13, Noise. The total duration of project construction is anticipated to be 18 months, with some phases overlapping. Typical construction work hours would be Monday through Friday, 7:00 a.m. to 7:00 p.m. Night work is not anticipated.

Table 2-1. Anticipated Construction Phasing and Equipment

Construction Phase	Anticipated Equipment	Estimated Duration
Site mobilization, clearing, grubbing, and vegetation removal	Dozer	8 weeks
	Grader	
	Skid steer loader	
	Haul trucks	
Demolition of existing basketball courts and restroom building	Dozer	4 weeks
	Skid steer loader	
	Jack hammer	
	Haul trucks	
Reservoir excavation	Dozer	10 weeks
	Backhoe loaders	
	Skid steer loader	
	Haul trucks	
Reservoir construction	Crane	15 weeks
	Dozer	
	Skid steer loader	
Pipe, diversion structure, and treatment facility/ pump installation	Crane	8 weeks
	Trencher	
	Skid steer loader	
	Haul trucks	
Field surface replacement	Grader	4 weeks
	Skid steer loader	
	Turf aerator	
	Spreader sprayer	
Restroom building construction	Crane	10 weeks
	Telehandler	
	Cement mixer	
	Boom lift	

Table 2-1. Anticipated Construction Phasing and Equipment

Construction Phase	Anticipated Equipment	Estimated Duration
Basketball court construction	Crane	4 weeks
	Telehandler	
	Cement mixer	
	Boom lift	
Parking lot reconstruction	Skid steer loader	6 weeks
	Drum roller	
	Dump trucks	
	Compactor	
	Asphalt paver	
Concrete pathway improvements	Concrete mixer	4 weeks
Pond and stream revitalization	Skid steer loader	8 weeks
	Telehandler	
	Crane	
	Cement mixer	
Ancillary park improvements	Crane	8 weeks
	Skid steer loader	
	Forklift	
	Cement mixer	

2.4 Project Operation

Once construction is complete, project operation is anticipated to entail routine maintenance activities at the stormwater capture facility performed by the City. Activities would include removal of debris and pollutant constituents from the treatment devices, pump testing and calibration, and cleaning the storage reservoir. Proposed park improvements would not expand the footprint of Spane Park or result in a major expansion of facilities that would induce substantial demand or park users. Park operations would resume to normal, existing conditions.

2.5 Permits and Approvals

The City of Paramount is the CEQA lead agency, with the Paramount City Council holding primary responsibility for adopting this IS/MND, approving the project, and issuing a construction contract. The project will also require the issuance of a building permit by the City for the proposed restroom building. Other public agency approvals include the following:

- A Flood Construction Permit issued by the Los Angeles County Flood Control District
- The SWRCB will serve as a responsible agency under CEQA for their approval of a stormwater pollution prevention plan (SWPPP) in compliance with the Construction General Permit.

3 Initial Study Checklist

1. **Project title:**

   Spane Park Stormwater Capture Project

2. **Lead agency name and address:**

   City of Paramount,
   16400 Colorado Avenue,
   Paramount, California 90723

3. **Contact person and phone number:**

   John Carver
   562.220.2048

4. **Project location:**

   The project is located on the western side of the City of Paramount within a portion of the existing Spane Park.

5. **Project sponsor's name and address:**

   City of Paramount,
   16400 Colorado Avenue,
   Paramount, California 90723

6. **General plan designation:**

   Park

7. **Zoning:**

   Light Manufacturing (M-1)

8. **Description of project. (Describe the whole action involved, including but not limited to later phases of the project, and any secondary, support, or off site features necessary for its implementation. Attach additional sheets if necessary):**

   Refer to Section 2.2.

9. **Surrounding land uses and setting (Briefly describe the project's surroundings):**

   Refer to Section 2.1.

10. **Other public agencies whose approval is required (e.g., permits, financing approval, or participation agreement):**

Los Angeles County Flood Control District, SWRCB

11. **Have California Native American tribes traditionally and culturally affiliated with the project area requested consultation pursuant to Public Resources Code section 21080.3.1? If so, is there a plan for consultation that includes, for example, the determination of significance of impacts to tribal cultural resources, procedures regarding confidentiality, etc.?**

Refer to Section 3.18, Tribal Cultural Resources.

Environmental Factors Potentially Affected

The environmental factors checked below would be potentially affected by this project, involving at least one impact that is a "Potentially Significant Impact," as indicated by the checklist on the following pages.

☐ Aesthetics	☐ Agriculture and Forestry Resources	☐ Air Quality
☐ Biological Resources	☐ Cultural Resources	☐ Energy
☐ Geology and Soils	☐ Greenhouse Gas Emissions	☐ Hazards and Hazardous Materials
☐ Hydrology and Water Quality	☐ Land Use and Planning	☐ Mineral Resources
☐ Noise	☐ Population and Housing	☐ Public Services
☐ Recreation	☐ Transportation	☐ Tribal Cultural Resources
☐ Utilities and Service Systems	☐ Wildfire	☐ Mandatory Findings of Significance

Determination (To be completed by the Lead Agency)

On the basis of this initial evaluation:

☐ I find that the proposed project COULD NOT have a significant effect on the environment, and a NEGATIVE DECLARATION will be prepared.

☐ I find that although the proposed project could have a significant effect on the environment, there will not be a significant effect in this case because revisions in the project have been made by or agreed to by the project proponent. A MITIGATED NEGATIVE DECLARATION will be prepared.

☐ I find that the proposed project MAY have a significant effect on the environment, and an ENVIRONMENTAL IMPACT REPORT is required.

☐ I find that the proposed project MAY have a "potentially significant impact" or "potentially significant unless mitigated" impact on the environment, but at least one effect (1) has been adequately analyzed in an earlier document pursuant to applicable legal standards, and (2) has been addressed by mitigation measures based on the earlier analysis as described on attached sheets. An ENVIRONMENTAL IMPACT REPORT is required, but it must analyze only the effects that remain to be addressed.

☐ I find that although the proposed project could have a significant effect on the environment, because all potentially significant effects (a) have been analyzed adequately in an earlier ENVIRONMENTAL IMPACT REPORT or NEGATIVE DECLARATION pursuant to applicable standards, and (b) have been avoided or mitigated pursuant to that earlier ENVIRONMENTAL IMPACT REPORT or NEGATIVE DECLARATION, including revisions or mitigation measures that are imposed upon the proposed project, nothing further is required.

Signature

July 14, 2023
Date

Evaluation of Environmental Impacts

1. A brief explanation is required for all answers except "No Impact" answers that are adequately supported by the information sources a lead agency cites in the parentheses following each question. A "No Impact" answer is adequately supported if the referenced information sources show that the impact simply does not apply to projects like the one involved (e.g., the project falls outside a fault rupture zone). A "No Impact" answer should be explained where it is based on project-specific factors as well as general standards (e.g., the project will not expose sensitive receptors to pollutants, based on a project-specific screening analysis).
2. All answers must take account of the whole action involved, including off site as well as on site, cumulative as well as project-level, indirect as well as direct, and construction as well as operational impacts.
3. Once the lead agency has determined that a particular physical impact may occur, then the checklist answers must indicate whether the impact is potentially significant, less than significant with mitigation, or less than significant. "Potentially Significant Impact" is appropriate if there is substantial evidence that an effect may be significant. If there are one or more "Potentially Significant Impact" entries when the determination is made, an Environmental Impact Report (EIR) is required.
4. "Negative Declaration: Less Than Significant With Mitigation Incorporated" applies where the incorporation of mitigation measures has reduced an effect from "Potentially Significant Impact" to a "Less Than Significant Impact." The lead agency must describe the mitigation measures, and briefly explain how they reduce the effect to a less than significant level (mitigation measures from "Earlier Analyses," as described in (5) below, may be cross-referenced).
5. Earlier analyses may be used where, pursuant to the tiering, program EIR, or other CEQA process, an effect has been adequately analyzed in an earlier EIR or negative declaration. Section 15063(c)(3)(D). In this case, a brief discussion should identify the following:
    a. Earlier Analysis Used. Identify and state where they are available for review.
    b. Impacts Adequately Addressed. Identify which effects from the above checklist were within the scope of and adequately analyzed in an earlier document pursuant to applicable legal standards, and state whether such effects were addressed by mitigation measures based on the earlier analysis.
    c. Mitigation Measures. For effects that are "Less Than Significant With Mitigation Measures Incorporated," describe the mitigation measures which were incorporated or refined from the earlier document and the extent to which they address site-specific conditions for the project.
6. Lead agencies are encouraged to incorporate into the checklist references to information sources for potential impacts (e.g., general plans, zoning ordinances). Reference to a previously prepared or outside document should, where appropriate, include a reference to the page or pages where the statement is substantiated.
7. Supporting Information Sources: A source list should be attached, and other sources used or individuals contacted should be cited in the discussion.
8. This is only a suggested form, and lead agencies are free to use different formats; however, lead agencies should normally address the questions from this checklist that are relevant to a project's environmental effects in whatever format is selected.
9. The explanation of each issue should identify:
    a. The significance criteria or threshold, if any, used to evaluate each question; and
    b. The mitigation measure identified, if any, to reduce the impact to less than significance

3.1 Aesthetics

		Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
I.	**AESTHETICS** – Except as provided in Public Resources Code Section 21099, would the project:				
a)	Have a substantial adverse effect on a scenic vista?	☐	☐	☒	☐
b)	Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?	☐	☐	☐	☒
c)	In non-urbanized areas, substantially degrade the existing visual character or quality of public views of the site and its surroundings? (Public views are those that are experienced from publicly accessible vantage point). If the project is in an urbanized area, would the project conflict with applicable zoning and other regulations governing scenic quality?	☐	☐	☐	☒
d)	Create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?	☐	☐	☒	☐

a) Would the project have a substantial adverse effect on a scenic vista?

Less-than-Significant Impact. Scenic vistas generally refer to views of expansive open space areas or other natural features, such as mountains, undeveloped hillsides, large natural water bodies, or coastlines. Certain urban settings or features, such as a striking or renowned skyline, may also represent a scenic vista. Scenic vistas generally refer to views that are accessible from public vantage points, such as public roadways and parks. The City's General Plan Resource Management Element does not specifically list or identify any designated scenic vistas or specific scenic resources within the City. Distant views of the San Gabriel Mountains to the north and of the Puente Hills to the northeast are obscured by distance and the intervening streetscape and development. Project construction would result in temporary visual changes to the park, including the presence of excavated areas and staging of construction equipment. Upon completion of construction, these temporary visual changes would cease. The project's infrastructure would mostly be located underground and would not be visible during project operation. Other project components would include replacement of the existing park infrastructure, revitalization of the existing pond and stream, new landscaping, and other improvements to park facilities as described in Section 2.2.4, which are intended in part as improvements to the visual environment. As such, impacts would be less than significant.

b) Would the project substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?

No Impact. There are no designated state scenic highways in the vicinity of the project site. The nearest eligible scenic highway is the State Route (SR) 1 segment from SR-5 near San Juan Capistrano to SR-19 near Long Beach, located approximately 8.1 miles southwest of the project site (Caltrans 2022). Due to intervening development and distance, the project site is not visible from this segment of SR-1. Therefore, the project would not substantially damage scenic resources within a state scenic highway and no impact would occur.

c) In non-urbanized areas, would the project substantially degrade the existing visual character or quality of public views of the site and its surroundings? (Public views are those that are experienced from publicly accessible vantage point). If the project is in an urbanized area, would the project conflict with applicable zoning and other regulations governing scenic quality?

No Impact. Per PRC Section 21071, an "urbanized area" is defined as "(a) An incorporated city that meets either of the following criteria: (1) Has a population of at least 100,000 persons. [or] (2) Has a population of less than 100,000 persons if the population of that city and not more than two contiguous incorporated cities combined equals at least 100,000 persons." The project site is located in the incorporated City of Paramount, which has a population of 53,733 persons as of the 2020 census (U.S. Census Bureau 2020). However, with the incorporation of the population of a contiguous city such as the City of Bellflower, which has a population of 79,190 as of the 2020 census, the project site is considered to be located in an urbanized area (U.S. Census Bureau 2020).

As discussed in Section 3.1(a) above, the project site is not visible from any prominent public viewpoints. Temporary visible elements associated with the project include construction equipment, staging activities, and temporary fencing to be included for safety and security purposes. Visual impacts resulting from construction activities would be temporary, ceasing upon completion of construction.

The project would comply with any applicable zoning or other regulations governing scenic quality. The project site is not subject to overlay zones or other such designations specific to scenic resources or quality. The proposed stormwater capture and filtration facility would be located primarily underground. In addition, the project would include replacement of existing park infrastructure, revitalization of the existing pond and stream, new landscaping, and other improvements to park facilities as described in Section 2.2.4, which would enhance the park's visual quality. The project would result in the continued use of the site as a park and would not substantially visually differ from its current use. Implementation of the project would not conflict with the applicable zoning and other regulations governing scenic quality . No impact would occur.

d) Would the project create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?

Less-than-Significant Impact. The project is located in an urban area with existing sources of nighttime lighting from roadways, residences, and the existing Spane Park. Existing lighting at Spane Park consists of lighting within facilities, including existing multi-use field lighting, and along pedestrian pathways for safety and security. No nighttime work would occur during construction of the project. New lighting, including four soccer field lighting fixtures, would replace existing fixtures throughout the park, designed and installed per City standards. New lighting would be shielded and directed downward to minimize slipover onto adjacent

properties. Operation of new nighttime lighting would be similar to that of the existing lighting within Spane Park, and would be subject to the same operating hours. The materials that would be used for the project would not be reflective in nature and would not serve as a new source of glare (such as large areas of glass). Therefore, impacts would be less than significant.

3.2 Agriculture and Forestry Resources

	Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
II. AGRICULTURE AND FORESTRY RESOURCES – In determining whether impacts to agricultural resources are significant environmental effects, lead agencies may refer to the California Agricultural Land Evaluation and Site Assessment Model (1997) prepared by the California Dept. Conservation as an optional model to use in assessing impacts on agriculture and farmland. In determining whether impacts to forest resources, including timberland, are significant environmental effects, lead agencies may refer to information compiled by the California Department of Forestry and Fire Protection regarding the state's inventory of forest land, including the Forest and Range Assessment Project and the Forest Legacy Assessment project; and forest carbon measurement methodology provided in Forest Protocols adopted by the California Air Resources Board. Would the project:				
a) Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use?	☐	☐	☐	☒
b) Conflict with existing zoning for agricultural use, or a Williamson Act contract?	☐	☐	☐	☒
c) Conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code section 12220(g)), timberland (as defined by Public Resources Code section 4526), or timberland zoned Timberland Production (as defined by Government Code section 51104(g))?	☐	☐	☐	☒
d) Result in the loss of forest land or conversion of forest land to non-forest use?	☐	☐	☐	☒
e) Involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland, to non-agricultural use or conversion of forest land to non-forest use?	☐	☐	☐	☒

a) Would the project convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use?

No Impact. According to the California Important Farmland Finder database, the project site and its immediate surroundings are classified as "Urban and Built-Up Land" (DOC 2022). The project would not be located on land classified as Farmland pursuant to the Farmland Mapping and Monitoring Program and would therefore not convert any Farmland to non-agricultural use. No impact would occur.

b) Would the project conflict with existing zoning for agricultural use, or a Williamson Act contract?

No Impact. The project site is zoned Light Manufacturing (M-1). Surrounding Spane Park are areas also zoned M-1, as well as Medium Density Residential (R-2), Multiple Family Residential (R-M), and Heavy Manufacturing (M-2) (City of Paramount 2022). The City does not contain any lands zoned for agricultural use. There are no existing lands under a Williamson Act contract within the City. Therefore, the project would not conflict with existing zoning for agricultural use or a Williamson Act contract. No impact would occur.

c) Would the project conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code section 12220(g)), timberland (as defined by Public Resources Code section 4526), or timberland zoned Timberland Production (as defined by Government Code section 51104(g))?

No Impact. The project site and surrounding areas are not zoned for and do not contain any forest land or timberland. Therefore, the project would not conflict with or cause the rezoning or conversion of forest land or timberland. No impact would occur.

d) Would the project result in the loss of forest land or conversion of forest land to non-forest use?

No Impact**.** Refer to Section 3.2(c). No impact would occur.

e) Would the project involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland, to non-agricultural use or conversion of forest land to non-forest use?

No Impact. Refer to Sections 3.2(a) through 3.2(d). The project site is located in an urbanized area with no existing agricultural uses, Farmland, or forest lands in the vicinity. The City does not contain any lands zoned for agricultural uses. Therefore, the project would not involve other changes that could result in conversion of Farmland to non-agricultural use or conversion of forest land to non-forest use. No impact would occur.

3.3 Air Quality

	Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
III. AIR QUALITY – Where available, the significance criteria established by the applicable air quality management district or air pollution control district may be relied upon to make the following determinations. Would the project:				
a) Conflict with or obstruct implementation of the applicable air quality plan?	☐	☐	☒	☐
b) 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?	☐	☐	☒	☐
c) Expose sensitive receptors to substantial pollutant concentrations?	☐	☒	☐	☐
d) Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?	☐	☐	☒	☐

This section is based on technical analysis conducted by Dudek, including quantitative estimates of air pollutant emissions based on assumptions developed in consultation with the project design engineers. The results of the emissions estimates are provided as Appendix A to this MND, Air Quality and Greenhouse Gas Modeling.

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

Less-than-Significant Impact. The project site is located within the South Coast Air Basin (SCAB), which includes all of Orange County and the western, non-desert portions of Los Angeles, Riverside, and San Bernardino Counties. The site is within the jurisdictional boundaries of the South Coast Air Quality Management District (SCAQMD).

The SCAQMD administers the SCAB's air quality management plan (AQMP), which is a comprehensive document outlining an air pollution control program for attaining the California Ambient Air Quality Standards (CAAQS) and National Ambient Air Quality Standards (NAAQS). The most recently adopted AQMP for the SCAB is the 2016 AQMP (SCAQMD 2017a).[2] The 2016 AQMP focuses on available, proven, and cost-effective alternatives to traditional air quality strategies while seeking to achieve multiple goals in partnership with other entities seeking to promote reductions in greenhouse gases (GHGs) and toxic risk, as well as efficiencies in energy use, transportation, and goods movement (SCAQMD 2017a).

[2] The SCAQMD has initiated the development of the 2022 AQMP to address the attainment of the 2015 8-hour ozone standard (70 parts per billion) for the SCAB and the Coachella Valley. The SCAQMD is in the process of developing the 2022 AQMP, which is currently undergoing public review and is expected to be adopted in 2022, including control measures developed through Residential and Commercial Buildings and Mobile Source Working Groups.

The purpose of a consistency finding with regard to the AQMP is to determine if a project is consistent with the assumptions and objectives of the 2016 AQMP, and if it would interfere with the region's ability to comply with federal and state air quality standards. The SCAQMD has established criteria for determining consistency with the currently applicable AQMP in Chapter 12, Sections 12.2 and 12.3 of the SCAQMD CEQA Air Quality Handbook. These criteria are as follows (SCAQMD 1993):

- **Consistency Criterion No. 1:** Whether the project would result in an increase in the frequency or severity of existing air quality violations, cause or contribute to new violations, or delay timely attainment of the ambient air quality standards or interim emission reductions in the AQMP.
- **Consistency Criterion No. 2:** Whether the project would exceed the assumptions in the AQMP or increments based on the year of project buildout and phase.

To address the first criterion, project-generated criteria air pollutant emissions have been estimated and analyzed for significance and are addressed under Section 3.3(b). Detailed results of this analysis are included in Appendix A. As presented in that analysis and summarized in Section 3.3(b), the proposed project would not generate construction or operational criteria air pollutant emissions that exceed the SCAQMD's thresholds, and the project would therefore be consistent with Criterion No. 1.

The second criterion regarding the potential of the proposed project to exceed the assumptions in the AQMP or increments based on the year of project buildout and phase is primarily assessed by determining consistency between the proposed project's land use designations and its potential to generate population growth. In general, projects are considered consistent with, and not in conflict with or obstructing implementation of, the AQMP if the growth in socioeconomic factors is consistent with the underlying regional plans used to develop the AQMP (SCAQMD 1993). The SCAQMD primarily uses demographic growth forecasts for various socioeconomic categories (e.g., population, housing, and employment by industry) developed by the Southern California Association of Governments (SCAG) for its 2016–2040 Regional Transportation Plan/Sustainable Communities Strategy (RTP/SCS)[3] (SCAG 2016). SCAQMD uses this document, which is based on general plans for cities and counties in the SCAB, to develop the AQMP emissions inventory (SCAQMD 2017a).[4] The SCAG RTP/SCS and associated Regional Growth Forecast are generally consistent with the local plans; therefore, the 2016 AQMP is generally consistent with local government plans. The relevant local plan for the proposed project is the City of Paramount General Plan.

The project does not include a change in zoning designation, no housing is proposed, and no additional employees would be required. Furthermore, the proposed project would serve an existing need in the City. Accordingly, the project does not conflict with the SCAG RTP/SCS forecasts used in the SCAQMD AQMP development and does not propose activities that would induce additional population in the project area. Impacts would be less than significant.

3 SCAQMD is currently working on the 2022 AQMP, which will incorporate SCAG's recently adopted 2020–2045 RTP/SCS. However, until the adoption of the 2022 AQMP, project AQMP consistency will be analyzed off the 2016 AQMP and the RTP/SCS that was adopted at the time, the 2016–2040 RTP/SCS.

4 Information necessary to produce the emissions inventory for SCAB is obtained from SCAQMD and other governmental agencies, including the California Air Resources Board (CARB), California Department of Transportation, and SCAG. Each of these agencies is responsible for collecting data (e.g., industry growth factors, socioeconomic projections, travel activity levels, emission factors, emission speciation profile, and emissions) and developing methodologies (e.g., model and demographic forecast improvements) required to generate a comprehensive emissions inventory. SCAG incorporates these data into its Travel Demand Model for estimating/projecting vehicle miles traveled and driving speeds. SCAG's socioeconomic and transportation activities projections in their 2016–2040 RTP/SCS are integrated in the 2016 AQMP (SCAQMD 2017a).

b) 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?

Less-than-Significant Impact. Air pollution is largely a cumulative impact. The nonattainment status of regional pollutants is a result of past and present development, and the SCAQMD 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 to determine whether a project's individual emissions would have a cumulatively considerable contribution to air quality. If a project's emissions would exceed the SCAQMD significance thresholds, it would be considered to have a cumulatively considerable contribution. Conversely, projects that do not exceed the project-specific thresholds are generally not considered to be cumulatively significant (SCAQMD 2003a).

A quantitative analysis was conducted to determine whether the proposed project might result in emissions of criteria air pollutants that may cause exceedances of the NAAQS or CAAQS, or cumulatively contribute to existing nonattainment of ambient air quality standards. Criteria air pollutants include ozone (O_3), nitrogen dioxide (NO_2), carbon monoxide (CO), sulfur dioxide, 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 herein include volatile organic compounds (VOCs) and oxides of nitrogen (NO_x), which are important because they are precursors to O_3, as well as CO, sulfur oxides, PM_{10}, and $PM_{2.5}$.

Regarding NAAQS and CAAQS attainment status,[5] the SCAB is designated as a nonattainment area for federal and state O_3 and $PM_{2.5}$ standards (CARB 2019; EPA 2021). SCAB is also designated as a nonattainment area for state PM_{10} standards; however, it is designated as an attainment area for federal PM_{10} standards. The SCAB is designated as an attainment area for federal and state CO and NO_2 standards, as well as for state sulfur dioxide standards. Although the SCAB has been designated as nonattainment for the federal rolling 3-month average lead standard, it is designated attainment for the state lead standard.[6]

The proposed project would result in emissions of criteria air pollutants for which the California Air Resources Board (CARB) and U.S. Environmental Protection Agency have adopted ambient air quality standards (i.e., the NAAQS and CAAQS). Projects that emit these pollutants have the potential to cause, or contribute to, violations of these standards. The SCAQMD CEQA Air Quality Significance Thresholds, as revised in April 2019, set forth quantitative emission significance thresholds for criteria air pollutants, which, if exceeded, would indicate the potential for a project to contribute to violations of the NAAQS or CAAQS. Table 3.3-1 lists the revised SCAQMD Air Quality Significance Thresholds (SCAQMD 2019).

[5] An area is designated as in attainment when it is in compliance with the NAAQS and/or the CAAQS. These standards for the maximum level of a given air pollutant that can exist in the outdoor air without unacceptable effects on human health or the public welfare are set by the U.S. Environmental Protection Agency and CARB, respectively. Attainment = meets the standards; attainment/maintenance = achieves the standards after a nonattainment designation; nonattainment = does not meet the standards.

[6] Re-designation of the lead NAAQS designation to attainment for the Los Angeles County portion of the SCAB is expected based on current monitoring data. The phase-out of leaded gasoline started in 1976. Since gasoline no longer contains lead, the project is not anticipated to result in impacts related to lead; therefore, it is not discussed in this analysis.

Table 3.3-1. South Coast Air Quality Management District Air Quality Significance Thresholds

Criteria Pollutants Mass Daily Thresholds (lbs/day)		
Pollutant	**Construction**	**Operation**
VOC	75	55
NO_x	100	55
CO	550	550
SO_x	150	150
PM_{10}	150	150
$PM_{2.5}$	55	55
Lead[a]	3	3
Toxic Air Contaminants and Odor Thresholds		
Toxic air contaminants[b]	Maximum incremental cancer risk ≥ 10 in 1 million Cancer Burden > 0.5 excess cancer cases (in areas ≥ 1 in 1 million) Chronic and Acute Hazard index ≥ 1.0 (project increment)	
Odor	Project creates an odor nuisance pursuant to SCAQMD Rule 402	

Source: SCAQMD 2019.
Notes: VOC = volatile organic compound; NO_x = oxides of nitrogen; CO = carbon monoxide; SO_x = sulfur oxides; PM_{10} = particulate matter with a diameter less than or equal to 10 microns; $PM_{2.5}$ = particulate matter with a diameter less than or equal to 2.5 microns; SCAQMD = South Coast Air Quality Management District.
[a] The phaseout of leaded gasoline started in 1976. Since gasoline no longer contains lead, the proposed project is not anticipated to result in impacts related to lead; therefore, it is not discussed in this analysis.
[b] Toxic air contaminants include carcinogens and noncarcinogens.

A project would result in a cumulatively considerable net increase for O_3, which is a nonattainment pollutant, if the proposed project's construction or operational emissions would exceed the SCAQMD VOC or NO_x thresholds shown in Table 3.3-1. These emission-based thresholds for O_3 precursors are intended to serve as a surrogate for an O_3 significance threshold (i.e., the potential for adverse O_3 impacts to occur) because O_3 itself is not emitted directly, and the effects of an individual project's emissions of O_3 precursors (i.e., VOCs and NO_x) on O_3 levels in ambient air cannot be determined through air quality models or other quantitative methods.

California Emissions Estimator Model (CalEEMod) Version 2020.4.0 was used to estimate emissions from construction of the project. CalEEMod is a statewide computer model developed in cooperation with air districts throughout the state to quantify criteria air pollutant emissions associated with construction and operational activities from a variety of land use projects, including residential development. The following discussion summarizes the quantitative project-generated construction emissions and impacts that would result from implementation of the proposed project. Detailed assumptions and results of this analysis are provided in Appendix A.

Construction Emissions

Construction of the proposed project would include demolition, site preparation, grading, trenching, building installation, landscaping, paving, and application of architectural coatings. These construction activities would result in the temporary addition of pollutants to the local airshed caused by on site sources (e.g., off-road construction equipment, soil disturbance, and VOC off-gassing from architectural coatings

and asphalt pavement application) and off site sources (e.g., vendor trucks, haul trucks, and worker vehicle trips). Specifically, 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. Internal combustion engines used by construction equipment, haul trucks, vendor trucks (i.e., delivery trucks), and worker vehicles would result in emissions of VOC, NO_x, CO, PM_{10}, and $PM_{2.5}$. Application of architectural coatings, such as exterior paint and other finishes, and application of asphalt pavement would also produce VOC emissions. 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.

Proposed project construction emissions were estimated using a combination of CalEEMod default assumptions and information provided the project engineer. It was assumed that approximately 2.72 acres of the project site would require grading, with a total of 19,950 cubic yards of soil exported over the construction duration. The existing basketball courts and restroom building would be demolished, generating approximately 5,500 cubic feet of material that would be hauled off site. For the purposes of air quality emissions modeling, it is assumed that construction of the project would commence in summer 2023 and would last approximately 18 months. Default values for horsepower and load factor provided in CalEEMod were used for all construction equipment, and the equipment mix was provided by the City. For the analysis, it was generally assumed that heavy-duty construction equipment would be operating at the site 5 days per week, up to a maximum of 8 hours per day, in accordance with the City's Municipal Code. Detailed construction equipment modeling assumptions are provided in Appendix A.

Emissions generated during construction and operation of the project are subject to the rules and regulations of the SCAQMD. Rule 403, Fugitive Dust,[7] requires the implementation of measures to control the emission of visible fugitive/nuisance dust, such as wetting soils that would be disturbed. It was assumed that the active sites would be watered at least two times daily, resulting in an approximately 55% reduction of fugitive dust (CalEEMod default value), to represent compliance with SCAQMD standard dust control measures in Rule 403.

Table 3.3-2 shows the estimated maximum daily construction emissions associated with the construction of the project occurring in 2023, 2024, and 2025.

Table 3.3-2. Estimated Maximum Daily Construction Criteria Air Pollutant Emissions

Construction Year	VOCs	NO_x	CO	SO_x	PM_{10}[a]	$PM_{2.5}$[a]
	Pounds per Day					
2023	2.44	29.03	16.25	0.06	7.89	4.25
2024	1.97	19.27	13.59	0.03	1.41	0.96
2025	1.21	9.45	12.49	0.03	0.98	0.53
Maximum	*2.44*	*29.03*	*16.25*	*0.06*	*7.89*	*4.25*
SCAQMD threshold	*75*	*100*	*550*	*150*	*150*	*55*
Threshold exceeded?	**No**	**No**	**No**	**No**	**No**	**No**

Source: SCAQMD 2019.

[7] SCAQMD Rule 403 requires implementation of various best available fugitive dust control measures for different sources for all construction activity sources within its jurisdictional boundaries. Dust control measures include, but are not limited to, maintaining stability of soil through pre-watering of site prior to clearing, grubbing, cut and fill, and earth-moving activities; stabilizing soil during and immediately after clearing, grubbing, cut and fill, and other earth-moving activities; stabilizing backfill during handling and at completion of activity; and pre-watering material prior to truck loading and ensuring that freeboard exceeds 6 inches. Although SCAQMD Rule 403 requires fugitive dust control beyond watering control measures, compliance with Rule 403 is represented in CalEEMod by assuming twice daily watering of active sites (55% reduction in PM_{10} and $PM_{2.5}$ [CAPCOA 2021]).

Notes: VOC = volatile organic compound; NO_x = oxides of nitrogen; CO = carbon monoxide; SO_x = sulfur oxides; PM_{10} = particulate matter with a diameter less than or equal to 10 microns; $PM_{2.5}$ = particulate matter with a diameter less than or equal to 2.5 microns; SCAQMD = South Coast Air Quality Management District.
See Appendix A for detailed results.
[a] These estimates reflect control of fugitive dust (watering twice daily) required by SCAQMD Rule 403.

As shown in Table 3.3-2, the proposed project's maximum daily construction emissions would not exceed SCAQMD thresholds for any criteria pollutant and impacts would be less than significant.

Operation Emissions

Once construction associated with the stormwater facilities is complete, operational activities associated with the project (e.g., routine maintenance vehicle trips) would be required. Proposed park improvements would not expand the footprint of Spane Park or result in a major expansion of facilities that would induce substantial demand or park users. Vehicle trips associated with maintenance activities would continue to be infrequent and would not generate daily vehicle-exhaust emissions that could exceed the SCAQMD significance thresholds; impacts would be less than significant.

Cumulative

Cumulative localized impacts would potentially occur if a project were to occur concurrently with another off-site project. Schedules for potential future projects near the project area are currently unknown; therefore, potential impacts associated with two or more simultaneous projects would be considered speculative.[8] However, future projects would be subject to CEQA and would require air quality analysis and, where necessary, mitigation. Criteria air pollutant emissions associated with construction activity of future projects would be reduced through implementation of control measures required by the SCAQMD. Cumulative PM_{10} and $PM_{2.5}$ emissions would be reduced because all future projects would be subject to SCAQMD Rule 403, Fugitive Dust, which sets forth general and specific requirements for all sites in the SCAQMD.

Therefore, the proposed project would not result in a cumulatively considerable increase in emissions of nonattainment pollutants and impacts would be less than significant during construction and operation.

c) Would the project expose sensitive receptors to substantial pollutant concentrations?

Less-than-Significant Impact with Mitigation Incorporated. Sensitive receptors are those individuals more susceptible to the effects of air pollution than the population at large. People most likely to be affected by air pollution include children, the elderly, and people with cardiovascular and chronic respiratory diseases. According to SCAQMD, sensitive receptors include residences, schools, playgrounds, childcare centers, long-term healthcare facilities, rehabilitation centers, convalescent centers, and retirement homes (SCAQMD 1993).

The closest off site sensitive receptors to the project site are single-family residences located approximately 55 feet west of the site's western boundary and the elementary school immediately adjacent to the south. The on-site playground and multi-use field will be closed during construction.

[8] The CEQA Guidelines state that if a particular impact is too speculative for evaluation, the agency should note its conclusion and terminate discussion of the impact (14 CCR 15145).

Localized Significance Thresholds

The SCAQMD recommends a localized significance threshold (LST) analysis to evaluate localized air quality impacts to sensitive receptors in the immediate vicinity of the project as a result of proposed project activities. The impacts were analyzed using methods consistent with those in the SCAQMD's Final Localized Significance Threshold Methodology (SCAQMD 2008a). The project is located within Source-Receptor Area 5 (Southeast Los Angeles County). Although the closest receptors to the project site are immediately adjacent, the shortest and most stringent receptor distance available in the SCAQMD LST Methodology is 25 meters (82 feet); therefore, that was assumed for this analysis.

Project construction activities would result in temporary sources of on site criteria air pollutant emissions associated with exhaust from on-site construction equipment and diesel haul and vendor trucks and fugitive dust generation. According to the Final Localized Significance Threshold Methodology, "off site mobile emissions from the project should not be included in the emissions compared to the LSTs" (SCAQMD 2008a). Trucks and worker trips associated with the project are not expected to cause substantial air quality impacts to sensitive receptors along off-site roadways since emissions would be relatively brief in nature and would cease once the vehicles pass through the main streets. Nonetheless, because the project site is relatively large, vehicle activity may occur within the project boundary (i.e., fence line); therefore, a small portion (i.e., 1,000 feet [0.19 miles]) of the off-site vehicle travel for worker vehicles, vendor trucks, and haul trucks was conservatively assumed as on-site emissions for the LST analysis.

The maximum daily on-site emissions generated from construction of the proposed project are presented in Table 3.3-3 and are compared to the SCAQMD localized significance criteria for Source-Receptor Area 5 to determine whether project-generated on-site emissions would result in potential LST impacts.

Table 3.3-3. Construction Localized Significance Thresholds Analysis - Unmitigated

Construction Year	NO_x	CO	PM_{10}	$PM_{2.5}$
	Pounds per Day			
2023	23.77	15.26	6.55	3.86
2024	19.03	12.32	0.89	0.82
2025	9.29	11.18	0.41	0.37
Maximum	*23.77*	*15.26*	*6.55*	*3.86*
SCAQMD LST Criteria[a]	*80*	*571*	*4*	*3*
Threshold exceeded?	**No**	**No**	**Yes**	**Yes**

Notes: NO_x = oxides of nitrogen; CO = carbon monoxide; PM_{10} = particulate matter with a diameter less than or equal to 10 microns; $PM_{2.5}$ = particulate matter with a diameter less than or equal to 2.5 microns; SCAQMD = South Coast Air Quality Management District; LST = localized significance threshold.
The values shown are the maximum summer or winter daily emissions results from CalEEMod.
The total values may not add up exactly due to rounding.
See Appendix A for detailed results.

[a] Localized significance thresholds are shown for a 1-acre disturbed area for a sensitive receptor distance of 25 meters in Source-Receptor Area 5 (Southeast Los Angeles County).

As shown in Table 3.3-3, proposed construction activities would generate emissions in excess of site-specific LSTs for PM_{10} and $PM_{2.5}$ without mitigation, resulting in a potentially significant impact. Mitigation Measure (MM) AQ-1 and MM-AQ-2, which require site watering and minimum construction equipment emissions standards, would be incorporated into project construction. The maximum daily on-site emissions generated from construction of the proposed project including MM-AQ-1 and MM-AQ-2 are presented in Table 3.3-4 and

are compared to the SCAQMD localized significance criteria for Source-Receptor Area 5 to determine whether project-generated on-site emissions would result in potential LST impacts.

Table 3.3-4. Construction Localized Significance Thresholds Analysis - Mitigated

Construction Year	NO_x	CO	PM_{10}	$PM_{2.5}$
	Pounds per Day			
2023	4.19	18.00	3.76	2.05
2024	4.64	14.63	0.20	0.18
2025	3.05	12.88	0.10	0.09
Maximum	*4.64*	*18.00*	*3.76*	*2.05*
SCAQMD LST Criteria[a]	*80*	*571*	*4*	*3*
Threshold exceeded?	**No**	**No**	**No**	**No**

Notes: NO_x = oxides of nitrogen; CO = carbon monoxide; PM_{10} = particulate matter with a diameter less than or equal to 10 microns; $PM_{2.5}$ = particulate matter with a diameter less than or equal to 2.5 microns; SCAQMD = South Coast Air Quality Management District; LST = localized significance threshold.
The values shown are the maximum summer or winter daily emissions results from CalEEMod.
The total values may not add up exactly due to rounding.
See Appendix A for detailed results.
Includes application of MM-AQ-1 and MM-AQ-2.

[a] Localized significance thresholds are shown for a 1-acre disturbed area for a sensitive receptor distance of 25 meters in Source-Receptor Area 5 (Southeast Los Angeles County).

As shown in Table 3.3-4, with implementation of MM-AQ-1 and MM-AQ-2, impacts would be less than significant.

CO Hotspots

Traffic-congested roadways and intersections have the potential to generate localized high levels of CO. Localized areas where ambient concentrations exceed federal and/or state standards for CO are termed "CO hotspots." The transport of CO is extremely limited, as it disperses rapidly with distance from the source. However, under certain extreme meteorological conditions, CO concentrations near a congested roadway or intersection may reach unhealthy levels, affecting sensitive receptors. Typically, high CO concentrations are associated with severely congested intersections operating at an unacceptable level of service (level of service E or worse is unacceptable). Projects contributing to adverse traffic impacts may result in the formation of a CO hotspot. Additional analysis of CO hotspot impacts would be conducted if a project would result in a significant impact or contribute to an adverse traffic impact at a signalized intersection that would potentially subject sensitive receptors to CO hotspots. CO concentrations at congested intersections would not exceed the 1-hour or 8-hour CO CAAQS unless projected daily traffic would be at least over 100,000 vehicles per day. The project's estimated vehicle trips anticipated during construction is minimal, and is not of a magnitude expected to raise the traffic volumes at intersections within proximity of the project to the 100,000 vehicles per day that could result in a CO hotspot.

Ambient CO levels are monitored at the SCAQMD Pico-Rivera air quality monitoring station, which is approximately 1.75 miles southwest of the project site and represents ambient air quality in the project area. Ambient CO levels monitored at this representative monitoring station indicate that the highest recorded 1-hour concentration of CO is 3.1 parts per million (ppm) (the state standard is 20 ppm) and highest 8-hour concentration is 1.7 ppm (the state standard is 9 ppm) during the past 3 years of available data (2019–2021) (EPA 2022). As discussed above, the highest CO concentrations typically occur during peak traffic hours, so CO impacts calculated under peak traffic conditions represent a worst-case analysis.

Even if combined with the concentrations presented in the AQMP for the four worst-case intersections in the SCAB with average daily traffic of approximately 100,000 vehicles per day, the CO concentrations at the Pico-Rivera air quality monitoring station would not exceed the 1-hour or 8-hour standards or result in a CO hotspot.

Given the considerably low level of CO concentrations in the project area and the minimal increase in daily trips, project-related mobile emissions are not expected to contribute significantly to CO concentrations and a CO hotspot is not anticipated to occur. In addition, due to 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 SCAB is steadily decreasing. The project would result in a less-than-significant impact to air quality with regard to potential CO hotspots.

Toxic Air Contaminants

The greatest potential for toxic air contaminant (TAC) emissions during project construction would be diesel particulate matter (DPM) emissions from heavy equipment operations and heavy-duty trucks. Use of heavy-duty construction equipment is subject to a CARB Airborne Toxics Control Measure for in-use diesel construction equipment to reduce diesel particulate emissions; use of diesel trucks is also subject to an Airborne Toxics Control Measure. The health risk assessment (HRA) analyzes long-term cancer and noncancer health risk from the project's use of diesel equipment and trucks during construction.

The most recent guidance from the Office of Environmental Health Hazard Assessment (OEHHA) is the 2015 Risk Assessment Guidelines Manual (OEHHA 2015). Cancer risk parameters, such as age-sensitivity factors, daily breathing rates, exposure period, fraction of time at home, and cancer potency factors were based on the values and data recommended by OEHHA as implemented in Hotspots Analysis and Reporting Program Version 2 (HARP2). SCAQMD's Modeling Guidance for American Meteorological Society/Environmental Protection Agency Regulatory Model (AERMOD) (SCAQMD 2023), Health Risk Assessment Guidance for Analyzing Cancer Risks from Mobile Source Diesel Idling Emissions for CEQA Air Quality Analysis (SCAQMD 2003b), and Risk Assessment Procedures for Rules 1401, 1401.1, and 212 (SCAQMD 2017b) provide guidance to perform dispersion modeling for use in HRAs within the SCAB.

Risk Thresholds

The exhaust from diesel engines is a complex mixture of gases, vapors, and particles, many of which are known human carcinogens. Health effects from carcinogenic air toxics are usually described in terms of cancer risk. SCAQMD recommends a cancer risk threshold of 10 in one million.

Some TACs also increase noncancer health risk due to long-term (chronic) exposures. The Chronic Hazard Index is the sum of the individual substance chronic hazard indices for all TACs affecting the same target organ system. A hazard index less than 1.0 means that adverse health effects are not expected. Accordingly, noncarcinogenic exposures of less than Chronic Hazard Index 1.0 are considered less than significant.

In addition to these chronic health risk thresholds, the SCAQMD recommends an acute hazard index of 1.0. However, whereas DPM has established cancer risk factors and relative exposure values for long-term chronic health hazard impacts, no short-term, acute reference exposure levels for DPM are established by CARB or OEHHA. Therefore, the HRA does not address acute exposures to DPM.

Methodology

The dispersion modeling was performed using AERMOD, which is the model SCAQMD requires for atmospheric dispersion of emissions. AERMOD (Version 21112) is a steady-state Gaussian plume model that incorporates air dispersion based on planetary boundary layer turbulence structure and scaling concepts, including treatment of surface and elevated sources, building downwash, and simple and complex terrain.

Dispersion of DPM emissions was modeled using AERMOD; cancer risk and noncancer health impacts were then modeled using CARB's HARP2. A unit emission rate (1 gram per second) was normalized over the line of adjacent volume sources for the AERMOD run to obtain the "X/Q" values. X/Q is a dispersion factor that is the average effluent concentration normalized by source strength and is used to simplify the representation of emissions from project construction. The maximum concentrations were determined for the 1-hour and period-averaging periods.9

HARP2 (Version 22118) implements the March 2015 OEHHA age-weighting methodology for assessing toxics risks. The project's potential cancer and noncancer construction-related health impacts were evaluated assuming an exposure duration of approximately 18 months and starting at the third trimester of pregnancy. A construction HRA CalEEMod run was performed to estimate on-site emissions of exhaust PM_{10}, which was used as a surrogate for DPM.[10] The predominant source of construction exhaust PM_{10} is operation of off-road diesel construction equipment. However, it was conservatively assumed that emissions from heavy-duty haul and vendor trucks, which could be diesel- or gasoline-fueled, traveling 1,000 feet would occur on site to represent potential on-site travel and nearby local off-site travel. Total exhaust PM_{10} emissions from CalEEMod were averaged over the project's construction duration to estimate the annual and hourly exposure, which were estimated to be 87.96 pounds per year and 0.042 pounds per hour of DPM. Consistent with SCAQMD guidance, the Risk Management Policy using the Derived Method was used to estimate cancer risk and the OEHHA Derived Method was used to estimate chronic noncancer risk (SCAQMD 2017b). The cancer and noncancer risk results were then compared to SCAQMD thresholds to assess project impact significance. Principal parameters of this modeling are presented in Table 3.3-5. The results of the HRA analysis are presented in Table 3.3-6.

Table 3.3-5. Construction Health Risk Assessment AERMOD Construction Principal Parameters

Parameter	Details
Meteorological Data	The latest 5-year (2010–2012, 2015–2016) meteorological data for the Pico Rivera station (PICO, Station ID 3166) from SCAQMD were downloaded, then input to AERMOD.
Urban versus Rural Option	Urban areas typically have more surface roughness as well as structures and low-albedo surfaces that absorb more sunlight—and thus more heat—relative to rural areas. According to SCAQMD guidelines, the urban dispersion option was selected.
Terrain Characteristics	Digital elevation model files were imported into AERMOD so that complex terrain features were evaluated as appropriate. Per SCAQMD guidance, the National Elevation Dataset with resolution of 1/3 arc-second was used (SCAQMD 2022).

9 Period-averaging periods means entire met data period averaging.

10 Under California regulatory guidelines, DPM is used as a surrogate measure of carcinogen exposure for the mixture of chemicals that make up diesel exhaust as a whole. The California Environmental Protection Agency has concluded that "potential cancer risk from inhalation exposure to whole diesel exhaust will outweigh the multi-pathway cancer risk from the speciated components" (OEHHA 2015).

Table 3.3-5. Construction Health Risk Assessment AERMOD Construction Principal Parameters

Parameter	Details
Receptors	To ensure receptors in the nearby project area were adequately captured, a fine uniform Cartesian grid of receptors spaced 10 meters (33 feet) apart, 410 meters (1,345 feet) across, was included in the AERMOD run. To include all potential sensitive receptors in all directions of the project site that may be impacted by project construction, consistent with the SCAQMD recommendations for AERMOD (SCAQMD 2022), a coarse uniform Cartesian grid of receptors spaced 50 meters (164 feet) apart, 1,000 meters (3,281 feet) from the project site was placed around the project site. All Cartesian grid receptors were then converted to discrete receptors.
Emission Sources and Source Release Parameters	Air dispersion modeling of construction activities was conducted using emissions generated using CalEEMod, assuming 5 days per week and 22 days per month. For cancer or chronic noncancer risk assessments, the average cancer risk of all years modeled was used. The construction equipment DPM emissions were modeled as a line of adjacent volume sources where construction activity is anticipated to occur. The line of adjacent volume sources was assumed to have a release height of 5 meters, a plume height of 10 meters, and a plume width of 9 meters (SCAQMD 2008b).

Source: See Appendix A for detailed results.
Notes: AERMOD = American Meteorological Society/EPA Regulatory Model; SCAQMD = South Coast Air Quality Management District; DPM = diesel particulate matter; CalEEMod = California Emissions Estimator Model.

Table 3.3-6. Construction Health Risk Assessment Results - Unmitigated

Impact Parameter	Units	Project Impact	CEQA Threshold	Level of Significance
MICR (residential)	Per Million	53	10.0	**Potentially Significant**
HIC	Not Applicable	0.035	1.0	Less than Significant

As shown in Table 3.3-6, the results of the HRA demonstrate that the TAC exposure from construction diesel exhaust emissions would result in a cancer risk above the 10 in 1 million threshold and a Chronic Hazard Index less than 1. Therefore, TAC emissions from construction of the project would result in a potentially significant impact. MM-AQ-2, which requires use of Tier 4 Final engines for off-road equipment to reduce DPM emissions during project construction would be incorporated into the project, as detailed below.

Table 3.3-7 summarizes the results of the HRA after implementation of MM-AQ-2 for construction of the proposed project. After mitigation, TAC exposure from construction diesel exhaust emissions would result in cancer risk below the 10 in 1 million threshold and the Chronic Hazard Index would still be less than the 1.0 threshold. Therefore, after mitigation, the project would result in a less-than-significant impact related to exposure to TAC emissions during construction.

Table 3.3-7. Construction Health Risk Assessment Results - Mitigated

Impact Parameter	Units	Project Impact	CEQA Threshold	Level of Significance
MICR (residential)	Per Million	8.16	10.0	Less than Significant
HIC	Not Applicable	0.035	1.0	Less than Significant

Health Effects of Criteria Pollutants

Construction and operation of the project would generate criteria air pollutant emissions. However, due to the nature of the project and the short duration of construction, which would last approximately 18 months, the project would not exceed the SCAQMD mass-emission thresholds, as shown in Table 3.3-2.

The SCAB is designated as nonattainment for O_3 for the NAAQS and CAAQS. Thus, existing O_3 levels in the SCAB are at unhealthy levels during certain periods. Health effects associated with O_3 include respiratory symptoms, worsening of lung disease leading to premature death, and damage to lung tissue (CARB 2021). 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 SCAB due to O_3 precursor emissions tend to be found downwind of the source location because of the time required for the photochemical reactions to occur. 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 NAAQS and CAAQS tend to occur between April and October when solar radiation is highest. Due to the lack of quantitative methods to assess this complex photochemistry, the holistic effect of a single project's emissions of O_3 precursors is speculative. Because the project would not involve activities that would result in O_3 precursor emissions (i.e., VOCs or NO_x) that would exceed the SCAQMD thresholds, as shown in Table 3.3-2, the project is not anticipated to substantially contribute to regional O_3 concentrations and its associated health impacts during construction or operation.

In addition to O_3, NO_x emissions contribute to potential exceedances of the NAAQS and CAAQS for NO_2. Health effects associated with NO_x include lung irritation and enhanced allergic responses (CARB 2021). As shown in Table 3.3-2, project construction and operations would not exceed the SCAQMD NO_x threshold and existing ambient NO_2 concentrations would be below the NAAQS and CAAQS. Thus, the project is not expected to result in exceedances of the NO_2 standards or contribute to associated health effects.

Health effects associated with CO include chest pain in patients with heart disease, headache, light-headedness, and reduced mental alertness (CARB 2021). CO hotspots were discussed previously as a less-than-significant impact. Thus, the project's CO emissions would not contribute to the health effects associated with this pollutant.

The SCAB is designated as nonattainment for PM_{10} under the CAAQS and nonattainment for $PM_{2.5}$ under the NAAQS and CAAQS. Health effects associated with PM_{10} include premature death and hospitalization, primarily for worsening of respiratory disease (CARB 2021). As with O_3 and NO_x, and as shown in Table 3.3-2, the project would not generate emissions of PM_{10} or $PM_{2.5}$ that would exceed the SCAQMD's thresholds. Accordingly, the project's PM_{10} and $PM_{2.5}$ emissions are not expected to cause an increase in related regional health effects for this pollutant.

In summary, the project would not result in a potentially significant contribution to regional concentrations of nonattainment pollutants and would not result in a significant contribution to the adverse health effects associated with those pollutants. Therefore, impacts would be less than significant.

MM-AQ-1 Fugitive Dust During Construction. The City shall water exposed soil during construction three times daily. The City shall also replace ground cover of area disturbed during construction.

MM-AQ-2 Require Use of Tier 4 Off-Road Equipment During Construction. Prior to the commencement of construction activities for the project, the Applicant shall require its construction contractor to demonstrate that all 75-horsepower or greater diesel-powered equipment is powered with California Air Resources Board–certified Tier 4 Final engines.

An exemption from this requirement may be granted if (1) the City documents that equipment with Tier 4 Final engines is not reasonably available and (2) the required corresponding reductions in criteria air pollutant emissions can be achieved for the project from other combinations of construction equipment. Before an exemption may be granted, the City's construction contractor shall (1) demonstrate that at least two construction fleet owners/operators in the County of Los Angeles were contacted and that those owners/operators confirmed Tier 4 equipment could not be located within the County of Los Angeles during the desired construction schedule and (2) the proposed replacement equipment has been evaluated using California Emissions Estimator Model or other industry standard emission estimation method and documentation provided to the City to confirm that necessary project-generated emissions reductions are achieved.

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

Less-than-Significant Impact. The occurrence and severity of potential odor impacts depends 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, and architectural coatings. Such odors would disperse rapidly from the project site and generally occur at magnitudes that would not affect substantial numbers of people. Therefore, impacts associated with odors during construction would be less than significant.

3.4 Biological Resources

	Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
IV. BIOLOGICAL RESOURCES – Would the project:				
a) Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service?	☐	☐	☐	☒
b) Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations, or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service?	☐	☐	☐	☒
c) Have a substantial adverse effect on state or federally protected wetlands (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?	☐	☐	☐	☒
d) Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?	☐	☒	☐	☐
e) Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?	☐	☐	☐	☒
f) Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan?	☐	☐	☐	☒

Dudek conducted a literature review and field visit to determine the existing biotic and abiotic conditions and the presence of sensitive biological resources within the project site and a 100-foot buffer (study area).

Literature Review

The following data sources were reviewed to assist with the analyses:

- California Department of Fish and Wildlife (CDFW) California Natural Diversity Database (CDFW 2022a)
- U.S. Fish and Wildlife Service (USFWS) Information for Planning and Consultation (USFWS 2022a)
- California Native Plant Society's Online Inventory of Rare and Endangered Vascular Plants (CNPS 2022)
- USFWS Wetland Mapper online viewer (USFWS 2022b)
- U.S. Department of Agriculture Web Soil Survey (USDA 2022)
- CDFW Biogeographic Information and Observation System (CDFW 2022b)
- Current and historical aerial imagery and topographic maps (Google Earth 2022; NETR 2022)

Field Visit

Dudek Biologist Tracy Park performed a field survey on August 8, 2022. Temperatures during the survey were between 79°F and 84°F, with 0% cloud cover and wind speeds ranging between 0 and 1 miles per hour. The biological survey included vegetation mapping, the mapping of sensitive biological resources (if present) within the study area, and an evaluation of the potential for special-status species to occur. The species lists are included as Appendix B to this MND.

a) ***Would the project have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service?***

No Impact. There are 55 special-status plant species and 34 special-status wildlife species with recorded occurrences in the U.S. Geologic Survey's South Gate California 7.5-minute topographic quadrangle, in which the project is located, and surrounding eight quadrangles (CDFW 2022a; CNPS 2022; USFWS 2022a). The study area primarily supports two land cover types (ornamental plantings and urban/developed), as shown in Figure 5, Existing Vegetation Communities; therefore, any species identified as a candidate, sensitive, or special-status species in local or regional plans, policies, or regulations, or by CDFW or USFWS, is not expected to occur due to the lack of suitable habitat. No impact to these biological resources would occur as a result of the project.

b) ***Would the project have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations, or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service?***

No Impact. The study area predominantly supports two land cover types (ornamental plantings and urban/developed), as shown in Figure 5, and the project site is within upland areas. The park does include a closed-system artificial pond and stream along the southern boundary; however, these features do not contain any significant stands of vegetation and are likely subject to water treatment based on the presence of blue dye in the water. Both features would remain in place with enhanced native vegetation post-construction. The study area does not contain any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations, or by CDFW or USFWS. No impact to these biological resources would occur as a result of the project.

c) Would the project have a substantial adverse effect on state or federally protected wetlands (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?

No Impact. Refer to Section 3.4(b). The study area does not contain any state or federally protected wetlands; no impact to these resources would occur as a result of the project.

d) Would the project interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?

Less-than-Significant Impact with Mitigation Incorporated. Common domesticated and/or naturalized waterfowl species, such as domestic mallard (*Anas platyrhynchos domesticus*), swan goose (*Answer cygnoides*), and Muscovy duck (*Carina moschata*), were observed during biological resources surveys conducted for the project. The study area does not occur within any designated wildlife corridors or habitat linkages, so impacts on wildlife corridors and habitat connectivity would not occur as a result of the project. However, on-site trees and shrubs provide suitable nesting habitat for bird species protected under the Migratory Bird Treaty Act (16 USC 703–712) and California Fish and Game Code Sections 3503.5, 3503, and 3513. Vegetation trimming or removal associated with the project could cause mortality to young or breeding adults and/or destruction of eggs or active nests if occurring during the general nesting season of February 1 through August 31. Implementation of MM-BIO-1, which requires nesting bird avoidance, would reduce potential direct impacts to nesting birds to a less-than-significant level.

Potential short-term indirect impacts to special-status wildlife could result from noise generated by construction activities conducted during the avian breeding season (February 1 through August 31). Construction-related noise has the potential to disrupt reproductive and feeding activities for nesting birds, potentially causing mortality due to the abandonment of an active nest. These indirect impacts would be considered significant, absent mitigation. Project implementation of MM-BIO-1 (nesting bird avoidance) would reduce these potential indirect impacts to nesting birds to a less-than-significant level.

MM-BIO-1 Nesting Bird Avoidance. Project construction shall be conducted in compliance with the conditions set forth in the Migratory Bird Treaty Act and California Fish and Game Code to protect active bird/raptor nests. Vegetation removal shall occur during the non-breeding season for nesting birds and nesting raptors (October 1–January 31) to avoid impacts to nesting birds and raptors. If the project requires that work be initiated during the breeding season for nesting birds (March 1–September 30) and nesting raptors (February 1–June 30), in order to avoid direct impacts on active nests, a preconstruction survey shall be conducted in the study area by qualified biologists for nesting birds and/or raptors within 3 days prior to project activities. If the biologist does not find any active nests within or immediately adjacent to the impact areas, the vegetation clearing/construction work shall be allowed to proceed.

If the biologist finds an active nest within or immediately adjacent to the construction area and determines that the nest may be impacted or breeding activities substantially disrupted, the biologist shall delineate an appropriate buffer zone around the nest depending on the sensitivity of the species and the nature of the construction activity. To protect any nest site, the following restrictions to construction activities shall be required until nests are no longer active, as determined by a qualified biologist: (1) clearing limits

shall be established within a buffer around any occupied nest and (2) access and surveying shall be restricted within the buffer of any occupied nest, unless otherwise determined by a qualified biologist. The buffer shall be 100–300 feet for non-raptor nesting birds and 300–500 feet for nesting raptors. Construction can proceed into the buffer when the qualified biologist has determined that the nest is no longer active.

e) Would the project conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?

No Impact.. The project entails removal of 24 existing trees and replacement with 88 trees within Spane Park, resulting in a net increase in trees. Construction would comply with Section 12.32.030, Public Tree Care, of the City's Municipal Code, as it relates to the trimming, planting, and removal of trees within Spane Park. The project would not conflict with any local policies or ordinances protecting biological resources and no impact would occur.

f) Would the project conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan?

No Impact. The study area is not within any habitat conservation plan, natural community conservation plan, or other approved local, regional, or state habitat conservation plan (CDFW 2019). As such, the project would not conflict with the provisions of an adopted conservation plan and no impact would occur.

3.5 Cultural Resources

	Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
V. CULTURAL RESOURCES – Would the project:				
a) Cause a substantial adverse change in the significance of a historical resource pursuant to §15064.5?	☐	☐	☒	☐
b) Cause a substantial adverse change in the significance of an archaeological resource pursuant to §15064.5?	☐	☒	☐	☐
c) Disturb any human remains, including those interred outside of formal cemeteries?	☐	☐	☒	☐

This section is based on the results of archival research, including a search of the California Historical Resources Information System (CHRIS) database, and a pedestrian survey conducted by Dudek.

Geology and Soils Setting

According to the to the Natural Resources Conservation Service Web Soil Survey (USDA 2022), soils within the project site predominantly consist of the urban land-Hueneme, drained-San Emigdio complex and is composed of the following: urban land (45%), Hueneme (20%), San Emigdio (15%), Pico (10%), Xerothents (5%), and Metz (5%).

This soil complex accounts for approximately 80% of the project site. The remaining 20% of the project site consists of urban land-Metz-Pico complex and is composed of the following: urban land (45%), Metz (20%), Pico (15%), Hueneme (5%), San Emigdio (5%), Corralitos (5%), and Xerothents (5%).

The dominant soil series within the project site, urban land, refers to soils in areas of high population density in a largely built environment and can include human-transported or human-altered materials, minimally altered materials, or intact native soils (USDA 2019). The horizontal or slope data for this series are associated with soils that have been significantly altered by human activities and therefore associated with nearly level or low slopes (USDA 2022).

A review of the U.S. Geological Survey mineral resources (USGS 2022) online spatial data for geology indicates that existing development is underlain by Quaternary alluvium and marine deposits, generally dating between the Pleistocene and the Holocene geologic age. The terminal Pleistocene-era and Holocene-era alluvial formations do have the potential to support the presence of buried archaeological resources. These soils are associated with the period of prehistoric human use and represent ongoing processes of development that have potential to preserve cultural material in context, depending on area-specific topographical setting.

Archival Research

On May 19, 2022, Dudek conducted a search of the CHRIS at the South Central Coastal Information Center (SCCIC), located at California State University, Fullerton. The search included any previously recorded cultural resources and investigations within a 0.5-mile radius of the project site. The CHRIS search also included a review of the National Register of Historic Places, the California Register of Historical Places (CRHR), the California Points of Historical Interest list, the California Historical Landmarks list, the Archaeological Determinations of Eligibility list, and the California State Historic Resources Inventory list.

Results of the CHRIS database records search indicate that 13 previous cultural resource studies have been conducted within the records search area between 1975 and 2016. None of the studies identified address the project site. The closest area studied is located approximately 645 meters (2117 feet) southeast of the project site. The entirety of the project site has not been subject to previous cultural investigations. Previous cultural resources studies within a 0.5-mile radius of the project site are presented in Appendix C (confidential).

The SCCIC records indicate that two cultural resources have been previously recorded within 0.5 miles of the project site, neither of which are located within or adjacent to the project site. Both resources are historic built environment resources, including one residence and one electrical transmission line. No historic-period or prehistoric archaeological resources were identified within 0.5 miles of the project site. Recorded cultural resources identified within the records research radius are presented in Appendix C (confidential).

In addition to the SCCIC records search, Dudek consulted historical topographic maps and aerial photographs through Nationwide Environmental Title Research LLC and the U.S. Geological Survey Historical Topographic Map Explorer (USGS 2022) to better understand any natural or human-made changes to the project site and surrounding properties over time.

Native American Heritage Commission Sacred Lands File Search

As part of the process of identifying cultural resources within or near the proposed project, Dudek requested a search of the Sacred Land Files (SLF) maintained by the Native American Heritage Commission (NAHC) the present

project site (completed June 22, 2022). The SLF search was conducted to determine the presence of any reported Native American cultural resources within proximity of the project site as listed in the NAHC-maintained SLF. The NAHC SLF records search results were negative. The NAHC identified nine Native American individuals who would potentially have specific knowledge as to whether or not Native American cultural resources are identified within the project boundaries. In accordance with Assembly Bill (AB) 52, the City has contacted all tribal representatives who were provided by the NAHC as traditionally and geographically affiliated with the project area and who have formally requested notification of projects under the City's jurisdiction. These efforts are summarized in Section 3.18, Tribal Cultural Resources, of this MND. Documentation of the NAHC SLF search results is provided in Appendix C (confidential).

Pedestrian Survey

Following review of the records search results, Dudek Archaeologist Linda Kry, BA, RA, conducted an archaeological pedestrian survey of the project site on July 29, 2022. In consideration of the geotechnical report findings and present use of the project site as a recreational facility with maintained lawns, turf field, and other existing ancillary facilities, significantly limiting ground surface visibility, an intensive-level archaeological pedestrian survey was not conducted. Alternatively, a mixed approach (opportunistic survey) and reconnaissance survey (visual inspection) were used, selectively examining areas of exposed ground surfaces, where possible.

The ground surface was inspected for prehistoric artifacts (e.g., flaked stone tools, tool-making debris, ground stone tools, ceramics, fire-affected rock), soil discoloration that might indicate the presence of a cultural midden, soil depressions, features indicative of structures and/or buildings (e.g., standing exterior walls, post holes, foundations), and historical artifacts (e.g., metal, glass, ceramics, building materials). Ground disturbances such as rodent burrows, cut banks, landscaped areas, base of trees, and drainages were also visually inspected for exposed subsurface materials. The field reconnaissance survey identified no cultural resources within the project site.

a) Would the project cause a substantial adverse change in the significance of a historical resource pursuant to §15064.5?

Less-than-Significant Impact. As defined by the CEQA Guidelines (14 CCR 15000 et seq.), a "historical resource" is considered to be a resource that is listed in or eligible for listing in the National Register of Historic Places or CRHR, has been identified as significant in a historical resource survey, or is listed on a local register of historical resources. Under CEQA, a project may have a significant effect on the environment if it may cause "a substantial adverse change in the significance of an historical resource" (PRC Section 21084.1; 14 CCR 15064.5[b]). If a site is listed or eligible for listing in the CRHR, or included in a local register of historic resources, or identified as significant in a historical resources survey (meeting the requirements of PRC Section 5024.1[q]), it is a historical resource and is presumed to be historically or culturally significant for the purposes of CEQA (PRC Section 21084.1; 14 CCR 15064.5[a]).

A review of historical aerial photographs indicates that the project site has been subjected to consistent ground disturbance for several decades, shifting from undeveloped land in the late 1890s to agricultural use in the 1950s and transforming steadily to include the development of buildings between the early 1980s to the late 1980s. By 1991, the project site is shown to be consistent with the present site conditions.

A review of the CHRIS database records search for the project site identified two historic built environment resources; neither of these resources are within or adjacent to the project site. Additionally, no archaeological resources have been previously recorded within the project site or 0.5-mile records search

area. An archaeological pedestrian survey of the project site did not identify any archaeological resources within the project footprint that are historic in age. Additionally, the results of the cultural resources research and pedestrian survey indicate no known historical resources pursuant to CEQA Guidelines Section 15064.5 are within or adjacent to the project site. Therefore, the project would not cause a substantial adverse change in the significance of a historical resource, and impacts would be less than significant. The potential for a yet-unknown archaeological resource that could potentially be considered a historical resource is addressed in Section 3.5(b).

b) Would the project cause a substantial adverse change in the significance of an archaeological resource pursuant to §15064.5?

Less-than-Significant Impact with Mitigation Incorporated. A CHRIS database records search, NAHC SLF search, background research (including a review of a geotechnical report), and archaeological pedestrian survey were conducted as in support of the project. As discussed under Section 3.5(a), the CHRIS records search identified two previously recorded historic built environment resources within the 0.5-mile records search area. No previously recorded historic-period or prehistoric archaeological resources are on file with the SCCIC as being present within project site. Additionally, a search of the NAHC's SLF database yielded negative results for any reported tribal cultural resources within proximity to or within the project site.

A review of a geotechnical reports prepared for the project site determined that fills soils were encountered from the surface to between 2 and 9 feet below existing ground surface within all eight exploratory boring locations. Current project design indicates that the minimum depth of ground disturbance for the project site is 5 feet below the existing ground surface for removal and replacement of existing structures, landscaping, and utility and ancillary improvements, with a maximum depth of approximately 30 feet below the existing ground surface for the underground stormwater capture and filtration facility within the central portion of the project site.

No cultural materials were observed within the project site as a result of the archaeological pedestrian survey. The geotechnical study conducted for the project indicates the project site is predominantly covered in fill soils, although the origin of the soils was not identified. The presence of fill soils demonstrates that native soils within which cultural deposits might exist in context could not have been observed during the survey; thus, the survey findings are less than reliable. Any exposed soils observed during the survey were likely fill soils and not a good representation of the native soils present prior to development/ground disturbing activities.

In consideration of all these factors, the potential to encounter intact deposits containing archaeological resources within soils from the current grade and between 2 and 9 feet below existing ground surface is low. However, the potential for intact cultural deposits to exist within native soils (below between 2 and 9 feet below ground surface) at the depths of proposed ground disturbance (5 feet to 30 feet below ground surface) is unknown. The project site should be treated as potentially sensitive for archaeological resources. In the event that unanticipated archaeological resources are encountered during project implementation, impacts to these resources would be potentially significant.

Thus, mitigation is required to address impacts related to the inadvertent discovery of archaeological resources during construction, as outlined in MM-CUL-1, MM-CUL-2, and MM-CUL-3. MM-CUL-1 requires that all project construction personnel participate in a Workers Environmental Awareness Program training

for the proper identification and treatment of inadvertent discoveries of cultural resources. MM-CUL-2 requires the retention of an on-call qualified archaeologist to respond to and address inadvertent discoveries and survey the project site after the removal of fill soils to determine if there is evidence of cultural deposits currently underlying the fill layer. MM-CUL-3 requires construction work occurring within 50 feet of a cultural resource discovery to be immediately halted until the qualified archaeologist, meeting the Secretary of Interior's Professional Qualification Standards for Archaeology, can assess and evaluate the discovery pursuant to CEQA. Additionally, MM-CUL-3 requires the inadvertent discovery clause be included on all construction plans. With implementation of MM-CUL-1, MM-CUL-2, and MM-CUL-3, potentially significant impacts to unknown archaeological resources would be reduced to less than significant with mitigation incorporated.

MM-CUL-1 Workers Environmental Awareness Program. Prior to the start of construction activities, all construction personnel and monitors shall be trained regarding identification and treatment protocol for inadvertent discoveries of cultural resources (archaeological and tribal) and human remains. A basic presentation and handout or pamphlet shall be prepared in order to ensure proper identification and treatment of inadvertent discoveries of cultural resources and human remains. The purpose of the Workers Environmental Awareness Program training is to provide specific details on the kinds of materials that may be identified during ground disturbing activities and explain the importance of and legal basis for the protection of human remains and significant cultural resources. Each worker shall also be trained in the proper procedures to follow in the event that cultural resources or human remains are uncovered during ground disturbing activities. These procedures include but are not limited to work curtailment or redirection and the immediate contact of the site supervisor and archaeological monitoring staff.

MM-CUL-2 Retention of an On-Call Qualified Archaeologist. A qualified archaeologist shall be retained and on-call to respond to and address any inadvertent discoveries identified during project implementation. Additionally, in consideration of the potential to encounter intact cultural deposits beneath fill soils, the qualified archaeologist shall survey the project site once fill soils have been removed to ensure no cultural deposits underlie the fill layer. If it is determined, based on the aforementioned survey, that cultural resources are present or may be present and may be impacted during project construction, monitoring may be warranted. Any identified cultural resources shall be assessed and evaluated pursuant to the California Environmental Quality Act. If it is determined that monitoring is warranted, a qualified archaeological principal investigator, meeting the Secretary of the Interior's Professional Qualification Standards, shall oversee and adjust monitoring efforts as needed (increase, decrease, or discontinue monitoring frequency) based on the observed potential for construction activities to encounter cultural deposits or material. The archaeological monitor will be responsible for maintaining daily monitoring logs.

MM-CUL-3 Inadvertent Discovery Clause. In the event that potential archaeological resources sites, features, or artifacts) are exposed during ground disturbing activities, all construction work occurring within at least 50 feet of the find shall immediately stop and the qualified archaeologist that has been retained on call must be notified immediately to assess the significance of the find and determine whether or not additional study is warranted. Depending upon the significance of the find under the California Environmental Quality Act

(CEQA), the archaeologist may simply record the find and allow work to continue. If the discovery proves significant under CEQA, additional work (e.g., preparation of an archaeological treatment plan, testing, data recovery, or monitoring) may be warranted if the resource cannot be feasibly avoided. If the discovery is Native American in nature, consultation with and/or monitoring by a tribal representative may be necessary.

c) Would the project disturb any human remains, including those interred outside of formal cemeteries?

Less-than-Significant Impact. No prehistoric or historic period burials, including those interred outside of formal cemeteries, were identified within the project site as a result of the CHRIS records search or pedestrian survey. In the event that human remains are inadvertently encountered during ground disturbing activities, they shall be treated consistent with state and local regulations including California Health and Safety Code Section 7050.5, PRC Section 5097.98, and the California Code of Regulations Title 14 Section 15064.5(e). In accordance with these regulations, if human remains are found, the county coroner must be immediately notified of the discovery. No further excavation or disturbance of the project site or any nearby (no less than 100 feet) area reasonably suspected to overlie adjacent remains can occur until the county coroner has determined if the remains are potentially human in origin. If the county coroner determines that the remains are, or are believed to be, Native American, he or she is required to notify the NAHC, which shall notify those persons believed to be the most likely descendant. The most likely descendant shall determine, in consultation with the property owner, the disposition of the human remains. Compliance with these regulations would ensure that impacts to human remains resulting from the project would be less than significant.

3.6 Energy

	Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
VI. Energy – Would the project:				
a) Result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation?	☐	☐	☒	☐
b) Conflict with or obstruct a state or local plan for renewable energy or energy efficiency?	☐	☐	☒	☐

a) Would the project result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation?

Less-than-Significant. Project implementation would result in energy use for construction and operation, including use of electricity, natural gas, and petroleum-based fuels.

The proposed project's impact on energy resources is discussed separately below for construction and operation. Dudek estimated energy consumption (electricity, natural gas, and petroleum consumption)

using CalEEMod data from the air quality and GHG assessment, which in turn was based on assumptions developed in consultation with the project design engineers. For further detail on the assumptions and results of the energy analysis, please refer to Appendix A.

Construction Energy Use

Electricity

Electricity consumed during project construction would vary throughout the construction period based on the construction activities being performed. Various construction activities would require electricity, including conveying water that would be used for dust control (supply and conveyance), powering any necessary lighting or electronic equipment, or other construction activities necessitating electrical power. Such electricity demand would be temporary, nominal, and would cease upon the completion of construction. Southern California Edison is the electricity provider to the project site and provided approximately 81,000 gigawatt-hours of electricity in 2019 (CEC 2022). Overall, construction activities associated with the proposed project would require limited electricity consumption that would not be expected to have an adverse impact on available Southern California Edison electricity supplies and infrastructure. Therefore, the use of electricity during project construction would not be wasteful, inefficient, or unnecessary.

Natural Gas

There would be no natural gas used during construction. Equipment and vehicles would be powered by petroleum-based fuels as discussed below. Therefore, the use of natural gas during project construction would not be wasteful, inefficient, or unnecessary.

Petroleum-Based Fuels

Petroleum-based fuel usage represents most energy consumed during construction. Petroleum fuels would be used to power off-road construction vehicles and equipment on the project site, construction worker travel to and from the project site, and delivery and haul truck trips (e.g., hauling of material to disposal facilities).

Fuel consumption from construction equipment and vehicles was estimated by converting the total carbon dioxide (CO_2) emissions from each construction phase to gallons using the conversion factors for CO_2 to gallons of gasoline or diesel. All off-road equipment and hauling and vendor trucks are assumed to be diesel, and worker vehicles are assumed to be gasoline. For the purposes of energy estimation, construction is anticipated to occur between 2023 and 2025, over an 18-month duration. The conversion factor for gasoline is 8.78 kilograms per metric ton CO_2 per gallon, and the conversion factor for diesel is 10.21 kilograms per metric ton CO_2 per gallon (The Climate Registry 2021). The estimated diesel fuel usage from construction equipment for Phase I and Phase II of the project is shown in Table 3.6-1.

Table 3.6-1. Estimated Construction Fuel Use

Source	Fuel Use (gallons)	
	Diesel	Gasoline
Offroad Equipment	23,909	0
Haul Trucks	7,203	0
Vendor Trucks	603	0
Worker Trips (passenger vehicles)	0	4,496
Total	**31,715**	**4,496**

Source: Conversion factors from The Climate Registry (2021).
See Appendix A for complete results.

As shown in Table 3.6-1, construction of the project is anticipated to consume 4,496 gallons of gasoline and 31,715 gallons of diesel. The proposed project would be required to comply with CARB's Airborne Toxics Control Measure, which restricts heavy-duty diesel vehicle idling time to 5 minutes. Furthermore, the proposed project would be subject to CARB's In-Use Off-Road Diesel Vehicle Regulation that requires the vehicle fleet to reduce emissions by retiring, replacing, or repowering older engines or installing Verified Diesel Emissions Control Strategies. Therefore, impacts associated with construction would be less than significant.

Operational Energy Use

Once construction is complete, operation of the proposed project would involve routine maintenance activities performed by the City. Proposed park improvements would not expand the footprint of Spane Park or result in a major expansion of facilities that would induce substantial demand or park users. The energy used for maintenance purposes would be minimal and would decrease over time, as staff vehicles and equipment become increasingly efficient, in accordance with the energy efficiency and GHG reduction standards. Thus, the project would result in minimal energy consumption during operation, including petroleum consumption from staff vehicle trips and electricity consumption from operation of maintenance equipment; the project's operational energy use would be less than significant.

b) Would the project conflict with or obstruct a state or local plan for renewable energy or energy efficiency?

Less-than-significant. The proposed project would follow applicable energy standards and regulations during the construction phases. Worker vehicles would meet the applicable standards of AB 1493 (vehicles manufactured 2009 or later) and, as a result, would likely consume less energy as fuel efficiency standards are increased and vehicles are replaced. In addition, the proposed project would be built and operated in accordance with all existing, applicable regulations at the time of construction. Impacts related to the project's potential to conflict with plans for renewable energy and energy efficiency would be less than significant.

3.7 Geology and Soils

	Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
VII. GEOLOGY AND SOILS – Would the project:				
a) Directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving:				
i) Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42.	☐	☐	☒	☐
ii) Strong seismic ground shaking?	☐	☐	☒	☐
iii) Seismic-related ground failure, including liquefaction?	☐	☐	☒	☐
iv) Landslides?	☐	☐	☐	☒
b) Result in substantial soil erosion or the loss of topsoil?	☐	☐	☒	☐
c) Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction or collapse?	☐	☐	☒	☐
d) Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial direct or indirect risks to life or property?	☐	☐	☒	☐
e) Have soils incapable of adequately supporting the use of septic tanks or alternative waste water disposal systems where sewers are not available for the disposal of waste water?	☐	☐	☐	☒
f) Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?	☐	☒	☐	☐

Ninyo & Moore prepared a geotechnical evaluation for the proposed project. The geotechnical evaluation is included as Appendix D to this MND. Further detail on the background and methodologies regarding the geology and soils analysis is found in Appendix D.

a) Would the project directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving:

i) Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42.

and

ii) Strong seismic ground shaking?

Less-than-Significant Impact. The project is located within a seismically active region, as is most of the Southern California region. The project would likely be exposed to seismic ground shaking at multiple points in the future. The intensity of ground shaking at any specific location within the region depends on the characteristics of the earthquakes, the distance from the earthquake epicenter, and the local geologic and soil conditions. Earthquake fault zones are delineated boundaries encompassing active faults that constitute potential hazards to structures from surface faulting or fault creep (DOC 2018). The project site is not located within an Alquist-Priolo Earthquake Fault Zone; the nearest fault (Puente Hills Fault) is located approximately 2.1 miles northeast of the project site (Appendix D). The project would also operate passively beyond the proposed pump to divert stormwater flows into the storage facility, which would not directly or indirectly increase or exacerbate the potential for fault rupture. The project would contain no habitable structures or other structural development intended for human occupancy. Compliance with applicable seismic design requirements would reduce the potential risk to both people and structures, including the proposed storage reservoir and restroom facility, with respect to strong seismic ground shaking. As part of the project design process, continued geotechnical investigations would be performed to inform final design of the project relative to potential geotechnical risks. Therefore, the project would not directly or indirectly cause potential adverse effects involving rupture of a known earthquake fault, and impacts would be less than significant.

iii) Seismic-related ground failure, including liquefaction?

Less-than-Significant Impact. Liquefaction occurs when pore water pressure builds up in the affected soil layer to a point where a total loss of shear strength may occur during a seismic event, causing the soil to behave as a liquid. Liquefaction is known generally to occur in saturated or near saturated cohesionless soils at depths shallower than 50 feet. Factors known to influence liquefaction potential include composition and thickness of soil layers, grain size, relative density, groundwater level, degree of saturation, and both intensity and duration of ground shaking. The State of California Hazard Zones map indicates that the subject site is located in an area mapped as being potentially susceptible to liquefaction; as part of the geotechnical evaluation, soils were tested for liquefaction potential using cone penetrating tests (Appendix D). Groundwater depth at the time of performance of the cone penetrating tests was approximately 50 feet below ground surface and the historic high depth to groundwater at the site is 8 feet (Appendix D). In the event that the groundwater level were to rise, under the right conditions, underlying soils are susceptible to liquefaction during a seismic event (Appendix D). Full project design would include engineering design standards associated with seismic events, including liquefaction. Standard design and construction techniques such as spread footings, mat foundations, or other design considerations would be incorporated per California Building Code requirements, minimizing hazards due to liquefaction. Therefore, impacts would be less than significant.

iv) Landslides?

No Impact. Landslides typically occur on moderate to steep slopes that are affected by such physical factors as slope height, slope steepness, shear strength, and orientation of weak layers in the underlying geologic units. The project site and surroundings are generally flat with soils stabilized by development and landscaping. The project would not result in the creation of moderate to steep slopes that may become susceptible to landslides. As such, no impact would occur.

b) Would the project result in substantial soil erosion or the loss of topsoil?

Less-than-Significant Impact. Construction of the project would require earthwork activities that could potentially contribute to soil erosion or loss of topsoil. Construction of the project would result in more than 1 acre of land disturbance; therefore, a site-specific SWPPP in accordance with SWRCB Order No. 2009-0008-DWQ, National Pollutant Discharge Elimination System General Permit No. CAS00002 (Construction General Permit), amended by Order No. 2010-0014-DWQ and Order No. 2012-0006-DWQ, would be prepared and implemented during project construction. One of the purposes of the SWPPP is to address potential pollutants and their sources, including sources of sediment and site erosion. Conditions of these existing regulations would include adherence to sediment and stormwater pollutant control BMPs, such as covering of exposed soil stockpiles, sediment barriers, storm drain protection, and various other measures designed to minimize potential for soil erosion and loss of topsoil. Disturbed areas would be returned to existing conditions or stabilized by new field replacement, asphalt, or landscape plantings. Operation of the proposed stormwater capture and filtration facility would not affect erosion. Therefore, the project would not result in substantial soil erosion of the loss of topsoil and impacts would be less than significant.

c) Would the project be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction or collapse?

Less-than-Significant Impact. As previously discussed, the project site contains soils susceptible to liquefaction. Full project design would include continued geotechnical investigations to inform final design and construction of the project relative to minimization of potential geotechnical risks, including soil stability, per applicable California Building Code requirements. Therefore, the project would not exacerbate geotechnical hazards related to unstable soils and impacts would be less the significant.

d) Would the project be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial direct or indirect risks to life or property?

Less-than-Significant Impact. Expansive soils are clay-based and tend to increase in volume due to water absorption and decrease in water volume due to drying. The project site consists of undocumented fill underlain by young alluvium consisting of soft clay and silt and loose to moderately dense sand and silty sand (Appendix D). According to the geotechnical investigation, the on-site soils would be suitable for reuse and imported fill material would consist of clean, non-expansive, granular material (Appendix D). Therefore, soil expansion would not pose a potential concern for project implementation. If such conditions are encountered, the project would employ standard engineering protocols to limit the potential effects on project-related infrastructure. Therefore, impacts would be less than significant.

e) Would the project have soils incapable of adequately supporting the use of septic tanks or alternative waste water disposal systems where sewers are not available for the disposal of waste water?

No Impact. The project would not involve the use of septic tanks or alternative wastewater disposal systems. Therefore, no impact would occur.

f) Would the project directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?

Less Than Significant with Mitigation Incorporated. The project site and underlying soils have been previously disturbed by the development of the existing Spane Park, underlying infrastructure, and surrounding development.

Geotechnical borings indicated the project site consists of undocumented fill underlain by up to approximately 60 feet of Holocene alluvial deposits (Appendix D). However, caliche nodules and oxidation staining was reported from approximately 19–26 feet below ground surface in one of the borings. Caliche nodules and oxidation could indicate a middle to early Holocene or Pleistocene age of the sediments.

Dudek submitted a paleontological records search request to the Natural History Museum of Los Angeles County (LACM) of the project site and the surrounding vicinity on July 9, 2022, and the results were received on July 24, 2022. The LACM reported no fossil localities within the project site; however, they did report nearby Pleistocene terrestrial and marine fossil localities. The marine fossil locality, LACM IP (invertebrate paleontology) 7, produced oysters on a pecten (scallop) fragment from 735 feet below ground surface in a well near Compton. Mammoth (*Mammuthus*) were recovered from LACM VP (vertebrate paleontology) 3382, 3319, 3660, and 3365. LACM VP 3382 was collected in Compton at 5 feet below ground surface, LACM VP 3319 was collected at 30 feet below ground surface in Carson, LACM VP 3660 was collected at 19 feet below ground surface in Lakewood, and LACM VP 3365 was collected from an unknown depth in Athens on the Hill (Los Angeles). Finally, LACM VP 3266 produced unspecified vertebrates from 15 to 18 feet below ground surface in the West Athens area of Los Angeles.

With regards to paleontological resources, Holocene alluvial deposits have low sensitivity on the surface that increases to high with depth. The project has the potential for encountering previously undiscovered paleontological resources at subsurface levels during ground-disturbing activities. Implementation of MM-GEO-1 would reduce the project's potential impacts on paleontological resources during construction activities to below a level of significance.

MM-GEO-1 Prior to the commencement of any grading activity on site, the City of Paramount (City) shall retain a Qualified Professional Paleontologist (QPP). A QPP is defined as a person who has a PhD or MS or equivalent in paleontology or closely related field (e.g., sedimentary or stratigraphic geology, evolutionary biology), has a demonstrated knowledge of Southern California paleontology and geology, and has documented experience performing professional paleontological procedures and techniques. The QPP or a Qualified Paleontological Monitor (QPM) shall attend the pre-excavation meetings with representatives of the City and contractors to explain the importance of fossils, the laws protecting fossils, the need for mitigation, the types of fossils that might be discovered during excavation work, and the procedures that should be followed if fossils are discovered. A QPM is defined as an individual with at least 1 year of experience in field identification and collecting of fossil materials. The QPP, or a QPM under the direction and supervision of a QPP, shall be on site during original cutting of middle Holocene to Pleistocene-age

alluvial deposits. These deposits are anticipated below a depth of 15 feet below the ground surface. Monitoring of the noted geologic unit may be either increased or decreased after the original cutting depending upon if ongoing grading activities would involve cutting into native Pleistocene-age alluvium deposits, as determined by the qualified paleontologist. After 50% of excavations are complete in either an area or rock unit and no fossils of any kind have been discovered, the level of monitoring can be reduced or suspended entirely at the QPP's discretion.

1. In the event that well-preserved fossils are discovered, the QPP or QPM shall have the authority to temporarily halt or redirect construction activities in the discovery area to allow recovery in a timely manner. All collected fossil remains shall be cleaned, sorted, cataloged, and deposited in an appropriate paleontological repository as defined by the Society of Vertebrate Paleontology's 2010 Standard Procedures for the Assessment and Mitigation of Adverse Impacts to Paleontological Resources at the applicant's expense.
2. A Final Monitoring Report (with a map showing fossil site locations) summarizing the results, analyses, and conclusions of the above-described monitoring/recovery program shall be submitted to the project proponent and designated fossil repository (if fossils are recovered) within 3 months of terminating monitoring activities. The final report should emphasize the discovery of any new or rare taxa, or paleoecological or taphonomic significance. A complete set of field notes, geologic maps, and stratigraphic sections and a list of identified specimens must be included in or accompany the final report. This report should be finalized only after all aspects of the mitigation program are completed, including preparation, identification, cataloging, and curatorial inventory. The final report (with any accompanying documents) and repository curation of specimens and samples constitute the goals of a successful paleontological resource mitigation program. Full copies of the final report should be deposited with both the lead agency and the repository institution with the request that all locality data remain confidential and not made available to the general public.

3.8 Greenhouse Gas Emissions

	Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
VIII. GREENHOUSE GAS EMISSIONS – Would the project:				
a) Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?	☐	☐	☒	☐
b) Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?	☐	☐	☒	☐

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

Less-Than-Significant. GHGs are those that that absorb infrared radiation (i.e., trap heat) in the Earth's atmosphere. The trapping and buildup of heat in the atmosphere near the Earth's surface (the troposphere), is referred to as the "greenhouse effect," and is a natural process that contributes to the regulation of the Earth's temperature, creating a livable environment on Earth. The Earth's temperature depends on the balance between energy entering and leaving the planet's system, and many factors (natural and human) can cause changes in Earth's energy balance. Human activities that generate and emit 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. This rise in temperature has led to large-scale changes to the Earth's system (e.g., temperature, precipitation, wind patterns), which are collectively referred to as climate change. Global climate change is a cumulative impact; a project contributes to this impact through its incremental contribution combined with the cumulative increase of all other sources of GHGs. Thus, GHG impacts are recognized exclusively as cumulative impacts (CAPCOA 2008).

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 CO_2, methane (CH_4), nitrous oxide (N_2O), hydrofluorocarbons, perfluorocarbons, sulfur hexafluoride, and nitrogen trifluoride (see also CEQA Guidelines Section 15364.5). The primary GHGs that would be emitted by project-related construction and operations include CO_2, CH_4, and N_2O.[11]

The Intergovernmental Panel on Climate Change developed the global warming potential (GWP) concept to compare each GHG's ability to trap heat in the atmosphere relative to another gas. The reference gas used is CO_2; therefore, GWP-weighted emissions are measured in metric tons (MT) of CO_2 equivalent (CO_2e). Consistent with CalEEMod Version 2020.4.0, this GHG emissions analysis assumed the GWP for CH_4 is 25 (i.e., 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 Intergovernmental Panel on Climate Change's Fourth Assessment Report (IPCC 2007).

As discussed in Section 3.3, the proposed project is located within the jurisdictional boundaries of the SCAQMD. In October 2008, the SCAQMD proposed recommended numeric CEQA significance thresholds for GHG emissions for lead agencies to use in assessing GHG impacts of residential and commercial development projects as presented in its Draft Guidance Document—Interim CEQA Greenhouse Gas (GHG) Significance Threshold (SCAQMD 2008b). This document, which builds on the California Air Pollution Control Officers Association's previous guidance, explored various approaches for establishing a significance threshold for GHG emissions. The draft interim CEQA thresholds guidance document was not adopted or approved by the Governing Board. However, in December 2008, the SCAQMD adopted an interim 10,000 MT CO_2e per-year screening level threshold for stationary source/industrial projects for which the SCAQMD is the lead agency (SCAQMD 2010). The 10,000 MT CO_2e per-year threshold, which was derived from GHG reduction targets established in Executive Order S-3-05, was based on the

[11] Emissions of hydrofluorocarbons, perfluorocarbons, sulfur hexafluoride, and nitrogen trifluoride are generally associated with industrial activities, including the manufacturing of electrical components and heavy-duty air conditioning units and the insulation of electrical transmission equipment (substations, power lines, and switch gears.). Therefore, emissions of these GHGs were not evaluated or estimated in this analysis because the project would not include these activities or components and would not generate hydrofluorocarbons, perfluorocarbons, sulfur hexafluoride, and nitrogen trifluoride in measurable quantities.

conclusion that the threshold was consistent with achieving an emissions capture rate of 90% of all new or modified stationary source projects.

The SCAQMD formed a GHG CEQA Significance Threshold Working Group to work with SCAQMD staff on developing GHG CEQA significance thresholds until statewide significance thresholds or guidelines are established. From December 2008 to September 2010, the SCAQMD hosted working group meetings and revised the draft threshold proposal several times, although it did not officially provide these proposals in a subsequent document. The SCAQMD has continued to consider adoption of significance thresholds for residential and general land-use development projects. The most recent proposal issued by SCAQMD, issued in September 2010, uses the following tiered approach to evaluate potential GHG impacts from various uses (SCAQMD 2010):

Tier 1. Determine if CEQA categorical exemptions are applicable. If not, move to Tier 2.

Tier 2. Consider whether or not the proposed project is consistent with a locally adopted GHG reduction plan that has gone through public hearing and CEQA review, that has an approved inventory, includes monitoring, etc. If not, move to Tier 3.

Tier 3. Consider whether the project generates GHG emissions in excess of screening thresholds for individual land uses. The 10,000 MT CO_2e per-year threshold for industrial uses would be recommended for use by all lead agencies. Under option 1, separate screening thresholds are proposed for residential projects (3,500 MT CO_2e per year), commercial projects (1,400 MT CO_2e per year), and mixed-use projects (3,000 MT CO_2e per year). Under option 2, a single numerical screening threshold of 3,000 MT CO_2e per year would be used for all non-industrial projects. If the project generates emissions in excess of the applicable screening threshold, move to Tier 4.

Tier 4. Consider whether the project generates GHG emissions in excess of applicable performance standards for the project service population (population plus employment). The efficiency targets were established based on the goal of AB 32 to reduce statewide GHG emissions to 1990 levels by 2020. The 2020 efficiency targets are 4.8 MT CO_2e per-service population for project-level analyses and 6.6 MT CO_2e per-service population for plan-level analyses. If the project generates emissions in excess of the applicable efficiency targets, move to Tier 5.

Tier 5. Consider the implementation of CEQA mitigation (including the purchase of GHG offsets) to reduce the project efficiency target to Tier 4 levels.

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." The CEQA Guidelines do not prescribe specific methodologies for performing an assessment, establish specific thresholds of significance, or mandate specific mitigation measures. Rather, the CEQA Guidelines emphasize the lead agency's discretion to determine the appropriate methodologies and thresholds of significance that are consistent with the manner in which other impact areas are handled in CEQA (CNRA 2009).

To determine the proposed project's potential to generate GHG emissions that would have a significant impact on the environment, its GHG emissions were compared to the SCAQMD 3,000 MT CO_2e per year screening threshold recommended for non-industrial projects.

Construction of the project would result in GHG emissions, which are primarily associated with off-road construction equipment, on-road haul and vendor trucks, and worker vehicles. The SCAQMD Draft Guidance Document – Interim CEQA Greenhouse Gas (GHG) Significance Threshold (SCAQMD 2008b) recommends that "construction emissions be amortized over a 30-year project lifetime, so that GHG reduction measures will address construction GHG emissions as part of the operational GHG reduction strategies." Thus, the total construction GHG emissions were calculated, amortized over 30 years, and added to the total operational emissions for comparison with the GHG significance threshold of 3,000 MT CO_2e per year. Therefore, the determination of significance is addressed in the operational emissions discussion following the estimated construction emissions.

CalEEMod Version 2020.4.0 was used to calculate the annual GHG emissions based on the construction scenario described in Section 3.3. For the purposes of GHG emissions modeling, construction of the project is anticipated to commence in August 2023 and would last approximately 18 months. On-site sources of GHG emissions include off-road equipment, and off site sources include haul trucks, vendor trucks, and worker vehicles. Table 3.8-1 presents the GHG emissions resulting from construction of the project. For further detail on the assumptions and results of this analysis, please refer to Appendix A.

Table 3.8-1. Estimated Annual Construction GHG Emissions

Construction Year	CO_2	CH_4	N_2O	CO_2e
	Metric Tons per Year			
2023	171.99	0.03	0.01	176.31
2024	180.80	0.05	0.00	182.45
2025	10.51	0.00	0.00	10.60
			Total	369.36
			Amortized Emissions (30-year project life)	12.31

Notes: GHG = greenhouse gas; CO_2 = carbon dioxide; CH_4 = methane; N_2O = nitrous oxide; CO_2e = carbon dioxide equivalent.
See Appendix A for complete results.

As shown in Table 3.8-1, the estimated total GHG emissions over the construction period would be approximately 369 MT CO_2e. Amortized over 30 years, construction GHG emissions would be approximately 12 MT CO_2e per year. In addition, as with project-generated construction criteria air pollutant emissions, GHG emissions generated during proposed construction activities would be short term, lasting only for the duration of the construction period, and would not represent a long-term source of GHG emissions.

Operational Emissions

Once project construction is complete, the project would result in minimal maintenance activities consisting of use of worker vehicles. The proposed project would generate GHG emissions from the operation of a small electric pump that would lift the water to an elevation higher than the existing storm drain. Proposed park improvements would not expand the footprint of Spane Park or result in a major expansion of facilities that would induce substantial demand or park users. GHG emissions from these emission sources are expected to be minor and thus, operational emissions would be less than significant.

As shown in Table 3.8-1, amortized project-generated construction emissions would not exceed the 3,000 MT CO_2e SCAQMD threshold. Therefore, GHG emissions impacts would be less than significant.

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

Less-Than-Significant. The proposed project would not conflict with any applicable plan, policy, or regulation of an agency adopted for the purpose of reducing GHG emissions. Applicable plans for the project site include the City's Climate Action Plan (CAP), SCAG's 2020-2045 RTP/SCS, and CARB's 2017 and 2022 Scoping Plan Updates to address Senate Bill (SB) 32 and AB 1279. Each of these plans is described below along with an analysis of the proposed project's potential to conflict with the related GHG emission reduction goals.

Project Consistency with the City of Paramount Climate Action Plan

The City's CAP was adopted in July 2021 to provide strategies and measures to ensure the City reduces GHG emissions to 40% below 1990 levels by 2030, consistent with the state's SB 32 target. Table 3.8-2 outlines the project's potential to conflict with the applicable measures of the City's CAP. As shown, implementation of the proposed project would not conflict with any of the applicable measures from the City's CAP and impacts would be less than significant.

Table 3.8-2. Project Potential to Conflict with the Applicable City of Paramount CAP Measures and Strategies

CAP Measure/Strategy	Potential to Conflict Prior to Mitigation
Measure EE3: Improve Efficiency of Municipal Operations and Public Infrastructure	**No Conflict**. Construction of the proposed project is anticipated to commence in summer 2023 and would be subject to and would comply with all applicable state energy efficiency regulations including the most recent California Building Code Title 24 (24 CCR, Part 6), as verified through the City's development review and permitting process. Given that the restroom building currently at the project site would be updated consistent with the most recent Title 24 standards, operation of the facility would be an efficiency improvement above existing conditions.
Measure TR1: Support Fuel-Efficient and Alternative-Fuel Vehicles	**No Conflict**. The project proposes reconstruction of the existing parking lot to expand from the existing 15 stalls to 35 stalls. The proposed project would be subject to and would comply with all applicable state sustainable design regulations including the most recent California Green Building Standards (CALGreen) Code Title 24 (24 CCR, Part 11), as verified through the City's development review and permitting process. Compliance with the most current CALGreen Code would include demonstrating conformance with the minimum required number of electric vehicle charging spaces, as required by Chapter 15.06, Electric Vehicle Charging Station Requirements and Review Process, of the Paramount

Table 3.8-2. Project Potential to Conflict with the Applicable City of Paramount CAP Measures and Strategies

CAP Measure/Strategy	Potential to Conflict Prior to Mitigation
	Municipal Code. Conformance with the City's municipal code and CALGreen electric vehicle charging infrastructure requirements would ensure that the proposed project is supporting the City's overall goals for fuel-efficiency and alternative-fuel vehicles as expressed in CAP Measure TR1.
Measure TR2: Improve Pedestrian and Bicycle Infrastructure	**No Conflict**. The project proposes improvement of existing walkways and the addition of new walking connections throughout the project site. There are no formal bicycle lanes or other bicycle infrastructure within the immediate vicinity of the project site, and implementation of the proposed project would not conflict with the City's overall goals for bicycle infrastructure improvements as expressed in CAP Measure TR2.
Measure WA1: Promote Water Conservation	**No Conflict**. As discussed previously, the proposed project would be subject to and would comply with all applicable state sustainable design regulations including the most recent CALGreen Code, as verified through the City's development review and permitting process. Given that the restroom building currently at the project site would be updated consistent with the most recent Title 24 standards, the new facility would include design features that promote both indoor and outdoor water conservation during operation. In addition, on-site landscaping associated with the proposed project would include use of native, drought-tolerant plant species.
Measure WA2: Promote Water Recycling and Greywater Use	**No Conflict**. The proposed project includes an approximately 5,200-square-foot habitat garden, in addition to miscellaneous landscaping and tree plantings across the site. During construction, a new irrigation system would be installed throughout the project site, which would use non-potable and recycled water. As such, implementation of the proposed project would support the City's goal of recycled and greywater use as expressed in CAP Measure WA2.
Measure WR1: Solid Waste Diversion Programs	**No Conflict**. The proposed project will comply with the City's waste reduction and recycling programs, including but not limited to the City's Construction and Demolition Debris Diversion Program, which require that at least 65% of material generated during construction or demolition be diverted from the landfill.
Measure GA1: Support Urban Tree-Planting, Park Access, and Green Infrastructure	**No Conflict.** As discussed previously, the proposed project includes an approximately 5,200-squre-foot habitat garden, in addition to miscellaneous landscaping and tree plantings across the site. As part of the proposed park improvements, 64 additional

Table 3.8-2. Project Potential to Conflict with the Applicable City of Paramount CAP Measures and Strategies

CAP Measure/Strategy	Potential to Conflict Prior to Mitigation
	trees will be planted at the site. Additionally, the project proposes improvement of existing walkways and the addition of new walking connections throughout the project site that will improve pedestrian park access.

Source: City of Paramount 2021.

Project Consistency with SCAG's 2020 RTP/SCS

On September 3, 2020, the Regional Council of SCAG formally adopted the 2020–2045 RTP/SCS as a regional growth management strategy, which targets per capita GHG reduction from passenger vehicles and light-duty trucks in the Southern California region pursuant SB 375. In addition to demonstrating the Region's ability to attain the GHG emission-reduction targets set forth by CARB, the 2020–2045 RTP/SCS outlines a series of actions and strategies for integrating the transportation network with an overall land use pattern that responds to projected growth, housing needs, changing demographics, and transportation demands (SCAG 2020). Thus, successful implementation of the 2020–2045 RTP/SCS would result in more complete communities with various transportation and housing choices while reducing automobile use.

The primary objective of the RTP/SCS is to provide guidance for future regional growth (i.e., the location of new residential and non-residential land uses) and transportation patterns throughout the region, as stipulated under SB 375. Given that the proposed project involves constructing and operating a stormwater capture and treatment facility, the goals and strategies of the RTP/SCS are not directly applicable. As such, the proposed project would not conflict with the goals and policies of the RTP/SCS and impacts would be less than significant.

Project Consistency with State Reduction Targets and CARB's Scoping Plan

The California State Legislature passed the Global Warming Solutions Act of 2006 (AB 32) to provide initial direction to limit California's GHG emissions to 1990 levels by 2020 and initiate the state's long-range climate objectives. Since the passage of AB 32, the state has adopted GHG emissions reduction targets for future years beyond the initial 2020 horizon year. For the proposed project, the relevant GHG emissions reduction targets include those established by SB 32 and AB 1279, which require GHG emissions be reduced to 40% below 1990 levels by 2030, and 85% below 1990 levels by 2045, respectively. In addition, AB 1279 requires the state achieve net zero GHG emissions by no later than 2045 and achieve and maintain net negative GHG emissions thereafter.

As defined by AB 32, CARB is required to develop the Scoping Plan, which provides the framework for actions to achieve the state's GHG emission targets. The Scoping Plan is required to be updated every 5 years and requires CARB and other state agencies to adopt regulations and initiatives that will reduce GHG emissions statewide. The first Scoping Plan was adopted in 2008, and it was updated in 2014, 2017, and most recently in 2022. Although the Scoping Plan is not directly applicable to specific projects, nor is

it intended to be used for project-level evaluations,[12] it is the official framework for the measures and regulations that will be implemented to reduce California's GHG emissions in alignment with the adopted targets. Therefore, a project would be found to not conflict with the statutes if it would meet the Scoping Plan policies and would not impede attainment of the goals therein.

CARB's 2017 Scoping Plan update was the first to address the state's strategy for achieving the 2030 GHG reduction target set forth in SB 32 (CARB 2017); the most recent CARB 2022 Scoping Plan update outlines the state's plan to reduce emissions and achieve carbon neutrality by 2045 in alignment with AB 1279 and assesses progress is making toward the 2030 SB 32 target (CARB 2022). As such, given that SB 32 and AB 1279 are the relevant GHG emission targets, the 2017 and 2022 Scoping Plan updates are the most applicable to the proposed project.

The 2017 Climate Change Scoping Plan Update included measures to promote renewable energy and energy efficiency (including the mandates of SB 350), measures to increase 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 measures to increase stringency of SB 375 targets. The 2022 Scoping Plan for Achieving Carbon Neutrality builds upon and accelerates programs currently in place, including moving to zero-emission transportation; phasing out use of fossil gas use for heating homes and buildings; reducing chemical and refrigerants with high GWP; providing communities with sustainable options for walking, biking, and public transit; and displacement of fossil-fuel fired electrical generation through use of renewable energy alternatives (e.g., solar arrays and wind turbines) (CARB 2022).

Many of the measures and programs included in the Scoping Plan would result in the reduction of project-related GHG emissions with no action required at the project-level, including GHG emission reductions through increased energy efficiency and renewable energy production (SB 350), reduction in carbon intensity of transportation fuels (Low Carbon Fuel Standard), and the accelerated efficiency and electrification of the statewide vehicle fleet (Mobile Source Strategy). Given that the proposed project is also not anticipated to result in substantial increase in mobile trips (see Section 3.17, Transportation), the project would also not conflict with the 2017 update's goal of reducing GHG emissions through reductions in vehicle miles traveled (VMT) statewide.

The 2045 carbon neutrality goal required CARB to expand proposed actions in the 2022 update to include those that capture and store carbon in addition to those that reduce anthropogenic sources of GHG emissions. The proposed project would support the state's carbon neutrality goals, as implementation includes addition of urban trees and native plantings throughout the project site, which represent opportunities for potential carbon removal and sequestration over the project lifetime. However, the 2022 update emphasizes that reliance on carbon sequestration in the state's natural and working lands will not be sufficient to address residual GHG emissions, and achieving carbon neutrality will require research, development, and deployment of additional methods to capture atmospheric GHG emissions (e.g., mechanical direct air capture). Given that the specific path to neutrality will require development of technologies and programs that are not currently known or available, the project's role in supporting the statewide goal would be speculative and cannot be wholly identified at this time.

[12] The Final Statement of Reasons for the amendments to the CEQA Guidelines reiterates the statement in the Initial Statement of Reasons that "the 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 2009).

Overall, the proposed project would comply will all regulations adopted in furtherance of the Scoping Plan to the extent applicable and required by law. As mentioned above, several Scoping Plan measures would result in reductions of project-related GHG emissions with no action required at the project-level, including those related to energy efficiency, reduced fossil fuel use, and renewable energy production. As demonstrated above, the proposed project would not conflict with CARB's 2017 or 2022 Scoping Plan updates or with the state's ability to achieve the 2030 and 2045 GHG reduction and carbon neutrality goals. Further, the proposed project's consistency with the applicable measures and programs would assist in meeting the City's contribution to GHG emission reduction targets in California. Impacts would be less than significant.

3.9 Hazards and Hazardous Materials

	Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
IX. HAZARDS AND HAZARDOUS MATERIALS – Would the project:				
a) Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?	☐	☐	☒	☐
b) Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?	☐	☐	☒	☐
c) Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?	☐	☒	☐	☐
d) Be located on a site that is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?	☐	☐	☐	☒
e) For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard or excessive noise for people residing or working in the project area?	☐	☐	☐	☒
f) Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?	☐	☐	☒	☐
g) Expose people or structures, either directly or indirectly, to a significant risk of loss, injury or death involving wildland fires?	☐	☐	☐	☒

a) Would the project create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?

Less-than-Significant Impact. Relatively small amounts of commonly used hazardous substances such as gasoline, diesel fuel, lubricating oil, adhesive materials, grease, solvents, and architectural coatings would be used during construction. Operation and maintenance of the project would also require routine use of common hazardous substances. These materials are used routinely throughout urban environments for construction projects and operation of utility infrastructure. These materials would be transported and handled in accordance with all federal, state, and local laws regulating the management and use of hazardous materials. Consequently, use of these materials for their intended purpose would not pose a significant risk to the public or environment. With adherence to state and local regulations, impacts associated with routine transport, use, and disposal of hazardous materials would be less than significant.

b) Would the project create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?

Less-than-Significant Impact. As discussed under Section 3.9(a), construction and operation would involve relatively small amounts of commonly used hazardous substances such as gasoline, diesel fuel, lubricating oil, grease, adhesive materials, and solvents. These materials are not considered acutely hazardous and are used routinely throughout urban environments for both construction and operation of projects. Further, these materials would be transported, handled, and disposed in accordance with all federal, state, and local laws regulating the management and use of hazardous materials. Impacts would be less than significant.

c) Would the project emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?

Less-than-Significant Impact with Mitigation Incorporated. The project site is bordered by Los Cerritos Elementary School to the south. Construction and operation of the project would involve relatively small amounts of commonly used hazardous substances such as gasoline, diesel fuel, lubricating oil, grease, adhesive materials, and solvents. These materials are used routinely throughout urban environments for construction projects and would not pose a significant risk to the public or environment. Additionally, these materials would be transported and handled in accordance with all federal, state, and local laws regulating the management and use of hazardous materials.

Potential health impacts related to construction air emissions are analyzed in Section 3.3 of this MND. As discussed in Section 3.3, proposed construction activities would generate emissions in excess of site-specific LSTs for PM_{10} and $PM_{2.5}$; therefore, localized impacts of the proposed project warrant implementation of mitigation. MM-AQ-1 and MM-AQ-2, which require site watering and minimum construction equipment emissions standards, would be incorporated into project construction and would reduce emissions to below site-specific LSTs (refer to Table 3.3-4). Additionally, a construction HRA was performed for the project, which demonstrates that the TAC exposure from construction diesel exhaust emissions would result in cancer risk above the 10 in 1 million threshold and Chronic Hazard Index less than 1. Therefore, TAC emissions from construction of the project would result in a potentially significant impact. MM-AQ-2, which requires use of Tier 4 Final engines for off-road equipment to reduce DPM emissions during project construction, is required. With the incorporation of MM-AQ-2, emissions would be

reduced to below applicable thresholds (refer to Table 3.3-7). As such, impacts would be less than significant with mitigation incorporated.

d) Would the project be located on a site that is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?

No Impact. According to the California Department of Toxic Substances Control's EnviroStor database no sites or facilities are located within or adjacent to the project site. The nearest identified active site is the Carlton Forge Works, a Voluntary Cleanup Site, located approximately 0.83 miles southeast of the project site (DTSC 2022). Other state and local government agencies are required to provide additional hazardous materials release information for the Cortese List. The SWRCB's GeoTracker database identifies leaking underground storage tanks, waste discharge sites, oil and gas sites, and other waste or cleanup sites. A review of GeoTracker did not identify any sites or facilities within or adjacent to the project site. The nearest identified sites with open-site assessment statuses include the following: Chevron Terminal (ID No. SL377422475), a Cleanup Program Site, located approximately 0.18 miles east of the project site; New Century Industries Inc. (ID No. T10000005966), a Cleanup Program Site, located approximately 0.22 east north of the project site; Cerro Metal Products Co (ID No. SL204891695), a Cleanup Program Site, located approximately 0.46 southeast of the project site; and Father Flannagan's Boys and Girls Town (ID No. SLT43657655), a Cleanup Program Site, located approximately 0.84 miles southwest of the project site (SWRCB 2022).These hazardous materials sites are located at adequate distances from the project site such that they would be of no concern to present a worker hazard for construction crews. Therefore, no impact would occur.

e) For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard or excessive noise for people residing or working in the project area?

No Impact. The project site is approximately 5 miles north of Long Beach Airport and approximately 12 miles east of Los Angeles International Airport. The project site does not fall within the airport land use plan for either airport. The project is not located within 2 miles of a public use airport. Therefore, no impact would occur.

f) Would the project impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?

Less-than-Significant Impact. The City has prepared a Local Hazard Mitigation Plan. The hazard mitigation plan is a document that contains information to assist in planning for the occurrence of natural and human-caused hazards; it contains action items that address multiple hazards including earthquakes, floods, hazardous materials, severe weather, and wildfires (City of Paramount 2021). Construction of the stormwater capture and filtration facility would require access to the box culvert located along Rosecrans Avenue. Access to the box culvert would be provided via the manhole located within Rosecrans Avenue. As such, project construction would require the temporary partial closure of Rosecrans Avenue. The temporary partial closure of Rosecrans Avenue would be performed pursuant to a traffic-control plan prepared by the contractor and subject to City approval, which would demonstrate that emergency access or evacuation would not be impeded. Traffic on Rosecrans Avenue would resume to existing conditions upon completion of the project. Impacts would be less than significant.

g) Would the project expose people or structures, either directly or indirectly, to a significant risk of loss, injury or death involving wildland fires?

No Impact. The project site is located within a Local Responsibility Area and is not located within a Very High Fire Hazard Severity Zone (CAL FIRE 2022). The nearest Very High Fire Hazard Severity Zone is located in Fullerton, approximately 11 miles east of the project site. In the event of an emergency, fire response services for the project are provided by the Los Angeles County Fire Department. Construction and operation of the project would comply with Chapter 8.08 of the City's Municipal Code, which adopts the California Fire Code (CFC) by reference. Chapter 33 of the CFC outlines general fire safety precautions during construction and demolition that are intended to maintain minimum levels of fire protection and limit the spread of fire. The project would not include structures intended for long-term occupancy or include development that could exacerbate fire risk. Furthermore, the project site is relatively flat and would not influence prevailing winds or other factors that could exacerbate wildfire risk. As such, people and structures would not be exposed to a significant risk of loss, injury or death involving wildfires. No impact would occur.

3.10 Hydrology and Water Quality

	Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
X. HYDROLOGY AND WATER QUALITY – Would the project:				
a) Violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or ground water quality?	☐	☐	☒	☐
b) Substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project may impede sustainable groundwater management of the basin?	☐	☐	☒	☐
c) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner which would:				
i) result in substantial erosion or siltation on- or off site;	☐	☐	☒	☐
ii) substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or off site;	☐	☐	☒	☐
iii) create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff; or	☐	☐	☒	☐

	Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
iv) impede or redirect flood flows?	☐	☐	☒	☐
d) In flood hazard, tsunami, or seiche zones, risk release of pollutants due to project inundation?	☐	☐	☐	☒
e) Conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan?	☐	☐	☒	☐

a) Would the project violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or ground water quality?

Less-than-Significant Impact. The project site is located within the LLAR WMP Group jurisdiction. The WMP outlines water quality objectives and includes measures to reduce discharge pollutants and protect and improve water quality within the subwatersheds of Reach 1 and Reach 2 of the Los Angeles River, Compton Creek, and Rio Hondo.

Construction of the project would involve ground disturbing activities for grading that could result in sediment discharge in stormwater runoff. Additionally, construction would involve the use of oil, lubricants, and other chemicals that could be discharged from leaks or accidental spills. These potential sediment and chemical discharges during construction would have the potential to impact water quality in receiving water bodies. However, the project would be required to prepare and implement a SWPPP, which would include water quality BMPs to ensure that water quality standards are met and that runoff from the construction work areas does not cause degradation of water quality in receiving water bodies. Through the incorporation of BMPs through implementation of SWPPP requirements, impacts associated with water quality standards during construction would be less than significant.

The purpose of the project is to decrease the amount of pollutants in stormwater and dry-weather runoff entering the LLAR. The project would be implementing identified improvements in the LLAR WMP for pollution reduction. Upon operation, existing stormwater flows would be diverted and treated prior to infiltration and/or discharge, resulting in water quality benefits compared to existing conditions. Ongoing maintenance and sampling would ensure that the project is performing as expected in terms of treatment of stormwater. Therefore, impacts during operation would be less than significant.

b) Would the project substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project may impede sustainable groundwater management of the basin?

Less-than-Significant Impact. Groundwater was not encountered during subsurface borings as part of the project-specific geotechnical evaluation, but cone penetrating test data indicate that the depth of groundwater is approximately 50 feet below the ground surface (Appendix D). The geotechnical evaluation also included percolation testing of on-site soils to inform the design of the infiltration gallery. The storage reservoir would facilitate infiltration of captured stormwater, allowing water to seep into the underlying groundwater table and providing natural filtration through the soil. The project would not otherwise result

in a substantial change in impervious surfaces that would affect groundwater infiltration. The proposed expanded parking lot would feature drainage facilities that connect to the infiltration gallery. Additionally, the project would not entail temporary or permanent use of groundwater and, thus, would not deplete groundwater within the project vicinity. Therefore, the project would not substantially decrease groundwater supplies or interfere substantially with groundwater recharge; impacts would be less than significant.

c) Would the project substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner which would:

i) Result in substantial erosion or siltation on- or off site?

and

ii) Substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or off site?

and

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

and

iv) Impede or redirect flood flows?

Less-than-Significant Impact. The intent of the project is to capture and divert existing surface water flows, which would be controlled in a manner so as to avoid erosion and off-site flooding. The project would not result in a substantial change in impervious surfaces within the project site. The proposed expanded parking lot would feature drainage facilities that connect to the infiltration gallery to collect the water flowing across the impervious surface. Therefore, implementation of the project would not substantially alter the existing drainage pattern of the site or area in a way that would cause substantial erosions, flooding, polluted runoff, or changes to flood flows. Impacts would be less than significant.

d) In flood hazard, tsunami, or seiche zones, would the project risk release of pollutants due to project inundation?

No Impact. According to Federal Emergency Management Agency flood maps, the project site is not located within a designated high risk or special flood hazard area (Appendix D). Additionally, the project site is not located within a tsunami inundation zone and seiches do not pose a hazard to the project site (DOC 2023). The project would include the construction of a stormwater capture and treatment facility, which would improve the water quality of the LLAR. As discussed in Section 3.10(a), the project would prepare a SWPPP, which would include water quality BMPs to ensure that water quality standards are met and that runoff from the construction work areas does not cause degradation of water quality in receiving water bodies. Upon completion of construction, the project would not require the storage of pollutants that, in the event of inundation, could be released. When the water level in the reservoir reaches a predetermined elevation during heavy storm flows, excess inflow would enter a discharge pipeline for final pollutant removal prior to reentering the storm drain system and discharging into LLAR, similar to existing flow conditions except the stormwater

flow would be pre-treated. Therefore, no impact associated with the risk of release of pollutants due to project inundation in a flood hazard, tsunami, or seiche zone would occur.

e) Would the project conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan?

Less-than-Significant Impact. As discussed in greater detail in Chapter 1, Introduction, the proposed project is identified in the LLAR WMP as a regional BMP project that would help meet regional pollution reduction goals. The project would implement the applicable water quality control plan for the region. As discussed previously, the project would allow for infiltration into the underlying soils and would not interfere with groundwater supplies. Therefore, the project would not conflict with a water quality control plan or sustainable groundwater management plan and impacts would be less than significant.

3.11 Land Use and Planning

	Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
XI. LAND USE AND PLANNING – Would the project:				
a) Physically divide an established community?	☐	☐	☐	☒
b) Cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect?	☐	☐	☐	☒

a) Would the project physically divide an established community?

No Impact. The entire project would be located within the existing Spane Park. The project would not create a physical division of an existing community, like what could occur with the development of a freeway or large linear infrastructure. The project would not result in a removal of an existing means of access, such as a road or bridge, that would impede mobility with an existing community and other areas. Upon completion, recreational use of the affected portion of the park would resume under existing conditions. Therefore, the project would not physically divide an established community and no impact would occur.

b) Would the project cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect?

No Impact. The project site is zoned as Light Manufacturing (M-1) and has a General Plan land use designation of Park. The project would include the construction of a stormwater capture and filtration facility, primarily located underground, and improvements to the existing Spane Park. Upon completion, recreational use of the affected portion of the park would resume under similar conditions. Implementation of the project would not result in a change to land uses. Potential environmental impacts associated with the implementation of the project are analyzed throughout this MND. The project will incorporate applicable

mitigation measures to reduce environmental impacts. Therefore, the project would not be in conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect. Therefore, no impacts would occur.

3.12 Mineral Resources

	Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
XII. MINERAL RESOURCES – Would the project:				
a) Result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state?	☐	☐	☐	☒
b) Result in the loss of availability of a locally-important mineral resource recovery site delineated on a local general plan, specific plan or other land use plan?	☐	☐	☐	☒

a) Would the project result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state?

and

b) Would the project result in the loss of availability of a locally important mineral resource recovery site delineated on a local general plan, specific plan or other land use plan?

No Impact. According to maps obtained through the California Department of Conservation and California Geological Survey, the project site is located within in an area designated as Mineral Resource Zone 1, which are areas where adequate information indicates that no significant mineral deposits area present, or where it is judged that little likelihood exists for their presence (Miller 1994). Therefore, the project would not result in any further loss of availability of the identified resources and no impact would occur.

3.13 Noise

	Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
XIII. NOISE – Would the project result in:				
a) Generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?	☐	☐	☒	☐
b) Generation of excessive groundborne vibration or groundborne noise levels?	☐	☐	☒	☐
c) For a project located within the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels?	☐	☐	☒	☐

Existing Setting

The project site is bounded by Rosecrans Avenue to the north, an industrial warehouse to the east, medium density neighborhoods zoned R-2 to the west, and Los Cerritos Elementary School to the south (City of Paramount 2022). Nearby residences and the adjacent school are considered noise sensitive receptors.

Represented by locations ST1, ST2, and ST3 in Table 3.13-1, the existing outdoor ambient sound environment of Spane Park was sampled during a field survey conducted on July 29, 2022. Collected sample sound pressure level measurements at these locations, along with documented investigator observations regarding perceived or witnessed acoustical contributors to this baseline or pre-project noise environment, also appear in Table 3.13-1. These locations are intended to be representative of the backyards of existing single-family homes adjoining the project area. Photographs, tagged survey positions, and instrument details can be found in Appendix E, Noise Modeling Data.

Table 3.13-1. Measured Samples of Existing Outdoor Ambient Sound Level

Survey Position	Description/Address	Time	L_{eq} (dBA)	L_{max} (dBA)	L_{min} (dBA)	Notes (Perceived Sound Sources)
ST1	10 feet north of the south border of Spane Park	10:04 a.m.–10:14 a.m.	59.6	81.1	49.8	Running lake water, birds (honking geese and other avian), nearby and distant conversations/yelling, rustling leaves, distant music from parked car, park visitor footsteps

Table 3.13-1. Measured Samples of Existing Outdoor Ambient Sound Level

Survey Position	Description/Address	Time	L_{eq} (dBA)	L_{max} (dBA)	L_{min} (dBA)	Notes (Perceived Sound Sources)
ST2	20 feet south of Rosecrans Avenue	10:30 a.m.–10:40 p.m.	68.1	80.8	49.0	Nearby and distant roadway traffic (Rosecrans Avenue, I-105, I-710), distant conversations, basketball court, bicyclists
ST3	5 feet northeast of the corner of San Rafael Street and Gundry Avenue	10:50 a.m.–11:00 a.m.	55.8	64.9	50.1	Nearby and distant roadway traffic (Rosecrans Avenue, I-105, I-710), birds, distant conversations, distant dog barking, distant gardener/landscape noise

Source: Appendix E
Notes: L_{eq} = equivalent continuous sound level (time-averaged sound level); dBA = A-weighted decibels; L_{max} = maximum sound level during the measurement interval; L_{min} = minimum sound level during the measurement interval; I = Interstate.

The measured outdoor energy-equivalent sound level (L_{eq}) values appearing in Table 3.13-1 range from 55.8 to 68.1 A-weighted decibels (dBA) and are consistent with expectations for the environment based on the distance to major roadways such as Rosecrans Avenue. For instance, guidance from the Federal Transit Administration (FTA) on estimating outdoor ambient sound level indicates that noise from "other roadways" 10 to 50 feet away from a receptor would be an estimated 70 dBA L_{eq} during daytime hours (FTA 2018).

Regulatory Setting and Thresholds of Significance

Local Noise Ordinance and General Plan Guidance

The project site is zoned as industrial. Section 9.12.040 sets ambient base noise levels of 82 dBA daytime (6:00 a.m.–10:00 p.m.) and 77 dBA nighttime (10:00 p.m.–6:00 a.m.) for the M-1 zoned industrial properties on Rosecrans Avenue that adjoin the park. Section 9.12.040 sets ambient base noise levels of 62 dBA daytime (6:00 a.m.–10:00 p.m.) and 57 dBA nighttime (10:00 p.m.–6:00 a.m.) for the R-2 zoned properties on Gundry Avenue that adjoin the park. These noise standards apply to the following related noise sources referenced in Section 9.12.060. Section 9.12.060 B4a of the City of Paramount noise regulations (i.e., Chapter 9.12 of the Municipal Code) does not quantify allowable construction noise levels; however, it prohibits construction without a permit between 8:00 p.m. and 7:00 a.m. Section 9.12.060 B3 prohibits pump and other machinery operation not related to emergency work. The City of Paramount's General Plan Noise Element (City of Paramount 2007) also provides the following relevant policies:

- Health and Safety Element Policy 34: The City of Paramount will promote the development of a compatible noise environment throughout the City.

Federal Guidance

Lacking quantified noise limits for construction noise at the local level, this assessment adopts the FTA-based guidance of 80 dBA 8-hour L_{eq} at a noise sensitive receptor to determine impact significance.

a) Would the project result in generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?

Less-than-Significant Impact.

Construction

Construction of the project would result in the temporary generation of noise at the project site. Construction would involve the use of heavy equipment and machinery, such as excavators, loaders, cranes, temporary generators, scrapers, and other equipment. Construction would generate levels of noise that can vary from hour to hour and day to day depending on the equipment in use, the operations being performed, and the distance between the source and receptor. Typically, construction equipment operates in alternating cycles of full power and low power, producing average noise levels less than the maximum noise level. The average sound level of construction activity also depends on the amount of time that the equipment operates and the intensity of construction activities during that time. Table 3.13-2 presents the estimated construction noise level (8-hour L_{eq}) for each anticipated phase of project construction activity. Details of these predictions in Appendix E show the expected acoustical contribution from each type of operating construction equipment for each phase.

Table 3.13-2. Estimated Per-Phase Construction Noise Levels

Project Construction Activity Phase	Nearest Horizontal Distance to Nearest Noise-sensitive Receptor (Feet)	Predicted 8-hour L_{eq} (dBA) for Nearest Distance	Centroid Horizontal Distance to Nearest Noise-sensitive Receptor (Feet)	Predicted 8-hour L_{eq} (dBA) for Centroid Distance
Site mobilization, clearing, grubbing, and vegetation removal	78	79.8	270	69.0
Demolition of existing basketball courts and restroom building	80	78.2	230	69.0
Reservoir excavation	267	66.6	360	64.0
Reservoir construction	267	66.4	360	63.8
Pipeline, diversion structure, and treatment facility/pump installation	440	61.6	480	60.8
Field surface replacement	240	72.0	340	69.0
Restroom building construction	275	63.3	303	62.5
Basketball court construction	218	65.3	250	64.1
Parking reconstruction	72	77.4	140	71.6
Concrete pathway improvements	60	73.4	340	58.4
Pond and stream revitalization	105	73.1	235	66.1
Ancillary park improvements	60	78.0	270	64.9

Note: L_{eq} = energy-equivalent sound level; dBA = A-weighted decibel

The predicted aggregate noise levels for some of the 12 studied construction activity phases are substantially greater than the samples of baseline outdoor ambient noise levels appearing in Table 3.13-1 and would represent an audible change to the environment; however, all predicted levels are less than the 80 dBA 8-hour L_{eq} FTA-based standard and would therefore result in a less-than-significant impact.

Operation

Upon completion of construction, the project would feature underground infrastructure to convey stormwater. These on-site features would include a duplex submersible pump station, and its powered mechanical systems would be enclosed in a concrete "wet well" below grade with only a double-door hatch to the above-surface environment. Hence, noise from operation of pump would be isolated by the closed access hatch and result in predicted noise levels that are less than 30 dBA at a radius of over 25 feet from the hatch, well below the existing noise environment (Table 3.13-1). On this basis, and compared to the measurement samples of L_{eq} presented in Table 3.13-1, project operation noise is anticipated to be less than the existing outdoor ambient level at the nearest existing sensitive receptors, and thereby comply with the set ambient base noise levels per Section 9.12.040. Impacts would be less than significant.

b) Would the project result in generation of excessive groundborne vibration or groundborne noise levels?

Less-than-Significant Impact. Vibration is oscillatory movement of mass (typically a solid) over time. Depending on their distances to a sensitive receptor, operation of large bulldozers, graders, loaded dump trucks, or other heavy construction equipment and vehicles on a construction site have the potential to cause high vibration amplitudes.

The City's Municipal Code does not have a vibration threshold against which project construction-related groundborne vibration impacts to the community can be assessed. For purposes of this impact assessment, a vibration velocity level of 0.2 inches per second (ips) peak particle velocity (PPV) is used as the standard for evaluating human annoyance (to perceived groundborne vibration within an occupied structure) and the potential risk for residential building damage due to "continuous" or frequently occurring groundborne vibration events (Caltrans 2021).

Groundborne vibration attenuates rapidly, even over short distances. The attenuation of groundborne vibration as it propagates from source to receptor through intervening soils and rock can be estimated with expressions found in FTA and the California Department of Transportation guidance. By way of example, for a bulldozer or grader operating as close as 90 feet to the nearest receiving residential land use during the Field Surface Replacement construction phase as shown in Table 3.13-2, the estimated vibration velocity level would be 0.013 ips per the equation as follows (FTA 2018):

$$PPV_{rcvr} = PPV_{ref} \times (25/D)^{1.5} = 0.013 \text{ ips PPV} = 0.089 \times (25/90)^{1.5}$$

In the above equation, PPVrcvr is the predicted vibration velocity at the receiver position (i.e., residence), PPVref is the reference value at 25 feet from the vibration source (the bulldozer), and D is the actual horizontal distance to the receiver from the source.

During parking lot resurfacing, operation of a vibratory roller is anticipated and could be as close as 160 feet to an existing home. Because the roller exhibits more vibration than the previous dozer or grader example, having a reference PPV (PPV_{ref}) of 0.21 ips at 25 feet, its groundborne vibration would attenuate to 0.013 ips PPV. Both predicted groundborne vibration velocity PPV values associated with project construction are well below the 0.2 ips PPV threshold for building occupant annoyance and building damage risk. Impacts during construction would be less than significant.

After completion of project construction, operation of the pump station and other project components are unlikely to cause vibration at the nearest off-site structures. Powered mechanical systems like the submersible pump are designed with reciprocating and/or rotating components that are balanced well and machined to high tolerances of precision that consequently minimize vibration and help sustain long operational life. Furthermore, vibrational energy from pump operation would be attenuated by both the pump enclosure and the surrounding soils. For this reason, project operation groundborne vibration at off-site receptors would be considered less than significant.

c) ***For a project located within the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels?***

No Impact. There are no public airports or private airfields within 2 miles of the project and the project area is far from any aviation traffic noise contour greater than 65 dBA community noise equivalent level. Construction workers and park users would not be exposed to significantly aviation noise levels. No impact would occur.

3.14 Population and Housing

	Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
XIV. POPULATION AND HOUSING – Would the project:				
a) Induce substantial unplanned population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)?	☐	☐	☐	☒
b) Displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere?	☐	☐	☐	☒

a) ***Would the project induce substantial unplanned population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)?***

No Impact. Construction of the project would result in a temporary direct increase in construction jobs in the area. However, given the relatively small nature of the project construction and anticipated schedule, the demand for construction employment would likely be met within the existing and future labor market in the City and in the greater Los Angeles County area. If construction workers live outside of the City, these workers would likely commute during the temporary construction period. Operationally, the project does not contain land uses that typically result in direct population growth, such as new homes or large commercial/business centers. The project would not change the use of the existing Spane Park. Upon

completion, the project would improve Spane Park to further serve the existing and anticipated future demand for recreational uses within the City. Additionally, the project is consistent with underlying land use and zoning designations. Therefore, the project would not directly result in substantial unplanned population growth in the area.

The project is located in an area served by existing roads and infrastructure. The project does not include the extension of utility infrastructure, such as sewer lines or roads, into previously undeveloped areas that may indirectly induce growth. Therefore, the project would not indirectly result in substantial unplanned population growth in the area. No impact would occur.

b) Would the project displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere?

No Impact. The project site does not contain any existing housing or provide other means of housing people. The project would not displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere. No impact would occur.

3.15 Public Services

	Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
XV. PUBLIC SERVICES				
a) Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times, or other performance objectives for any of the public services:				
Fire protection?	☐	☐	☐	☒
Police protection?	☐	☐	☐	☒
Schools?	☐	☐	☐	☒
Parks?	☐	☐	☒	☐
Other public facilities?	☐	☐	☐	☒

a) Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times, or other performance objectives for any of the public services:

Fire Protection? Police protection? Schools? Other public facilities?

No Impact. As discussed in Section 3.14, Population and Housing, the project would not induce substantial unplanned population growth in the area. As such, construction, operation, and maintenance of the project would not require new or physically altered facilities associated with fire protection, police protection, schools, or other public facilities. Therefore, no impacts would occur.

Parks?

Less-than-Significant Impact. The project is located within Spane Park and would result in physical alteration to an existing park. The total duration of project construction is anticipated to last 18 months and would require temporary closure of the park. Depending on the construction phase, affected portions of Spane Park would be temporarily closed to the public for the duration. The construction area would be fenced off for safety and security purposes and made unavailable for public use during project construction. The proposed stormwater capture and filtration facility would be located primarily underground and would not affect park use. The project would also include the replacement of the existing park infrastructure, revitalization of the existing pond and stream, new landscaping, and other improvements to park facilities as described in Section 2.2.4. Upon completion of construction, recreational use of the park would resume similar to existing conditions. As such, implementation of the project would not require the provision of new parks. Therefore, impacts to parks as a result of the project would be less then significant.

3.16 Recreation

	Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
XVI. RECREATION				
a) Would the project increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?	☐	☐	☒	☐
b) Does the project include recreational facilities or require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment?	☐	☐	☒	☐

a) Would the project increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?

Less-than-Significant Impact. The total duration of project construction is anticipated to last 18 months and would require the temporary closure of Spane Park. As such, project construction may result in the temporary increase in use of other parks in the City. However, upon completion of construction, recreational use of the affected portion of the park would resume under existing conditions. As such, impacts to recreational facilities would be less than significant.

b) Does the project include recreational facilities or require the construction or expansion of recreational facilities, which might have an adverse physical effect on the environment?

Less-than-Significant Impact. The project would include improvements to the existing Spane Park. As discussed in Section 3.16(a), the temporary closure of the park may result in an increase in use of other

parks in the City. However, upon completion of construction, recreational use of the affected portion of the park would resume under existing conditions. Furthermore, as discussed in Section 3.14, implementation of the project would not induce population growth. As such, the project would not require the construction or expansion of recreational facilities. Potential environmental impacts associated with the implementation of the project are analyzed throughout this MND. Impacts would be less than significant.

3.17 Transportation

	Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
XVII. TRANSPORTATION – Would the project:				
a) Conflict with a program, plan, ordinance, or policy addressing the circulation system, including transit, roadway, bicycle, and pedestrian facilities?	☐	☐	☒	☐
b) Conflict or be inconsistent with CEQA Guidelines section 15064.3, subdivision (b)?	☐	☐	☒	☐
c) Substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?	☐	☐	☒	☐
d) Result in inadequate emergency access?	☐	☐	☒	☐

This section analyzes the potential impacts of the proposed project based on CEQA Guidelines Section 15064.3(b), which focuses on VMT for determining the significance of transportation impacts. Pursuant to SB 743, the focus of transportation analysis changed from level of service or vehicle delay to VMT. The related updates to the CEQA Guidelines required under SB 743 were approved on December 28, 2018. This methodology was required to be used statewide beginning July 1, 2020. For the purposes of this section, the Governor's Office of Planning and Research (OPR) Technical Advisory on Evaluating Transportation Impacts in CEQA (OPR 2018) has been used.

a) Would the project conflict with a program, plan, ordinance, or policy addressing the circulation system, including transit, roadway, bicycle and pedestrian facilities?

Less-than-Significant Impact. The City's General Plan Transportation Element contains policies to guide the ongoing development of the City's circulation system. The General Plan Transportation Element (City of Paramount 2007) includes the following overarching policies:

- The maintenance and improvement of the roadway system in the City to accommodate future traffic
- The use of innovative circulation strategies designed to create a transportation system that is sensitive to the City's aims for continued economic development
- The development of a roadway and circulation network that promotes pedestrian activity in selected areas of the City

- The efficient use of alternative forms of transportation that serve the City

Spane Park is served by multiple existing roads of the City's circulation system. Access to the park is provided via Rosecrans Avenue and Gundry Avenue. Both roadways feature pedestrian sidewalks on each side of the roadway. No formal bicycle lanes or other facilities are located in the immediate vicinity of the project site. Long Beach Transit bus stops are located along Rosecrans Avenue, along the project frontage.

Construction of the project would generate temporary trips. Maintenance of the project would require nominal trips that would not cause a measurable effect to the circulation system or warrant any formal traffic analysis. Additionally, the project would not result in a permanent change to the existing or planned circulation system in the City. The project would be served by existing roadway, transit, and pedestrian facilities and would not conflict with a program, plan, ordinance, or policy addressing the circulation system including transit, roadway, bicycle, and pedestrian facilities. Impacts would be less than significant.

b) Would the project conflict or be inconsistent with CEQA Guidelines section 15064.3, subdivision (b)?

Less-than-Significant Impact. CEQA Guidelines Section 15064.3(b) focuses on VMT for determining the significance of transportation impacts. It is further divided into four subdivisions: (1) land use projects, (2) transportation projects, (3) qualitative analysis, and (4) methodology. The Updated CEQA Guidelines state that "generally, vehicle miles traveled (VMT) is the most appropriate measure of transportation impacts," and define VMT as "the amount and distance of automobile travel attributable to a project." "Automobile" refers to on-road passenger vehicles, specifically cars and light trucks. The OPR has clarified in its Technical Advisory (OPR 2018) that heavy-duty truck VMT is not required to be included in the estimation of a project's VMT. Other relevant considerations may include the effects of a project on transit and non-motorized traveled.

The project is not a land use or transportation project; the project would not result in a major expansion of Spane Park such that it would induce substantial vehicle trips to and from the park. Therefore, neither Section 15064.3(b)(1) nor Section 15064.3(b)(2) of the CEQA Guidelines apply, as the project is not a land use or transportation project. Instead, the project would be categorized under Section 15064.3(b)(3), suitable for qualitative analysis and not subject to a quantitative threshold.

The project would involve construction that would generate temporary construction-related traffic for approximately 18 months and nominal operations traffic. Even though worker and vendor trips would generate VMT, once construction is completed, the construction-related traffic would cease and traffic would return to pre-construction conditions. Measures to reduce the VMT generated by workers and trucks are limited, and there are no thresholds or significance criteria for temporary, construction-related VMT. The project construction would be generally consistent with construction activities in terms of the temporary nature of activities, trip generation characteristics, and the types of vehicles and equipment required. The increase in VMT associated with the projects' construction is expected to be temporary and would therefore not cause a significant VMT impact.

Once construction is complete, project operation is anticipated to entail routine maintenance activities at the stormwater capture facility performed by City staff. Activities would include removal of debris and pollutant constituents from the treatment devices, pump testing and calibration, monitoring/sampling of treatment, and cleaning the storage reservoir. Proposed park improvements would not expand the footprint of Spane Park or result in a major expansion of facilities that would induce substantial demand or park users. The operation of the project can be considered a "small project" per the City's Transportation Study

Guidelines and OPR's Technical Advisory, given that it would not generate greater than 110 daily trips[13] and would therefore be presumed to have a less-than-significant VMT impact.

Therefore, the project would not conflict or be inconsistent with CEQA Guidelines Sections 15064.3(b)(1) and 15064.3(b)(3) and impacts would be less than significant.

*c) **Would the project substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?***

Less-than-Significant Impact. Access for construction related traffic (workers and trucks) to the site would be from the existing driveways along Gundry Avenue. As such, passenger cars and trucks entering and exiting the project site would be able to do so safely and without causing congestion at the driveways during construction or operation of the project. Access from Gundry Avenue to the parking lot would be designed to City standards for site distance and other safety concerns, similar to the existing access point. Therefore, project would not substantially increase hazards due to a roadway design feature or introduce incompatible uses. Impact would be less than significant.

*d) **Would the project result in inadequate emergency access?***

Less-than-Significant Impact. The project site is located in an established, developed area with ample access for emergency service providers. As discussed in Section 3.9(f), construction of the project would require the temporary partial closure of Rosecrans Avenue, which would not impede emergency response or evacuation within the City. Rosecrans Avenue would resume existing conditions upon completion of the project. Impacts would be less than significant.

3.18 Tribal Cultural Resources

	Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
XVIII. TRIBAL CULTURAL RESOURCES				
Would the project cause a substantial adverse change in the significance of a tribal cultural resource, defined in Public Resources Code section 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe, and that is:				
a) Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code section 5020.1(k), or	☐	☐	☒	☐

[13] This threshold ties directly to the OPR technical advisory and notes that CEQA provides a categorical exemption for existing facilities, including additions to existing structures of up to 10,000 square feet, so long as the project is in an area where public infrastructure is available to allow for maximum planned development and the project is not in an environmentally sensitive area (14 CCR 15301[e][2]). Typical project types for which trip generation increases relatively linearly with building footprint (i.e., general office building, single tenant office building, office park, and business park) generate or attract an additional 110-124 trips per 10,000 square feet. Therefore, absent substantial evidence otherwise, it is reasonable to conclude that the addition of 110 or fewer trips could be considered not to lead to a significant impact.

	Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
b) A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1? In applying the criteria set forth in subdivision (c) of Public Resources Code Section 5024.1, the lead agency shall consider the significance of the resource to a California Native American tribe.	☐	☒	☐	☐

Assembly Bill 52

AB 52 of 2014 amended PRC Section 5097.94 and added PRC Sections 21073, 21074, 21080.3.1, 21080.3.2, 21082.3, 21083.09, 21084.2, and 21084.3. AB 52 established that tribal cultural resources (TCRs) must be considered under CEQA and also provided for additional Native American consultation requirements for the lead agency. PRC Section 21074 describes a TCR as a site, feature, place, cultural landscape, sacred place, or object that is considered of cultural value to a California Native American Tribe. A TCR is either:

- On the CRHR or a local historic register
- Eligible for the CRHR or a local historic register
- A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of PRC Section 5024.1

AB 52 formalizes the lead agency–tribal consultation process, requiring the lead agency to initiate consultation with California Native American groups that are traditionally and culturally affiliated with the project area, including tribes that may not be federally recognized. Lead agencies are required to begin consultation prior to the release of a negative declaration, mitigated negative declaration, or environmental impact report by contacting those tribal groups who have previously provided formal written request for notification of projects under the agency's jurisdiction.

Section 1 (a)(9) of AB 52 establishes that "a substantial adverse change to a tribal cultural resource has a significant effect on the environment." Effects on TCRs should be considered under CEQA. Section 6 of AB 52 adds Section 21080.3.2 to the PRC, which states that parties may propose mitigation measures "capable of avoiding or substantially lessening potential significant impacts to a tribal cultural resource or alternatives that would avoid significant impacts to a tribal cultural resource." Further, if a California Native American tribe requests consultation regarding project alternatives, mitigation measures, or significant effects to TCRs, the consultation shall include those topics (PRC Section 21080.3.2[a]). Finally, the environmental document, for which the tribal consultation is focused, and the mitigation monitoring and reporting program (where applicable), developed in consideration of information provided by tribes during the formal consultation process, shall include any mitigation measures that are adopted (PRC Section 21082.3[a]).

The project is subject to compliance with AB 52 (PRC Section 21074), which requires consideration of impacts to TCRs as part of the CEQA process, and that the lead agency notify California Native American tribal representatives (that have requested notification) who are traditionally or culturally affiliated with the geographic area of the proposed project. All NAHC-listed California Native American tribal representatives who requested project notification pursuant to AB 52 were sent letters from the City on February 16, 2023, via United States Postal Service mailing. The notification letters contained a project description, outline of AB 52 timing, an invitation to consult, a project site plan, and contact information for the appropriate lead agency representative. Table 3.18-1 summarizes the results of the AB 52 and consultation efforts for the project thus far.

Table 3.18-1. Assembly Bill 52 Native American Tribal Outreach Results

Native American Tribal Representatives	Consultation Record
Andrew Salas, Chairperson Gabrieleño Band of Mission Indians–Kizh Nation (Kizh Nation)	**May 30, 2023** Consultation between the City of Paramount (City) and the Kizh Nation was conducted. **June 2, 2023** Email response from the Kizh Nation sent to the City following the consultation meeting. The email included explanatory text for the attached files provided by the Kizh Nation, which included snippets of maps, excerpts from literary texts, letters from technical experts, and mitigation measures. To date, no additional record of communication has been received by the City from the Kizh Nation, and the City has formally concluded consultation.
Anthony Morales, Chairperson Gabrieleno/Tongva San Gabriel Band of Mission Indians	No response has been received to date.
Sandonne Goad, Chairperson Gabrielino/Tongva Nation	No response has been received to date.
Robert Dorame, Chairperson Gabrielino Tongva Indians of California Tribal Council	No response has been received to date.
Christina Conley, Tribal Consultant and Administrator Gabrielino Tongva Indians of California Tribal Council	No response has been received to date.
Charles Alvarez Gabrielino/Tongva Tribe	No response has been received to date.
Lovina Redner, Tribal Chair Santa Rosa Band of Cahuilla Indians	No response has been received to date.
Joseph Ontiveros, Cultural Resource Department Soboba Band of Luiseno Indians	No response has been received to date.

Table 3.18-1. Assembly Bill 52 Native American Tribal Outreach Results

Native American Tribal Representatives	Consultation Record
Isaiah Vivanco, Chairperson Soboba Band of Luiseno Indians	No response has been received to date.

Would the project cause a substantial adverse change in the significance of a tribal cultural resource, defined in Public Resources Code section 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe, and that is:

a) ***Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code section 5020.1(k)?***

Less-than-Significant Impact. As discussed in Section 3.5, Cultural Resources, no previously recorded archaeological resources of Native American origin or tribal cultural resources listed in the CRHR or a local register were identified within the project site as a result of the SCCIC records, NAHC SLF search, or as a result of information provided from consulting tribes. Therefore, the project would not adversely affect TCRs that are listed or eligible for listing in a state or local register. Impacts would be less than significant.

b) ***A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1? In applying the criteria set forth in subdivision (c) of Public Resource Code Section 5024.1, the lead agency shall consider the significance of the resource to a California Native American tribe.***

Less-than-Significant Impact with Mitigation Incorporated. The project is subject to compliance with AB 52 (PRC Section 21074), which requires consideration of impacts to TCRs as part of the CEQA process, and requires lead agencies to provide notification of proposed projects to California Native American tribal representatives who are traditionally or culturally affiliated with the geographic area of the project area and who have requested such notifications. As a result of the City's AB 52 notification efforts, one tribal organization responded requesting to engage in formal consultation on the project: the Gabrieleño Band of Mission Indians–Kizh Nation.

Following a consultation call between the City and the Gabrieleño Band of Mission Indians–Kizh Nation (Tribe) on May 30, 2023, the Tribe provided an email follow-up on June 2, 2023, that included a number of attachments. Attachments included ethnohistoric and historical archival research pertaining to traditional use of the area, letters from technical experts and the NAHC, and recommended mitigation measures. The Tribe further indicated that the project falls within and around the sacred community of *Nakaugna*. At the request of the Tribe, specific information related to TCRs will be maintained as confidential; this information is appended to this document (Confidential Appendix F), but is only available for review by eligible individuals. Among other specific details pertaining to these management strategies, recommended mitigation provided by the Tribe includes the retention of a Native American monitor during ground-disturbing activities who is designated or approved by the Tribe, and actions to be taken in the event of an unanticipated discovery of human remains and/or funerary objects.

Although strong evidence of traditional Native American use of this broader area has been provided through review of archival documentation, a specific known TCR, meeting definitions provided in CEQA, does not appear to have been identified through consultation. However, despite the current disturbed state of the project site, there remains the potential to encounter previously unknown and unanticipated TCRs during ground-disturbing activities resulting from the project, if approved. The City, having considered these factors and in an abundance of caution, has determined that management strategies relative to the protection of TCRs will be required. In the event that unknown TRCs are encountered during project implementation, impacts to these resources are potentially significant and mitigation would be required.

TCRs are most commonly cultural resources and/or human remains of Native American origin. As such, implementation of previously identified MM-CUL-1 through MM-CUL-3 are appropriate management strategies to be applied to TCRs.

TCRs also constitute a separate resource category under CEQA. Tribes, through the government-to-government consultation process, are provided the opportunity to identify TCRs that may be affected by a project and to interpret the significance of such resources. Having reviewed and considered all information provided through this process, the ultimate responsibility to determine the appropriate management approach is the lead agency for compliance with CEQA. To appropriately reflect this process and provide for the inadvertent discovery of TCRs during project activities, a separate TCRs mitigation measure is provided below. Specific mitigation requirements, developed in coordination with the Tribe, are provided as MM-TCR-1. Therefore, in addition to the cultural resources mitigation measures (MM-CUL-1, MM-CUL-2, and MM-CUL-3), implementation of MM-TCR-1 would include the requirement for a Native American monitor to be invited to be present. Therefore, impacts to unknown TCRs as a result of ground-disturbing activities conducted for the project would be reduced to less than significant with mitigation incorporated.

MM-TCR-1 Retention of a Native American Monitor and Inadvertent Discovery of Tribal Cultural Resources. Prior to the commencement of ground-disturbing activities, the project applicant/lead agency shall retain a Native American monitor from or approved by the Gabrieleño Band of Mission Indians–Kizh Nation (Tribe). The monitor shall be retained prior to the commencement of any ground-disturbing activity for the subject project at all project locations (i.e., on site and any off-site locations that are included in the project description/definition and/or required in connection with the project, such as public improvement work). Ground-disturbing activities shall include, but are not limited to, demolition, pavement removal, potholing, auguring, grubbing, tree removal, boring, grading, excavation, drilling, and trenching. A copy of the executed monitoring agreement shall be submitted to the lead agency prior to the earlier of the commencement of any ground-disturbing activity or the issuance of any permit necessary to commence a ground-disturbing activity.

Although no tribal cultural resources (TCRs) have been identified that may be affected by the project, the following approach for the unanticipated discovery of TCRs has been prepared to reduce potential impacts to unanticipated resources. Management strategies stipulated in Mitigation Measure (MM) CUL-1 through MM-CUL-3 and existing state and local regulations, including California Health and Safety Code Section 7050.5, PRC Section 5097.98, and the California Code of Regulations Title 14

Section 15064.5(e), shall be implemented in the event that project activities encounter cultural resources or human remains.

Upon discovery of any TCRs, all construction activities in the immediate vicinity of the discovery shall cease (i.e., not less than the surrounding 50 feet) and shall not resume until the discovered TCR has been fully assessed by the Native American monitor. The Tribe shall recover and retain all discovered TCRs in the form and/or manner the Tribe deems appropriate, in the Tribe's sole discretion, and for any purpose the Tribe deems appropriate, including for educational, cultural, and/or historical purposes. However, this does not include human remains; the protocols to be followed in the event of a discovery of human remains is covered in MM-CUL-3.

The Native American monitor shall complete daily monitoring logs that provide descriptions of the relevant ground-disturbing activities, the type of construction activities performed, the locations of ground-disturbing activities, soil types, cultural-related materials, and any other facts, conditions, materials, or discoveries of significance to the Tribe. Monitoring logs shall identify and describe any discovered TCRs, including, but not limited to, Native American cultural and historical artifacts, remains, and places of significance (collectively, tribal cultural resources), as well as any discovered Native American (ancestral) human remains and/or burial goods. Copies of monitoring logs shall be provided to the project applicant/lead agency upon written request to the Tribe.

On-site Native American monitoring shall conclude upon the latter of the following (1) written confirmation to the Tribe from a designated point of contact for the project applicant/lead agency that all ground-disturbing activities and phases that may involve ground-disturbing activities on the project site or in connection with the project are complete, or (2) a determination and written notification by the Tribe to the project applicant/lead agency that no future, planned, and/or development/construction phase at the project site possesses the potential to impact TCRs.

3.19 Utilities and Service Systems

	Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
XIX. UTILITIES AND SERVICE SYSTEMS – Would the project:				
a) Require or result in the relocation or construction of new or expanded water, wastewater treatment or storm water drainage, electric power, natural gas, or telecommunications facilities, the construction or relocation of which could cause significant environmental effects?	☐	☐	☒	☐

	Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
b) Have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry, and multiple dry years?	☐	☐	☒	☐
c) Result in a determination by the wastewater treatment provider which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?	☐	☐	☐	☒
d) Generate solid waste in excess of State or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals?	☐	☐	☒	☐
e) Comply with federal, state, and local management and reduction statutes and regulations related to solid waste?	☐	☐	☐	☒

a) Would the project require or result in the relocation or construction of new or expanded water, wastewater treatment or storm water drainage, electric power, natural gas, or telecommunications facilities, the construction or relocation of which could cause significant environmental effects?

Less-than-Significant Impact. The project includes the construction of a stormwater capture and filtration facility and improvements to the existing Spane Park. The proposed stormwater facility would intercept stormwater from the existing storm drain channel within Rosecrans Avenue and route it into the filtration facility before discharges into the storm drain channel or infiltrates into underlying soils. The proposed pump associated with the treatment facility would be electrically powered, thus requiring an additional connection to the electrical power that currently serve the park's lights and irrigation system. Connection to these existing distribution facilities would be sufficient for providing power to the project and would not require any other relocation or construction of electrical power facilities. The project would also require reconstruction of minor existing water infrastructure in the removal and replacement of the existing irrigation pipes and sprinkler heads. These minor improvements are features of the project that would be subject to engineering design to ensure adjacent facilities and users are not negatively affected. Any relocation of existing facilities would not be substantial enough to result in a significant impact pursuant to CEQA. Impacts would be less than significant.

b) Would the project have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry and multiple dry years?

Less-than-Significant Impact. Project construction would temporarily require a minor amount of water primarily associated with site watering in compliance with SCAQMD Rule 403 to prevent, reduce, or mitigate fugitive dust emissions from construction activities. Once construction is complete, operational changes in water use would include the minor irrigation changes and the replacement restroom facility (which would

contain modern water-efficient fixtures). Other existing components of the park that require water would not change their existing usage. As such, operation of the project would not demand additional water use. Therefore, impacts would be less than significant.

c) Would the project result in a determination by the wastewater treatment provider which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?

No Impact. Construction and operation of the project would not generate wastewater demand. The proposed restroom would replace the existing facility. Therefore, no impacts would occur.

d) Would the project generate solid waste in excess of State or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals?

Less-than-Significant Impact. During construction, the project would generate solid waste such as residual wastes, plastics, and soils. Construction-generated solid waste would be temporary and would cease once construction is completed. Solid waste generated by project construction would be properly disposed of at designated landfill facilities. Operation of the project would not generate any additional solid waste beyond current park conditions. The project would be served by Paramount Resource Recycling (7230 Petterson Lane), approximately 0.32 miles north of the project site. Solid waste generated by the project would not exceed state or local standards or the capacity of local infrastructure. Impacts would be less than significant.

e) Would the project comply with federal, state, and local management and reduction statutes and regulations related to solid waste?

No Impact. As discussed in Section 3.19(d), construction-generated solid waste would be temporary, and operation of the project would not generate solid waste. Solid waste generated by the project construction would be disposed of at designated landfill facilities under federal, state, and local regulation. Additionally, the project would be required to adhere to City and County ordinances with respect to waste reduction and recycling. As a result, no impacts related to state and local statutes governing solid waste are anticipated.

3.20 Wildfire

	Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
XX. WILDFIRE – If located in or near state responsibility areas or lands classified as very high fire hazard severity zones, would the project:				
a) Substantially impair an adopted emergency response plan or emergency evacuation plan?	☐	☐	☒	☐
b) Due to slope, prevailing winds, and other factors, exacerbate wildfire risks, and thereby expose project occupants to, pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire?	☐	☐	☒	☐

	Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
c) Require the installation or maintenance of associated infrastructure (such as roads, fuel breaks, emergency water sources, power lines or other utilities) that may exacerbate fire risk or that may result in temporary or ongoing impacts to the environment?	☐	☐	☒	☐
d) Expose people or structures to significant risks, including downslope or downstream flooding or landslides, as a result of runoff, post-fire slope instability, or drainage changes?	☐	☐	☒	☐

a) Would the project substantially impair an adopted emergency response plan or emergency evacuation plan?

Less-than-Significant Impact. According to the California Department of Forestry and Fire Protection Fire Hazard Severity Zone Viewer, the project is not located within a Very High Fire Hazard Severity Zone (CAL FIRE 2022). The City has prepared a Local Hazard Mitigation Plan. The hazard mitigation plan contains information to assist in planning for natural and human-made hazards; it contains action items that address multiple hazards including earthquakes, floods, hazardous materials, severe weather, and wildfires (City of Paramount 2021). Construction of the project would require the temporary partial closure of Rosecrans Avenue to access the existing box culvert. The temporary partial closure of Rosecrans Avenue would not impede emergency response or evacuation within the City. Rosecrans Avenue would resume existing conditions upon completion of the project. As the project would be uninhabited, future emergency response and evacuation planning would not change from current conditions. Impacts would be less than significant.

b) Due to slope, prevailing winds, and other factors, would the project exacerbate wildfire risks, and thereby expose project occupants to, pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire?

Less-than-Significant Impact. Construction of the project would comply with Chapter 8.08 of the City's Municipal Code, which adopts the CFC by reference. Chapter 33 of the CFC outlines general fire safety precautions during construction and demolition that are intended to maintain minimum levels of fire protection and limit the spread of fire. The project would not include structures intended for long-term occupancy. Furthermore, the project site is relatively flat and would not influence prevailing winds or other factors that could exacerbate wildfire risk. As such, the project would not exacerbate wildfire risks such that project users would be exposed to pollutants concentrations. Impacts would be less than significant.

c) Would the project require the installation or maintenance of associated infrastructure (such as roads, fuel breaks, emergency water sources, power lines, or other utilities) that may exacerbate fire risk or that may result in temporary or ongoing impacts to the environment?

Less-than-Significant Impact. As discussed previously, the project overall would not exacerbate fire risk. Construction would comply with CFC requirements to manage and minimize fire risk during construction.

Operation of the project would not contain potential sources for fire risk. As such, the project would not result in installation or maintenance of associated infrastructure that may exacerbate fire risk. Impacts would be less than significant.

d) Would the project expose people or structures to significant risks, including downslope or downstream flooding or landslides, as a result of runoff, post-fire slope instability, or drainage changes?

Less-than-Significant Impact. For reasons described previously in Sections 3.9(g) and 3.20(a), (b), and (c), the project would not pose a substantial risk for wildfire. The project would be located on relatively flat land within Spane Park. As such, implementation of the project would not expose people or structures to significant risks from post-fire slope instability or drainage changes. Impacts would be less than significant.

3.21 Mandatory Findings of Significance

	Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
XXI. MANDATORY FINDINGS OF SIGNIFICANCE				
a) Does the project have the potential to substantially degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, substantially reduce the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory?	☐	☒	☐	☐
b) Does the project have impacts that are individually limited, but cumulatively considerable? ("Cumulatively considerable" means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects.)	☐	☒	☐	☐
c) Does the project have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly?	☐	☒	☐	☐

a) Does the project have the potential to substantially degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, substantially reduce the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory?

Less-than-Significant Impact with Mitigation Incorporated**.** Potential impacts related to sensitive and special-status habitat, wildlife species, and plant species are discussed in Section 3.4, Biological Resources. As discussed in Section 3.4, all potentially significant impacts to biological resources would be reduced to a level below significance with incorporation of mitigation measures. The proposed project would not substantially degrade the quality of the environment or impact fish or wildlife species or plant communities. As discussed in Section 3.5, potential impacts to cultural resources would be reduced to a level below significance with incorporation of mitigation measures. The proposed project would not eliminate important examples of the major periods of California history or prehistory. Overall, impacts would be less than significant with incorporation of mitigation measures.

b) Does the project have impacts that are individually limited, but cumulatively considerable? ("Cumulatively considerable" means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects.)

Less-than-Significant Impact with Mitigation Incorporated. As indicated in the analysis presented throughout Chapter 3, Initial Study Checklist, of this MND, the proposed project would not result in significant and unavoidable impacts in any issue area. Mitigation measures would reduce impacts to below a level of significance.

Cumulative projects in the City include the North Paramount Gateway Specific Plan, as well as various other small, individual development projects occurring in the vicinity such as the UMC mixed-use senior assisted living facility, Go Store It self-storage, AltAir/World Energy Conversion project, a KFC restaurant, and digital billboard project. The project is not located in the immediate vicinity of any large cumulative projects whose construction phase would overlap to create cumulative impacts. The proposed project, as with potential cumulative projects, would incorporate mitigation measures to reduce impacts, as applicable, particularly during construction. Upon completion of construction, the proposed project would have no potential to contribute to a cumulative impact. Impacts would be less than significant with incorporation of mitigation measures.

c) Does the project have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly?

Less-than-Significant with Mitigation Incorporated. The potential for adverse direct or indirect impacts to human beings was considered throughout Chapter 3 of this MND. Based on this evaluation, there is no substantial evidence that construction or operation of the project with the proposed mitigation measures incorporated would result in a substantial adverse effect on human beings. Impacts would be less than significant with incorporation of mitigation measures.

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4.2 List of Preparers

City of Paramount

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John King, AICP, Assistant Planning Director

Dudek

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Lis Varela, Formatting Specialist

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Courtney Semlow, PE, CFM, ENV SP, Civil Design Manager

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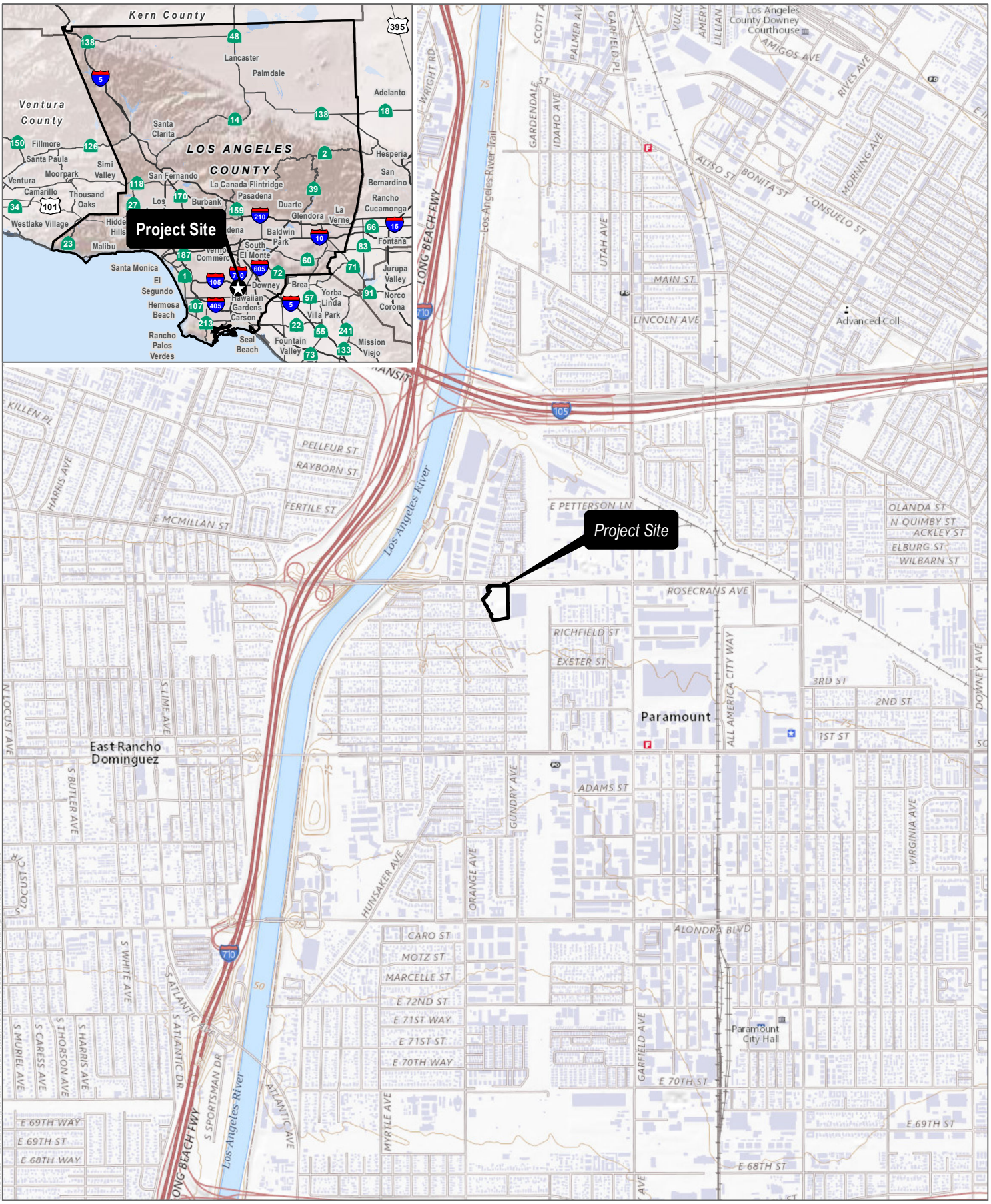

SOURCE: USGS National Map 2022

FIGURE 1

Project Location

Spane Park Stormwater Capture Project Initial Study/Mitigated Negative Declaration

DUDEK

0 1,000 2,000 Feet

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SOURCE: Bing Maps 2022; County of Los Angeles 2022

FIGURE 2

Project Site and Existing Features

Spane Park Stormwater Capture Project Initial Study/Mitigated Negative Declaration

DUDEK

0 40 80 Feet

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SOURCE: Bing Maps 2022; County of Los Angeles 2022

DUDEK

0 40 80 Feet

FIGURE 3

Proposed Stormwater Capture and Treatment System

Spane Park Stormwater Capture Project Initial Study/Mitigated Negative Declaration

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SOURCE: Craft Water Engineering, Inc. 2022

FIGURE 4

Proposed Park Improvements

Spane Park Stormwater Capture Project Initial Study/Mitigated Negative Declaration

DUDEK

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SOURCE: Bing Maps 2022; County of Los Angeles 2022

DUDEK

0 50 100 Feet

FIGURE 5

Existing Vegetation Communities

Spane Park Stormwater Capture Project Initial Study/Mitigated Negative Declaration

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Appendix A
Air Quality and Greenhouse Gas Modeling

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Spane Park Stormwater Capture Project

Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Industrial	118.48	User Defined Unit	2.72	118,483.00	0
Parking Lot	39.00	1000sqft	0.90	39,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	9			**Operational Year**	2025
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - 2.72 acre area disturbed. 39,000 SF paved. Provided by applicant

Construction Phase - Construction schedule provided by applicant.

Off-road Equipment - Equipment provided by project applicant.

Off-road Equipment - Equipment provided by project applicant.

Off-road Equipment - Equipment provided by project applicant.

Off-road Equipment - Equipment provided by project applicant.

Off-road Equipment - Equipment provided by project applicant.

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Spane Park Stormwater Capture Project - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Off-road Equipment - Equipment provided by project applicant.

Off-road Equipment - Equipment provided by project applicant.

Off-road Equipment - Equipment provided by project applicant.

Off-road Equipment - Equipment provided by project applicant.

Trips and VMT - Trips provided by applicant.

Demolition - Data provided by applicant.

Grading - Data provided by project applicant.

Vehicle Trips - Construction only.

Vehicle Emission Factors - Construction only.

Road Dust - Construction only.

Woodstoves - Construction only.

Consumer Products - Construction only.

Area Coating - Construction only.

Landscape Equipment - Construction only.

Energy Use - Construction only.

Water And Wastewater - Construction only.

Solid Waste - Construction only.

Construction Off-road Equipment Mitigation - Compliance with SCAQMD Rule 403- water twice daily. Mitigation water 3X

Fleet Mix - Construction only.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	230.00	76.00
tblConstructionPhase	NumDays	230.00	21.00
tblConstructionPhase	NumDays	230.00	51.00
tblConstructionPhase	NumDays	230.00	21.00
tblConstructionPhase	NumDays	20.00	21.00
tblConstructionPhase	NumDays	8.00	51.00
tblConstructionPhase	NumDays	18.00	41.00
tblConstructionPhase	NumDays	18.00	41.00

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblConstructionPhase	NumDays	18.00	31.00
tblConstructionPhase	NumDays	18.00	21.00
tblConstructionPhase	NumDays	5.00	41.00
tblEnergyUse	LightingElect	0.35	0.00
tblGrading	AcresOfGrading	25.50	8.00
tblGrading	AcresOfGrading	41.00	7.50
tblGrading	MaterialExported	0.00	18,000.00
tblGrading	MaterialExported	0.00	1,800.00
tblLandUse	LandUseSquareFeet	0.00	118,483.00
tblLandUse	LotAcreage	0.00	2.72
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblTripsAndVMT	HaulingTripNumber	25.00	26.00
tblTripsAndVMT	HaulingTripNumber	225.00	226.00
tblTripsAndVMT	HaulingTripNumber	0.00	20.00

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	26.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	26.00	2.00
tblTripsAndVMT	VendorTripNumber	26.00	2.00
tblTripsAndVMT	VendorTripNumber	26.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripNumber	10.00	20.00
tblTripsAndVMT	WorkerTripNumber	10.00	40.00
tblTripsAndVMT	WorkerTripNumber	8.00	20.00
tblTripsAndVMT	WorkerTripNumber	8.00	20.00
tblTripsAndVMT	WorkerTripNumber	66.00	20.00
tblTripsAndVMT	WorkerTripNumber	8.00	24.00
tblTripsAndVMT	WorkerTripNumber	66.00	16.00
tblTripsAndVMT	WorkerTripNumber	66.00	30.00
tblTripsAndVMT	WorkerTripNumber	66.00	10.00
tblTripsAndVMT	WorkerTripNumber	3.00	10.00

2.0 Emissions Summary

Spane Park Stormwater Capture Project - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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					
2023	0.0734	0.8815	0.5216	1.8600e-003	0.3234	0.0314	0.3547	0.1630	0.0290	0.1921	0.0000	171.9878	171.9878	0.0313	0.0119	176.3133
2024	0.1146	1.0546	0.8688	2.0600e-003	0.0370	0.0456	0.0826	9.8700e-003	0.0421	0.0520	0.0000	180.7968	180.7968	0.0474	1.5600e-003	182.4482
2025	5.4000e-003	0.0401	0.0626	1.2000e-004	3.4000e-003	1.7200e-003	5.1200e-003	9.1000e-004	1.5900e-003	2.5000e-003	0.0000	10.5055	10.5055	2.5000e-003	1.0000e-004	10.5993
Maximum	**0.1146**	**1.0546**	**0.8688**	**2.0600e-003**	**0.3234**	**0.0456**	**0.3547**	**0.1630**	**0.0421**	**0.1921**	**0.0000**	**180.7968**	**180.7968**	**0.0474**	**0.0119**	**182.4482**

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					
2023	0.0734	0.8815	0.5216	1.8600e-003	0.1470	0.0314	0.1784	0.0693	0.0290	0.0983	0.0000	171.9877	171.9877	0.0313	0.0119	176.3132
2024	0.1146	1.0546	0.8688	2.0600e-003	0.0370	0.0456	0.0826	9.8700e-003	0.0421	0.0520	0.0000	180.7966	180.7966	0.0474	1.5600e-003	182.4480
2025	5.4000e-003	0.0401	0.0626	1.2000e-004	3.4000e-003	1.7200e-003	5.1200e-003	9.1000e-004	1.5900e-003	2.5000e-003	0.0000	10.5055	10.5055	2.5000e-003	1.0000e-004	10.5993
Maximum	**0.1146**	**1.0546**	**0.8688**	**2.0600e-003**	**0.1470**	**0.0456**	**0.1784**	**0.0693**	**0.0421**	**0.0983**	**0.0000**	**180.7966**	**180.7966**	**0.0474**	**0.0119**	**182.4480**

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	ROG	NOx	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**	**48.48**	**0.00**	**39.86**	**53.95**	**0.00**	**38.04**	**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	**8-1-2023**	**10-31-2023**	0.6453	0.6453
2	**11-1-2023**	**1-31-2024**	0.4415	0.4415
3	**2-1-2024**	**4-30-2024**	0.5004	0.5004
4	**5-1-2024**	**7-31-2024**	0.1771	0.1771
5	**8-1-2024**	**10-31-2024**	0.1418	0.1418
6	**11-1-2024**	**1-31-2025**	0.2456	0.2456
		Highest	0.6453	0.6453

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	0.4863	2.0000e-005	2.0000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.9100e-003	3.9100e-003	1.0000e-005	0.0000	4.1600e-003
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	**0.4863**	**2.0000e-005**	**2.0000e-003**	**0.0000**	**0.0000**	**1.0000e-005**	**1.0000e-005**	**0.0000**	**1.0000e-005**	**1.0000e-005**	**0.0000**	**3.9100e-003**	**3.9100e-003**	**1.0000e-005**	**0.0000**	**4.1600e-003**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	0.4863	2.0000e-005	2.0000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.9100e-003	3.9100e-003	1.0000e-005	0.0000	4.1600e-003
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	**0.4863**	**2.0000e-005**	**2.0000e-003**	**0.0000**	**0.0000**	**1.0000e-005**	**1.0000e-005**	**0.0000**	**1.0000e-005**	**1.0000e-005**	**0.0000**	**3.9100e-003**	**3.9100e-003**	**1.0000e-005**	**0.0000**	**4.1600e-003**

	ROG	NOx	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	Demolition of existing basketball courts and restroom building	Demolition	8/1/2023	8/29/2023	5	21	
2	Site mobilization, clearing, grubbing, and vegetation removal	Site Preparation	8/1/2023	9/26/2023	5	41	
3	Reservoir excavation	Grading	9/25/2023	12/4/2023	5	51	

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4	Reservoir construction	Building Construction	12/11/2023	3/25/2024	5	76	
5	Pipeline, diversion structure, and treatment facility/pump installation	Trenching	2/5/2024	4/1/2024	5	41	
6	Field surface replacement	Building Construction	4/1/2024	4/29/2024	5	21	
7	Restroom building construction	Building Construction	5/6/2024	7/15/2024	5	51	
8	Basketball court construction	Building Construction	7/22/2024	8/19/2024	5	21	
9	Concrete pathway improvements	Paving	8/26/2024	9/23/2024	5	21	
10	Pond and stream revitilization	Paving	9/23/2024	11/18/2024	5	41	
11	Ancillary park improvements	Paving	11/11/2024	1/6/2025	5	41	
12	Parking reconstruction	Paving	12/9/2024	1/20/2025	5	31	

Acres of Grading (Site Preparation Phase): 7.5

Acres of Grading (Grading Phase): 8

Acres of Paving: 0.9

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
Demolition of existing basketball courts and restroom building	Crushing/Proc. Equipment	1	8.00	85	0.78
Demolition of existing basketball courts and restroom building	Rubber Tired Dozers	1	8.00	247	0.40
Demolition of existing basketball courts and restroom building	Skid Steer Loaders	1	8.00	65	0.37
Site mobilization, clearing, grubbing, and vegetation removal	Graders	1	8.00	187	0.41
Site mobilization, clearing, grubbing, and vegetation removal	Rubber Tired Dozers	1	8.00	247	0.40
Site mobilization, clearing, grubbing, and vegetation removal	Skid Steer Loaders	1	8.00	65	0.37
Reservoir excavation	Rubber Tired Dozers	1	8.00	247	0.40
Reservoir excavation	Skid Steer Loaders	1	8.00	65	0.37
Reservoir excavation	Tractors/Loaders/Backhoes	1	8.00	97	0.37

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Reservoir construction	Cranes	1	8.00	231	0.29
Reservoir construction	Rubber Tired Dozers	1	8.00	247	0.40
Reservoir construction	Skid Steer Loaders	1	8.00	65	0.37
Pipeline, diversion structure, and treatment facility/pump installation	Cranes	1	8.00	231	0.29
Pipeline, diversion structure, and treatment facility/pump installation	Skid Steer Loaders	1	8.00	65	0.37
Pipeline, diversion structure, and treatment facility/pump installation	Trenchers	1	8.00	78	0.50
Field surface replacement	Dumpers/Tenders	1	8.00	16	0.38
Field surface replacement	Graders	1	8.00	187	0.41
Field surface replacement	Skid Steer Loaders	1	8.00	65	0.37
Field surface replacement	Sweepers/Scrubbers	1	8.00	64	0.46
Restroom building construction	Aerial Lifts	1	8.00	63	0.31
Restroom building construction	Cement and Mortar Mixers	1	8.00	9	0.56
Restroom building construction	Cranes	1	8.00	231	0.29
Restroom building construction	Forklifts	1	8.00	89	0.20
Basketball court construction	Aerial Lifts	1	8.00	63	0.31
Basketball court construction	Cement and Mortar Mixers	3	8.00	9	0.56
Basketball court construction	Cranes	1	8.00	231	0.29
Basketball court construction	Forklifts	1	8.00	89	0.20
Parking reconstruction	Pavers	1	8.00	130	0.42
Parking reconstruction	Plate Compactors	1	8.00	8	0.43
Parking reconstruction	Rollers	1	8.00	80	0.38
Parking reconstruction	Skid Steer Loaders	1	8.00	65	0.37
Concrete pathway improvements	Cement and Mortar Mixers	1	8.00	9	0.56
Pond and stream revitilization	Cement and Mortar Mixers	1	8.00	9	0.56
Pond and stream revitilization	Cranes	1	8.00	231	0.29
Pond and stream revitilization	Forklifts	1	8.00	89	0.20
Pond and stream revitilization	Skid Steer Loaders	1	8.00	65	0.37
Ancillary park improvements	Cement and Mortar Mixers	1	8.00	9	0.56

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Ancillary park improvements	Cranes	1	8.00	231	0.29
Ancillary park improvements	Forklifts	1	8.00	89	0.20
Ancillary park improvements	Skid Steer Loaders	1	8.00	65	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
Demolition of existing basketball courts and r	3	8.00	0.00	26.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site mobilization, clearing, grubbing, an	3	20.00	0.00	226.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Reservoir excavation	3	20.00	0.00	2,250.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Reservoir construction	3	20.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Pipeline, diversion structure, and treatme	3	24.00	2.00	20.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Field surface replacement	4	16.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Restroom building construction	4	30.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Basketball court construction	6	10.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Parking reconstruction	4	40.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Concrete pathway improvements	1	10.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Pond and stream revitilization	4	20.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Ancillary park improvements	4	10.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Spane Park Stormwater Capture Project - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Demolition of existing basketball courts and restroom building - 2023

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					2.7300e-003	0.0000	2.7300e-003	4.1000e-004	0.0000	4.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0126	0.1153	0.0926	1.9000e-004		5.3000e-003	5.3000e-003		5.0000e-003	5.0000e-003	0.0000	16.1172	16.1172	3.5400e-003	0.0000	16.2058
Total	**0.0126**	**0.1153**	**0.0926**	**1.9000e-004**	**2.7300e-003**	**5.3000e-003**	**8.0300e-003**	**4.1000e-004**	**5.0000e-003**	**5.4100e-003**	**0.0000**	**16.1172**	**16.1172**	**3.5400e-003**	**0.0000**	**16.2058**

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	3.0000e-005	1.7900e-003	4.6000e-004	1.0000e-005	2.2000e-004	1.0000e-005	2.3000e-004	6.0000e-005	1.0000e-005	7.0000e-005	0.0000	0.7583	0.7583	4.0000e-005	1.2000e-004	0.7952
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	2.7000e-004	2.1000e-004	2.8600e-003	1.0000e-005	9.2000e-004	1.0000e-005	9.3000e-004	2.4000e-004	1.0000e-005	2.5000e-004	0.0000	0.7327	0.7327	2.0000e-005	2.0000e-005	0.7389
Total	**3.0000e-004**	**2.0000e-003**	**3.3200e-003**	**2.0000e-005**	**1.1400e-003**	**2.0000e-005**	**1.1600e-003**	**3.0000e-004**	**2.0000e-005**	**3.2000e-004**	**0.0000**	**1.4909**	**1.4909**	**6.0000e-005**	**1.4000e-004**	**1.5340**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Demolition of existing basketball courts and restroom building - 2023

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					1.0600e-003	0.0000	1.0600e-003	1.6000e-004	0.0000	1.6000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0126	0.1153	0.0926	1.9000e-004		5.3000e-003	5.3000e-003		5.0000e-003	5.0000e-003	0.0000	16.1172	16.1172	3.5400e-003	0.0000	16.2058
Total	**0.0126**	**0.1153**	**0.0926**	**1.9000e-004**	**1.0600e-003**	**5.3000e-003**	**6.3600e-003**	**1.6000e-004**	**5.0000e-003**	**5.1600e-003**	**0.0000**	**16.1172**	**16.1172**	**3.5400e-003**	**0.0000**	**16.2058**

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	3.0000e-005	1.7900e-003	4.6000e-004	1.0000e-005	2.2000e-004	1.0000e-005	2.3000e-004	6.0000e-005	1.0000e-005	7.0000e-005	0.0000	0.7583	0.7583	4.0000e-005	1.2000e-004	0.7952
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	2.7000e-004	2.1000e-004	2.8600e-003	1.0000e-005	9.2000e-004	1.0000e-005	9.3000e-004	2.4000e-004	1.0000e-005	2.5000e-004	0.0000	0.7327	0.7327	2.0000e-005	2.0000e-005	0.7389
Total	**3.0000e-004**	**2.0000e-003**	**3.3200e-003**	**2.0000e-005**	**1.1400e-003**	**2.0000e-005**	**1.1600e-003**	**3.0000e-004**	**2.0000e-005**	**3.2000e-004**	**0.0000**	**1.4909**	**1.4909**	**6.0000e-005**	**1.4000e-004**	**1.5340**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Site mobilization, clearing, grubbing, and vegetation removal - 2023

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					0.1275	0.0000	0.1275	0.0683	0.0000	0.0683	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0232	0.2592	0.1268	3.5000e-004		0.0103	0.0103		9.4500e-003	9.4500e-003	0.0000	31.0266	31.0266	0.0100	0.0000	31.2775
Total	**0.0232**	**0.2592**	**0.1268**	**3.5000e-004**	**0.1275**	**0.0103**	**0.1378**	**0.0683**	**9.4500e-003**	**0.0778**	**0.0000**	**31.0266**	**31.0266**	**0.0100**	**0.0000**	**31.2775**

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	2.4000e-004	0.0155	3.9600e-003	7.0000e-005	1.9400e-003	9.0000e-005	2.0400e-003	5.3000e-004	9.0000e-005	6.2000e-004	0.0000	6.5909	6.5909	3.6000e-004	1.0500e-003	6.9119
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	1.3000e-003	1.0300e-003	0.0140	4.0000e-005	4.4900e-003	3.0000e-005	4.5200e-003	1.1900e-003	3.0000e-005	1.2200e-003	0.0000	3.5762	3.5762	1.0000e-004	9.0000e-005	3.6063
Total	**1.5400e-003**	**0.0166**	**0.0179**	**1.1000e-004**	**6.4300e-003**	**1.2000e-004**	**6.5600e-003**	**1.7200e-003**	**1.2000e-004**	**1.8400e-003**	**0.0000**	**10.1671**	**10.1671**	**4.6000e-004**	**1.1400e-003**	**10.5182**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Site mobilization, clearing, grubbing, and vegetation removal - 2023

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					0.0497	0.0000	0.0497	0.0266	0.0000	0.0266	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0232	0.2592	0.1268	3.5000e-004		0.0103	0.0103		9.4500e-003	9.4500e-003	0.0000	31.0266	31.0266	0.0100	0.0000	31.2775
Total	**0.0232**	**0.2592**	**0.1268**	**3.5000e-004**	**0.0497**	**0.0103**	**0.0600**	**0.0266**	**9.4500e-003**	**0.0361**	**0.0000**	**31.0266**	**31.0266**	**0.0100**	**0.0000**	**31.2775**

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	2.4000e-004	0.0155	3.9600e-003	7.0000e-005	1.9400e-003	9.0000e-005	2.0400e-003	5.3000e-004	9.0000e-005	6.2000e-004	0.0000	6.5909	6.5909	3.6000e-004	1.0500e-003	6.9119
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	1.3000e-003	1.0300e-003	0.0140	4.0000e-005	4.4900e-003	3.0000e-005	4.5200e-003	1.1900e-003	3.0000e-005	1.2200e-003	0.0000	3.5762	3.5762	1.0000e-004	9.0000e-005	3.6063
Total	**1.5400e-003**	**0.0166**	**0.0179**	**1.1000e-004**	**6.4300e-003**	**1.2000e-004**	**6.5600e-003**	**1.7200e-003**	**1.2000e-004**	**1.8400e-003**	**0.0000**	**10.1671**	**10.1671**	**4.6000e-004**	**1.1400e-003**	**10.5182**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Reservoir excavation - 2023

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					0.1588	0.0000	0.1588	0.0850	0.0000	0.0850	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0230	0.2430	0.1714	3.5000e-004		0.0109	0.0109		9.9900e-003	9.9900e-003	0.0000	30.7455	30.7455	9.9400e-003	0.0000	30.9941
Total	**0.0230**	**0.2430**	**0.1714**	**3.5000e-004**	**0.1588**	**0.0109**	**0.1697**	**0.0850**	**9.9900e-003**	**0.0950**	**0.0000**	**30.7455**	**30.7455**	**9.9400e-003**	**0.0000**	**30.9941**

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	2.3700e-003	0.1547	0.0394	6.6000e-004	0.0194	9.3000e-004	0.0203	5.3200e-003	8.9000e-004	6.2000e-003	0.0000	65.6178	65.6178	3.6100e-003	0.0104	68.8134
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	1.6200e-003	1.2800e-003	0.0174	5.0000e-005	5.5900e-003	3.0000e-005	5.6200e-003	1.4800e-003	3.0000e-005	1.5200e-003	0.0000	4.4484	4.4484	1.2000e-004	1.2000e-004	4.4859
Total	**3.9900e-003**	**0.1560**	**0.0568**	**7.1000e-004**	**0.0250**	**9.6000e-004**	**0.0259**	**6.8000e-003**	**9.2000e-004**	**7.7200e-003**	**0.0000**	**70.0662**	**70.0662**	**3.7300e-003**	**0.0105**	**73.2993**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Reservoir excavation - 2023

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					0.0619	0.0000	0.0619	0.0332	0.0000	0.0332	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0230	0.2430	0.1714	3.5000e-004		0.0109	0.0109		9.9900e-003	9.9900e-003	0.0000	30.7455	30.7455	9.9400e-003	0.0000	30.9941
Total	**0.0230**	**0.2430**	**0.1714**	**3.5000e-004**	**0.0619**	**0.0109**	**0.0728**	**0.0332**	**9.9900e-003**	**0.0432**	**0.0000**	**30.7455**	**30.7455**	**9.9400e-003**	**0.0000**	**30.9941**

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	2.3700e-003	0.1547	0.0394	6.6000e-004	0.0194	9.3000e-004	0.0203	5.3200e-003	8.9000e-004	6.2000e-003	0.0000	65.6178	65.6178	3.6100e-003	0.0104	68.8134
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	1.6200e-003	1.2800e-003	0.0174	5.0000e-005	5.5900e-003	3.0000e-005	5.6200e-003	1.4800e-003	3.0000e-005	1.5200e-003	0.0000	4.4484	4.4484	1.2000e-004	1.2000e-004	4.4859
Total	**3.9900e-003**	**0.1560**	**0.0568**	**7.1000e-004**	**0.0250**	**9.6000e-004**	**0.0259**	**6.8000e-003**	**9.2000e-004**	**7.7200e-003**	**0.0000**	**70.0662**	**70.0662**	**3.7300e-003**	**0.0105**	**73.2993**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Reservoir construction - 2023

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	8.2600e-003	0.0886	0.0475	1.2000e-004		3.8200e-003	3.8200e-003		3.5200e-003	3.5200e-003	0.0000	10.7931	10.7931	3.4900e-003	0.0000	10.8803
Total	**8.2600e-003**	**0.0886**	**0.0475**	**1.2000e-004**		**3.8200e-003**	**3.8200e-003**		**3.5200e-003**	**3.5200e-003**	**0.0000**	**10.7931**	**10.7931**	**3.4900e-003**	**0.0000**	**10.8803**

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	2.0000e-005	6.0000e-004	2.3000e-004	0.0000	9.0000e-005	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.2727	0.2727	1.0000e-005	4.0000e-005	0.2847
Worker	4.8000e-004	3.8000e-004	5.1100e-003	1.0000e-005	1.6400e-003	1.0000e-005	1.6500e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.3084	1.3084	3.0000e-005	3.0000e-005	1.3194
Total	**5.0000e-004**	**9.8000e-004**	**5.3400e-003**	**1.0000e-005**	**1.7300e-003**	**1.0000e-005**	**1.7500e-003**	**4.7000e-004**	**1.0000e-005**	**4.8000e-004**	**0.0000**	**1.5811**	**1.5811**	**4.0000e-005**	**7.0000e-005**	**1.6040**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Reservoir construction - 2023

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	8.2600e-003	0.0886	0.0475	1.2000e-004		3.8200e-003	3.8200e-003		3.5200e-003	3.5200e-003	0.0000	10.7930	10.7930	3.4900e-003	0.0000	10.8803
Total	**8.2600e-003**	**0.0886**	**0.0475**	**1.2000e-004**		**3.8200e-003**	**3.8200e-003**		**3.5200e-003**	**3.5200e-003**	**0.0000**	**10.7930**	**10.7930**	**3.4900e-003**	**0.0000**	**10.8803**

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	2.0000e-005	6.0000e-004	2.3000e-004	0.0000	9.0000e-005	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.2727	0.2727	1.0000e-005	4.0000e-005	0.2847
Worker	4.8000e-004	3.8000e-004	5.1100e-003	1.0000e-005	1.6400e-003	1.0000e-005	1.6500e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.3084	1.3084	3.0000e-005	3.0000e-005	1.3194
Total	**5.0000e-004**	**9.8000e-004**	**5.3400e-003**	**1.0000e-005**	**1.7300e-003**	**1.0000e-005**	**1.7500e-003**	**4.7000e-004**	**1.0000e-005**	**4.8000e-004**	**0.0000**	**1.5811**	**1.5811**	**4.0000e-005**	**7.0000e-005**	**1.6040**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Reservoir construction - 2024

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	0.0332	0.3495	0.1919	5.0000e-004		0.0151	0.0151		0.0139	0.0139	0.0000	43.8931	43.8931	0.0142	0.0000	44.2480
Total	**0.0332**	**0.3495**	**0.1919**	**5.0000e-004**		**0.0151**	**0.0151**		**0.0139**	**0.0139**	**0.0000**	**43.8931**	**43.8931**	**0.0142**	**0.0000**	**44.2480**

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	7.0000e-005	2.4600e-003	9.0000e-004	1.0000e-005	3.8000e-004	1.0000e-005	4.0000e-004	1.1000e-004	1.0000e-005	1.2000e-004	0.0000	1.0925	1.0925	4.0000e-005	1.6000e-004	1.1403
Worker	1.8100e-003	1.3700e-003	0.0193	6.0000e-005	6.6800e-003	4.0000e-005	6.7200e-003	1.7800e-003	4.0000e-005	1.8100e-003	0.0000	5.1703	5.1703	1.3000e-004	1.3000e-004	5.2118
Total	**1.8800e-003**	**3.8300e-003**	**0.0202**	**7.0000e-005**	**7.0600e-003**	**5.0000e-005**	**7.1200e-003**	**1.8900e-003**	**5.0000e-005**	**1.9300e-003**	**0.0000**	**6.2627**	**6.2627**	**1.7000e-004**	**2.9000e-004**	**6.3521**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Reservoir construction - 2024

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	0.0332	0.3495	0.1919	5.0000e-004		0.0151	0.0151		0.0139	0.0139	0.0000	43.8930	43.8930	0.0142	0.0000	44.2479
Total	**0.0332**	**0.3495**	**0.1919**	**5.0000e-004**		**0.0151**	**0.0151**		**0.0139**	**0.0139**	**0.0000**	**43.8930**	**43.8930**	**0.0142**	**0.0000**	**44.2479**

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	7.0000e-005	2.4600e-003	9.0000e-004	1.0000e-005	3.8000e-004	1.0000e-005	4.0000e-004	1.1000e-004	1.0000e-005	1.2000e-004	0.0000	1.0925	1.0925	4.0000e-005	1.6000e-004	1.1403
Worker	1.8100e-003	1.3700e-003	0.0193	6.0000e-005	6.6800e-003	4.0000e-005	6.7200e-003	1.7800e-003	4.0000e-005	1.8100e-003	0.0000	5.1703	5.1703	1.3000e-004	1.3000e-004	5.2118
Total	**1.8800e-003**	**3.8300e-003**	**0.0202**	**7.0000e-005**	**7.0600e-003**	**5.0000e-005**	**7.1200e-003**	**1.8900e-003**	**5.0000e-005**	**1.9300e-003**	**0.0000**	**6.2627**	**6.2627**	**1.7000e-004**	**2.9000e-004**	**6.3521**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Pipeline, diversion structure, and treatment facility/pump installation - 2024

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	0.0151	0.1536	0.1179	2.3000e-004		8.0100e-003	8.0100e-003		7.3700e-003	7.3700e-003	0.0000	20.2066	20.2066	6.5400e-003	0.0000	20.3700
Total	**0.0151**	**0.1536**	**0.1179**	**2.3000e-004**		**8.0100e-003**	**8.0100e-003**		**7.3700e-003**	**7.3700e-003**	**0.0000**	**20.2066**	**20.2066**	**6.5400e-003**	**0.0000**	**20.3700**

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	2.0000e-005	1.3800e-003	3.6000e-004	1.0000e-005	1.7000e-004	1.0000e-005	1.8000e-004	5.0000e-005	1.0000e-005	6.0000e-005	0.0000	0.5750	0.5750	3.0000e-005	9.0000e-005	0.6031
Vendor	4.0000e-005	1.6600e-003	6.1000e-004	1.0000e-005	2.6000e-004	1.0000e-005	2.7000e-004	7.0000e-005	1.0000e-005	8.0000e-005	0.0000	0.7343	0.7343	3.0000e-005	1.1000e-004	0.7664
Worker	1.4600e-003	1.1100e-003	0.0156	5.0000e-005	5.3900e-003	3.0000e-005	5.4200e-003	1.4300e-003	3.0000e-005	1.4600e-003	0.0000	4.1701	4.1701	1.0000e-004	1.0000e-004	4.2036
Total	**1.5200e-003**	**4.1500e-003**	**0.0166**	**7.0000e-005**	**5.8200e-003**	**5.0000e-005**	**5.8700e-003**	**1.5500e-003**	**5.0000e-005**	**1.6000e-003**	**0.0000**	**5.4794**	**5.4794**	**1.6000e-004**	**3.0000e-004**	**5.5731**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Pipeline, diversion structure, and treatment facility/pump installation - 2024

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	0.0151	0.1536	0.1179	2.3000e-004		8.0100e-003	8.0100e-003		7.3700e-003	7.3700e-003	0.0000	20.2066	20.2066	6.5400e-003	0.0000	20.3700
Total	**0.0151**	**0.1536**	**0.1179**	**2.3000e-004**		**8.0100e-003**	**8.0100e-003**		**7.3700e-003**	**7.3700e-003**	**0.0000**	**20.2066**	**20.2066**	**6.5400e-003**	**0.0000**	**20.3700**

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	2.0000e-005	1.3800e-003	3.6000e-004	1.0000e-005	1.7000e-004	1.0000e-005	1.8000e-004	5.0000e-005	1.0000e-005	6.0000e-005	0.0000	0.5750	0.5750	3.0000e-005	9.0000e-005	0.6031
Vendor	4.0000e-005	1.6600e-003	6.1000e-004	1.0000e-005	2.6000e-004	1.0000e-005	2.7000e-004	7.0000e-005	1.0000e-005	8.0000e-005	0.0000	0.7343	0.7343	3.0000e-005	1.1000e-004	0.7664
Worker	1.4600e-003	1.1100e-003	0.0156	5.0000e-005	5.3900e-003	3.0000e-005	5.4200e-003	1.4300e-003	3.0000e-005	1.4600e-003	0.0000	4.1701	4.1701	1.0000e-004	1.0000e-004	4.2036
Total	**1.5200e-003**	**4.1500e-003**	**0.0166**	**7.0000e-005**	**5.8200e-003**	**5.0000e-005**	**5.8700e-003**	**1.5500e-003**	**5.0000e-005**	**1.6000e-003**	**0.0000**	**5.4794**	**5.4794**	**1.6000e-004**	**3.0000e-004**	**5.5731**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Field surface replacement - 2024

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	6.9600e-003	0.0741	0.0547	1.3000e-004		2.9000e-003	2.9000e-003		2.6900e-003	2.6900e-003	0.0000	10.9370	10.9370	3.4100e-003	0.0000	11.0223
Total	**6.9600e-003**	**0.0741**	**0.0547**	**1.3000e-004**		**2.9000e-003**	**2.9000e-003**		**2.6900e-003**	**2.6900e-003**	**0.0000**	**10.9370**	**10.9370**	**3.4100e-003**	**0.0000**	**11.0223**

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	2.0000e-005	8.5000e-004	3.1000e-004	0.0000	1.3000e-004	0.0000	1.4000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.3761	0.3761	1.0000e-005	5.0000e-005	0.3926
Worker	5.0000e-004	3.8000e-004	5.3200e-003	2.0000e-005	1.8400e-003	1.0000e-005	1.8500e-003	4.9000e-004	1.0000e-005	5.0000e-004	0.0000	1.4239	1.4239	4.0000e-005	4.0000e-005	1.4354
Total	**5.2000e-004**	**1.2300e-003**	**5.6300e-003**	**2.0000e-005**	**1.9700e-003**	**1.0000e-005**	**1.9900e-003**	**5.3000e-004**	**1.0000e-005**	**5.4000e-004**	**0.0000**	**1.8000**	**1.8000**	**5.0000e-005**	**9.0000e-005**	**1.8279**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Field surface replacement - 2024

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	6.9600e-003	0.0741	0.0547	1.3000e-004		2.9000e-003	2.9000e-003		2.6900e-003	2.6900e-003	0.0000	10.9370	10.9370	3.4100e-003	0.0000	11.0223
Total	**6.9600e-003**	**0.0741**	**0.0547**	**1.3000e-004**		**2.9000e-003**	**2.9000e-003**		**2.6900e-003**	**2.6900e-003**	**0.0000**	**10.9370**	**10.9370**	**3.4100e-003**	**0.0000**	**11.0223**

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	2.0000e-005	8.5000e-004	3.1000e-004	0.0000	1.3000e-004	0.0000	1.4000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.3761	0.3761	1.0000e-005	5.0000e-005	0.3926
Worker	5.0000e-004	3.8000e-004	5.3200e-003	2.0000e-005	1.8400e-003	1.0000e-005	1.8500e-003	4.9000e-004	1.0000e-005	5.0000e-004	0.0000	1.4239	1.4239	4.0000e-005	4.0000e-005	1.4354
Total	**5.2000e-004**	**1.2300e-003**	**5.6300e-003**	**2.0000e-005**	**1.9700e-003**	**1.0000e-005**	**1.9900e-003**	**5.3000e-004**	**1.0000e-005**	**5.4000e-004**	**0.0000**	**1.8000**	**1.8000**	**5.0000e-005**	**9.0000e-005**	**1.8279**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.8 Restroom building construction - 2024

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	0.0132	0.1347	0.1100	2.5000e-004		5.6200e-003	5.6200e-003		5.2000e-003	5.2000e-003	0.0000	21.2820	21.2820	6.6300e-003	0.0000	21.4476
Total	**0.0132**	**0.1347**	**0.1100**	**2.5000e-004**		**5.6200e-003**	**5.6200e-003**		**5.2000e-003**	**5.2000e-003**	**0.0000**	**21.2820**	**21.2820**	**6.6300e-003**	**0.0000**	**21.4476**

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	6.0000e-005	2.0600e-003	7.5000e-004	1.0000e-005	3.2000e-004	1.0000e-005	3.3000e-004	9.0000e-005	1.0000e-005	1.0000e-004	0.0000	0.9134	0.9134	3.0000e-005	1.3000e-004	0.9534
Worker	2.2600e-003	1.7200e-003	0.0242	7.0000e-005	8.3800e-003	5.0000e-005	8.4300e-003	2.2300e-003	5.0000e-005	2.2700e-003	0.0000	6.4840	6.4840	1.6000e-004	1.6000e-004	6.5361
Total	**2.3200e-003**	**3.7800e-003**	**0.0250**	**8.0000e-005**	**8.7000e-003**	**6.0000e-005**	**8.7600e-003**	**2.3200e-003**	**6.0000e-005**	**2.3700e-003**	**0.0000**	**7.3974**	**7.3974**	**1.9000e-004**	**2.9000e-004**	**7.4895**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.8 Restroom building construction - 2024

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	0.0132	0.1347	0.1100	2.5000e-004		5.6200e-003	5.6200e-003		5.2000e-003	5.2000e-003	0.0000	21.2819	21.2819	6.6300e-003	0.0000	21.4476
Total	**0.0132**	**0.1347**	**0.1100**	**2.5000e-004**		**5.6200e-003**	**5.6200e-003**		**5.2000e-003**	**5.2000e-003**	**0.0000**	**21.2819**	**21.2819**	**6.6300e-003**	**0.0000**	**21.4476**

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	6.0000e-005	2.0600e-003	7.5000e-004	1.0000e-005	3.2000e-004	1.0000e-005	3.3000e-004	9.0000e-005	1.0000e-005	1.0000e-004	0.0000	0.9134	0.9134	3.0000e-005	1.3000e-004	0.9534
Worker	2.2600e-003	1.7200e-003	0.0242	7.0000e-005	8.3800e-003	5.0000e-005	8.4300e-003	2.2300e-003	5.0000e-005	2.2700e-003	0.0000	6.4840	6.4840	1.6000e-004	1.6000e-004	6.5361
Total	**2.3200e-003**	**3.7800e-003**	**0.0250**	**8.0000e-005**	**8.7000e-003**	**6.0000e-005**	**8.7600e-003**	**2.3200e-003**	**6.0000e-005**	**2.3700e-003**	**0.0000**	**7.3974**	**7.3974**	**1.9000e-004**	**2.9000e-004**	**7.4895**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.9 Basketball court construction - 2024

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	6.6900e-003	0.0632	0.0518	1.2000e-004		2.6100e-003	2.6100e-003		2.4400e-003	2.4400e-003	0.0000	9.7255	9.7255	2.8300e-003	0.0000	9.7963
Total	**6.6900e-003**	**0.0632**	**0.0518**	**1.2000e-004**		**2.6100e-003**	**2.6100e-003**		**2.4400e-003**	**2.4400e-003**	**0.0000**	**9.7255**	**9.7255**	**2.8300e-003**	**0.0000**	**9.7963**

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	2.0000e-005	8.5000e-004	3.1000e-004	0.0000	1.3000e-004	0.0000	1.4000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.3761	0.3761	1.0000e-005	5.0000e-005	0.3926
Worker	3.1000e-004	2.4000e-004	3.3300e-003	1.0000e-005	1.1500e-003	1.0000e-005	1.1600e-003	3.1000e-004	1.0000e-005	3.1000e-004	0.0000	0.8900	0.8900	2.0000e-005	2.0000e-005	0.8971
Total	**3.3000e-004**	**1.0900e-003**	**3.6400e-003**	**1.0000e-005**	**1.2800e-003**	**1.0000e-005**	**1.3000e-003**	**3.5000e-004**	**1.0000e-005**	**3.5000e-004**	**0.0000**	**1.2661**	**1.2661**	**3.0000e-005**	**7.0000e-005**	**1.2897**

Spane Park Stormwater Capture Project - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.9 Basketball court construction - 2024

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	6.6900e-003	0.0632	0.0518	1.2000e-004		2.6100e-003	2.6100e-003		2.4400e-003	2.4400e-003	0.0000	9.7255	9.7255	2.8300e-003	0.0000	9.7962
Total	**6.6900e-003**	**0.0632**	**0.0518**	**1.2000e-004**		**2.6100e-003**	**2.6100e-003**		**2.4400e-003**	**2.4400e-003**	**0.0000**	**9.7255**	**9.7255**	**2.8300e-003**	**0.0000**	**9.7962**

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	2.0000e-005	8.5000e-004	3.1000e-004	0.0000	1.3000e-004	0.0000	1.4000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.3761	0.3761	1.0000e-005	5.0000e-005	0.3926
Worker	3.1000e-004	2.4000e-004	3.3300e-003	1.0000e-005	1.1500e-003	1.0000e-005	1.1600e-003	3.1000e-004	1.0000e-005	3.1000e-004	0.0000	0.8900	0.8900	2.0000e-005	2.0000e-005	0.8971
Total	**3.3000e-004**	**1.0900e-003**	**3.6400e-003**	**1.0000e-005**	**1.2800e-003**	**1.0000e-005**	**1.3000e-003**	**3.5000e-004**	**1.0000e-005**	**3.5000e-004**	**0.0000**	**1.2661**	**1.2661**	**3.0000e-005**	**7.0000e-005**	**1.2897**

Spane Park Stormwater Capture Project - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.10 Concrete pathway improvements - 2024

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	6.2000e-004	3.8700e-003	3.2400e-003	1.0000e-005		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	0.4812	0.4812	5.0000e-005	0.0000	0.4824
Paving	1.1800e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**1.8000e-003**	**3.8700e-003**	**3.2400e-003**	**1.0000e-005**		**1.5000e-004**	**1.5000e-004**		**1.5000e-004**	**1.5000e-004**	**0.0000**	**0.4812**	**0.4812**	**5.0000e-005**	**0.0000**	**0.4824**

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	2.0000e-005	8.5000e-004	3.1000e-004	0.0000	1.3000e-004	0.0000	1.4000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.3761	0.3761	1.0000e-005	5.0000e-005	0.3926
Worker	3.1000e-004	2.4000e-004	3.3300e-003	1.0000e-005	1.1500e-003	1.0000e-005	1.1600e-003	3.1000e-004	1.0000e-005	3.1000e-004	0.0000	0.8900	0.8900	2.0000e-005	2.0000e-005	0.8971
Total	**3.3000e-004**	**1.0900e-003**	**3.6400e-003**	**1.0000e-005**	**1.2800e-003**	**1.0000e-005**	**1.3000e-003**	**3.5000e-004**	**1.0000e-005**	**3.5000e-004**	**0.0000**	**1.2661**	**1.2661**	**3.0000e-005**	**7.0000e-005**	**1.2897**

Spane Park Stormwater Capture Project - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.10 Concrete pathway improvements - 2024

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	6.2000e-004	3.8700e-003	3.2400e-003	1.0000e-005		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	0.4812	0.4812	5.0000e-005	0.0000	0.4824
Paving	1.1800e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**1.8000e-003**	**3.8700e-003**	**3.2400e-003**	**1.0000e-005**		**1.5000e-004**	**1.5000e-004**		**1.5000e-004**	**1.5000e-004**	**0.0000**	**0.4812**	**0.4812**	**5.0000e-005**	**0.0000**	**0.4824**

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	2.0000e-005	8.5000e-004	3.1000e-004	0.0000	1.3000e-004	0.0000	1.4000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.3761	0.3761	1.0000e-005	5.0000e-005	0.3926
Worker	3.1000e-004	2.4000e-004	3.3300e-003	1.0000e-005	1.1500e-003	1.0000e-005	1.1600e-003	3.1000e-004	1.0000e-005	3.1000e-004	0.0000	0.8900	0.8900	2.0000e-005	2.0000e-005	0.8971
Total	**3.3000e-004**	**1.0900e-003**	**3.6400e-003**	**1.0000e-005**	**1.2800e-003**	**1.0000e-005**	**1.3000e-003**	**3.5000e-004**	**1.0000e-005**	**3.5000e-004**	**0.0000**	**1.2661**	**1.2661**	**3.0000e-005**	**7.0000e-005**	**1.2897**

Spane Park Stormwater Capture Project - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.11 Pond and stream revitilization - 2024

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	0.0112	0.1144	0.0944	2.1000e-004		4.8700e-003	4.8700e-003		4.5100e-003	4.5100e-003	0.0000	17.8148	17.8148	5.5600e-003	0.0000	17.9536
Paving	1.1800e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0124**	**0.1144**	**0.0944**	**2.1000e-004**		**4.8700e-003**	**4.8700e-003**		**4.5100e-003**	**4.5100e-003**	**0.0000**	**17.8148**	**17.8148**	**5.5600e-003**	**0.0000**	**17.9536**

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	4.0000e-005	1.6600e-003	6.1000e-004	1.0000e-005	2.6000e-004	1.0000e-005	2.7000e-004	7.0000e-005	1.0000e-005	8.0000e-005	0.0000	0.7343	0.7343	3.0000e-005	1.1000e-004	0.7664
Worker	1.2100e-003	9.2000e-004	0.0130	4.0000e-005	4.4900e-003	3.0000e-005	4.5200e-003	1.1900e-003	2.0000e-005	1.2200e-003	0.0000	3.4751	3.4751	9.0000e-005	9.0000e-005	3.5030
Total	**1.2500e-003**	**2.5800e-003**	**0.0136**	**5.0000e-005**	**4.7500e-003**	**4.0000e-005**	**4.7900e-003**	**1.2600e-003**	**3.0000e-005**	**1.3000e-003**	**0.0000**	**4.2094**	**4.2094**	**1.2000e-004**	**2.0000e-004**	**4.2695**

Spane Park Stormwater Capture Project - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.11 Pond and stream revitilization - 2024

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	0.0112	0.1144	0.0944	2.1000e-004		4.8700e-003	4.8700e-003		4.5100e-003	4.5100e-003	0.0000	17.8147	17.8147	5.5600e-003	0.0000	17.9536
Paving	1.1800e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0124**	**0.1144**	**0.0944**	**2.1000e-004**		**4.8700e-003**	**4.8700e-003**		**4.5100e-003**	**4.5100e-003**	**0.0000**	**17.8147**	**17.8147**	**5.5600e-003**	**0.0000**	**17.9536**

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	4.0000e-005	1.6600e-003	6.1000e-004	1.0000e-005	2.6000e-004	1.0000e-005	2.7000e-004	7.0000e-005	1.0000e-005	8.0000e-005	0.0000	0.7343	0.7343	3.0000e-005	1.1000e-004	0.7664
Worker	1.2100e-003	9.2000e-004	0.0130	4.0000e-005	4.4900e-003	3.0000e-005	4.5200e-003	1.1900e-003	2.0000e-005	1.2200e-003	0.0000	3.4751	3.4751	9.0000e-005	9.0000e-005	3.5030
Total	**1.2500e-003**	**2.5800e-003**	**0.0136**	**5.0000e-005**	**4.7500e-003**	**4.0000e-005**	**4.7900e-003**	**1.2600e-003**	**3.0000e-005**	**1.3000e-003**	**0.0000**	**4.2094**	**4.2094**	**1.2000e-004**	**2.0000e-004**	**4.2695**

Spane Park Stormwater Capture Project - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.12 Ancillary park improvements - 2024

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	0.0101	0.1033	0.0852	1.9000e-004		4.4000e-003	4.4000e-003		4.0700e-003	4.0700e-003	0.0000	16.0767	16.0767	5.0100e-003	0.0000	16.2021
Paving	1.0600e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0112**	**0.1033**	**0.0852**	**1.9000e-004**		**4.4000e-003**	**4.4000e-003**		**4.0700e-003**	**4.0700e-003**	**0.0000**	**16.0767**	**16.0767**	**5.0100e-003**	**0.0000**	**16.2021**

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	4.0000e-005	1.4900e-003	5.5000e-004	1.0000e-005	2.3000e-004	1.0000e-005	2.4000e-004	7.0000e-005	1.0000e-005	7.0000e-005	0.0000	0.6627	0.6627	2.0000e-005	1.0000e-004	0.6917
Worker	5.5000e-004	4.2000e-004	5.8600e-003	2.0000e-005	2.0300e-003	1.0000e-005	2.0400e-003	5.4000e-004	1.0000e-005	5.5000e-004	0.0000	1.5680	1.5680	4.0000e-005	4.0000e-005	1.5806
Total	**5.9000e-004**	**1.9100e-003**	**6.4100e-003**	**3.0000e-005**	**2.2600e-003**	**2.0000e-005**	**2.2800e-003**	**6.1000e-004**	**2.0000e-005**	**6.2000e-004**	**0.0000**	**2.2307**	**2.2307**	**6.0000e-005**	**1.4000e-004**	**2.2723**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.12 Ancillary park improvements - 2024

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	0.0101	0.1033	0.0852	1.9000e-004		4.4000e-003	4.4000e-003		4.0700e-003	4.0700e-003	0.0000	16.0767	16.0767	5.0100e-003	0.0000	16.2020
Paving	1.0600e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0112**	**0.1033**	**0.0852**	**1.9000e-004**		**4.4000e-003**	**4.4000e-003**		**4.0700e-003**	**4.0700e-003**	**0.0000**	**16.0767**	**16.0767**	**5.0100e-003**	**0.0000**	**16.2020**

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	4.0000e-005	1.4900e-003	5.5000e-004	1.0000e-005	2.3000e-004	1.0000e-005	2.4000e-004	7.0000e-005	1.0000e-005	7.0000e-005	0.0000	0.6627	0.6627	2.0000e-005	1.0000e-004	0.6917
Worker	5.5000e-004	4.2000e-004	5.8600e-003	2.0000e-005	2.0300e-003	1.0000e-005	2.0400e-003	5.4000e-004	1.0000e-005	5.5000e-004	0.0000	1.5680	1.5680	4.0000e-005	4.0000e-005	1.5806
Total	**5.9000e-004**	**1.9100e-003**	**6.4100e-003**	**3.0000e-005**	**2.2600e-003**	**2.0000e-005**	**2.2800e-003**	**6.1000e-004**	**2.0000e-005**	**6.2000e-004**	**0.0000**	**2.2307**	**2.2307**	**6.0000e-005**	**1.4000e-004**	**2.2723**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.12 Ancillary park improvements - 2025

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	1.0400e-003	0.0103	9.1200e-003	2.0000e-005		4.3000e-004	4.3000e-004		4.0000e-004	4.0000e-004	0.0000	1.7379	1.7379	5.4000e-004	0.0000	1.7514
Paving	1.2000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**1.1600e-003**	**0.0103**	**9.1200e-003**	**2.0000e-005**		**4.3000e-004**	**4.3000e-004**		**4.0000e-004**	**4.0000e-004**	**0.0000**	**1.7379**	**1.7379**	**5.4000e-004**	**0.0000**	**1.7514**

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	1.6000e-004	6.0000e-005	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0704	0.0704	0.0000	1.0000e-005	0.0734
Worker	6.0000e-005	4.0000e-005	5.9000e-004	0.0000	2.2000e-004	0.0000	2.2000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.1638	0.1638	0.0000	0.0000	0.1650
Total	**6.0000e-005**	**2.0000e-004**	**6.5000e-004**	**0.0000**	**2.5000e-004**	**0.0000**	**2.5000e-004**	**7.0000e-005**	**0.0000**	**7.0000e-005**	**0.0000**	**0.2341**	**0.2341**	**0.0000**	**1.0000e-005**	**0.2385**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.12 Ancillary park improvements - 2025

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	1.0400e-003	0.0103	9.1200e-003	2.0000e-005		4.3000e-004	4.3000e-004		4.0000e-004	4.0000e-004	0.0000	1.7379	1.7379	5.4000e-004	0.0000	1.7514
Paving	1.2000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**1.1600e-003**	**0.0103**	**9.1200e-003**	**2.0000e-005**		**4.3000e-004**	**4.3000e-004**		**4.0000e-004**	**4.0000e-004**	**0.0000**	**1.7379**	**1.7379**	**5.4000e-004**	**0.0000**	**1.7514**

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	1.6000e-004	6.0000e-005	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0704	0.0704	0.0000	1.0000e-005	0.0734
Worker	6.0000e-005	4.0000e-005	5.9000e-004	0.0000	2.2000e-004	0.0000	2.2000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.1638	0.1638	0.0000	0.0000	0.1650
Total	**6.0000e-005**	**2.0000e-004**	**6.5000e-004**	**0.0000**	**2.5000e-004**	**0.0000**	**2.5000e-004**	**7.0000e-005**	**0.0000**	**7.0000e-005**	**0.0000**	**0.2341**	**0.2341**	**0.0000**	**1.0000e-005**	**0.2385**

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3.13 Parking reconstruction - 2024

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	3.6700e-003	0.0369	0.0539	8.0000e-005		1.6900e-003	1.6900e-003		1.5600e-003	1.5600e-003	0.0000	7.2820	7.2820	2.3000e-003	0.0000	7.3394
Paving	6.5000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**4.3200e-003**	**0.0369**	**0.0539**	**8.0000e-005**		**1.6900e-003**	**1.6900e-003**		**1.5600e-003**	**1.5600e-003**	**0.0000**	**7.2820**	**7.2820**	**2.3000e-003**	**0.0000**	**7.3394**

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	2.0000e-005	6.9000e-004	2.5000e-004	0.0000	1.1000e-004	0.0000	1.1000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.3045	0.3045	1.0000e-005	4.0000e-005	0.3178
Worker	1.0100e-003	7.6000e-004	0.0108	3.0000e-005	3.7300e-003	2.0000e-005	3.7500e-003	9.9000e-004	2.0000e-005	1.0100e-003	0.0000	2.8818	2.8818	7.0000e-005	7.0000e-005	2.9049
Total	**1.0300e-003**	**1.4500e-003**	**0.0110**	**3.0000e-005**	**3.8400e-003**	**2.0000e-005**	**3.8600e-003**	**1.0200e-003**	**2.0000e-005**	**1.0400e-003**	**0.0000**	**3.1862**	**3.1862**	**8.0000e-005**	**1.1000e-004**	**3.2227**

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3.13 Parking reconstruction - 2024

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	3.6700e-003	0.0369	0.0539	8.0000e-005		1.6900e-003	1.6900e-003		1.5600e-003	1.5600e-003	0.0000	7.2820	7.2820	2.3000e-003	0.0000	7.3394
Paving	6.5000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**4.3200e-003**	**0.0369**	**0.0539**	**8.0000e-005**		**1.6900e-003**	**1.6900e-003**		**1.5600e-003**	**1.5600e-003**	**0.0000**	**7.2820**	**7.2820**	**2.3000e-003**	**0.0000**	**7.3394**

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	2.0000e-005	6.9000e-004	2.5000e-004	0.0000	1.1000e-004	0.0000	1.1000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.3045	0.3045	1.0000e-005	4.0000e-005	0.3178
Worker	1.0100e-003	7.6000e-004	0.0108	3.0000e-005	3.7300e-003	2.0000e-005	3.7500e-003	9.9000e-004	2.0000e-005	1.0100e-003	0.0000	2.8818	2.8818	7.0000e-005	7.0000e-005	2.9049
Total	**1.0300e-003**	**1.4500e-003**	**0.0110**	**3.0000e-005**	**3.8400e-003**	**2.0000e-005**	**3.8600e-003**	**1.0200e-003**	**2.0000e-005**	**1.0400e-003**	**0.0000**	**3.1862**	**3.1862**	**8.0000e-005**	**1.1000e-004**	**3.2227**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.13 Parking reconstruction - 2025

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	2.8700e-003	0.0285	0.0443	7.0000e-005		1.2600e-003	1.2600e-003		1.1700e-003	1.1700e-003	0.0000	5.9947	5.9947	1.8900e-003	0.0000	6.0420
Paving	5.3000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**3.4000e-003**	**0.0285**	**0.0443**	**7.0000e-005**		**1.2600e-003**	**1.2600e-003**		**1.1700e-003**	**1.1700e-003**	**0.0000**	**5.9947**	**5.9947**	**1.8900e-003**	**0.0000**	**6.0420**

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-005	5.6000e-004	2.0000e-004	0.0000	9.0000e-005	0.0000	9.0000e-005	3.0000e-005	0.0000	3.0000e-005	0.0000	0.2462	0.2462	1.0000e-005	4.0000e-005	0.2570
Worker	7.8000e-004	5.6000e-004	8.2600e-003	3.0000e-005	3.0700e-003	2.0000e-005	3.0900e-003	8.1000e-004	2.0000e-005	8.3000e-004	0.0000	2.2926	2.2926	5.0000e-005	6.0000e-005	2.3104
Total	**7.9000e-004**	**1.1200e-003**	**8.4600e-003**	**3.0000e-005**	**3.1600e-003**	**2.0000e-005**	**3.1800e-003**	**8.4000e-004**	**2.0000e-005**	**8.6000e-004**	**0.0000**	**2.5388**	**2.5388**	**6.0000e-005**	**1.0000e-004**	**2.5674**

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3.13 Parking reconstruction - 2025

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	2.8700e-003	0.0285	0.0443	7.0000e-005		1.2600e-003	1.2600e-003		1.1700e-003	1.1700e-003	0.0000	5.9947	5.9947	1.8900e-003	0.0000	6.0420
Paving	5.3000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**3.4000e-003**	**0.0285**	**0.0443**	**7.0000e-005**		**1.2600e-003**	**1.2600e-003**		**1.1700e-003**	**1.1700e-003**	**0.0000**	**5.9947**	**5.9947**	**1.8900e-003**	**0.0000**	**6.0420**

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-005	5.6000e-004	2.0000e-004	0.0000	9.0000e-005	0.0000	9.0000e-005	3.0000e-005	0.0000	3.0000e-005	0.0000	0.2462	0.2462	1.0000e-005	4.0000e-005	0.2570
Worker	7.8000e-004	5.6000e-004	8.2600e-003	3.0000e-005	3.0700e-003	2.0000e-005	3.0900e-003	8.1000e-004	2.0000e-005	8.3000e-004	0.0000	2.2926	2.2926	5.0000e-005	6.0000e-005	2.3104
Total	**7.9000e-004**	**1.1200e-003**	**8.4600e-003**	**3.0000e-005**	**3.1600e-003**	**2.0000e-005**	**3.1800e-003**	**8.4000e-004**	**2.0000e-005**	**8.6000e-004**	**0.0000**	**2.5388**	**2.5388**	**6.0000e-005**	**1.0000e-004**	**2.5674**

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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
Parking Lot	0.00	0.00	0.00		
User Defined Industrial	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
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
User Defined Industrial	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Parking Lot	0.540171	0.064547	0.189075	0.126673	0.023412	0.006384	0.010926	0.008089	0.000929	0.000597	0.025155	0.000706	0.003335
User Defined Industrial	0.540171	0.064547	0.189075	0.126673	0.023412	0.006384	0.010926	0.008089	0.000929	0.000597	0.025155	0.000706	0.003335

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

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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					
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
User Defined Industrial	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					
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
User Defined Industrial	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**

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5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
User Defined Industrial	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			
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

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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	0.4863	2.0000e-005	2.0000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.9100e-003	3.9100e-003	1.0000e-005	0.0000	4.1600e-003
Unmitigated	0.4863	2.0000e-005	2.0000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.9100e-003	3.9100e-003	1.0000e-005	0.0000	4.1600e-003

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	0.0555					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.4307					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.8000e-004	2.0000e-005	2.0000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.9100e-003	3.9100e-003	1.0000e-005	0.0000	4.1600e-003
Total	**0.4863**	**2.0000e-005**	**2.0000e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**	**0.0000**	**3.9100e-003**	**3.9100e-003**	**1.0000e-005**	**0.0000**	**4.1600e-003**

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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	0.0555					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.4307					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.8000e-004	2.0000e-005	2.0000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.9100e-003	3.9100e-003	1.0000e-005	0.0000	4.1600e-003
Total	**0.4863**	**2.0000e-005**	**2.0000e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**	**0.0000**	**3.9100e-003**	**3.9100e-003**	**1.0000e-005**	**0.0000**	**4.1600e-003**

7.0 Water Detail

7.1 Mitigation Measures Water

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	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			
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
User Defined Industrial	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
User Defined Industrial	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

Spane Park Stormwater Capture Project - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
User Defined Industrial	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			
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

9.0 Operational Offroad

Spane Park Stormwater Capture Project - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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

Spane Park Stormwater Capture Project_2xwater - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Spane Park Stormwater Capture Project_2xwater

Los Angeles-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Industrial	118.48	User Defined Unit	2.72	118,483.00	0
Parking Lot	39.00	1000sqft	0.90	39,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	9			**Operational Year**	2025
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - 2.72 acre area disturbed. 39,000 SF paved. Provided by applicant

Construction Phase - Construction schedule provided by applicant.

Off-road Equipment - Equipment provided by project applicant.

Off-road Equipment - Equipment provided by project applicant.

Off-road Equipment - Equipment provided by project applicant.

Off-road Equipment - Equipment provided by project applicant.

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Spane Park Stormwater Capture Project_2xwater - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Off-road Equipment - Equipment provided by project applicant.

Off-road Equipment - Equipment provided by project applicant.

Off-road Equipment - Equipment provided by project applicant.

Off-road Equipment - Equipment provided by project applicant.

Trips and VMT - Trips provided by applicant.

Demolition - Data provided by applicant.

Grading - Data provided by project applicant.

Vehicle Trips - Construction only.

Vehicle Emission Factors - Construction only.

Road Dust - Construction only.

Woodstoves - Construction only.

Consumer Products - Construction only.

Area Coating - Construction only.

Landscape Equipment - Construction only.

Energy Use - Construction only.

Water And Wastewater - Construction only.

Solid Waste - Construction only.

Construction Off-road Equipment Mitigation - Compliance with SCAQMD Rule 403- water twice daily.

Fleet Mix - Construction only.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	230.00	76.00
tblConstructionPhase	NumDays	230.00	21.00
tblConstructionPhase	NumDays	230.00	51.00
tblConstructionPhase	NumDays	230.00	21.00
tblConstructionPhase	NumDays	20.00	21.00
tblConstructionPhase	NumDays	8.00	51.00
tblConstructionPhase	NumDays	18.00	41.00
tblConstructionPhase	NumDays	18.00	41.00

Spane Park Stormwater Capture Project_2xwater - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblConstructionPhase	NumDays	18.00	31.00
tblConstructionPhase	NumDays	18.00	21.00
tblConstructionPhase	NumDays	5.00	41.00
tblEnergyUse	LightingElect	0.35	0.00
tblGrading	AcresOfGrading	25.50	8.00
tblGrading	AcresOfGrading	41.00	7.50
tblGrading	MaterialExported	0.00	18,000.00
tblGrading	MaterialExported	0.00	1,800.00
tblLandUse	LandUseSquareFeet	0.00	118,483.00
tblLandUse	LotAcreage	0.00	2.72
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblTripsAndVMT	HaulingTripNumber	25.00	26.00
tblTripsAndVMT	HaulingTripNumber	225.00	226.00
tblTripsAndVMT	HaulingTripNumber	0.00	20.00

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	26.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	26.00	2.00
tblTripsAndVMT	VendorTripNumber	26.00	2.00
tblTripsAndVMT	VendorTripNumber	26.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripNumber	10.00	20.00
tblTripsAndVMT	WorkerTripNumber	10.00	40.00
tblTripsAndVMT	WorkerTripNumber	8.00	20.00
tblTripsAndVMT	WorkerTripNumber	8.00	20.00
tblTripsAndVMT	WorkerTripNumber	66.00	20.00
tblTripsAndVMT	WorkerTripNumber	8.00	24.00
tblTripsAndVMT	WorkerTripNumber	66.00	16.00
tblTripsAndVMT	WorkerTripNumber	66.00	30.00
tblTripsAndVMT	WorkerTripNumber	66.00	10.00
tblTripsAndVMT	WorkerTripNumber	3.00	10.00

2.0 Emissions Summary

Spane Park Stormwater Capture Project_2xwater - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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					
2023	2.4374	28.7378	16.2497	0.0639	13.7652	1.0129	14.7357	7.0229	0.9444	7.9173	0.0000	6,586.9476	6,586.9476	1.1553	0.5157	6,769.5149
2024	1.9599	19.2538	13.5948	0.0329	0.5845	0.8885	1.4145	0.1556	0.8175	0.9576	0.0000	3,210.2666	3,210.2666	0.8790	0.0257	3,239.9019
2025	1.2052	9.4588	12.5088	0.0253	0.5845	0.4012	0.9857	0.1556	0.3711	0.5266	0.0000	2,448.6607	2,448.6607	0.6094	0.0212	2,470.2093
Maximum	**2.4374**	**28.7378**	**16.2497**	**0.0639**	**13.7652**	**1.0129**	**14.7357**	**7.0229**	**0.9444**	**7.9173**	**0.0000**	**6,586.9476**	**6,586.9476**	**1.1553**	**0.5157**	**6,769.5149**

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					
2023	2.4374	28.7378	16.2497	0.0639	6.9181	1.0129	7.8885	3.3565	0.9444	4.2509	0.0000	6,586.9476	6,586.9476	1.1553	0.5157	6,769.5148
2024	1.9599	19.2538	13.5948	0.0329	0.5845	0.8885	1.4145	0.1556	0.8175	0.9576	0.0000	3,210.2666	3,210.2666	0.8790	0.0257	3,239.9019
2025	1.2052	9.4588	12.5088	0.0253	0.5845	0.4012	0.9857	0.1556	0.3711	0.5266	0.0000	2,448.6607	2,448.6607	0.6094	0.0212	2,470.2093
Maximum	**2.4374**	**28.7378**	**16.2497**	**0.0639**	**6.9181**	**1.0129**	**7.8885**	**3.3565**	**0.9444**	**4.2509**	**0.0000**	**6,586.9476**	**6,586.9476**	**1.1553**	**0.5157**	**6,769.5148**

Spane Park Stormwater Capture Project_2xwater - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	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	45.85	0.00	39.96	49.99	0.00	39.00	0.00	0.00	0.00	0.00	0.00	0.00

Spane Park Stormwater Capture Project_2xwater - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	2.6651	1.5000e-004	0.0160	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0345	0.0345	9.0000e-005		0.0367
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	0.0000
Total	**2.6651**	**1.5000e-004**	**0.0160**	**0.0000**	**0.0000**	**6.0000e-005**	**6.0000e-005**	**0.0000**	**6.0000e-005**	**6.0000e-005**		**0.0345**	**0.0345**	**9.0000e-005**	**0.0000**	**0.0367**

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	2.6651	1.5000e-004	0.0160	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0345	0.0345	9.0000e-005		0.0367
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	0.0000
Total	**2.6651**	**1.5000e-004**	**0.0160**	**0.0000**	**0.0000**	**6.0000e-005**	**6.0000e-005**	**0.0000**	**6.0000e-005**	**6.0000e-005**		**0.0345**	**0.0345**	**9.0000e-005**	**0.0000**	**0.0367**

Spane Park Stormwater Capture Project_2xwater - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	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	Demolition of existing basketball courts and restroom building	Demolition	8/1/2023	8/29/2023	5	21	
2	Site mobilization, clearing, grubbing, and vegetation removal	Site Preparation	8/1/2023	9/26/2023	5	41	
3	Reservoir excavation	Grading	9/25/2023	12/4/2023	5	51	
4	Reservoir construction	Building Construction	12/11/2023	3/25/2024	5	76	
5	Pipeline, diversion structure, and treatment facility/pump installation	Trenching	2/5/2024	4/1/2024	5	41	
6	Field surface replacement	Building Construction	4/1/2024	4/29/2024	5	21	
7	Restroom building construction	Building Construction	5/6/2024	7/15/2024	5	51	
8	Basketball court construction	Building Construction	7/22/2024	8/19/2024	5	21	
9	Concrete pathway improvements	Paving	8/26/2024	9/23/2024	5	21	
10	Pond and stream revitilization	Paving	9/23/2024	11/18/2024	5	41	
11	Ancillary park improvements	Paving	11/11/2024	1/6/2025	5	41	
12	Parking reconstruction	Paving	12/9/2024	1/20/2025	5	31	

Acres of Grading (Site Preparation Phase): 7.5

Acres of Grading (Grading Phase): 8

Acres of Paving: 0.9

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

OffRoad Equipment

Spane Park Stormwater Capture Project_2xwater - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition of existing basketball courts and restroom building	Crushing/Proc. Equipment	1	8.00	85	0.78
Demolition of existing basketball courts and restroom building	Rubber Tired Dozers	1	8.00	247	0.40
Demolition of existing basketball courts and restroom building	Skid Steer Loaders	1	8.00	65	0.37
Site mobilization, clearing, grubbing, and vegetation removal	Graders	1	8.00	187	0.41
Site mobilization, clearing, grubbing, and vegetation removal	Rubber Tired Dozers	1	8.00	247	0.40
Site mobilization, clearing, grubbing, and vegetation removal	Skid Steer Loaders	1	8.00	65	0.37
Reservoir excavation	Rubber Tired Dozers	1	8.00	247	0.40
Reservoir excavation	Skid Steer Loaders	1	8.00	65	0.37
Reservoir excavation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Reservoir construction	Cranes	1	8.00	231	0.29
Reservoir construction	Rubber Tired Dozers	1	8.00	247	0.40
Reservoir construction	Skid Steer Loaders	1	8.00	65	0.37
Pipeline, diversion structure, and treatment facility/pump installation	Cranes	1	8.00	231	0.29
Pipeline, diversion structure, and treatment facility/pump installation	Skid Steer Loaders	1	8.00	65	0.37
Pipeline, diversion structure, and treatment facility/pump installation	Trenchers	1	8.00	78	0.50
Field surface replacement	Dumpers/Tenders	1	8.00	16	0.38
Field surface replacement	Graders	1	8.00	187	0.41
Field surface replacement	Skid Steer Loaders	1	8.00	65	0.37
Field surface replacement	Sweepers/Scrubbers	1	8.00	64	0.46
Restroom building construction	Aerial Lifts	1	8.00	63	0.31
Restroom building construction	Cement and Mortar Mixers	1	8.00	9	0.56
Restroom building construction	Cranes	1	8.00	231	0.29
Restroom building construction	Forklifts	1	8.00	89	0.20
Basketball court construction	Aerial Lifts	1	8.00	63	0.31
Basketball court construction	Cement and Mortar Mixers	3	8.00	9	0.56
Basketball court construction	Cranes	1	8.00	231	0.29

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Basketball court construction	Forklifts	1	8.00	89	0.20
Concrete pathway improvements	Cement and Mortar Mixers	1	8.00	9	0.56
Pond and stream revitilization	Cement and Mortar Mixers	1	8.00	9	0.56
Pond and stream revitilization	Cranes	1	8.00	231	0.29
Pond and stream revitilization	Forklifts	1	8.00	89	0.20
Pond and stream revitilization	Skid Steer Loaders	1	8.00	65	0.37
Ancillary park improvements	Cement and Mortar Mixers	1	8.00	9	0.56
Ancillary park improvements	Cranes	1	8.00	231	0.29
Ancillary park improvements	Forklifts	1	8.00	89	0.20
Ancillary park improvements	Skid Steer Loaders	1	8.00	65	0.37
Parking reconstruction	Pavers	1	8.00	130	0.42
Parking reconstruction	Plate Compactors	1	8.00	8	0.43
Parking reconstruction	Rollers	1	8.00	80	0.38
Parking reconstruction	Skid Steer Loaders	1	8.00	65	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
Demolition of existing basketball courts and r	3	8.00	0.00	26.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site mobilization, clearing, grubbing, an	3	20.00	0.00	226.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Reservoir excavation	3	20.00	0.00	2,250.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Reservoir construction	3	20.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Pipeline, diversion structure, and treatme	3	24.00	2.00	20.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Field surface replacement	4	16.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Restroom building construction	4	30.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Basketball court construction	6	10.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Concrete pathway improvements	1	10.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Pond and stream revitilization	4	20.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Ancillary park improvements	4	10.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Parking reconstruction	4	40.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Demolition of existing basketball courts and restroom building - 2023

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					0.2598	0.0000	0.2598	0.0393	0.0000	0.0393			0.0000			0.0000
Off-Road	1.2000	10.9760	8.8183	0.0176		0.5045	0.5045		0.4765	0.4765		1,692.0171	1,692.0171	0.3721		1,701.3187
Total	**1.2000**	**10.9760**	**8.8183**	**0.0176**	**0.2598**	**0.5045**	**0.7644**	**0.0393**	**0.4765**	**0.5159**		**1,692.0171**	**1,692.0171**	**0.3721**		**1,701.3187**

Spane Park Stormwater Capture Project_2xwater - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Demolition of existing basketball courts and restroom building - 2023

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	2.6900e-003	0.1616	0.0431	7.2000e-004	0.0217	1.0200e-003	0.0227	5.9400e-003	9.7000e-004	6.9200e-003		79.5674	79.5674	4.3900e-003	0.0126	83.4424
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
Worker	0.0256	0.0179	0.2891	7.9000e-004	0.0894	5.4000e-004	0.0900	0.0237	5.0000e-004	0.0242		80.0060	80.0060	2.0200e-003	1.8500e-003	80.6067
Total	**0.0283**	**0.1794**	**0.3322**	**1.5100e-003**	**0.1111**	**1.5600e-003**	**0.1127**	**0.0297**	**1.4700e-003**	**0.0311**		**159.5735**	**159.5735**	**6.4100e-003**	**0.0145**	**164.0490**

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					0.1169	0.0000	0.1169	0.0177	0.0000	0.0177			0.0000			0.0000
Off-Road	1.2000	10.9760	8.8183	0.0176		0.5045	0.5045		0.4765	0.4765	0.0000	1,692.0171	1,692.0171	0.3721		1,701.3187
Total	**1.2000**	**10.9760**	**8.8183**	**0.0176**	**0.1169**	**0.5045**	**0.6215**	**0.0177**	**0.4765**	**0.4942**	**0.0000**	**1,692.0171**	**1,692.0171**	**0.3721**		**1,701.3187**

Spane Park Stormwater Capture Project_2xwater - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Demolition of existing basketball courts and restroom building - 2023

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	2.6900e-003	0.1616	0.0431	7.2000e-004	0.0217	1.0200e-003	0.0227	5.9400e-003	9.7000e-004	6.9200e-003		79.5674	79.5674	4.3900e-003	0.0126	83.4424
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
Worker	0.0256	0.0179	0.2891	7.9000e-004	0.0894	5.4000e-004	0.0900	0.0237	5.0000e-004	0.0242		80.0060	80.0060	2.0200e-003	1.8500e-003	80.6067
Total	**0.0283**	**0.1794**	**0.3322**	**1.5100e-003**	**0.1111**	**1.5600e-003**	**0.1127**	**0.0297**	**1.4700e-003**	**0.0311**		**159.5735**	**159.5735**	**6.4100e-003**	**0.0145**	**164.0490**

Spane Park Stormwater Capture Project_2xwater - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Site mobilization, clearing, grubbing, and vegetation removal - 2023

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					6.2210	0.0000	6.2210	3.3319	0.0000	3.3319			0.0000			0.0000
Off-Road	1.1332	12.6449	6.1844	0.0172		0.5009	0.5009		0.4609	0.4609		1,668.3421	1,668.3421	0.5396		1,681.8315
Total	**1.1332**	**12.6449**	**6.1844**	**0.0172**	**6.2210**	**0.5009**	**6.7220**	**3.3319**	**0.4609**	**3.7928**		**1,668.3421**	**1,668.3421**	**0.5396**		**1,681.8315**

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	0.0120	0.7193	0.1920	3.2200e-003	0.0965	4.5400e-003	0.1010	0.0265	4.3400e-003	0.0308		354.2468	354.2468	0.0195	0.0563	371.4985
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
Worker	0.0640	0.0446	0.7228	1.9800e-003	0.2236	1.3400e-003	0.2249	0.0593	1.2400e-003	0.0605		200.0151	200.0151	5.0400e-003	4.6200e-003	201.5167
Total	**0.0760**	**0.7639**	**0.9148**	**5.2000e-003**	**0.3200**	**5.8800e-003**	**0.3259**	**0.0857**	**5.5800e-003**	**0.0913**		**554.2619**	**554.2619**	**0.0246**	**0.0609**	**573.0152**

Spane Park Stormwater Capture Project_2xwater - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Site mobilization, clearing, grubbing, and vegetation removal - 2023

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					2.7995	0.0000	2.7995	1.4994	0.0000	1.4994			0.0000			0.0000
Off-Road	1.1332	12.6449	6.1844	0.0172		0.5009	0.5009		0.4609	0.4609	0.0000	1,668.3421	1,668.3421	0.5396		1,681.8315
Total	**1.1332**	**12.6449**	**6.1844**	**0.0172**	**2.7995**	**0.5009**	**3.3004**	**1.4994**	**0.4609**	**1.9602**	**0.0000**	**1,668.3421**	**1,668.3421**	**0.5396**		**1,681.8315**

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	0.0120	0.7193	0.1920	3.2200e-003	0.0965	4.5400e-003	0.1010	0.0265	4.3400e-003	0.0308		354.2468	354.2468	0.0195	0.0563	371.4985
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
Worker	0.0640	0.0446	0.7228	1.9800e-003	0.2236	1.3400e-003	0.2249	0.0593	1.2400e-003	0.0605		200.0151	200.0151	5.0400e-003	4.6200e-003	201.5167
Total	**0.0760**	**0.7639**	**0.9148**	**5.2000e-003**	**0.3200**	**5.8800e-003**	**0.3259**	**0.0857**	**5.5800e-003**	**0.0913**		**554.2619**	**554.2619**	**0.0246**	**0.0609**	**573.0152**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Reservoir excavation - 2023

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					6.2284	0.0000	6.2284	3.3342	0.0000	3.3342			0.0000			0.0000
Off-Road	0.9011	9.5275	6.7231	0.0137		0.4260	0.4260		0.3919	0.3919		1,329.0634	1,329.0634	0.4299		1,339.8096
Total	**0.9011**	**9.5275**	**6.7231**	**0.0137**	**6.2284**	**0.4260**	**6.6543**	**3.3342**	**0.3919**	**3.7261**		**1,329.0634**	**1,329.0634**	**0.4299**		**1,339.8096**

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	0.0957	5.7569	1.5366	0.0258	0.7722	0.0363	0.8086	0.2117	0.0347	0.2465		2,835.2652	2,835.2652	0.1563	0.4502	2,973.3419
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
Worker	0.0640	0.0446	0.7228	1.9800e-003	0.2236	1.3400e-003	0.2249	0.0593	1.2400e-003	0.0605		200.0151	200.0151	5.0400e-003	4.6200e-003	201.5167
Total	**0.1597**	**5.8015**	**2.2594**	**0.0278**	**0.9958**	**0.0377**	**1.0335**	**0.2710**	**0.0360**	**0.3070**		**3,035.2802**	**3,035.2802**	**0.1613**	**0.4549**	**3,174.8586**

Spane Park Stormwater Capture Project_2xwater - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Reservoir excavation - 2023

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					2.8028	0.0000	2.8028	1.5004	0.0000	1.5004			0.0000			0.0000
Off-Road	0.9011	9.5275	6.7231	0.0137		0.4260	0.4260		0.3919	0.3919	0.0000	1,329.0634	1,329.0634	0.4299		1,339.8096
Total	**0.9011**	**9.5275**	**6.7231**	**0.0137**	**2.8028**	**0.4260**	**3.2288**	**1.5004**	**0.3919**	**1.8923**	**0.0000**	**1,329.0634**	**1,329.0634**	**0.4299**		**1,339.8096**

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	0.0957	5.7569	1.5366	0.0258	0.7722	0.0363	0.8086	0.2117	0.0347	0.2465		2,835.2652	2,835.2652	0.1563	0.4502	2,973.3419
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
Worker	0.0640	0.0446	0.7228	1.9800e-003	0.2236	1.3400e-003	0.2249	0.0593	1.2400e-003	0.0605		200.0151	200.0151	5.0400e-003	4.6200e-003	201.5167
Total	**0.1597**	**5.8015**	**2.2594**	**0.0278**	**0.9958**	**0.0377**	**1.0335**	**0.2710**	**0.0360**	**0.3070**		**3,035.2802**	**3,035.2802**	**0.1613**	**0.4549**	**3,174.8586**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Reservoir construction - 2023

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	1.1012	11.8074	6.3262	0.0164		0.5095	0.5095		0.4688	0.4688		1,586.3062	1,586.3062	0.5130		1,599.1323
Total	**1.1012**	**11.8074**	**6.3262**	**0.0164**		**0.5095**	**0.5095**		**0.4688**	**0.4688**		**1,586.3062**	**1,586.3062**	**0.5130**		**1,599.1323**

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	0.0000
Vendor	2.3000e-003	0.0768	0.0297	3.7000e-004	0.0128	3.9000e-004	0.0132	3.6900e-003	3.7000e-004	4.0600e-003		40.0565	40.0565	1.3400e-003	5.7600e-003	41.8062
Worker	0.0640	0.0446	0.7228	1.9800e-003	0.2236	1.3400e-003	0.2249	0.0593	1.2400e-003	0.0605		200.0151	200.0151	5.0400e-003	4.6200e-003	201.5167
Total	**0.0663**	**0.1214**	**0.7525**	**2.3500e-003**	**0.2364**	**1.7300e-003**	**0.2381**	**0.0630**	**1.6100e-003**	**0.0646**		**240.0716**	**240.0716**	**6.3800e-003**	**0.0104**	**243.3229**

Spane Park Stormwater Capture Project_2xwater - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Reservoir construction - 2023

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	1.1012	11.8074	6.3262	0.0164		0.5095	0.5095		0.4688	0.4688	0.0000	1,586.3062	1,586.3062	0.5130		1,599.1323
Total	**1.1012**	**11.8074**	**6.3262**	**0.0164**		**0.5095**	**0.5095**		**0.4688**	**0.4688**	**0.0000**	**1,586.3062**	**1,586.3062**	**0.5130**		**1,599.1323**

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	0.0000
Vendor	2.3000e-003	0.0768	0.0297	3.7000e-004	0.0128	3.9000e-004	0.0132	3.6900e-003	3.7000e-004	4.0600e-003		40.0565	40.0565	1.3400e-003	5.7600e-003	41.8062
Worker	0.0640	0.0446	0.7228	1.9800e-003	0.2236	1.3400e-003	0.2249	0.0593	1.2400e-003	0.0605		200.0151	200.0151	5.0400e-003	4.6200e-003	201.5167
Total	**0.0663**	**0.1214**	**0.7525**	**2.3500e-003**	**0.2364**	**1.7300e-003**	**0.2381**	**0.0630**	**1.6100e-003**	**0.0646**		**240.0716**	**240.0716**	**6.3800e-003**	**0.0104**	**243.3229**

Spane Park Stormwater Capture Project_2xwater - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Reservoir construction - 2024

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	1.0891	11.4584	6.2903	0.0164		0.4935	0.4935		0.4541	0.4541		1,586.3556	1,586.3556	0.5131		1,599.1821
Total	**1.0891**	**11.4584**	**6.2903**	**0.0164**		**0.4935**	**0.4935**		**0.4541**	**0.4541**		**1,586.3556**	**1,586.3556**	**0.5131**		**1,599.1821**

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	0.0000
Vendor	2.2300e-003	0.0769	0.0291	3.7000e-004	0.0128	3.9000e-004	0.0132	3.6900e-003	3.7000e-004	4.0600e-003		39.4549	39.4549	1.3500e-003	5.6800e-003	41.1808
Worker	0.0596	0.0398	0.6717	1.9200e-003	0.2236	1.2900e-003	0.2248	0.0593	1.1900e-003	0.0605		194.3460	194.3460	4.5600e-003	4.2900e-003	195.7393
Total	**0.0619**	**0.1168**	**0.7008**	**2.2900e-003**	**0.2364**	**1.6800e-003**	**0.2380**	**0.0630**	**1.5600e-003**	**0.0645**		**233.8009**	**233.8009**	**5.9100e-003**	**9.9700e-003**	**236.9201**

Spane Park Stormwater Capture Project_2xwater - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Reservoir construction - 2024

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	1.0891	11.4584	6.2903	0.0164		0.4935	0.4935		0.4541	0.4541	0.0000	1,586.3556	1,586.3556	0.5131		1,599.1821
Total	**1.0891**	**11.4584**	**6.2903**	**0.0164**		**0.4935**	**0.4935**		**0.4541**	**0.4541**	**0.0000**	**1,586.3556**	**1,586.3556**	**0.5131**		**1,599.1821**

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	0.0000
Vendor	2.2300e-003	0.0769	0.0291	3.7000e-004	0.0128	3.9000e-004	0.0132	3.6900e-003	3.7000e-004	4.0600e-003		39.4549	39.4549	1.3500e-003	5.6800e-003	41.1808
Worker	0.0596	0.0398	0.6717	1.9200e-003	0.2236	1.2900e-003	0.2248	0.0593	1.1900e-003	0.0605		194.3460	194.3460	4.5600e-003	4.2900e-003	195.7393
Total	**0.0619**	**0.1168**	**0.7008**	**2.2900e-003**	**0.2364**	**1.6800e-003**	**0.2380**	**0.0630**	**1.5600e-003**	**0.0645**		**233.8009**	**233.8009**	**5.9100e-003**	**9.9700e-003**	**236.9201**

Spane Park Stormwater Capture Project_2xwater - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Pipeline, diversion structure, and treatment facility/pump installation - 2024

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	0.7341	7.4901	5.7514	0.0112		0.3910	0.3910		0.3597	0.3597		1,086.5346	1,086.5346	0.3514		1,095.3198
Total	**0.7341**	**7.4901**	**5.7514**	**0.0112**		**0.3910**	**0.3910**		**0.3597**	**0.3597**		**1,086.5346**	**1,086.5346**	**0.3514**		**1,095.3198**

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	1.0500e-003	0.0638	0.0173	2.8000e-004	8.5400e-003	4.0000e-004	8.9400e-003	2.3400e-003	3.9000e-004	2.7300e-003		30.9053	30.9053	1.7400e-003	4.9100e-003	32.4120
Vendor	2.2300e-003	0.0769	0.0291	3.7000e-004	0.0128	3.9000e-004	0.0132	3.6900e-003	3.7000e-004	4.0600e-003		39.4549	39.4549	1.3500e-003	5.6800e-003	41.1808
Worker	0.0716	0.0478	0.8060	2.3100e-003	0.2683	1.5400e-003	0.2698	0.0711	1.4200e-003	0.0726		233.2152	233.2152	5.4800e-003	5.1500e-003	234.8872
Total	**0.0748**	**0.1885**	**0.8524**	**2.9600e-003**	**0.2896**	**2.3300e-003**	**0.2920**	**0.0772**	**2.1800e-003**	**0.0794**		**303.5755**	**303.5755**	**8.5700e-003**	**0.0157**	**308.4799**

Spane Park Stormwater Capture Project_2xwater - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Pipeline, diversion structure, and treatment facility/pump installation - 2024

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	0.7341	7.4901	5.7514	0.0112		0.3910	0.3910		0.3597	0.3597	0.0000	1,086.5346	1,086.5346	0.3514		1,095.3198
Total	**0.7341**	**7.4901**	**5.7514**	**0.0112**		**0.3910**	**0.3910**		**0.3597**	**0.3597**	**0.0000**	**1,086.5346**	**1,086.5346**	**0.3514**		**1,095.3198**

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	1.0500e-003	0.0638	0.0173	2.8000e-004	8.5400e-003	4.0000e-004	8.9400e-003	2.3400e-003	3.9000e-004	2.7300e-003		30.9053	30.9053	1.7400e-003	4.9100e-003	32.4120
Vendor	2.2300e-003	0.0769	0.0291	3.7000e-004	0.0128	3.9000e-004	0.0132	3.6900e-003	3.7000e-004	4.0600e-003		39.4549	39.4549	1.3500e-003	5.6800e-003	41.1808
Worker	0.0716	0.0478	0.8060	2.3100e-003	0.2683	1.5400e-003	0.2698	0.0711	1.4200e-003	0.0726		233.2152	233.2152	5.4800e-003	5.1500e-003	234.8872
Total	**0.0748**	**0.1885**	**0.8524**	**2.9600e-003**	**0.2896**	**2.3300e-003**	**0.2920**	**0.0772**	**2.1800e-003**	**0.0794**		**303.5755**	**303.5755**	**8.5700e-003**	**0.0157**	**308.4799**

Spane Park Stormwater Capture Project_2xwater - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Field surface replacement - 2024

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	0.6628	7.0555	5.2093	0.0120		0.2765	0.2765		0.2557	0.2557		1,148.1914	1,148.1914	0.3582		1,157.1459
Total	**0.6628**	**7.0555**	**5.2093**	**0.0120**		**0.2765**	**0.2765**		**0.2557**	**0.2557**		**1,148.1914**	**1,148.1914**	**0.3582**		**1,157.1459**

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	0.0000
Vendor	2.2300e-003	0.0769	0.0291	3.7000e-004	0.0128	3.9000e-004	0.0132	3.6900e-003	3.7000e-004	4.0600e-003		39.4549	39.4549	1.3500e-003	5.6800e-003	41.1808
Worker	0.0477	0.0319	0.5373	1.5400e-003	0.1788	1.0300e-003	0.1799	0.0474	9.5000e-004	0.0484		155.4768	155.4768	3.6500e-003	3.4300e-003	156.5914
Total	**0.0499**	**0.1088**	**0.5664**	**1.9100e-003**	**0.1917**	**1.4200e-003**	**0.1931**	**0.0511**	**1.3200e-003**	**0.0524**		**194.9317**	**194.9317**	**5.0000e-003**	**9.1100e-003**	**197.7722**

Spane Park Stormwater Capture Project_2xwater - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Field surface replacement - 2024

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	0.6628	7.0555	5.2093	0.0120		0.2765	0.2765		0.2557	0.2557	0.0000	1,148.1914	1,148.1914	0.3582		1,157.1459
Total	**0.6628**	**7.0555**	**5.2093**	**0.0120**		**0.2765**	**0.2765**		**0.2557**	**0.2557**	**0.0000**	**1,148.1914**	**1,148.1914**	**0.3582**		**1,157.1459**

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	0.0000
Vendor	2.2300e-003	0.0769	0.0291	3.7000e-004	0.0128	3.9000e-004	0.0132	3.6900e-003	3.7000e-004	4.0600e-003		39.4549	39.4549	1.3500e-003	5.6800e-003	41.1808
Worker	0.0477	0.0319	0.5373	1.5400e-003	0.1788	1.0300e-003	0.1799	0.0474	9.5000e-004	0.0484		155.4768	155.4768	3.6500e-003	3.4300e-003	156.5914
Total	**0.0499**	**0.1088**	**0.5664**	**1.9100e-003**	**0.1917**	**1.4200e-003**	**0.1931**	**0.0511**	**1.3200e-003**	**0.0524**		**194.9317**	**194.9317**	**5.0000e-003**	**9.1100e-003**	**197.7722**

Spane Park Stormwater Capture Project_2xwater - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.8 Restroom building construction - 2024

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	0.5193	5.2823	4.3152	9.6900e-003		0.2203	0.2203		0.2038	0.2038		919.9743	919.9743	0.2864		927.1355
Total	**0.5193**	**5.2823**	**4.3152**	**9.6900e-003**		**0.2203**	**0.2203**		**0.2038**	**0.2038**		**919.9743**	**919.9743**	**0.2864**		**927.1355**

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	0.0000
Vendor	2.2300e-003	0.0769	0.0291	3.7000e-004	0.0128	3.9000e-004	0.0132	3.6900e-003	3.7000e-004	4.0600e-003		39.4549	39.4549	1.3500e-003	5.6800e-003	41.1808
Worker	0.0895	0.0597	1.0075	2.8800e-003	0.3353	1.9300e-003	0.3373	0.0889	1.7800e-003	0.0907		291.5190	291.5190	6.8400e-003	6.4400e-003	293.6089
Total	**0.0917**	**0.1367**	**1.0366**	**3.2500e-003**	**0.3481**	**2.3200e-003**	**0.3505**	**0.0926**	**2.1500e-003**	**0.0948**		**330.9740**	**330.9740**	**8.1900e-003**	**0.0121**	**334.7897**

Spane Park Stormwater Capture Project_2xwater - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.8 Restroom building construction - 2024

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	0.5193	5.2823	4.3152	9.6900e-003		0.2203	0.2203		0.2038	0.2038	0.0000	919.9743	919.9743	0.2864		927.1355
Total	**0.5193**	**5.2823**	**4.3152**	**9.6900e-003**		**0.2203**	**0.2203**		**0.2038**	**0.2038**	**0.0000**	**919.9743**	**919.9743**	**0.2864**		**927.1355**

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	0.0000
Vendor	2.2300e-003	0.0769	0.0291	3.7000e-004	0.0128	3.9000e-004	0.0132	3.6900e-003	3.7000e-004	4.0600e-003		39.4549	39.4549	1.3500e-003	5.6800e-003	41.1808
Worker	0.0895	0.0597	1.0075	2.8800e-003	0.3353	1.9300e-003	0.3373	0.0889	1.7800e-003	0.0907		291.5190	291.5190	6.8400e-003	6.4400e-003	293.6089
Total	**0.0917**	**0.1367**	**1.0366**	**3.2500e-003**	**0.3481**	**2.3200e-003**	**0.3505**	**0.0926**	**2.1500e-003**	**0.0948**		**330.9740**	**330.9740**	**8.1900e-003**	**0.0121**	**334.7897**

Spane Park Stormwater Capture Project_2xwater - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.9 Basketball court construction - 2024

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	0.6368	6.0186	4.9319	0.0111		0.2489	0.2489		0.2324	0.2324		1,021.0070	1,021.0070	0.2969		1,028.4303
Total	**0.6368**	**6.0186**	**4.9319**	**0.0111**		**0.2489**	**0.2489**		**0.2324**	**0.2324**		**1,021.0070**	**1,021.0070**	**0.2969**		**1,028.4303**

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	0.0000
Vendor	2.2300e-003	0.0769	0.0291	3.7000e-004	0.0128	3.9000e-004	0.0132	3.6900e-003	3.7000e-004	4.0600e-003		39.4549	39.4549	1.3500e-003	5.6800e-003	41.1808
Worker	0.0298	0.0199	0.3358	9.6000e-004	0.1118	6.4000e-004	0.1124	0.0296	5.9000e-004	0.0302		97.1730	97.1730	2.2800e-003	2.1500e-003	97.8697
Total	**0.0321**	**0.0968**	**0.3649**	**1.3300e-003**	**0.1246**	**1.0300e-003**	**0.1256**	**0.0333**	**9.6000e-004**	**0.0343**		**136.6279**	**136.6279**	**3.6300e-003**	**7.8300e-003**	**139.0505**

Spane Park Stormwater Capture Project_2xwater - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.9 Basketball court construction - 2024

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	0.6368	6.0186	4.9319	0.0111		0.2489	0.2489		0.2324	0.2324	0.0000	1,021.0070	1,021.0070	0.2969		1,028.4303
Total	**0.6368**	**6.0186**	**4.9319**	**0.0111**		**0.2489**	**0.2489**		**0.2324**	**0.2324**	**0.0000**	**1,021.0070**	**1,021.0070**	**0.2969**		**1,028.4303**

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	0.0000
Vendor	2.2300e-003	0.0769	0.0291	3.7000e-004	0.0128	3.9000e-004	0.0132	3.6900e-003	3.7000e-004	4.0600e-003		39.4549	39.4549	1.3500e-003	5.6800e-003	41.1808
Worker	0.0298	0.0199	0.3358	9.6000e-004	0.1118	6.4000e-004	0.1124	0.0296	5.9000e-004	0.0302		97.1730	97.1730	2.2800e-003	2.1500e-003	97.8697
Total	**0.0321**	**0.0968**	**0.3649**	**1.3300e-003**	**0.1246**	**1.0300e-003**	**0.1256**	**0.0333**	**9.6000e-004**	**0.0343**		**136.6279**	**136.6279**	**3.6300e-003**	**7.8300e-003**	**139.0505**

Spane Park Stormwater Capture Project_2xwater - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.10 Concrete pathway improvements - 2024

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	0.0588	0.3682	0.3084	7.1000e-004		0.0143	0.0143		0.0143	0.0143		50.5163	50.5163	5.2400e-003		50.6474
Paving	0.1123					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.1711**	**0.3682**	**0.3084**	**7.1000e-004**		**0.0143**	**0.0143**		**0.0143**	**0.0143**		**50.5163**	**50.5163**	**5.2400e-003**		**50.6474**

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	0.0000
Vendor	2.2300e-003	0.0769	0.0291	3.7000e-004	0.0128	3.9000e-004	0.0132	3.6900e-003	3.7000e-004	4.0600e-003		39.4549	39.4549	1.3500e-003	5.6800e-003	41.1808
Worker	0.0298	0.0199	0.3358	9.6000e-004	0.1118	6.4000e-004	0.1124	0.0296	5.9000e-004	0.0302		97.1730	97.1730	2.2800e-003	2.1500e-003	97.8697
Total	**0.0321**	**0.0968**	**0.3649**	**1.3300e-003**	**0.1246**	**1.0300e-003**	**0.1256**	**0.0333**	**9.6000e-004**	**0.0343**		**136.6279**	**136.6279**	**3.6300e-003**	**7.8300e-003**	**139.0505**

Spane Park Stormwater Capture Project_2xwater - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.10 Concrete pathway improvements - 2024

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	0.0588	0.3682	0.3084	7.1000e-004		0.0143	0.0143		0.0143	0.0143	0.0000	50.5163	50.5163	5.2400e-003		50.6474
Paving	0.1123					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.1711**	**0.3682**	**0.3084**	**7.1000e-004**		**0.0143**	**0.0143**		**0.0143**	**0.0143**	**0.0000**	**50.5163**	**50.5163**	**5.2400e-003**		**50.6474**

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	0.0000
Vendor	2.2300e-003	0.0769	0.0291	3.7000e-004	0.0128	3.9000e-004	0.0132	3.6900e-003	3.7000e-004	4.0600e-003		39.4549	39.4549	1.3500e-003	5.6800e-003	41.1808
Worker	0.0298	0.0199	0.3358	9.6000e-004	0.1118	6.4000e-004	0.1124	0.0296	5.9000e-004	0.0302		97.1730	97.1730	2.2800e-003	2.1500e-003	97.8697
Total	**0.0321**	**0.0968**	**0.3649**	**1.3300e-003**	**0.1246**	**1.0300e-003**	**0.1256**	**0.0333**	**9.6000e-004**	**0.0343**		**136.6279**	**136.6279**	**3.6300e-003**	**7.8300e-003**	**139.0505**

Spane Park Stormwater Capture Project_2xwater - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.11 Pond and stream revitilization - 2024

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	0.5470	5.5825	4.6069	0.0101		0.2377	0.2377		0.2198	0.2198		957.9217	957.9217	0.2987		965.3897
Paving	0.0575					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.6045**	**5.5825**	**4.6069**	**0.0101**		**0.2377**	**0.2377**		**0.2198**	**0.2198**		**957.9217**	**957.9217**	**0.2987**		**965.3897**

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	0.0000
Vendor	2.2300e-003	0.0769	0.0291	3.7000e-004	0.0128	3.9000e-004	0.0132	3.6900e-003	3.7000e-004	4.0600e-003		39.4549	39.4549	1.3500e-003	5.6800e-003	41.1808
Worker	0.0596	0.0398	0.6717	1.9200e-003	0.2236	1.2900e-003	0.2248	0.0593	1.1900e-003	0.0605		194.3460	194.3460	4.5600e-003	4.2900e-003	195.7393
Total	**0.0619**	**0.1168**	**0.7008**	**2.2900e-003**	**0.2364**	**1.6800e-003**	**0.2380**	**0.0630**	**1.5600e-003**	**0.0645**		**233.8009**	**233.8009**	**5.9100e-003**	**9.9700e-003**	**236.9201**

Spane Park Stormwater Capture Project_2xwater - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.11 Pond and stream revitilization - 2024

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	0.5470	5.5825	4.6069	0.0101		0.2377	0.2377		0.2198	0.2198	0.0000	957.9217	957.9217	0.2987		965.3897
Paving	0.0575					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.6045**	**5.5825**	**4.6069**	**0.0101**		**0.2377**	**0.2377**		**0.2198**	**0.2198**	**0.0000**	**957.9217**	**957.9217**	**0.2987**		**965.3897**

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	0.0000
Vendor	2.2300e-003	0.0769	0.0291	3.7000e-004	0.0128	3.9000e-004	0.0132	3.6900e-003	3.7000e-004	4.0600e-003		39.4549	39.4549	1.3500e-003	5.6800e-003	41.1808
Worker	0.0596	0.0398	0.6717	1.9200e-003	0.2236	1.2900e-003	0.2248	0.0593	1.1900e-003	0.0605		194.3460	194.3460	4.5600e-003	4.2900e-003	195.7393
Total	**0.0619**	**0.1168**	**0.7008**	**2.2900e-003**	**0.2364**	**1.6800e-003**	**0.2380**	**0.0630**	**1.5600e-003**	**0.0645**		**233.8009**	**233.8009**	**5.9100e-003**	**9.9700e-003**	**236.9201**

Spane Park Stormwater Capture Project_2xwater - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.12 Ancillary park improvements - 2024

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	0.5470	5.5825	4.6069	0.0101		0.2377	0.2377		0.2198	0.2198		957.9217	957.9217	0.2987		965.3897
Paving	0.0575					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.6045**	**5.5825**	**4.6069**	**0.0101**		**0.2377**	**0.2377**		**0.2198**	**0.2198**		**957.9217**	**957.9217**	**0.2987**		**965.3897**

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	0.0000
Vendor	2.2300e-003	0.0769	0.0291	3.7000e-004	0.0128	3.9000e-004	0.0132	3.6900e-003	3.7000e-004	4.0600e-003		39.4549	39.4549	1.3500e-003	5.6800e-003	41.1808
Worker	0.0298	0.0199	0.3358	9.6000e-004	0.1118	6.4000e-004	0.1124	0.0296	5.9000e-004	0.0302		97.1730	97.1730	2.2800e-003	2.1500e-003	97.8697
Total	**0.0321**	**0.0968**	**0.3649**	**1.3300e-003**	**0.1246**	**1.0300e-003**	**0.1256**	**0.0333**	**9.6000e-004**	**0.0343**		**136.6279**	**136.6279**	**3.6300e-003**	**7.8300e-003**	**139.0505**

Spane Park Stormwater Capture Project_2xwater - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.12 Ancillary park improvements - 2024

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	0.5470	5.5825	4.6069	0.0101		0.2377	0.2377		0.2198	0.2198	0.0000	957.9217	957.9217	0.2987		965.3897
Paving	0.0575					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.6045**	**5.5825**	**4.6069**	**0.0101**		**0.2377**	**0.2377**		**0.2198**	**0.2198**	**0.0000**	**957.9217**	**957.9217**	**0.2987**		**965.3897**

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	0.0000
Vendor	2.2300e-003	0.0769	0.0291	3.7000e-004	0.0128	3.9000e-004	0.0132	3.6900e-003	3.7000e-004	4.0600e-003		39.4549	39.4549	1.3500e-003	5.6800e-003	41.1808
Worker	0.0298	0.0199	0.3358	9.6000e-004	0.1118	6.4000e-004	0.1124	0.0296	5.9000e-004	0.0302		97.1730	97.1730	2.2800e-003	2.1500e-003	97.8697
Total	**0.0321**	**0.0968**	**0.3649**	**1.3300e-003**	**0.1246**	**1.0300e-003**	**0.1256**	**0.0333**	**9.6000e-004**	**0.0343**		**136.6279**	**136.6279**	**3.6300e-003**	**7.8300e-003**	**139.0505**

Spane Park Stormwater Capture Project_2xwater - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.12 Ancillary park improvements - 2025

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	0.5178	5.1467	4.5578	0.0101		0.2168	0.2168		0.2006	0.2006		957.8483	957.8483	0.2987		965.3157
Paving	0.0575					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.5753**	**5.1467**	**4.5578**	**0.0101**		**0.2168**	**0.2168**		**0.2006**	**0.2006**		**957.8483**	**957.8483**	**0.2987**		**965.3157**

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	0.0000
Vendor	2.1700e-003	0.0766	0.0286	3.6000e-004	0.0128	3.9000e-004	0.0132	3.6900e-003	3.7000e-004	4.0600e-003		38.7446	38.7446	1.3600e-003	5.5800e-003	40.4414
Worker	0.0279	0.0179	0.3123	9.3000e-004	0.1118	6.1000e-004	0.1124	0.0296	5.6000e-004	0.0302		93.8627	93.8627	2.0600e-003	2.0000e-003	94.5116
Total	**0.0300**	**0.0944**	**0.3409**	**1.2900e-003**	**0.1246**	**1.0000e-003**	**0.1256**	**0.0333**	**9.3000e-004**	**0.0343**		**132.6073**	**132.6073**	**3.4200e-003**	**7.5800e-003**	**134.9530**

Spane Park Stormwater Capture Project_2xwater - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.12 Ancillary park improvements - 2025

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	0.5178	5.1467	4.5578	0.0101		0.2168	0.2168		0.2006	0.2006	0.0000	957.8483	957.8483	0.2987		965.3157
Paving	0.0575					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.5753**	**5.1467**	**4.5578**	**0.0101**		**0.2168**	**0.2168**		**0.2006**	**0.2006**	**0.0000**	**957.8483**	**957.8483**	**0.2987**		**965.3157**

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	0.0000
Vendor	2.1700e-003	0.0766	0.0286	3.6000e-004	0.0128	3.9000e-004	0.0132	3.6900e-003	3.7000e-004	4.0600e-003		38.7446	38.7446	1.3600e-003	5.5800e-003	40.4414
Worker	0.0279	0.0179	0.3123	9.3000e-004	0.1118	6.1000e-004	0.1124	0.0296	5.6000e-004	0.0302		93.8627	93.8627	2.0600e-003	2.0000e-003	94.5116
Total	**0.0300**	**0.0944**	**0.3409**	**1.2900e-003**	**0.1246**	**1.0000e-003**	**0.1256**	**0.0333**	**9.3000e-004**	**0.0343**		**132.6073**	**132.6073**	**3.4200e-003**	**7.5800e-003**	**134.9530**

Spane Park Stormwater Capture Project_2xwater - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.13 Parking reconstruction - 2024

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	0.4317	4.3439	6.3380	9.8900e-003		0.1983	0.1983		0.1833	0.1833		944.3545	944.3545	0.2979		951.8008
Paving	0.0761					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.5078**	**4.3439**	**6.3380**	**9.8900e-003**		**0.1983**	**0.1983**		**0.1833**	**0.1833**		**944.3545**	**944.3545**	**0.2979**		**951.8008**

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	0.0000
Vendor	2.2300e-003	0.0769	0.0291	3.7000e-004	0.0128	3.9000e-004	0.0132	3.6900e-003	3.7000e-004	4.0600e-003		39.4549	39.4549	1.3500e-003	5.6800e-003	41.1808
Worker	0.1193	0.0797	1.3433	3.8500e-003	0.4471	2.5700e-003	0.4497	0.1186	2.3700e-003	0.1209		388.6920	388.6920	9.1300e-003	8.5900e-003	391.4786
Total	**0.1215**	**0.1566**	**1.3724**	**4.2200e-003**	**0.4599**	**2.9600e-003**	**0.4629**	**0.1223**	**2.7400e-003**	**0.1250**		**428.1470**	**428.1470**	**0.0105**	**0.0143**	**432.6594**

Spane Park Stormwater Capture Project_2xwater - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.13 Parking reconstruction - 2024

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	0.4317	4.3439	6.3380	9.8900e-003		0.1983	0.1983		0.1833	0.1833	0.0000	944.3545	944.3545	0.2979		951.8008
Paving	0.0761					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.5078**	**4.3439**	**6.3380**	**9.8900e-003**		**0.1983**	**0.1983**		**0.1833**	**0.1833**	**0.0000**	**944.3545**	**944.3545**	**0.2979**		**951.8008**

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	0.0000
Vendor	2.2300e-003	0.0769	0.0291	3.7000e-004	0.0128	3.9000e-004	0.0132	3.6900e-003	3.7000e-004	4.0600e-003		39.4549	39.4549	1.3500e-003	5.6800e-003	41.1808
Worker	0.1193	0.0797	1.3433	3.8500e-003	0.4471	2.5700e-003	0.4497	0.1186	2.3700e-003	0.1209		388.6920	388.6920	9.1300e-003	8.5900e-003	391.4786
Total	**0.1215**	**0.1566**	**1.3724**	**4.2200e-003**	**0.4599**	**2.9600e-003**	**0.4629**	**0.1223**	**2.7400e-003**	**0.1250**		**428.1470**	**428.1470**	**0.0105**	**0.0143**	**432.6594**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.13 Parking reconstruction - 2025

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	0.4102	4.0695	6.3322	9.8800e-003		0.1805	0.1805		0.1669	0.1669		944.0095	944.0095	0.2977		951.4530
Paving	0.0761					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.4862**	**4.0695**	**6.3322**	**9.8800e-003**		**0.1805**	**0.1805**		**0.1669**	**0.1669**		**944.0095**	**944.0095**	**0.2977**		**951.4530**

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	0.0000
Vendor	2.1700e-003	0.0766	0.0286	3.6000e-004	0.0128	3.9000e-004	0.0132	3.6900e-003	3.7000e-004	4.0600e-003		38.7446	38.7446	1.3600e-003	5.5800e-003	40.4414
Worker	0.1115	0.0715	1.2493	3.7100e-003	0.4471	2.4500e-003	0.4496	0.1186	2.2600e-003	0.1208		375.4510	375.4510	8.2300e-003	8.0200e-003	378.0462
Total	**0.1137**	**0.1481**	**1.2779**	**4.0700e-003**	**0.4599**	**2.8400e-003**	**0.4628**	**0.1223**	**2.6300e-003**	**0.1249**		**414.1955**	**414.1955**	**9.5900e-003**	**0.0136**	**418.4877**

Spane Park Stormwater Capture Project_2xwater - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.13 Parking reconstruction - 2025

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	0.4102	4.0695	6.3322	9.8800e-003		0.1805	0.1805		0.1669	0.1669	0.0000	944.0095	944.0095	0.2977		951.4530
Paving	0.0761					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.4862**	**4.0695**	**6.3322**	**9.8800e-003**		**0.1805**	**0.1805**		**0.1669**	**0.1669**	**0.0000**	**944.0095**	**944.0095**	**0.2977**		**951.4530**

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	0.0000
Vendor	2.1700e-003	0.0766	0.0286	3.6000e-004	0.0128	3.9000e-004	0.0132	3.6900e-003	3.7000e-004	4.0600e-003		38.7446	38.7446	1.3600e-003	5.5800e-003	40.4414
Worker	0.1115	0.0715	1.2493	3.7100e-003	0.4471	2.4500e-003	0.4496	0.1186	2.2600e-003	0.1208		375.4510	375.4510	8.2300e-003	8.0200e-003	378.0462
Total	**0.1137**	**0.1481**	**1.2779**	**4.0700e-003**	**0.4599**	**2.8400e-003**	**0.4628**	**0.1223**	**2.6300e-003**	**0.1249**		**414.1955**	**414.1955**	**9.5900e-003**	**0.0136**	**418.4877**

Spane Park Stormwater Capture Project_2xwater - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	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

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Parking Lot	0.00	0.00	0.00		
User Defined Industrial	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
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
User Defined Industrial	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Parking Lot	0.540171	0.064547	0.189075	0.126673	0.023412	0.006384	0.010926	0.008089	0.000929	0.000597	0.025155	0.000706	0.003335
User Defined Industrial	0.540171	0.064547	0.189075	0.126673	0.023412	0.006384	0.010926	0.008089	0.000929	0.000597	0.025155	0.000706	0.003335

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

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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					
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
User Defined Industrial	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**

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					
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
User Defined Industrial	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

Spane Park Stormwater Capture Project_2xwater - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	2.6651	1.5000e-004	0.0160	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0345	0.0345	9.0000e-005		0.0367
Unmitigated	2.6651	1.5000e-004	0.0160	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0345	0.0345	9.0000e-005		0.0367

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	0.3039					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.3598					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.4800e-003	1.5000e-004	0.0160	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0345	0.0345	9.0000e-005		0.0367
Total	**2.6652**	**1.5000e-004**	**0.0160**	**0.0000**		**6.0000e-005**	**6.0000e-005**		**6.0000e-005**	**6.0000e-005**		**0.0345**	**0.0345**	**9.0000e-005**		**0.0367**

Spane Park Stormwater Capture Project_2xwater - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	0.3039					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.3598					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.4800e-003	1.5000e-004	0.0160	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0345	0.0345	9.0000e-005		0.0367
Total	**2.6652**	**1.5000e-004**	**0.0160**	**0.0000**		**6.0000e-005**	**6.0000e-005**		**6.0000e-005**	**6.0000e-005**		**0.0345**	**0.0345**	**9.0000e-005**		**0.0367**

7.0 Water Detail

7.1 Mitigation Measures Water

Spane Park Stormwater Capture Project_2xwater - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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

Spane Park Stormwater Capture Project_2xwater - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Spane Park Stormwater Capture Project_2xwater

Los Angeles-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Industrial	118.48	User Defined Unit	2.72	118,483.00	0
Parking Lot	39.00	1000sqft	0.90	39,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	9			**Operational Year**	2025
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - 2.72 acre area disturbed. 39,000 SF paved. Provided by applicant

Construction Phase - Construction schedule provided by applicant.

Off-road Equipment - Equipment provided by project applicant.

Off-road Equipment - Equipment provided by project applicant.

Off-road Equipment - Equipment provided by project applicant.

Off-road Equipment - Equipment provided by project applicant.

Off-road Equipment - Equipment provided by project applicant.

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Off-road Equipment - Equipment provided by project applicant.

Spane Park Stormwater Capture Project_2xwater - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Off-road Equipment - Equipment provided by project applicant.

Off-road Equipment - Equipment provided by project applicant.

Off-road Equipment - Equipment provided by project applicant.

Off-road Equipment - Equipment provided by project applicant.

Trips and VMT - Trips provided by applicant.

Demolition - Data provided by applicant.

Grading - Data provided by project applicant.

Vehicle Trips - Construction only.

Vehicle Emission Factors - Construction only.

Road Dust - Construction only.

Woodstoves - Construction only.

Consumer Products - Construction only.

Area Coating - Construction only.

Landscape Equipment - Construction only.

Energy Use - Construction only.

Water And Wastewater - Construction only.

Solid Waste - Construction only.

Construction Off-road Equipment Mitigation - Compliance with SCAQMD Rule 403- water twice daily.

Fleet Mix - Construction only.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	230.00	76.00
tblConstructionPhase	NumDays	230.00	21.00
tblConstructionPhase	NumDays	230.00	51.00
tblConstructionPhase	NumDays	230.00	21.00
tblConstructionPhase	NumDays	20.00	21.00
tblConstructionPhase	NumDays	8.00	51.00
tblConstructionPhase	NumDays	18.00	41.00
tblConstructionPhase	NumDays	18.00	41.00

Spane Park Stormwater Capture Project_2xwater - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblConstructionPhase	NumDays	18.00	31.00
tblConstructionPhase	NumDays	18.00	21.00
tblConstructionPhase	NumDays	5.00	41.00
tblEnergyUse	LightingElect	0.35	0.00
tblGrading	AcresOfGrading	25.50	8.00
tblGrading	AcresOfGrading	41.00	7.50
tblGrading	MaterialExported	0.00	18,000.00
tblGrading	MaterialExported	0.00	1,800.00
tblLandUse	LandUseSquareFeet	0.00	118,483.00
tblLandUse	LotAcreage	0.00	2.72
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblTripsAndVMT	HaulingTripNumber	25.00	26.00
tblTripsAndVMT	HaulingTripNumber	225.00	226.00
tblTripsAndVMT	HaulingTripNumber	0.00	20.00

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	26.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	26.00	2.00
tblTripsAndVMT	VendorTripNumber	26.00	2.00
tblTripsAndVMT	VendorTripNumber	26.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripNumber	10.00	20.00
tblTripsAndVMT	WorkerTripNumber	10.00	40.00
tblTripsAndVMT	WorkerTripNumber	8.00	20.00
tblTripsAndVMT	WorkerTripNumber	8.00	20.00
tblTripsAndVMT	WorkerTripNumber	66.00	20.00
tblTripsAndVMT	WorkerTripNumber	8.00	24.00
tblTripsAndVMT	WorkerTripNumber	66.00	16.00
tblTripsAndVMT	WorkerTripNumber	66.00	30.00
tblTripsAndVMT	WorkerTripNumber	66.00	10.00
tblTripsAndVMT	WorkerTripNumber	3.00	10.00

2.0 Emissions Summary

Spane Park Stormwater Capture Project_2xwater - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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					
2023	2.4431	29.0327	16.1711	0.0638	13.7652	1.0129	14.7358	7.0229	0.9444	7.9174	0.0000	6,569.2208	6,569.2208	1.1551	0.5169	6,752.1328
2024	1.9699	19.2730	13.4786	0.0326	0.5845	0.8885	1.4145	0.1556	0.8175	0.9576	0.0000	3,187.9337	3,187.9337	0.8791	0.0264	3,217.7736
2025	1.2164	9.4753	12.3867	0.0251	0.5845	0.4012	0.9857	0.1556	0.3711	0.5266	0.0000	2,424.1522	2,424.1522	0.6096	0.0219	2,445.9148
Maximum	**2.4431**	**29.0327**	**16.1711**	**0.0638**	**13.7652**	**1.0129**	**14.7358**	**7.0229**	**0.9444**	**7.9174**	**0.0000**	**6,569.2208**	**6,569.2208**	**1.1551**	**0.5169**	**6,752.1328**

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					
2023	2.4431	29.0327	16.1711	0.0638	6.9181	1.0129	7.8886	3.3565	0.9444	4.2510	0.0000	6,569.2208	6,569.2208	1.1551	0.5169	6,752.1328
2024	1.9699	19.2730	13.4786	0.0326	0.5845	0.8885	1.4145	0.1556	0.8175	0.9576	0.0000	3,187.9337	3,187.9337	0.8791	0.0264	3,217.7736
2025	1.2164	9.4753	12.3867	0.0251	0.5845	0.4012	0.9857	0.1556	0.3711	0.5266	0.0000	2,424.1522	2,424.1522	0.6096	0.0219	2,445.9148
Maximum	**2.4431**	**29.0327**	**16.1711**	**0.0638**	**6.9181**	**1.0129**	**7.8886**	**3.3565**	**0.9444**	**4.2510**	**0.0000**	**6,569.2208**	**6,569.2208**	**1.1551**	**0.5169**	**6,752.1328**

Spane Park Stormwater Capture Project_2xwater - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	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	45.85	0.00	39.96	49.99	0.00	39.00	0.00	0.00	0.00	0.00	0.00	0.00

Spane Park Stormwater Capture Project_2xwater - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	2.6651	1.5000e-004	0.0160	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0345	0.0345	9.0000e-005		0.0367
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	0.0000
Total	**2.6651**	**1.5000e-004**	**0.0160**	**0.0000**	**0.0000**	**6.0000e-005**	**6.0000e-005**	**0.0000**	**6.0000e-005**	**6.0000e-005**		**0.0345**	**0.0345**	**9.0000e-005**	**0.0000**	**0.0367**

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	2.6651	1.5000e-004	0.0160	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0345	0.0345	9.0000e-005		0.0367
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	0.0000
Total	**2.6651**	**1.5000e-004**	**0.0160**	**0.0000**	**0.0000**	**6.0000e-005**	**6.0000e-005**	**0.0000**	**6.0000e-005**	**6.0000e-005**		**0.0345**	**0.0345**	**9.0000e-005**	**0.0000**	**0.0367**

Spane Park Stormwater Capture Project_2xwater - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	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	Demolition of existing basketball courts and restroom building	Demolition	8/1/2023	8/29/2023	5	21	
2	Site mobilization, clearing, grubbing, and vegetation removal	Site Preparation	8/1/2023	9/26/2023	5	41	
3	Reservoir excavation	Grading	9/25/2023	12/4/2023	5	51	
4	Reservoir construction	Building Construction	12/11/2023	3/25/2024	5	76	
5	Pipeline, diversion structure, and treatment facility/pump installation	Trenching	2/5/2024	4/1/2024	5	41	
6	Field surface replacement	Building Construction	4/1/2024	4/29/2024	5	21	
7	Restroom building construction	Building Construction	5/6/2024	7/15/2024	5	51	
8	Basketball court construction	Building Construction	7/22/2024	8/19/2024	5	21	
9	Concrete pathway improvements	Paving	8/26/2024	9/23/2024	5	21	
10	Pond and stream revitilization	Paving	9/23/2024	11/18/2024	5	41	
11	Ancillary park improvements	Paving	11/11/2024	1/6/2025	5	41	
12	Parking reconstruction	Paving	12/9/2024	1/20/2025	5	31	

Acres of Grading (Site Preparation Phase): 7.5

Acres of Grading (Grading Phase): 8

Acres of Paving: 0.9

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

OffRoad Equipment

Spane Park Stormwater Capture Project_2xwater - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition of existing basketball courts and restroom building	Crushing/Proc. Equipment	1	8.00	85	0.78
Demolition of existing basketball courts and restroom building	Rubber Tired Dozers	1	8.00	247	0.40
Demolition of existing basketball courts and restroom building	Skid Steer Loaders	1	8.00	65	0.37
Site mobilization, clearing, grubbing, and vegetation removal	Graders	1	8.00	187	0.41
Site mobilization, clearing, grubbing, and vegetation removal	Rubber Tired Dozers	1	8.00	247	0.40
Site mobilization, clearing, grubbing, and vegetation removal	Skid Steer Loaders	1	8.00	65	0.37
Reservoir excavation	Rubber Tired Dozers	1	8.00	247	0.40
Reservoir excavation	Skid Steer Loaders	1	8.00	65	0.37
Reservoir excavation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Reservoir construction	Cranes	1	8.00	231	0.29
Reservoir construction	Rubber Tired Dozers	1	8.00	247	0.40
Reservoir construction	Skid Steer Loaders	1	8.00	65	0.37
Pipeline, diversion structure, and treatment facility/pump installation	Cranes	1	8.00	231	0.29
Pipeline, diversion structure, and treatment facility/pump installation	Skid Steer Loaders	1	8.00	65	0.37
Pipeline, diversion structure, and treatment facility/pump installation	Trenchers	1	8.00	78	0.50
Field surface replacement	Dumpers/Tenders	1	8.00	16	0.38
Field surface replacement	Graders	1	8.00	187	0.41
Field surface replacement	Skid Steer Loaders	1	8.00	65	0.37
Field surface replacement	Sweepers/Scrubbers	1	8.00	64	0.46
Restroom building construction	Aerial Lifts	1	8.00	63	0.31
Restroom building construction	Cement and Mortar Mixers	1	8.00	9	0.56
Restroom building construction	Cranes	1	8.00	231	0.29
Restroom building construction	Forklifts	1	8.00	89	0.20
Basketball court construction	Aerial Lifts	1	8.00	63	0.31
Basketball court construction	Cement and Mortar Mixers	3	8.00	9	0.56
Basketball court construction	Cranes	1	8.00	231	0.29

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Basketball court construction	Forklifts	1	8.00	89	0.20
Concrete pathway improvements	Cement and Mortar Mixers	1	8.00	9	0.56
Pond and stream revitilization	Cement and Mortar Mixers	1	8.00	9	0.56
Pond and stream revitilization	Cranes	1	8.00	231	0.29
Pond and stream revitilization	Forklifts	1	8.00	89	0.20
Pond and stream revitilization	Skid Steer Loaders	1	8.00	65	0.37
Ancillary park improvements	Cement and Mortar Mixers	1	8.00	9	0.56
Ancillary park improvements	Cranes	1	8.00	231	0.29
Ancillary park improvements	Forklifts	1	8.00	89	0.20
Ancillary park improvements	Skid Steer Loaders	1	8.00	65	0.37
Parking reconstruction	Pavers	1	8.00	130	0.42
Parking reconstruction	Plate Compactors	1	8.00	8	0.43
Parking reconstruction	Rollers	1	8.00	80	0.38
Parking reconstruction	Skid Steer Loaders	1	8.00	65	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
Demolition of existing basketball courts and r	3	8.00	0.00	26.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site mobilization, clearing, grubbing, an	3	20.00	0.00	226.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Reservoir excavation	3	20.00	0.00	2,250.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Reservoir construction	3	20.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Pipeline, diversion structure, and treatme	3	24.00	2.00	20.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Field surface replacement	4	16.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Restroom building construction	4	30.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Basketball court construction	6	10.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Concrete pathway improvements	1	10.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Pond and stream revitilization	4	20.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

Spane Park Stormwater Capture Project_2xwater - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Ancillary park improvements	4	10.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Parking reconstruction	4	40.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Demolition of existing basketball courts and restroom building - 2023

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					0.2598	0.0000	0.2598	0.0393	0.0000	0.0393			0.0000			0.0000
Off-Road	1.2000	10.9760	8.8183	0.0176		0.5045	0.5045		0.4765	0.4765		1,692.0171	1,692.0171	0.3721		1,701.3187
Total	**1.2000**	**10.9760**	**8.8183**	**0.0176**	**0.2598**	**0.5045**	**0.7644**	**0.0393**	**0.4765**	**0.5159**		**1,692.0171**	**1,692.0171**	**0.3721**		**1,701.3187**

Spane Park Stormwater Capture Project_2xwater - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Demolition of existing basketball courts and restroom building - 2023

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	2.5100e-003	0.1687	0.0437	7.2000e-004	0.0217	1.0200e-003	0.0227	5.9400e-003	9.8000e-004	6.9200e-003		79.6513	79.6513	4.3800e-003	0.0127	83.5301
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
Worker	0.0275	0.0197	0.2658	7.5000e-004	0.0894	5.4000e-004	0.0900	0.0237	5.0000e-004	0.0242		75.7883	75.7883	2.0500e-003	1.9700e-003	76.4271
Total	**0.0300**	**0.1884**	**0.3095**	**1.4700e-003**	**0.1111**	**1.5600e-003**	**0.1127**	**0.0297**	**1.4800e-003**	**0.0311**		**155.4396**	**155.4396**	**6.4300e-003**	**0.0146**	**159.9572**

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					0.1169	0.0000	0.1169	0.0177	0.0000	0.0177			0.0000			0.0000
Off-Road	1.2000	10.9760	8.8183	0.0176		0.5045	0.5045		0.4765	0.4765	0.0000	1,692.0171	1,692.0171	0.3721		1,701.3187
Total	**1.2000**	**10.9760**	**8.8183**	**0.0176**	**0.1169**	**0.5045**	**0.6215**	**0.0177**	**0.4765**	**0.4942**	**0.0000**	**1,692.0171**	**1,692.0171**	**0.3721**		**1,701.3187**

Spane Park Stormwater Capture Project_2xwater - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Demolition of existing basketball courts and restroom building - 2023

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	2.5100e-003	0.1687	0.0437	7.2000e-004	0.0217	1.0200e-003	0.0227	5.9400e-003	9.8000e-004	6.9200e-003		79.6513	79.6513	4.3800e-003	0.0127	83.5301
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
Worker	0.0275	0.0197	0.2658	7.5000e-004	0.0894	5.4000e-004	0.0900	0.0237	5.0000e-004	0.0242		75.7883	75.7883	2.0500e-003	1.9700e-003	76.4271
Total	**0.0300**	**0.1884**	**0.3095**	**1.4700e-003**	**0.1111**	**1.5600e-003**	**0.1127**	**0.0297**	**1.4800e-003**	**0.0311**		**155.4396**	**155.4396**	**6.4300e-003**	**0.0146**	**159.9572**

Spane Park Stormwater Capture Project_2xwater - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Site mobilization, clearing, grubbing, and vegetation removal - 2023

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					6.2210	0.0000	6.2210	3.3319	0.0000	3.3319			0.0000			0.0000
Off-Road	1.1332	12.6449	6.1844	0.0172		0.5009	0.5009		0.4609	0.4609		1,668.3421	1,668.3421	0.5396		1,681.8315
Total	**1.1332**	**12.6449**	**6.1844**	**0.0172**	**6.2210**	**0.5009**	**6.7220**	**3.3319**	**0.4609**	**3.7928**		**1,668.3421**	**1,668.3421**	**0.5396**		**1,681.8315**

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	0.0112	0.7510	0.1946	3.2300e-003	0.0965	4.5500e-003	0.1010	0.0265	4.3500e-003	0.0308		354.6202	354.6202	0.0195	0.0563	371.8890
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
Worker	0.0688	0.0493	0.6644	1.8700e-003	0.2236	1.3400e-003	0.2249	0.0593	1.2400e-003	0.0605		189.4707	189.4707	5.1100e-003	4.9300e-003	191.0678
Total	**0.0800**	**0.8003**	**0.8590**	**5.1000e-003**	**0.3200**	**5.8900e-003**	**0.3259**	**0.0857**	**5.5900e-003**	**0.0913**		**544.0909**	**544.0909**	**0.0246**	**0.0612**	**562.9568**

Spane Park Stormwater Capture Project_2xwater - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Site mobilization, clearing, grubbing, and vegetation removal - 2023

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					2.7995	0.0000	2.7995	1.4994	0.0000	1.4994			0.0000			0.0000
Off-Road	1.1332	12.6449	6.1844	0.0172		0.5009	0.5009		0.4609	0.4609	0.0000	1,668.3421	1,668.3421	0.5396		1,681.8315
Total	**1.1332**	**12.6449**	**6.1844**	**0.0172**	**2.7995**	**0.5009**	**3.3004**	**1.4994**	**0.4609**	**1.9602**	**0.0000**	**1,668.3421**	**1,668.3421**	**0.5396**		**1,681.8315**

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	0.0112	0.7510	0.1946	3.2300e-003	0.0965	4.5500e-003	0.1010	0.0265	4.3500e-003	0.0308		354.6202	354.6202	0.0195	0.0563	371.8890
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
Worker	0.0688	0.0493	0.6644	1.8700e-003	0.2236	1.3400e-003	0.2249	0.0593	1.2400e-003	0.0605		189.4707	189.4707	5.1100e-003	4.9300e-003	191.0678
Total	**0.0800**	**0.8003**	**0.8590**	**5.1000e-003**	**0.3200**	**5.8900e-003**	**0.3259**	**0.0857**	**5.5900e-003**	**0.0913**		**544.0909**	**544.0909**	**0.0246**	**0.0612**	**562.9568**

Spane Park Stormwater Capture Project_2xwater - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Reservoir excavation - 2023

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					6.2284	0.0000	6.2284	3.3342	0.0000	3.3342			0.0000			0.0000
Off-Road	0.9011	9.5275	6.7231	0.0137		0.4260	0.4260		0.3919	0.3919		1,329.0634	1,329.0634	0.4299		1,339.8096
Total	**0.9011**	**9.5275**	**6.7231**	**0.0137**	**6.2284**	**0.4260**	**6.6543**	**3.3342**	**0.3919**	**3.7261**		**1,329.0634**	**1,329.0634**	**0.4299**		**1,339.8096**

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	0.0895	6.0107	1.5577	0.0258	0.7722	0.0364	0.8087	0.2117	0.0348	0.2466		2,838.2537	2,838.2537	0.1559	0.4507	2,976.4671
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
Worker	0.0688	0.0493	0.6644	1.8700e-003	0.2236	1.3400e-003	0.2249	0.0593	1.2400e-003	0.0605		189.4707	189.4707	5.1100e-003	4.9300e-003	191.0678
Total	**0.1583**	**6.0600**	**2.2221**	**0.0277**	**0.9958**	**0.0378**	**1.0336**	**0.2710**	**0.0361**	**0.3071**		**3,027.7244**	**3,027.7244**	**0.1610**	**0.4557**	**3,167.5349**

Spane Park Stormwater Capture Project_2xwater - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Reservoir excavation - 2023

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					2.8028	0.0000	2.8028	1.5004	0.0000	1.5004			0.0000			0.0000
Off-Road	0.9011	9.5275	6.7231	0.0137		0.4260	0.4260		0.3919	0.3919	0.0000	1,329.0634	1,329.0634	0.4299		1,339.8096
Total	**0.9011**	**9.5275**	**6.7231**	**0.0137**	**2.8028**	**0.4260**	**3.2288**	**1.5004**	**0.3919**	**1.8923**	**0.0000**	**1,329.0634**	**1,329.0634**	**0.4299**		**1,339.8096**

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	0.0895	6.0107	1.5577	0.0258	0.7722	0.0364	0.8087	0.2117	0.0348	0.2466		2,838.2537	2,838.2537	0.1559	0.4507	2,976.4671
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
Worker	0.0688	0.0493	0.6644	1.8700e-003	0.2236	1.3400e-003	0.2249	0.0593	1.2400e-003	0.0605		189.4707	189.4707	5.1100e-003	4.9300e-003	191.0678
Total	**0.1583**	**6.0600**	**2.2221**	**0.0277**	**0.9958**	**0.0378**	**1.0336**	**0.2710**	**0.0361**	**0.3071**		**3,027.7244**	**3,027.7244**	**0.1610**	**0.4557**	**3,167.5349**

Spane Park Stormwater Capture Project_2xwater - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Reservoir construction - 2023

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	1.1012	11.8074	6.3262	0.0164		0.5095	0.5095		0.4688	0.4688		1,586.3062	1,586.3062	0.5130		1,599.1323
Total	**1.1012**	**11.8074**	**6.3262**	**0.0164**		**0.5095**	**0.5095**		**0.4688**	**0.4688**		**1,586.3062**	**1,586.3062**	**0.5130**		**1,599.1323**

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	0.0000
Vendor	2.2200e-003	0.0804	0.0307	3.7000e-004	0.0128	3.9000e-004	0.0132	3.6900e-003	3.7000e-004	4.0600e-003		40.1241	40.1241	1.3400e-003	5.7700e-003	41.8782
Worker	0.0688	0.0493	0.6644	1.8700e-003	0.2236	1.3400e-003	0.2249	0.0593	1.2400e-003	0.0605		189.4707	189.4707	5.1100e-003	4.9300e-003	191.0678
Total	**0.0710**	**0.1297**	**0.6950**	**2.2400e-003**	**0.2364**	**1.7300e-003**	**0.2381**	**0.0630**	**1.6100e-003**	**0.0646**		**229.5948**	**229.5948**	**6.4500e-003**	**0.0107**	**232.9460**

Spane Park Stormwater Capture Project_2xwater - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Reservoir construction - 2023

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	1.1012	11.8074	6.3262	0.0164		0.5095	0.5095		0.4688	0.4688	0.0000	1,586.3062	1,586.3062	0.5130		1,599.1323
Total	**1.1012**	**11.8074**	**6.3262**	**0.0164**		**0.5095**	**0.5095**		**0.4688**	**0.4688**	**0.0000**	**1,586.3062**	**1,586.3062**	**0.5130**		**1,599.1323**

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	0.0000
Vendor	2.2200e-003	0.0804	0.0307	3.7000e-004	0.0128	3.9000e-004	0.0132	3.6900e-003	3.7000e-004	4.0600e-003		40.1241	40.1241	1.3400e-003	5.7700e-003	41.8782
Worker	0.0688	0.0493	0.6644	1.8700e-003	0.2236	1.3400e-003	0.2249	0.0593	1.2400e-003	0.0605		189.4707	189.4707	5.1100e-003	4.9300e-003	191.0678
Total	**0.0710**	**0.1297**	**0.6950**	**2.2400e-003**	**0.2364**	**1.7300e-003**	**0.2381**	**0.0630**	**1.6100e-003**	**0.0646**		**229.5948**	**229.5948**	**6.4500e-003**	**0.0107**	**232.9460**

Spane Park Stormwater Capture Project_2xwater - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Reservoir construction - 2024

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	1.0891	11.4584	6.2903	0.0164		0.4935	0.4935		0.4541	0.4541		1,586.3556	1,586.3556	0.5131		1,599.1821
Total	**1.0891**	**11.4584**	**6.2903**	**0.0164**		**0.4935**	**0.4935**		**0.4541**	**0.4541**		**1,586.3556**	**1,586.3556**	**0.5131**		**1,599.1821**

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	0.0000
Vendor	2.1500e-003	0.0805	0.0300	3.7000e-004	0.0128	3.9000e-004	0.0132	3.6900e-003	3.7000e-004	4.0600e-003		39.5229	39.5229	1.3400e-003	5.6900e-003	41.2531
Worker	0.0643	0.0440	0.6179	1.8200e-003	0.2236	1.2900e-003	0.2248	0.0593	1.1900e-003	0.0605		184.1179	184.1179	4.6300e-003	4.5800e-003	185.5996
Total	**0.0664**	**0.1245**	**0.6479**	**2.1900e-003**	**0.2364**	**1.6800e-003**	**0.2380**	**0.0630**	**1.5600e-003**	**0.0645**		**223.6408**	**223.6408**	**5.9700e-003**	**0.0103**	**226.8526**

Spane Park Stormwater Capture Project_2xwater - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Reservoir construction - 2024

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	1.0891	11.4584	6.2903	0.0164		0.4935	0.4935		0.4541	0.4541	0.0000	1,586.3556	1,586.3556	0.5131		1,599.1821
Total	**1.0891**	**11.4584**	**6.2903**	**0.0164**		**0.4935**	**0.4935**		**0.4541**	**0.4541**	**0.0000**	**1,586.3556**	**1,586.3556**	**0.5131**		**1,599.1821**

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	0.0000
Vendor	2.1500e-003	0.0805	0.0300	3.7000e-004	0.0128	3.9000e-004	0.0132	3.6900e-003	3.7000e-004	4.0600e-003		39.5229	39.5229	1.3400e-003	5.6900e-003	41.2531
Worker	0.0643	0.0440	0.6179	1.8200e-003	0.2236	1.2900e-003	0.2248	0.0593	1.1900e-003	0.0605		184.1179	184.1179	4.6300e-003	4.5800e-003	185.5996
Total	**0.0664**	**0.1245**	**0.6479**	**2.1900e-003**	**0.2364**	**1.6800e-003**	**0.2380**	**0.0630**	**1.5600e-003**	**0.0645**		**223.6408**	**223.6408**	**5.9700e-003**	**0.0103**	**226.8526**

Spane Park Stormwater Capture Project_2xwater - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Pipeline, diversion structure, and treatment facility/pump installation - 2024

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	0.7341	7.4901	5.7514	0.0112		0.3910	0.3910		0.3597	0.3597		1,086.5346	1,086.5346	0.3514		1,095.3198
Total	**0.7341**	**7.4901**	**5.7514**	**0.0112**		**0.3910**	**0.3910**		**0.3597**	**0.3597**		**1,086.5346**	**1,086.5346**	**0.3514**		**1,095.3198**

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	9.8000e-004	0.0666	0.0175	2.8000e-004	8.5400e-003	4.1000e-004	8.9400e-003	2.3400e-003	3.9000e-004	2.7300e-003		30.9384	30.9384	1.7400e-003	4.9100e-003	32.4465
Vendor	2.1500e-003	0.0805	0.0300	3.7000e-004	0.0128	3.9000e-004	0.0132	3.6900e-003	3.7000e-004	4.0600e-003		39.5229	39.5229	1.3400e-003	5.6900e-003	41.2531
Worker	0.0771	0.0528	0.7415	2.1900e-003	0.2683	1.5400e-003	0.2698	0.0711	1.4200e-003	0.0726		220.9415	220.9415	5.5600e-003	5.5000e-003	222.7195
Total	**0.0803**	**0.2000**	**0.7890**	**2.8400e-003**	**0.2896**	**2.3400e-003**	**0.2920**	**0.0772**	**2.1800e-003**	**0.0794**		**291.4027**	**291.4027**	**8.6400e-003**	**0.0161**	**296.4191**

Spane Park Stormwater Capture Project_2xwater - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Pipeline, diversion structure, and treatment facility/pump installation - 2024

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	0.7341	7.4901	5.7514	0.0112		0.3910	0.3910		0.3597	0.3597	0.0000	1,086.5346	1,086.5346	0.3514		1,095.3198
Total	**0.7341**	**7.4901**	**5.7514**	**0.0112**		**0.3910**	**0.3910**		**0.3597**	**0.3597**	**0.0000**	**1,086.5346**	**1,086.5346**	**0.3514**		**1,095.3198**

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	9.8000e-004	0.0666	0.0175	2.8000e-004	8.5400e-003	4.1000e-004	8.9400e-003	2.3400e-003	3.9000e-004	2.7300e-003		30.9384	30.9384	1.7400e-003	4.9100e-003	32.4465
Vendor	2.1500e-003	0.0805	0.0300	3.7000e-004	0.0128	3.9000e-004	0.0132	3.6900e-003	3.7000e-004	4.0600e-003		39.5229	39.5229	1.3400e-003	5.6900e-003	41.2531
Worker	0.0771	0.0528	0.7415	2.1900e-003	0.2683	1.5400e-003	0.2698	0.0711	1.4200e-003	0.0726		220.9415	220.9415	5.5600e-003	5.5000e-003	222.7195
Total	**0.0803**	**0.2000**	**0.7890**	**2.8400e-003**	**0.2896**	**2.3400e-003**	**0.2920**	**0.0772**	**2.1800e-003**	**0.0794**		**291.4027**	**291.4027**	**8.6400e-003**	**0.0161**	**296.4191**

Spane Park Stormwater Capture Project_2xwater - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Field surface replacement - 2024

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	0.6628	7.0555	5.2093	0.0120		0.2765	0.2765		0.2557	0.2557		1,148.1914	1,148.1914	0.3582		1,157.1459
Total	**0.6628**	**7.0555**	**5.2093**	**0.0120**		**0.2765**	**0.2765**		**0.2557**	**0.2557**		**1,148.1914**	**1,148.1914**	**0.3582**		**1,157.1459**

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	0.0000
Vendor	2.1500e-003	0.0805	0.0300	3.7000e-004	0.0128	3.9000e-004	0.0132	3.6900e-003	3.7000e-004	4.0600e-003		39.5229	39.5229	1.3400e-003	5.6900e-003	41.2531
Worker	0.0514	0.0352	0.4943	1.4600e-003	0.1788	1.0300e-003	0.1799	0.0474	9.5000e-004	0.0484		147.2943	147.2943	3.7000e-003	3.6700e-003	148.4797
Total	**0.0536**	**0.1157**	**0.5244**	**1.8300e-003**	**0.1917**	**1.4200e-003**	**0.1931**	**0.0511**	**1.3200e-003**	**0.0524**		**186.8172**	**186.8172**	**5.0400e-003**	**9.3600e-003**	**189.7327**

Spane Park Stormwater Capture Project_2xwater - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Field surface replacement - 2024

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	0.6628	7.0555	5.2093	0.0120		0.2765	0.2765		0.2557	0.2557	0.0000	1,148.1914	1,148.1914	0.3582		1,157.1459
Total	**0.6628**	**7.0555**	**5.2093**	**0.0120**		**0.2765**	**0.2765**		**0.2557**	**0.2557**	**0.0000**	**1,148.1914**	**1,148.1914**	**0.3582**		**1,157.1459**

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	0.0000
Vendor	2.1500e-003	0.0805	0.0300	3.7000e-004	0.0128	3.9000e-004	0.0132	3.6900e-003	3.7000e-004	4.0600e-003		39.5229	39.5229	1.3400e-003	5.6900e-003	41.2531
Worker	0.0514	0.0352	0.4943	1.4600e-003	0.1788	1.0300e-003	0.1799	0.0474	9.5000e-004	0.0484		147.2943	147.2943	3.7000e-003	3.6700e-003	148.4797
Total	**0.0536**	**0.1157**	**0.5244**	**1.8300e-003**	**0.1917**	**1.4200e-003**	**0.1931**	**0.0511**	**1.3200e-003**	**0.0524**		**186.8172**	**186.8172**	**5.0400e-003**	**9.3600e-003**	**189.7327**

Spane Park Stormwater Capture Project_2xwater - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.8 Restroom building construction - 2024

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	0.5193	5.2823	4.3152	9.6900e-003		0.2203	0.2203		0.2038	0.2038		919.9743	919.9743	0.2864		927.1355
Total	**0.5193**	**5.2823**	**4.3152**	**9.6900e-003**		**0.2203**	**0.2203**		**0.2038**	**0.2038**		**919.9743**	**919.9743**	**0.2864**		**927.1355**

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	0.0000
Vendor	2.1500e-003	0.0805	0.0300	3.7000e-004	0.0128	3.9000e-004	0.0132	3.6900e-003	3.7000e-004	4.0600e-003		39.5229	39.5229	1.3400e-003	5.6900e-003	41.2531
Worker	0.0964	0.0660	0.9269	2.7300e-003	0.3353	1.9300e-003	0.3373	0.0889	1.7800e-003	0.0907		276.1769	276.1769	6.9500e-003	6.8800e-003	278.3994
Total	**0.0986**	**0.1465**	**0.9569**	**3.1000e-003**	**0.3481**	**2.3200e-003**	**0.3505**	**0.0926**	**2.1500e-003**	**0.0948**		**315.6998**	**315.6998**	**8.2900e-003**	**0.0126**	**319.6524**

Spane Park Stormwater Capture Project_2xwater - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.8 Restroom building construction - 2024

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	0.5193	5.2823	4.3152	9.6900e-003		0.2203	0.2203		0.2038	0.2038	0.0000	919.9743	919.9743	0.2864		927.1355
Total	**0.5193**	**5.2823**	**4.3152**	**9.6900e-003**		**0.2203**	**0.2203**		**0.2038**	**0.2038**	**0.0000**	**919.9743**	**919.9743**	**0.2864**		**927.1355**

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	0.0000
Vendor	2.1500e-003	0.0805	0.0300	3.7000e-004	0.0128	3.9000e-004	0.0132	3.6900e-003	3.7000e-004	4.0600e-003		39.5229	39.5229	1.3400e-003	5.6900e-003	41.2531
Worker	0.0964	0.0660	0.9269	2.7300e-003	0.3353	1.9300e-003	0.3373	0.0889	1.7800e-003	0.0907		276.1769	276.1769	6.9500e-003	6.8800e-003	278.3994
Total	**0.0986**	**0.1465**	**0.9569**	**3.1000e-003**	**0.3481**	**2.3200e-003**	**0.3505**	**0.0926**	**2.1500e-003**	**0.0948**		**315.6998**	**315.6998**	**8.2900e-003**	**0.0126**	**319.6524**

Spane Park Stormwater Capture Project_2xwater - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.9 Basketball court construction - 2024

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	0.6368	6.0186	4.9319	0.0111		0.2489	0.2489		0.2324	0.2324		1,021.0070	1,021.0070	0.2969		1,028.4303
Total	**0.6368**	**6.0186**	**4.9319**	**0.0111**		**0.2489**	**0.2489**		**0.2324**	**0.2324**		**1,021.0070**	**1,021.0070**	**0.2969**		**1,028.4303**

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	0.0000
Vendor	2.1500e-003	0.0805	0.0300	3.7000e-004	0.0128	3.9000e-004	0.0132	3.6900e-003	3.7000e-004	4.0600e-003		39.5229	39.5229	1.3400e-003	5.6900e-003	41.2531
Worker	0.0321	0.0220	0.3090	9.1000e-004	0.1118	6.4000e-004	0.1124	0.0296	5.9000e-004	0.0302		92.0590	92.0590	2.3200e-003	2.2900e-003	92.7998
Total	**0.0343**	**0.1025**	**0.3390**	**1.2800e-003**	**0.1246**	**1.0300e-003**	**0.1256**	**0.0333**	**9.6000e-004**	**0.0343**		**131.5818**	**131.5818**	**3.6600e-003**	**7.9800e-003**	**134.0528**

Spane Park Stormwater Capture Project_2xwater - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.9 Basketball court construction - 2024

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	0.6368	6.0186	4.9319	0.0111		0.2489	0.2489		0.2324	0.2324	0.0000	1,021.0070	1,021.0070	0.2969		1,028.4303
Total	**0.6368**	**6.0186**	**4.9319**	**0.0111**		**0.2489**	**0.2489**		**0.2324**	**0.2324**	**0.0000**	**1,021.0070**	**1,021.0070**	**0.2969**		**1,028.4303**

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	0.0000
Vendor	2.1500e-003	0.0805	0.0300	3.7000e-004	0.0128	3.9000e-004	0.0132	3.6900e-003	3.7000e-004	4.0600e-003		39.5229	39.5229	1.3400e-003	5.6900e-003	41.2531
Worker	0.0321	0.0220	0.3090	9.1000e-004	0.1118	6.4000e-004	0.1124	0.0296	5.9000e-004	0.0302		92.0590	92.0590	2.3200e-003	2.2900e-003	92.7998
Total	**0.0343**	**0.1025**	**0.3390**	**1.2800e-003**	**0.1246**	**1.0300e-003**	**0.1256**	**0.0333**	**9.6000e-004**	**0.0343**		**131.5818**	**131.5818**	**3.6600e-003**	**7.9800e-003**	**134.0528**

Spane Park Stormwater Capture Project_2xwater - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.10 Concrete pathway improvements - 2024

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	0.0588	0.3682	0.3084	7.1000e-004		0.0143	0.0143		0.0143	0.0143		50.5163	50.5163	5.2400e-003		50.6474
Paving	0.1123					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.1711**	**0.3682**	**0.3084**	**7.1000e-004**		**0.0143**	**0.0143**		**0.0143**	**0.0143**		**50.5163**	**50.5163**	**5.2400e-003**		**50.6474**

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	0.0000
Vendor	2.1500e-003	0.0805	0.0300	3.7000e-004	0.0128	3.9000e-004	0.0132	3.6900e-003	3.7000e-004	4.0600e-003		39.5229	39.5229	1.3400e-003	5.6900e-003	41.2531
Worker	0.0321	0.0220	0.3090	9.1000e-004	0.1118	6.4000e-004	0.1124	0.0296	5.9000e-004	0.0302		92.0590	92.0590	2.3200e-003	2.2900e-003	92.7998
Total	**0.0343**	**0.1025**	**0.3390**	**1.2800e-003**	**0.1246**	**1.0300e-003**	**0.1256**	**0.0333**	**9.6000e-004**	**0.0343**		**131.5818**	**131.5818**	**3.6600e-003**	**7.9800e-003**	**134.0528**

Spane Park Stormwater Capture Project_2xwater - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.10 Concrete pathway improvements - 2024

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	0.0588	0.3682	0.3084	7.1000e-004		0.0143	0.0143		0.0143	0.0143	0.0000	50.5163	50.5163	5.2400e-003		50.6474
Paving	0.1123					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.1711**	**0.3682**	**0.3084**	**7.1000e-004**		**0.0143**	**0.0143**		**0.0143**	**0.0143**	**0.0000**	**50.5163**	**50.5163**	**5.2400e-003**		**50.6474**

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	0.0000
Vendor	2.1500e-003	0.0805	0.0300	3.7000e-004	0.0128	3.9000e-004	0.0132	3.6900e-003	3.7000e-004	4.0600e-003		39.5229	39.5229	1.3400e-003	5.6900e-003	41.2531
Worker	0.0321	0.0220	0.3090	9.1000e-004	0.1118	6.4000e-004	0.1124	0.0296	5.9000e-004	0.0302		92.0590	92.0590	2.3200e-003	2.2900e-003	92.7998
Total	**0.0343**	**0.1025**	**0.3390**	**1.2800e-003**	**0.1246**	**1.0300e-003**	**0.1256**	**0.0333**	**9.6000e-004**	**0.0343**		**131.5818**	**131.5818**	**3.6600e-003**	**7.9800e-003**	**134.0528**

Spane Park Stormwater Capture Project_2xwater - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.11 Pond and stream revitilization - 2024

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	0.5470	5.5825	4.6069	0.0101		0.2377	0.2377		0.2198	0.2198		957.9217	957.9217	0.2987		965.3897
Paving	0.0575					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.6045**	**5.5825**	**4.6069**	**0.0101**		**0.2377**	**0.2377**		**0.2198**	**0.2198**		**957.9217**	**957.9217**	**0.2987**		**965.3897**

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	0.0000
Vendor	2.1500e-003	0.0805	0.0300	3.7000e-004	0.0128	3.9000e-004	0.0132	3.6900e-003	3.7000e-004	4.0600e-003		39.5229	39.5229	1.3400e-003	5.6900e-003	41.2531
Worker	0.0643	0.0440	0.6179	1.8200e-003	0.2236	1.2900e-003	0.2248	0.0593	1.1900e-003	0.0605		184.1179	184.1179	4.6300e-003	4.5800e-003	185.5996
Total	**0.0664**	**0.1245**	**0.6479**	**2.1900e-003**	**0.2364**	**1.6800e-003**	**0.2380**	**0.0630**	**1.5600e-003**	**0.0645**		**223.6408**	**223.6408**	**5.9700e-003**	**0.0103**	**226.8526**

Spane Park Stormwater Capture Project_2xwater - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.11 Pond and stream revitilization - 2024

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	0.5470	5.5825	4.6069	0.0101		0.2377	0.2377		0.2198	0.2198	0.0000	957.9217	957.9217	0.2987		965.3897
Paving	0.0575					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.6045**	**5.5825**	**4.6069**	**0.0101**		**0.2377**	**0.2377**		**0.2198**	**0.2198**	**0.0000**	**957.9217**	**957.9217**	**0.2987**		**965.3897**

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	0.0000
Vendor	2.1500e-003	0.0805	0.0300	3.7000e-004	0.0128	3.9000e-004	0.0132	3.6900e-003	3.7000e-004	4.0600e-003		39.5229	39.5229	1.3400e-003	5.6900e-003	41.2531
Worker	0.0643	0.0440	0.6179	1.8200e-003	0.2236	1.2900e-003	0.2248	0.0593	1.1900e-003	0.0605		184.1179	184.1179	4.6300e-003	4.5800e-003	185.5996
Total	**0.0664**	**0.1245**	**0.6479**	**2.1900e-003**	**0.2364**	**1.6800e-003**	**0.2380**	**0.0630**	**1.5600e-003**	**0.0645**		**223.6408**	**223.6408**	**5.9700e-003**	**0.0103**	**226.8526**

Spane Park Stormwater Capture Project_2xwater - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.12 Ancillary park improvements - 2024

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	0.5470	5.5825	4.6069	0.0101		0.2377	0.2377		0.2198	0.2198		957.9217	957.9217	0.2987		965.3897
Paving	0.0575					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.6045**	**5.5825**	**4.6069**	**0.0101**		**0.2377**	**0.2377**		**0.2198**	**0.2198**		**957.9217**	**957.9217**	**0.2987**		**965.3897**

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	0.0000
Vendor	2.1500e-003	0.0805	0.0300	3.7000e-004	0.0128	3.9000e-004	0.0132	3.6900e-003	3.7000e-004	4.0600e-003		39.5229	39.5229	1.3400e-003	5.6900e-003	41.2531
Worker	0.0321	0.0220	0.3090	9.1000e-004	0.1118	6.4000e-004	0.1124	0.0296	5.9000e-004	0.0302		92.0590	92.0590	2.3200e-003	2.2900e-003	92.7998
Total	**0.0343**	**0.1025**	**0.3390**	**1.2800e-003**	**0.1246**	**1.0300e-003**	**0.1256**	**0.0333**	**9.6000e-004**	**0.0343**		**131.5818**	**131.5818**	**3.6600e-003**	**7.9800e-003**	**134.0528**

Spane Park Stormwater Capture Project_2xwater - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.12 Ancillary park improvements - 2024

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	0.5470	5.5825	4.6069	0.0101		0.2377	0.2377		0.2198	0.2198	0.0000	957.9217	957.9217	0.2987		965.3897
Paving	0.0575					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.6045**	**5.5825**	**4.6069**	**0.0101**		**0.2377**	**0.2377**		**0.2198**	**0.2198**	**0.0000**	**957.9217**	**957.9217**	**0.2987**		**965.3897**

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	0.0000
Vendor	2.1500e-003	0.0805	0.0300	3.7000e-004	0.0128	3.9000e-004	0.0132	3.6900e-003	3.7000e-004	4.0600e-003		39.5229	39.5229	1.3400e-003	5.6900e-003	41.2531
Worker	0.0321	0.0220	0.3090	9.1000e-004	0.1118	6.4000e-004	0.1124	0.0296	5.9000e-004	0.0302		92.0590	92.0590	2.3200e-003	2.2900e-003	92.7998
Total	**0.0343**	**0.1025**	**0.3390**	**1.2800e-003**	**0.1246**	**1.0300e-003**	**0.1256**	**0.0333**	**9.6000e-004**	**0.0343**		**131.5818**	**131.5818**	**3.6600e-003**	**7.9800e-003**	**134.0528**

Spane Park Stormwater Capture Project_2xwater - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.12 Ancillary park improvements - 2025

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	0.5178	5.1467	4.5578	0.0101		0.2168	0.2168		0.2006	0.2006		957.8483	957.8483	0.2987		965.3157
Paving	0.0575					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.5753**	**5.1467**	**4.5578**	**0.0101**		**0.2168**	**0.2168**		**0.2006**	**0.2006**		**957.8483**	**957.8483**	**0.2987**		**965.3157**

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	0.0000
Vendor	2.0800e-003	0.0802	0.0295	3.6000e-004	0.0128	3.9000e-004	0.0132	3.6900e-003	3.7000e-004	4.0600e-003		38.8125	38.8125	1.3500e-003	5.5900e-003	40.5135
Worker	0.0302	0.0197	0.2876	8.8000e-004	0.1118	6.1000e-004	0.1124	0.0296	5.6000e-004	0.0302		88.9339	88.9339	2.0900e-003	2.1400e-003	89.6238
Total	**0.0322**	**0.0999**	**0.3171**	**1.2400e-003**	**0.1246**	**1.0000e-003**	**0.1256**	**0.0333**	**9.3000e-004**	**0.0343**		**127.7464**	**127.7464**	**3.4400e-003**	**7.7300e-003**	**130.1373**

Spane Park Stormwater Capture Project_2xwater - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.12 Ancillary park improvements - 2025

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	0.5178	5.1467	4.5578	0.0101		0.2168	0.2168		0.2006	0.2006	0.0000	957.8483	957.8483	0.2987		965.3157
Paving	0.0575					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.5753**	**5.1467**	**4.5578**	**0.0101**		**0.2168**	**0.2168**		**0.2006**	**0.2006**	**0.0000**	**957.8483**	**957.8483**	**0.2987**		**965.3157**

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	0.0000
Vendor	2.0800e-003	0.0802	0.0295	3.6000e-004	0.0128	3.9000e-004	0.0132	3.6900e-003	3.7000e-004	4.0600e-003		38.8125	38.8125	1.3500e-003	5.5900e-003	40.5135
Worker	0.0302	0.0197	0.2876	8.8000e-004	0.1118	6.1000e-004	0.1124	0.0296	5.6000e-004	0.0302		88.9339	88.9339	2.0900e-003	2.1400e-003	89.6238
Total	**0.0322**	**0.0999**	**0.3171**	**1.2400e-003**	**0.1246**	**1.0000e-003**	**0.1256**	**0.0333**	**9.3000e-004**	**0.0343**		**127.7464**	**127.7464**	**3.4400e-003**	**7.7300e-003**	**130.1373**

Spane Park Stormwater Capture Project_2xwater - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.13 Parking reconstruction - 2024

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	0.4317	4.3439	6.3380	9.8900e-003		0.1983	0.1983		0.1833	0.1833		944.3545	944.3545	0.2979		951.8008
Paving	0.0761					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.5078**	**4.3439**	**6.3380**	**9.8900e-003**		**0.1983**	**0.1983**		**0.1833**	**0.1833**		**944.3545**	**944.3545**	**0.2979**		**951.8008**

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	0.0000
Vendor	2.1500e-003	0.0805	0.0300	3.7000e-004	0.0128	3.9000e-004	0.0132	3.6900e-003	3.7000e-004	4.0600e-003		39.5229	39.5229	1.3400e-003	5.6900e-003	41.2531
Worker	0.1286	0.0880	1.2358	3.6400e-003	0.4471	2.5700e-003	0.4497	0.1186	2.3700e-003	0.1209		368.2358	368.2358	9.2600e-003	9.1700e-003	371.1992
Total	**0.1307**	**0.1685**	**1.2658**	**4.0100e-003**	**0.4599**	**2.9600e-003**	**0.4629**	**0.1223**	**2.7400e-003**	**0.1250**		**407.7587**	**407.7587**	**0.0106**	**0.0149**	**412.4522**

Spane Park Stormwater Capture Project_2xwater - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.13 Parking reconstruction - 2024

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	0.4317	4.3439	6.3380	9.8900e-003		0.1983	0.1983		0.1833	0.1833	0.0000	944.3545	944.3545	0.2979		951.8008
Paving	0.0761					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.5078**	**4.3439**	**6.3380**	**9.8900e-003**		**0.1983**	**0.1983**		**0.1833**	**0.1833**	**0.0000**	**944.3545**	**944.3545**	**0.2979**		**951.8008**

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	0.0000
Vendor	2.1500e-003	0.0805	0.0300	3.7000e-004	0.0128	3.9000e-004	0.0132	3.6900e-003	3.7000e-004	4.0600e-003		39.5229	39.5229	1.3400e-003	5.6900e-003	41.2531
Worker	0.1286	0.0880	1.2358	3.6400e-003	0.4471	2.5700e-003	0.4497	0.1186	2.3700e-003	0.1209		368.2358	368.2358	9.2600e-003	9.1700e-003	371.1992
Total	**0.1307**	**0.1685**	**1.2658**	**4.0100e-003**	**0.4599**	**2.9600e-003**	**0.4629**	**0.1223**	**2.7400e-003**	**0.1250**		**407.7587**	**407.7587**	**0.0106**	**0.0149**	**412.4522**

Spane Park Stormwater Capture Project_2xwater - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.13 Parking reconstruction - 2025

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	0.4102	4.0695	6.3322	9.8800e-003		0.1805	0.1805		0.1669	0.1669		944.0095	944.0095	0.2977		951.4530
Paving	0.0761					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.4862**	**4.0695**	**6.3322**	**9.8800e-003**		**0.1805**	**0.1805**		**0.1669**	**0.1669**		**944.0095**	**944.0095**	**0.2977**		**951.4530**

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	0.0000
Vendor	2.0800e-003	0.0802	0.0295	3.6000e-004	0.0128	3.9000e-004	0.0132	3.6900e-003	3.7000e-004	4.0600e-003		38.8125	38.8125	1.3500e-003	5.5900e-003	40.5135
Worker	0.1206	0.0790	1.1502	3.5200e-003	0.4471	2.4500e-003	0.4496	0.1186	2.2600e-003	0.1208		355.7354	355.7354	8.3600e-003	8.5600e-003	358.4953
Total	**0.1227**	**0.1591**	**1.1797**	**3.8800e-003**	**0.4599**	**2.8400e-003**	**0.4628**	**0.1223**	**2.6300e-003**	**0.1249**		**394.5479**	**394.5479**	**9.7100e-003**	**0.0142**	**399.0088**

Spane Park Stormwater Capture Project_2xwater - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.13 Parking reconstruction - 2025

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	0.4102	4.0695	6.3322	9.8800e-003		0.1805	0.1805		0.1669	0.1669	0.0000	944.0095	944.0095	0.2977		951.4530
Paving	0.0761					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.4862**	**4.0695**	**6.3322**	**9.8800e-003**		**0.1805**	**0.1805**		**0.1669**	**0.1669**	**0.0000**	**944.0095**	**944.0095**	**0.2977**		**951.4530**

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	0.0000
Vendor	2.0800e-003	0.0802	0.0295	3.6000e-004	0.0128	3.9000e-004	0.0132	3.6900e-003	3.7000e-004	4.0600e-003		38.8125	38.8125	1.3500e-003	5.5900e-003	40.5135
Worker	0.1206	0.0790	1.1502	3.5200e-003	0.4471	2.4500e-003	0.4496	0.1186	2.2600e-003	0.1208		355.7354	355.7354	8.3600e-003	8.5600e-003	358.4953
Total	**0.1227**	**0.1591**	**1.1797**	**3.8800e-003**	**0.4599**	**2.8400e-003**	**0.4628**	**0.1223**	**2.6300e-003**	**0.1249**		**394.5479**	**394.5479**	**9.7100e-003**	**0.0142**	**399.0088**

Spane Park Stormwater Capture Project_2xwater - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	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

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Parking Lot	0.00	0.00	0.00		
User Defined Industrial	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
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
User Defined Industrial	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Parking Lot	0.540171	0.064547	0.189075	0.126673	0.023412	0.006384	0.010926	0.008089	0.000929	0.000597	0.025155	0.000706	0.003335
User Defined Industrial	0.540171	0.064547	0.189075	0.126673	0.023412	0.006384	0.010926	0.008089	0.000929	0.000597	0.025155	0.000706	0.003335

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

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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					
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
User Defined Industrial	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**

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					
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
User Defined Industrial	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

Spane Park Stormwater Capture Project_2xwater - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	2.6651	1.5000e-004	0.0160	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0345	0.0345	9.0000e-005		0.0367
Unmitigated	2.6651	1.5000e-004	0.0160	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0345	0.0345	9.0000e-005		0.0367

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	0.3039					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.3598					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.4800e-003	1.5000e-004	0.0160	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0345	0.0345	9.0000e-005		0.0367
Total	**2.6652**	**1.5000e-004**	**0.0160**	**0.0000**		**6.0000e-005**	**6.0000e-005**		**6.0000e-005**	**6.0000e-005**		**0.0345**	**0.0345**	**9.0000e-005**		**0.0367**

Spane Park Stormwater Capture Project_2xwater - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	0.3039					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.3598					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.4800e-003	1.5000e-004	0.0160	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0345	0.0345	9.0000e-005		0.0367
Total	**2.6652**	**1.5000e-004**	**0.0160**	**0.0000**		**6.0000e-005**	**6.0000e-005**		**6.0000e-005**	**6.0000e-005**		**0.0345**	**0.0345**	**9.0000e-005**		**0.0367**

7.0 Water Detail

7.1 Mitigation Measures Water

Spane Park Stormwater Capture Project_2xwater - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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

Spane Park Stormwater Capture Project- LST Analysis_2xwater - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Spane Park Stormwater Capture Project- LST Analysis_2xwater

Los Angeles-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Industrial	118.48	User Defined Unit	2.72	118,483.00	0
Parking Lot	39.00	1000sqft	0.90	39,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	9			**Operational Year**	2025
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - 2.72 acre area disturbed. 39,000 SF paved. Provided by applicant

Construction Phase - Construction schedule provided by applicant.

Off-road Equipment - Equipment provided by project applicant.

Off-road Equipment - Equipment provided by project applicant.

Off-road Equipment - Equipment provided by project applicant.

Off-road Equipment - Equipment provided by project applicant.

Off-road Equipment - Equipment provided by project applicant.

Off-road Equipment - Equipment provided by project applicant.

Off-road Equipment - Equipment provided by project applicant.

Off-road Equipment - Equipment provided by project applicant.

Spane Park Stormwater Capture Project- LST Analysis_2xwater - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Off-road Equipment - Equipment provided by project applicant.

Off-road Equipment - Equipment provided by project applicant.

Off-road Equipment - Equipment provided by project applicant.

Off-road Equipment - Equipment provided by project applicant.

Trips and VMT - Trips provided by applicant. For LST analysis- only concerned with localized emissions (i.e., within 1,000 ft of the project site).

Demolition - Data provided by applicant.

Grading - Data provided by project applicant.

Vehicle Trips - Construction only.

Vehicle Emission Factors - Construction only.

Road Dust - Construction only.

Woodstoves - Construction only.

Consumer Products - Construction only.

Area Coating - Construction only.

Landscape Equipment - Construction only.

Energy Use - Construction only.

Water And Wastewater - Construction only.

Solid Waste - Construction only.

Construction Off-road Equipment Mitigation - Compliance with SCAQMD Rule 403- water twice daily.

Fleet Mix - Construction only.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	230.00	76.00
tblConstructionPhase	NumDays	230.00	21.00
tblConstructionPhase	NumDays	230.00	51.00
tblConstructionPhase	NumDays	230.00	21.00
tblConstructionPhase	NumDays	20.00	21.00
tblConstructionPhase	NumDays	8.00	51.00
tblConstructionPhase	NumDays	18.00	41.00
tblConstructionPhase	NumDays	18.00	41.00

Spane Park Stormwater Capture Project- LST Analysis_2xwater - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblConstructionPhase	NumDays	18.00	31.00
tblConstructionPhase	NumDays	18.00	21.00
tblConstructionPhase	NumDays	5.00	41.00
tblEnergyUse	LightingElect	0.35	0.00
tblGrading	AcresOfGrading	25.50	8.00
tblGrading	AcresOfGrading	41.00	7.50
tblGrading	MaterialExported	0.00	18,000.00
tblGrading	MaterialExported	0.00	1,800.00
tblLandUse	LandUseSquareFeet	0.00	118,483.00
tblLandUse	LotAcreage	0.00	2.72
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripNumber	25.00	26.00
tblTripsAndVMT	HaulingTripNumber	225.00	226.00
tblTripsAndVMT	HaulingTripNumber	0.00	20.00
tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	26.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblTripsAndVMT	VendorTripNumber	26.00	2.00
tblTripsAndVMT	VendorTripNumber	26.00	2.00
tblTripsAndVMT	VendorTripNumber	26.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripLength	14.70	0.19
tblTripsAndVMT	WorkerTripLength	14.70	0.19
tblTripsAndVMT	WorkerTripLength	14.70	0.19
tblTripsAndVMT	WorkerTripLength	14.70	0.19
tblTripsAndVMT	WorkerTripLength	14.70	0.19
tblTripsAndVMT	WorkerTripLength	14.70	0.19
tblTripsAndVMT	WorkerTripLength	14.70	0.19
tblTripsAndVMT	WorkerTripLength	14.70	0.19
tblTripsAndVMT	WorkerTripLength	14.70	0.19
tblTripsAndVMT	WorkerTripLength	14.70	0.19
tblTripsAndVMT	WorkerTripLength	14.70	0.19
tblTripsAndVMT	WorkerTripNumber	10.00	20.00
tblTripsAndVMT	WorkerTripNumber	10.00	40.00
tblTripsAndVMT	WorkerTripNumber	8.00	20.00
tblTripsAndVMT	WorkerTripNumber	8.00	20.00
tblTripsAndVMT	WorkerTripNumber	66.00	20.00
tblTripsAndVMT	WorkerTripNumber	8.00	24.00
tblTripsAndVMT	WorkerTripNumber	66.00	16.00
tblTripsAndVMT	WorkerTripNumber	66.00	30.00
tblTripsAndVMT	WorkerTripNumber	66.00	10.00
tblTripsAndVMT	WorkerTripNumber	3.00	10.00

2.0 Emissions Summary

Spane Park Stormwater Capture Project- LST Analysis_2xwater - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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					
2023	2.3760	23.7625	15.2379	0.0352	12.4649	1.0057	13.3929	6.6705	0.9376	7.5243	0.0000	3,392.0857	3,392.0857	0.9795	0.0288	3,416.5376
2024	1.8780	19.0243	12.2871	0.0278	8.5100e-003	0.8848	0.8925	2.3500e-003	0.8140	0.8161	0.0000	2,696.4181	2,696.4181	0.8693	4.0700e-003	2,719.3417
2025	1.1185	9.2835	11.1446	0.0202	8.5100e-003	0.3976	0.4062	2.3500e-003	0.3678	0.3701	0.0000	1,924.9494	1,924.9494	0.6014	3.9100e-003	1,941.1505
Maximum	**2.3760**	**23.7625**	**15.2379**	**0.0352**	**12.4649**	**1.0057**	**13.3929**	**6.6705**	**0.9376**	**7.5243**	**0.0000**	**3,392.0857**	**3,392.0857**	**0.9795**	**0.0288**	**3,416.5376**

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					
2023	2.3760	23.7625	15.2379	0.0352	5.6177	1.0057	6.5457	3.0041	0.9376	3.8579	0.0000	3,392.0857	3,392.0857	0.9795	0.0288	3,416.5376
2024	1.8780	19.0243	12.2871	0.0278	8.5100e-003	0.8848	0.8925	2.3500e-003	0.8140	0.8161	0.0000	2,696.4181	2,696.4181	0.8693	4.0700e-003	2,719.3417
2025	1.1185	9.2835	11.1446	0.0202	8.5100e-003	0.3976	0.4062	2.3500e-003	0.3678	0.3701	0.0000	1,924.9494	1,924.9494	0.6014	3.9100e-003	1,941.1505
Maximum	**2.3760**	**23.7625**	**15.2379**	**0.0352**	**5.6177**	**1.0057**	**6.5457**	**3.0041**	**0.9376**	**3.8579**	**0.0000**	**3,392.0857**	**3,392.0857**	**0.9795**	**0.0288**	**3,416.5376**

Spane Park Stormwater Capture Project- LST Analysis_2xwater - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	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	54.86	0.00	46.61	54.93	0.00	42.09	0.00	0.00	0.00	0.00	0.00	0.00

Spane Park Stormwater Capture Project- LST Analysis_2xwater - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	2.6651	1.5000e-004	0.0160	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0345	0.0345	9.0000e-005		0.0367
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	0.0000
Total	**2.6651**	**1.5000e-004**	**0.0160**	**0.0000**	**0.0000**	**6.0000e-005**	**6.0000e-005**	**0.0000**	**6.0000e-005**	**6.0000e-005**		**0.0345**	**0.0345**	**9.0000e-005**	**0.0000**	**0.0367**

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	2.6651	1.5000e-004	0.0160	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0345	0.0345	9.0000e-005		0.0367
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	0.0000
Total	**2.6651**	**1.5000e-004**	**0.0160**	**0.0000**	**0.0000**	**6.0000e-005**	**6.0000e-005**	**0.0000**	**6.0000e-005**	**6.0000e-005**		**0.0345**	**0.0345**	**9.0000e-005**	**0.0000**	**0.0367**

Spane Park Stormwater Capture Project- LST Analysis_2xwater - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	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	Demolition of existing basketball courts and restroom building	Demolition	8/1/2023	8/29/2023	5	21	
2	Site mobilization, clearing, grubbing, and vegetation removal	Site Preparation	8/1/2023	9/26/2023	5	41	
3	Reservoir excavation	Grading	9/25/2023	12/4/2023	5	51	
4	Reservoir construction	Building Construction	12/11/2023	3/25/2024	5	76	
5	Pipeline, diversion structure, and treatment facility/pump installation	Trenching	2/5/2024	4/1/2024	5	41	
6	Field surface replacement	Building Construction	4/1/2024	4/29/2024	5	21	
7	Restroom building construction	Building Construction	5/6/2024	7/15/2024	5	51	
8	Basketball court construction	Building Construction	7/22/2024	8/19/2024	5	21	
9	Concrete pathway improvements	Paving	8/26/2024	9/23/2024	5	21	
10	Pond and stream revitilization	Paving	9/23/2024	11/18/2024	5	41	
11	Ancillary park improvements	Paving	11/11/2024	1/6/2025	5	41	
12	Parking reconstruction	Paving	12/9/2024	1/20/2025	5	31	

Acres of Grading (Site Preparation Phase): 7.5

Acres of Grading (Grading Phase): 8

Acres of Paving: 0.9

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

OffRoad Equipment

Spane Park Stormwater Capture Project- LST Analysis_2xwater - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition of existing basketball courts and restroom building	Crushing/Proc. Equipment	1	8.00	85	0.78
Demolition of existing basketball courts and restroom building	Rubber Tired Dozers	1	8.00	247	0.40
Demolition of existing basketball courts and restroom building	Skid Steer Loaders	1	8.00	65	0.37
Site mobilization, clearing, grubbing, and vegetation removal	Graders	1	8.00	187	0.41
Site mobilization, clearing, grubbing, and vegetation removal	Rubber Tired Dozers	1	8.00	247	0.40
Site mobilization, clearing, grubbing, and vegetation removal	Skid Steer Loaders	1	8.00	65	0.37
Reservoir excavation	Rubber Tired Dozers	1	8.00	247	0.40
Reservoir excavation	Skid Steer Loaders	1	8.00	65	0.37
Reservoir excavation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Reservoir construction	Cranes	1	8.00	231	0.29
Reservoir construction	Rubber Tired Dozers	1	8.00	247	0.40
Reservoir construction	Skid Steer Loaders	1	8.00	65	0.37
Pipeline, diversion structure, and treatment facility/pump installation	Cranes	1	8.00	231	0.29
Pipeline, diversion structure, and treatment facility/pump installation	Skid Steer Loaders	1	8.00	65	0.37
Pipeline, diversion structure, and treatment facility/pump installation	Trenchers	1	8.00	78	0.50
Field surface replacement	Dumpers/Tenders	1	8.00	16	0.38
Field surface replacement	Graders	1	8.00	187	0.41
Field surface replacement	Skid Steer Loaders	1	8.00	65	0.37
Field surface replacement	Sweepers/Scrubbers	1	8.00	64	0.46
Restroom building construction	Aerial Lifts	1	8.00	63	0.31
Restroom building construction	Cement and Mortar Mixers	1	8.00	9	0.56
Restroom building construction	Cranes	1	8.00	231	0.29
Restroom building construction	Forklifts	1	8.00	89	0.20
Basketball court construction	Aerial Lifts	1	8.00	63	0.31
Basketball court construction	Cement and Mortar Mixers	3	8.00	9	0.56
Basketball court construction	Cranes	1	8.00	231	0.29

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Basketball court construction	Forklifts	1	8.00	89	0.20
Concrete pathway improvements	Cement and Mortar Mixers	1	8.00	9	0.56
Pond and stream revitilization	Cement and Mortar Mixers	1	8.00	9	0.56
Pond and stream revitilization	Cranes	1	8.00	231	0.29
Pond and stream revitilization	Forklifts	1	8.00	89	0.20
Pond and stream revitilization	Skid Steer Loaders	1	8.00	65	0.37
Ancillary park improvements	Cement and Mortar Mixers	1	8.00	9	0.56
Ancillary park improvements	Cranes	1	8.00	231	0.29
Ancillary park improvements	Forklifts	1	8.00	89	0.20
Ancillary park improvements	Skid Steer Loaders	1	8.00	65	0.37
Parking reconstruction	Pavers	1	8.00	130	0.42
Parking reconstruction	Plate Compactors	1	8.00	8	0.43
Parking reconstruction	Rollers	1	8.00	80	0.38
Parking reconstruction	Skid Steer Loaders	1	8.00	65	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
Demolition of existing basketball courts and r	3	8.00	0.00	26.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Site mobilization, clearing, grubbing, an	3	20.00	0.00	226.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Reservoir excavation	3	20.00	0.00	2,250.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Reservoir construction	3	20.00	2.00	0.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Pipeline, diversion structure, and treatme	3	24.00	2.00	20.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Field surface replacement	4	16.00	2.00	0.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Restroom building construction	4	30.00	2.00	0.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Basketball court construction	6	10.00	2.00	0.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Concrete pathway improvements	1	10.00	2.00	0.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Pond and stream revitilization	4	20.00	2.00	0.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT

Spane Park Stormwater Capture Project- LST Analysis_2xwater - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Ancillary park improvements	4	10.00	2.00	0.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Parking reconstruction	4	40.00	2.00	0.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Demolition of existing basketball courts and restroom building - 2023

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					0.2598	0.0000	0.2598	0.0393	0.0000	0.0393			0.0000			0.0000
Off-Road	1.2000	10.9760	8.8183	0.0176		0.5045	0.5045		0.4765	0.4765		1,692.0171	1,692.0171	0.3721		1,701.3187
Total	**1.2000**	**10.9760**	**8.8183**	**0.0176**	**0.2598**	**0.5045**	**0.7644**	**0.0393**	**0.4765**	**0.5159**		**1,692.0171**	**1,692.0171**	**0.3721**		**1,701.3187**

Spane Park Stormwater Capture Project- LST Analysis_2xwater - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Demolition of existing basketball courts and restroom building - 2023

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	1.3500e-003	0.0236	0.0187	4.0000e-005	2.3000e-004	2.0000e-005	2.5000e-004	7.0000e-005	2.0000e-005	9.0000e-005		4.1796	4.1796	1.4000e-004	6.6000e-004	4.3801
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
Worker	0.0101	3.6900e-003	0.0381	3.0000e-005	1.2300e-003	4.0000e-005	1.2800e-003	3.4000e-004	4.0000e-005	3.8000e-004		2.5540	2.5540	8.9000e-004	4.7000e-004	2.7161
Total	**0.0115**	**0.0273**	**0.0568**	**7.0000e-005**	**1.4600e-003**	**6.0000e-005**	**1.5300e-003**	**4.1000e-004**	**6.0000e-005**	**4.7000e-004**		**6.7335**	**6.7335**	**1.0300e-003**	**1.1300e-003**	**7.0962**

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					0.1169	0.0000	0.1169	0.0177	0.0000	0.0177			0.0000			0.0000
Off-Road	1.2000	10.9760	8.8183	0.0176		0.5045	0.5045		0.4765	0.4765	0.0000	1,692.0171	1,692.0171	0.3721		1,701.3187
Total	**1.2000**	**10.9760**	**8.8183**	**0.0176**	**0.1169**	**0.5045**	**0.6215**	**0.0177**	**0.4765**	**0.4942**	**0.0000**	**1,692.0171**	**1,692.0171**	**0.3721**		**1,701.3187**

Spane Park Stormwater Capture Project- LST Analysis_2xwater - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Demolition of existing basketball courts and restroom building - 2023

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	1.3500e-003	0.0236	0.0187	4.0000e-005	2.3000e-004	2.0000e-005	2.5000e-004	7.0000e-005	2.0000e-005	9.0000e-005		4.1796	4.1796	1.4000e-004	6.6000e-004	4.3801
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
Worker	0.0101	3.6900e-003	0.0381	3.0000e-005	1.2300e-003	4.0000e-005	1.2800e-003	3.4000e-004	4.0000e-005	3.8000e-004		2.5540	2.5540	8.9000e-004	4.7000e-004	2.7161
Total	**0.0115**	**0.0273**	**0.0568**	**7.0000e-005**	**1.4600e-003**	**6.0000e-005**	**1.5300e-003**	**4.1000e-004**	**6.0000e-005**	**4.7000e-004**		**6.7335**	**6.7335**	**1.0300e-003**	**1.1300e-003**	**7.0962**

Spane Park Stormwater Capture Project- LST Analysis_2xwater - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Site mobilization, clearing, grubbing, and vegetation removal - 2023

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					6.2210	0.0000	6.2210	3.3319	0.0000	3.3319			0.0000			0.0000
Off-Road	1.1332	12.6449	6.1844	0.0172		0.5009	0.5009		0.4609	0.4609		1,668.3421	1,668.3421	0.5396		1,681.8315
Total	**1.1332**	**12.6449**	**6.1844**	**0.0172**	**6.2210**	**0.5009**	**6.7220**	**3.3319**	**0.4609**	**3.7928**		**1,668.3421**	**1,668.3421**	**0.5396**		**1,681.8315**

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	6.0000e-003	0.1051	0.0832	1.7000e-004	1.0300e-003	1.0000e-004	1.1300e-003	2.9000e-004	9.0000e-005	3.9000e-004		18.6080	18.6080	6.2000e-004	2.9400e-003	19.5009
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
Worker	0.0254	9.2200e-003	0.0953	6.0000e-005	3.0800e-003	1.1000e-004	3.1900e-003	8.4000e-004	1.0000e-004	9.4000e-004		6.3850	6.3850	2.2300e-003	1.1700e-003	6.7903
Total	**0.0314**	**0.1143**	**0.1785**	**2.3000e-004**	**4.1100e-003**	**2.1000e-004**	**4.3200e-003**	**1.1300e-003**	**1.9000e-004**	**1.3300e-003**		**24.9930**	**24.9930**	**2.8500e-003**	**4.1100e-003**	**26.2911**

Spane Park Stormwater Capture Project- LST Analysis_2xwater - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Site mobilization, clearing, grubbing, and vegetation removal - 2023

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					2.7995	0.0000	2.7995	1.4994	0.0000	1.4994			0.0000			0.0000
Off-Road	1.1332	12.6449	6.1844	0.0172		0.5009	0.5009		0.4609	0.4609	0.0000	1,668.3421	1,668.3421	0.5396		1,681.8315
Total	**1.1332**	**12.6449**	**6.1844**	**0.0172**	**2.7995**	**0.5009**	**3.3004**	**1.4994**	**0.4609**	**1.9602**	**0.0000**	**1,668.3421**	**1,668.3421**	**0.5396**		**1,681.8315**

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	6.0000e-003	0.1051	0.0832	1.7000e-004	1.0300e-003	1.0000e-004	1.1300e-003	2.9000e-004	9.0000e-005	3.9000e-004		18.6080	18.6080	6.2000e-004	2.9400e-003	19.5009
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
Worker	0.0254	9.2200e-003	0.0953	6.0000e-005	3.0800e-003	1.1000e-004	3.1900e-003	8.4000e-004	1.0000e-004	9.4000e-004		6.3850	6.3850	2.2300e-003	1.1700e-003	6.7903
Total	**0.0314**	**0.1143**	**0.1785**	**2.3000e-004**	**4.1100e-003**	**2.1000e-004**	**4.3200e-003**	**1.1300e-003**	**1.9000e-004**	**1.3300e-003**		**24.9930**	**24.9930**	**2.8500e-003**	**4.1100e-003**	**26.2911**

Spane Park Stormwater Capture Project- LST Analysis_2xwater - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Reservoir excavation - 2023

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					6.2284	0.0000	6.2284	3.3342	0.0000	3.3342			0.0000			0.0000
Off-Road	0.9011	9.5275	6.7231	0.0137		0.4260	0.4260		0.3919	0.3919		1,329.0634	1,329.0634	0.4299		1,339.8096
Total	**0.9011**	**9.5275**	**6.7231**	**0.0137**	**6.2284**	**0.4260**	**6.6543**	**3.3342**	**0.3919**	**3.7261**		**1,329.0634**	**1,329.0634**	**0.4299**		**1,339.8096**

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	0.0480	0.8412	0.6658	1.3800e-003	8.2700e-003	7.9000e-004	9.0600e-003	2.3500e-003	7.6000e-004	3.1100e-003		148.9321	148.9321	5.0000e-003	0.0236	156.0781
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
Worker	0.0254	9.2200e-003	0.0953	6.0000e-005	3.0800e-003	1.1000e-004	3.1900e-003	8.4000e-004	1.0000e-004	9.4000e-004		6.3850	6.3850	2.2300e-003	1.1700e-003	6.7903
Total	**0.0734**	**0.8505**	**0.7611**	**1.4400e-003**	**0.0114**	**9.0000e-004**	**0.0123**	**3.1900e-003**	**8.6000e-004**	**4.0500e-003**		**155.3170**	**155.3170**	**7.2300e-003**	**0.0247**	**162.8684**

Spane Park Stormwater Capture Project- LST Analysis_2xwater - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Reservoir excavation - 2023

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					2.8028	0.0000	2.8028	1.5004	0.0000	1.5004			0.0000			0.0000
Off-Road	0.9011	9.5275	6.7231	0.0137		0.4260	0.4260		0.3919	0.3919	0.0000	1,329.0634	1,329.0634	0.4299		1,339.8096
Total	**0.9011**	**9.5275**	**6.7231**	**0.0137**	**2.8028**	**0.4260**	**3.2288**	**1.5004**	**0.3919**	**1.8923**	**0.0000**	**1,329.0634**	**1,329.0634**	**0.4299**		**1,339.8096**

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	0.0480	0.8412	0.6658	1.3800e-003	8.2700e-003	7.9000e-004	9.0600e-003	2.3500e-003	7.6000e-004	3.1100e-003		148.9321	148.9321	5.0000e-003	0.0236	156.0781
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
Worker	0.0254	9.2200e-003	0.0953	6.0000e-005	3.0800e-003	1.1000e-004	3.1900e-003	8.4000e-004	1.0000e-004	9.4000e-004		6.3850	6.3850	2.2300e-003	1.1700e-003	6.7903
Total	**0.0734**	**0.8505**	**0.7611**	**1.4400e-003**	**0.0114**	**9.0000e-004**	**0.0123**	**3.1900e-003**	**8.6000e-004**	**4.0500e-003**		**155.3170**	**155.3170**	**7.2300e-003**	**0.0247**	**162.8684**

Spane Park Stormwater Capture Project- LST Analysis_2xwater - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Reservoir construction - 2023

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	1.1012	11.8074	6.3262	0.0164		0.5095	0.5095		0.4688	0.4688		1,586.3062	1,586.3062	0.5130		1,599.1323
Total	**1.1012**	**11.8074**	**6.3262**	**0.0164**		**0.5095**	**0.5095**		**0.4688**	**0.4688**		**1,586.3062**	**1,586.3062**	**0.5130**		**1,599.1323**

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	0.0000
Vendor	1.3500e-003	0.0240	0.0189	4.0000e-005	4.0000e-004	2.0000e-005	4.3000e-004	1.2000e-004	2.0000e-005	1.4000e-004		4.2028	4.2028	1.5000e-004	6.5000e-004	4.4011
Worker	0.0254	9.2200e-003	0.0953	6.0000e-005	3.0800e-003	1.1000e-004	3.1900e-003	8.4000e-004	1.0000e-004	9.4000e-004		6.3850	6.3850	2.2300e-003	1.1700e-003	6.7903
Total	**0.0267**	**0.0332**	**0.1141**	**1.0000e-004**	**3.4800e-003**	**1.3000e-004**	**3.6200e-003**	**9.6000e-004**	**1.2000e-004**	**1.0800e-003**		**10.5878**	**10.5878**	**2.3800e-003**	**1.8200e-003**	**11.1913**

Spane Park Stormwater Capture Project- LST Analysis_2xwater - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Reservoir construction - 2023

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	1.1012	11.8074	6.3262	0.0164		0.5095	0.5095		0.4688	0.4688	0.0000	1,586.3062	1,586.3062	0.5130		1,599.1323
Total	**1.1012**	**11.8074**	**6.3262**	**0.0164**		**0.5095**	**0.5095**		**0.4688**	**0.4688**	**0.0000**	**1,586.3062**	**1,586.3062**	**0.5130**		**1,599.1323**

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	0.0000
Vendor	1.3500e-003	0.0240	0.0189	4.0000e-005	4.0000e-004	2.0000e-005	4.3000e-004	1.2000e-004	2.0000e-005	1.4000e-004		4.2028	4.2028	1.5000e-004	6.5000e-004	4.4011
Worker	0.0254	9.2200e-003	0.0953	6.0000e-005	3.0800e-003	1.1000e-004	3.1900e-003	8.4000e-004	1.0000e-004	9.4000e-004		6.3850	6.3850	2.2300e-003	1.1700e-003	6.7903
Total	**0.0267**	**0.0332**	**0.1141**	**1.0000e-004**	**3.4800e-003**	**1.3000e-004**	**3.6200e-003**	**9.6000e-004**	**1.2000e-004**	**1.0800e-003**		**10.5878**	**10.5878**	**2.3800e-003**	**1.8200e-003**	**11.1913**

Spane Park Stormwater Capture Project- LST Analysis_2xwater - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Reservoir construction - 2024

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	1.0891	11.4584	6.2903	0.0164		0.4935	0.4935		0.4541	0.4541		1,586.3556	1,586.3556	0.5131		1,599.1821
Total	**1.0891**	**11.4584**	**6.2903**	**0.0164**		**0.4935**	**0.4935**		**0.4541**	**0.4541**		**1,586.3556**	**1,586.3556**	**0.5131**		**1,599.1821**

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	0.0000
Vendor	1.3300e-003	0.0239	0.0186	4.0000e-005	4.0000e-004	2.0000e-005	4.3000e-004	1.2000e-004	2.0000e-005	1.4000e-004		4.1400	4.1400	1.5000e-004	6.4000e-004	4.3354
Worker	0.0234	8.5100e-003	0.0913	6.0000e-005	3.0800e-003	1.1000e-004	3.1900e-003	8.4000e-004	1.0000e-004	9.4000e-004		6.1931	6.1931	2.0500e-003	1.1100e-003	6.5763
Total	**0.0248**	**0.0324**	**0.1099**	**1.0000e-004**	**3.4800e-003**	**1.3000e-004**	**3.6200e-003**	**9.6000e-004**	**1.2000e-004**	**1.0800e-003**		**10.3331**	**10.3331**	**2.2000e-003**	**1.7500e-003**	**10.9117**

Spane Park Stormwater Capture Project- LST Analysis_2xwater - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Reservoir construction - 2024

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	1.0891	11.4584	6.2903	0.0164		0.4935	0.4935		0.4541	0.4541	0.0000	1,586.3556	1,586.3556	0.5131		1,599.1821
Total	**1.0891**	**11.4584**	**6.2903**	**0.0164**		**0.4935**	**0.4935**		**0.4541**	**0.4541**	**0.0000**	**1,586.3556**	**1,586.3556**	**0.5131**		**1,599.1821**

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	0.0000
Vendor	1.3300e-003	0.0239	0.0186	4.0000e-005	4.0000e-004	2.0000e-005	4.3000e-004	1.2000e-004	2.0000e-005	1.4000e-004		4.1400	4.1400	1.5000e-004	6.4000e-004	4.3354
Worker	0.0234	8.5100e-003	0.0913	6.0000e-005	3.0800e-003	1.1000e-004	3.1900e-003	8.4000e-004	1.0000e-004	9.4000e-004		6.1931	6.1931	2.0500e-003	1.1100e-003	6.5763
Total	**0.0248**	**0.0324**	**0.1099**	**1.0000e-004**	**3.4800e-003**	**1.3000e-004**	**3.6200e-003**	**9.6000e-004**	**1.2000e-004**	**1.0800e-003**		**10.3331**	**10.3331**	**2.2000e-003**	**1.7500e-003**	**10.9117**

Spane Park Stormwater Capture Project- LST Analysis_2xwater - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Pipeline, diversion structure, and treatment facility/pump installation - 2024

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	0.7341	7.4901	5.7514	0.0112		0.3910	0.3910		0.3597	0.3597		1,086.5346	1,086.5346	0.3514		1,095.3198
Total	**0.7341**	**7.4901**	**5.7514**	**0.0112**		**0.3910**	**0.3910**		**0.3597**	**0.3597**		**1,086.5346**	**1,086.5346**	**0.3514**		**1,095.3198**

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	5.3000e-004	9.2600e-003	7.3600e-003	1.0000e-005	9.0000e-005	1.0000e-005	1.0000e-004	3.0000e-005	1.0000e-005	3.0000e-005		1.6231	1.6231	6.0000e-005	2.6000e-004	1.7010
Vendor	1.3300e-003	0.0239	0.0186	4.0000e-005	4.0000e-004	2.0000e-005	4.3000e-004	1.2000e-004	2.0000e-005	1.4000e-004		4.1400	4.1400	1.5000e-004	6.4000e-004	4.3354
Worker	0.0281	0.0102	0.1095	7.0000e-005	3.7000e-003	1.3000e-004	3.8300e-003	1.0100e-003	1.2000e-004	1.1300e-003		7.4317	7.4317	2.4600e-003	1.3400e-003	7.8916
Total	**0.0300**	**0.0434**	**0.1355**	**1.2000e-004**	**4.1900e-003**	**1.6000e-004**	**4.3600e-003**	**1.1600e-003**	**1.5000e-004**	**1.3000e-003**		**13.1948**	**13.1948**	**2.6700e-003**	**2.2400e-003**	**13.9280**

Spane Park Stormwater Capture Project- LST Analysis_2xwater - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Pipeline, diversion structure, and treatment facility/pump installation - 2024

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	0.7341	7.4901	5.7514	0.0112		0.3910	0.3910		0.3597	0.3597	0.0000	1,086.5346	1,086.5346	0.3514		1,095.3198
Total	**0.7341**	**7.4901**	**5.7514**	**0.0112**		**0.3910**	**0.3910**		**0.3597**	**0.3597**	**0.0000**	**1,086.5346**	**1,086.5346**	**0.3514**		**1,095.3198**

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	5.3000e-004	9.2600e-003	7.3600e-003	1.0000e-005	9.0000e-005	1.0000e-005	1.0000e-004	3.0000e-005	1.0000e-005	3.0000e-005		1.6231	1.6231	6.0000e-005	2.6000e-004	1.7010
Vendor	1.3300e-003	0.0239	0.0186	4.0000e-005	4.0000e-004	2.0000e-005	4.3000e-004	1.2000e-004	2.0000e-005	1.4000e-004		4.1400	4.1400	1.5000e-004	6.4000e-004	4.3354
Worker	0.0281	0.0102	0.1095	7.0000e-005	3.7000e-003	1.3000e-004	3.8300e-003	1.0100e-003	1.2000e-004	1.1300e-003		7.4317	7.4317	2.4600e-003	1.3400e-003	7.8916
Total	**0.0300**	**0.0434**	**0.1355**	**1.2000e-004**	**4.1900e-003**	**1.6000e-004**	**4.3600e-003**	**1.1600e-003**	**1.5000e-004**	**1.3000e-003**		**13.1948**	**13.1948**	**2.6700e-003**	**2.2400e-003**	**13.9280**

Spane Park Stormwater Capture Project- LST Analysis_2xwater - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Field surface replacement - 2024

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	0.6628	7.0555	5.2093	0.0120		0.2765	0.2765		0.2557	0.2557		1,148.1914	1,148.1914	0.3582		1,157.1459
Total	**0.6628**	**7.0555**	**5.2093**	**0.0120**		**0.2765**	**0.2765**		**0.2557**	**0.2557**		**1,148.1914**	**1,148.1914**	**0.3582**		**1,157.1459**

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	0.0000
Vendor	1.3300e-003	0.0239	0.0186	4.0000e-005	4.0000e-004	2.0000e-005	4.3000e-004	1.2000e-004	2.0000e-005	1.4000e-004		4.1400	4.1400	1.5000e-004	6.4000e-004	4.3354
Worker	0.0188	6.8100e-003	0.0730	5.0000e-005	2.4700e-003	8.0000e-005	2.5500e-003	6.7000e-004	8.0000e-005	7.5000e-004		4.9544	4.9544	1.6400e-003	8.9000e-004	5.2611
Total	**0.0201**	**0.0307**	**0.0916**	**9.0000e-005**	**2.8700e-003**	**1.0000e-004**	**2.9800e-003**	**7.9000e-004**	**1.0000e-004**	**8.9000e-004**		**9.0945**	**9.0945**	**1.7900e-003**	**1.5300e-003**	**9.5965**

Spane Park Stormwater Capture Project- LST Analysis_2xwater - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Field surface replacement - 2024

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	0.6628	7.0555	5.2093	0.0120		0.2765	0.2765		0.2557	0.2557	0.0000	1,148.1914	1,148.1914	0.3582		1,157.1459
Total	**0.6628**	**7.0555**	**5.2093**	**0.0120**		**0.2765**	**0.2765**		**0.2557**	**0.2557**	**0.0000**	**1,148.1914**	**1,148.1914**	**0.3582**		**1,157.1459**

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	0.0000
Vendor	1.3300e-003	0.0239	0.0186	4.0000e-005	4.0000e-004	2.0000e-005	4.3000e-004	1.2000e-004	2.0000e-005	1.4000e-004		4.1400	4.1400	1.5000e-004	6.4000e-004	4.3354
Worker	0.0188	6.8100e-003	0.0730	5.0000e-005	2.4700e-003	8.0000e-005	2.5500e-003	6.7000e-004	8.0000e-005	7.5000e-004		4.9544	4.9544	1.6400e-003	8.9000e-004	5.2611
Total	**0.0201**	**0.0307**	**0.0916**	**9.0000e-005**	**2.8700e-003**	**1.0000e-004**	**2.9800e-003**	**7.9000e-004**	**1.0000e-004**	**8.9000e-004**		**9.0945**	**9.0945**	**1.7900e-003**	**1.5300e-003**	**9.5965**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.8 Restroom building construction - 2024

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	0.5193	5.2823	4.3152	9.6900e-003		0.2203	0.2203		0.2038	0.2038		919.9743	919.9743	0.2864		927.1355
Total	**0.5193**	**5.2823**	**4.3152**	**9.6900e-003**		**0.2203**	**0.2203**		**0.2038**	**0.2038**		**919.9743**	**919.9743**	**0.2864**		**927.1355**

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	0.0000
Vendor	1.3300e-003	0.0239	0.0186	4.0000e-005	4.0000e-004	2.0000e-005	4.3000e-004	1.2000e-004	2.0000e-005	1.4000e-004		4.1400	4.1400	1.5000e-004	6.4000e-004	4.3354
Worker	0.0352	0.0128	0.1369	9.0000e-005	4.6300e-003	1.6000e-004	4.7800e-003	1.2700e-003	1.5000e-004	1.4100e-003		9.2896	9.2896	3.0700e-003	1.6700e-003	9.8645
Total	**0.0365**	**0.0366**	**0.1555**	**1.3000e-004**	**5.0300e-003**	**1.8000e-004**	**5.2100e-003**	**1.3900e-003**	**1.7000e-004**	**1.5500e-003**		**13.4296**	**13.4296**	**3.2200e-003**	**2.3100e-003**	**14.1999**

Spane Park Stormwater Capture Project- LST Analysis_2xwater - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.8 Restroom building construction - 2024

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	0.5193	5.2823	4.3152	9.6900e-003		0.2203	0.2203		0.2038	0.2038	0.0000	919.9743	919.9743	0.2864		927.1355
Total	**0.5193**	**5.2823**	**4.3152**	**9.6900e-003**		**0.2203**	**0.2203**		**0.2038**	**0.2038**	**0.0000**	**919.9743**	**919.9743**	**0.2864**		**927.1355**

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	0.0000
Vendor	1.3300e-003	0.0239	0.0186	4.0000e-005	4.0000e-004	2.0000e-005	4.3000e-004	1.2000e-004	2.0000e-005	1.4000e-004		4.1400	4.1400	1.5000e-004	6.4000e-004	4.3354
Worker	0.0352	0.0128	0.1369	9.0000e-005	4.6300e-003	1.6000e-004	4.7800e-003	1.2700e-003	1.5000e-004	1.4100e-003		9.2896	9.2896	3.0700e-003	1.6700e-003	9.8645
Total	**0.0365**	**0.0366**	**0.1555**	**1.3000e-004**	**5.0300e-003**	**1.8000e-004**	**5.2100e-003**	**1.3900e-003**	**1.7000e-004**	**1.5500e-003**		**13.4296**	**13.4296**	**3.2200e-003**	**2.3100e-003**	**14.1999**

Spane Park Stormwater Capture Project- LST Analysis_2xwater - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.9 Basketball court construction - 2024

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	0.6368	6.0186	4.9319	0.0111		0.2489	0.2489		0.2324	0.2324		1,021.0070	1,021.0070	0.2969		1,028.4303
Total	**0.6368**	**6.0186**	**4.9319**	**0.0111**		**0.2489**	**0.2489**		**0.2324**	**0.2324**		**1,021.0070**	**1,021.0070**	**0.2969**		**1,028.4303**

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	0.0000
Vendor	1.3300e-003	0.0239	0.0186	4.0000e-005	4.0000e-004	2.0000e-005	4.3000e-004	1.2000e-004	2.0000e-005	1.4000e-004		4.1400	4.1400	1.5000e-004	6.4000e-004	4.3354
Worker	0.0117	4.2500e-003	0.0456	3.0000e-005	1.5400e-003	5.0000e-005	1.5900e-003	4.2000e-004	5.0000e-005	4.7000e-004		3.0965	3.0965	1.0200e-003	5.6000e-004	3.2882
Total	**0.0131**	**0.0281**	**0.0643**	**7.0000e-005**	**1.9400e-003**	**7.0000e-005**	**2.0200e-003**	**5.4000e-004**	**7.0000e-005**	**6.1000e-004**		**7.2366**	**7.2366**	**1.1700e-003**	**1.2000e-003**	**7.6236**

Spane Park Stormwater Capture Project- LST Analysis_2xwater - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.9 Basketball court construction - 2024

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	0.6368	6.0186	4.9319	0.0111		0.2489	0.2489		0.2324	0.2324	0.0000	1,021.0070	1,021.0070	0.2969		1,028.4303
Total	**0.6368**	**6.0186**	**4.9319**	**0.0111**		**0.2489**	**0.2489**		**0.2324**	**0.2324**	**0.0000**	**1,021.0070**	**1,021.0070**	**0.2969**		**1,028.4303**

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	0.0000
Vendor	1.3300e-003	0.0239	0.0186	4.0000e-005	4.0000e-004	2.0000e-005	4.3000e-004	1.2000e-004	2.0000e-005	1.4000e-004		4.1400	4.1400	1.5000e-004	6.4000e-004	4.3354
Worker	0.0117	4.2500e-003	0.0456	3.0000e-005	1.5400e-003	5.0000e-005	1.5900e-003	4.2000e-004	5.0000e-005	4.7000e-004		3.0965	3.0965	1.0200e-003	5.6000e-004	3.2882
Total	**0.0131**	**0.0281**	**0.0643**	**7.0000e-005**	**1.9400e-003**	**7.0000e-005**	**2.0200e-003**	**5.4000e-004**	**7.0000e-005**	**6.1000e-004**		**7.2366**	**7.2366**	**1.1700e-003**	**1.2000e-003**	**7.6236**

Spane Park Stormwater Capture Project- LST Analysis_2xwater - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.10 Concrete pathway improvements - 2024

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	0.0588	0.3682	0.3084	7.1000e-004		0.0143	0.0143		0.0143	0.0143		50.5163	50.5163	5.2400e-003		50.6474
Paving	0.1123					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.1711**	**0.3682**	**0.3084**	**7.1000e-004**		**0.0143**	**0.0143**		**0.0143**	**0.0143**		**50.5163**	**50.5163**	**5.2400e-003**		**50.6474**

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	0.0000
Vendor	1.3300e-003	0.0239	0.0186	4.0000e-005	4.0000e-004	2.0000e-005	4.3000e-004	1.2000e-004	2.0000e-005	1.4000e-004		4.1400	4.1400	1.5000e-004	6.4000e-004	4.3354
Worker	0.0117	4.2500e-003	0.0456	3.0000e-005	1.5400e-003	5.0000e-005	1.5900e-003	4.2000e-004	5.0000e-005	4.7000e-004		3.0965	3.0965	1.0200e-003	5.6000e-004	3.2882
Total	**0.0131**	**0.0281**	**0.0643**	**7.0000e-005**	**1.9400e-003**	**7.0000e-005**	**2.0200e-003**	**5.4000e-004**	**7.0000e-005**	**6.1000e-004**		**7.2366**	**7.2366**	**1.1700e-003**	**1.2000e-003**	**7.6236**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.10 Concrete pathway improvements - 2024

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	0.0588	0.3682	0.3084	7.1000e-004		0.0143	0.0143		0.0143	0.0143	0.0000	50.5163	50.5163	5.2400e-003		50.6474
Paving	0.1123					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.1711**	**0.3682**	**0.3084**	**7.1000e-004**		**0.0143**	**0.0143**		**0.0143**	**0.0143**	**0.0000**	**50.5163**	**50.5163**	**5.2400e-003**		**50.6474**

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	0.0000
Vendor	1.3300e-003	0.0239	0.0186	4.0000e-005	4.0000e-004	2.0000e-005	4.3000e-004	1.2000e-004	2.0000e-005	1.4000e-004		4.1400	4.1400	1.5000e-004	6.4000e-004	4.3354
Worker	0.0117	4.2500e-003	0.0456	3.0000e-005	1.5400e-003	5.0000e-005	1.5900e-003	4.2000e-004	5.0000e-005	4.7000e-004		3.0965	3.0965	1.0200e-003	5.6000e-004	3.2882
Total	**0.0131**	**0.0281**	**0.0643**	**7.0000e-005**	**1.9400e-003**	**7.0000e-005**	**2.0200e-003**	**5.4000e-004**	**7.0000e-005**	**6.1000e-004**		**7.2366**	**7.2366**	**1.1700e-003**	**1.2000e-003**	**7.6236**

Spane Park Stormwater Capture Project- LST Analysis_2xwater - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.11 Pond and stream revitilization - 2024

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	0.5470	5.5825	4.6069	0.0101		0.2377	0.2377		0.2198	0.2198		957.9217	957.9217	0.2987		965.3897
Paving	0.0575					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.6045**	**5.5825**	**4.6069**	**0.0101**		**0.2377**	**0.2377**		**0.2198**	**0.2198**		**957.9217**	**957.9217**	**0.2987**		**965.3897**

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	0.0000
Vendor	1.3300e-003	0.0239	0.0186	4.0000e-005	4.0000e-004	2.0000e-005	4.3000e-004	1.2000e-004	2.0000e-005	1.4000e-004		4.1400	4.1400	1.5000e-004	6.4000e-004	4.3354
Worker	0.0234	8.5100e-003	0.0913	6.0000e-005	3.0800e-003	1.1000e-004	3.1900e-003	8.4000e-004	1.0000e-004	9.4000e-004		6.1931	6.1931	2.0500e-003	1.1100e-003	6.5763
Total	**0.0248**	**0.0324**	**0.1099**	**1.0000e-004**	**3.4800e-003**	**1.3000e-004**	**3.6200e-003**	**9.6000e-004**	**1.2000e-004**	**1.0800e-003**		**10.3331**	**10.3331**	**2.2000e-003**	**1.7500e-003**	**10.9117**

Spane Park Stormwater Capture Project- LST Analysis_2xwater - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.11 Pond and stream revitilization - 2024

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	0.5470	5.5825	4.6069	0.0101		0.2377	0.2377		0.2198	0.2198	0.0000	957.9217	957.9217	0.2987		965.3897
Paving	0.0575					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.6045**	**5.5825**	**4.6069**	**0.0101**		**0.2377**	**0.2377**		**0.2198**	**0.2198**	**0.0000**	**957.9217**	**957.9217**	**0.2987**		**965.3897**

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	0.0000
Vendor	1.3300e-003	0.0239	0.0186	4.0000e-005	4.0000e-004	2.0000e-005	4.3000e-004	1.2000e-004	2.0000e-005	1.4000e-004		4.1400	4.1400	1.5000e-004	6.4000e-004	4.3354
Worker	0.0234	8.5100e-003	0.0913	6.0000e-005	3.0800e-003	1.1000e-004	3.1900e-003	8.4000e-004	1.0000e-004	9.4000e-004		6.1931	6.1931	2.0500e-003	1.1100e-003	6.5763
Total	**0.0248**	**0.0324**	**0.1099**	**1.0000e-004**	**3.4800e-003**	**1.3000e-004**	**3.6200e-003**	**9.6000e-004**	**1.2000e-004**	**1.0800e-003**		**10.3331**	**10.3331**	**2.2000e-003**	**1.7500e-003**	**10.9117**

Spane Park Stormwater Capture Project- LST Analysis_2xwater - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.12 Ancillary park improvements - 2024

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	0.5470	5.5825	4.6069	0.0101		0.2377	0.2377		0.2198	0.2198		957.9217	957.9217	0.2987		965.3897
Paving	0.0575					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.6045**	**5.5825**	**4.6069**	**0.0101**		**0.2377**	**0.2377**		**0.2198**	**0.2198**		**957.9217**	**957.9217**	**0.2987**		**965.3897**

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	0.0000
Vendor	1.3300e-003	0.0239	0.0186	4.0000e-005	4.0000e-004	2.0000e-005	4.3000e-004	1.2000e-004	2.0000e-005	1.4000e-004		4.1400	4.1400	1.5000e-004	6.4000e-004	4.3354
Worker	0.0117	4.2500e-003	0.0456	3.0000e-005	1.5400e-003	5.0000e-005	1.5900e-003	4.2000e-004	5.0000e-005	4.7000e-004		3.0965	3.0965	1.0200e-003	5.6000e-004	3.2882
Total	**0.0131**	**0.0281**	**0.0643**	**7.0000e-005**	**1.9400e-003**	**7.0000e-005**	**2.0200e-003**	**5.4000e-004**	**7.0000e-005**	**6.1000e-004**		**7.2366**	**7.2366**	**1.1700e-003**	**1.2000e-003**	**7.6236**

Spane Park Stormwater Capture Project- LST Analysis_2xwater - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.12 Ancillary park improvements - 2024

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	0.5470	5.5825	4.6069	0.0101		0.2377	0.2377		0.2198	0.2198	0.0000	957.9217	957.9217	0.2987		965.3897
Paving	0.0575					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.6045**	**5.5825**	**4.6069**	**0.0101**		**0.2377**	**0.2377**		**0.2198**	**0.2198**	**0.0000**	**957.9217**	**957.9217**	**0.2987**		**965.3897**

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	0.0000
Vendor	1.3300e-003	0.0239	0.0186	4.0000e-005	4.0000e-004	2.0000e-005	4.3000e-004	1.2000e-004	2.0000e-005	1.4000e-004		4.1400	4.1400	1.5000e-004	6.4000e-004	4.3354
Worker	0.0117	4.2500e-003	0.0456	3.0000e-005	1.5400e-003	5.0000e-005	1.5900e-003	4.2000e-004	5.0000e-005	4.7000e-004		3.0965	3.0965	1.0200e-003	5.6000e-004	3.2882
Total	**0.0131**	**0.0281**	**0.0643**	**7.0000e-005**	**1.9400e-003**	**7.0000e-005**	**2.0200e-003**	**5.4000e-004**	**7.0000e-005**	**6.1000e-004**		**7.2366**	**7.2366**	**1.1700e-003**	**1.2000e-003**	**7.6236**

Spane Park Stormwater Capture Project- LST Analysis_2xwater - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.12 Ancillary park improvements - 2025

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	0.5178	5.1467	4.5578	0.0101		0.2168	0.2168		0.2006	0.2006		957.8483	957.8483	0.2987		965.3157
Paving	0.0575					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.5753**	**5.1467**	**4.5578**	**0.0101**		**0.2168**	**0.2168**		**0.2006**	**0.2006**		**957.8483**	**957.8483**	**0.2987**		**965.3157**

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	0.0000
Vendor	1.3200e-003	0.0238	0.0184	4.0000e-005	4.0000e-004	2.0000e-005	4.3000e-004	1.2000e-004	2.0000e-005	1.4000e-004		4.0669	4.0669	1.5000e-004	6.3000e-004	4.2589
Worker	0.0109	3.9400e-003	0.0436	3.0000e-005	1.5400e-003	5.0000e-005	1.5900e-003	4.2000e-004	5.0000e-005	4.7000e-004		2.9916	2.9916	9.4000e-004	5.3000e-004	3.1728
Total	**0.0122**	**0.0277**	**0.0620**	**7.0000e-005**	**1.9400e-003**	**7.0000e-005**	**2.0200e-003**	**5.4000e-004**	**7.0000e-005**	**6.1000e-004**		**7.0584**	**7.0584**	**1.0900e-003**	**1.1600e-003**	**7.4317**

Spane Park Stormwater Capture Project- LST Analysis_2xwater - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.12 Ancillary park improvements - 2025

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	0.5178	5.1467	4.5578	0.0101		0.2168	0.2168		0.2006	0.2006	0.0000	957.8483	957.8483	0.2987		965.3157
Paving	0.0575					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.5753**	**5.1467**	**4.5578**	**0.0101**		**0.2168**	**0.2168**		**0.2006**	**0.2006**	**0.0000**	**957.8483**	**957.8483**	**0.2987**		**965.3157**

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	0.0000
Vendor	1.3200e-003	0.0238	0.0184	4.0000e-005	4.0000e-004	2.0000e-005	4.3000e-004	1.2000e-004	2.0000e-005	1.4000e-004		4.0669	4.0669	1.5000e-004	6.3000e-004	4.2589
Worker	0.0109	3.9400e-003	0.0436	3.0000e-005	1.5400e-003	5.0000e-005	1.5900e-003	4.2000e-004	5.0000e-005	4.7000e-004		2.9916	2.9916	9.4000e-004	5.3000e-004	3.1728
Total	**0.0122**	**0.0277**	**0.0620**	**7.0000e-005**	**1.9400e-003**	**7.0000e-005**	**2.0200e-003**	**5.4000e-004**	**7.0000e-005**	**6.1000e-004**		**7.0584**	**7.0584**	**1.0900e-003**	**1.1600e-003**	**7.4317**

Spane Park Stormwater Capture Project- LST Analysis_2xwater - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.13 Parking reconstruction - 2024

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	0.4317	4.3439	6.3380	9.8900e-003		0.1983	0.1983		0.1833	0.1833		944.3545	944.3545	0.2979		951.8008
Paving	0.0761					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.5078**	**4.3439**	**6.3380**	**9.8900e-003**		**0.1983**	**0.1983**		**0.1833**	**0.1833**		**944.3545**	**944.3545**	**0.2979**		**951.8008**

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	0.0000
Vendor	1.3300e-003	0.0239	0.0186	4.0000e-005	4.0000e-004	2.0000e-005	4.3000e-004	1.2000e-004	2.0000e-005	1.4000e-004		4.1400	4.1400	1.5000e-004	6.4000e-004	4.3354
Worker	0.0469	0.0170	0.1826	1.2000e-004	6.1700e-003	2.1000e-004	6.3800e-003	1.6900e-003	1.9000e-004	1.8800e-003		12.3861	12.3861	4.1000e-003	2.2300e-003	13.1526
Total	**0.0482**	**0.0409**	**0.2012**	**1.6000e-004**	**6.5700e-003**	**2.3000e-004**	**6.8100e-003**	**1.8100e-003**	**2.1000e-004**	**2.0200e-003**		**16.5261**	**16.5261**	**4.2500e-003**	**2.8700e-003**	**17.4881**

Spane Park Stormwater Capture Project- LST Analysis_2xwater - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.13 Parking reconstruction - 2024

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	0.4317	4.3439	6.3380	9.8900e-003		0.1983	0.1983		0.1833	0.1833	0.0000	944.3545	944.3545	0.2979		951.8008
Paving	0.0761					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.5078**	**4.3439**	**6.3380**	**9.8900e-003**		**0.1983**	**0.1983**		**0.1833**	**0.1833**	**0.0000**	**944.3545**	**944.3545**	**0.2979**		**951.8008**

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	0.0000
Vendor	1.3300e-003	0.0239	0.0186	4.0000e-005	4.0000e-004	2.0000e-005	4.3000e-004	1.2000e-004	2.0000e-005	1.4000e-004		4.1400	4.1400	1.5000e-004	6.4000e-004	4.3354
Worker	0.0469	0.0170	0.1826	1.2000e-004	6.1700e-003	2.1000e-004	6.3800e-003	1.6900e-003	1.9000e-004	1.8800e-003		12.3861	12.3861	4.1000e-003	2.2300e-003	13.1526
Total	**0.0482**	**0.0409**	**0.2012**	**1.6000e-004**	**6.5700e-003**	**2.3000e-004**	**6.8100e-003**	**1.8100e-003**	**2.1000e-004**	**2.0200e-003**		**16.5261**	**16.5261**	**4.2500e-003**	**2.8700e-003**	**17.4881**

Spane Park Stormwater Capture Project- LST Analysis_2xwater - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.13 Parking reconstruction - 2025

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	0.4102	4.0695	6.3322	9.8800e-003		0.1805	0.1805		0.1669	0.1669		944.0095	944.0095	0.2977		951.4530
Paving	0.0761					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.4862**	**4.0695**	**6.3322**	**9.8800e-003**		**0.1805**	**0.1805**		**0.1669**	**0.1669**		**944.0095**	**944.0095**	**0.2977**		**951.4530**

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	0.0000
Vendor	1.3200e-003	0.0238	0.0184	4.0000e-005	4.0000e-004	2.0000e-005	4.3000e-004	1.2000e-004	2.0000e-005	1.4000e-004		4.0669	4.0669	1.5000e-004	6.3000e-004	4.2589
Worker	0.0435	0.0158	0.1743	1.2000e-004	6.1700e-003	2.0000e-004	6.3700e-003	1.6900e-003	1.9000e-004	1.8700e-003		11.9662	11.9662	3.7700e-003	2.1200e-003	12.6911
Total	**0.0448**	**0.0395**	**0.1927**	**1.6000e-004**	**6.5700e-003**	**2.2000e-004**	**6.8000e-003**	**1.8100e-003**	**2.1000e-004**	**2.0100e-003**		**16.0331**	**16.0331**	**3.9200e-003**	**2.7500e-003**	**16.9501**

Spane Park Stormwater Capture Project- LST Analysis_2xwater - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.13 Parking reconstruction - 2025

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	0.4102	4.0695	6.3322	9.8800e-003		0.1805	0.1805		0.1669	0.1669	0.0000	944.0095	944.0095	0.2977		951.4530
Paving	0.0761					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.4862**	**4.0695**	**6.3322**	**9.8800e-003**		**0.1805**	**0.1805**		**0.1669**	**0.1669**	**0.0000**	**944.0095**	**944.0095**	**0.2977**		**951.4530**

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	0.0000
Vendor	1.3200e-003	0.0238	0.0184	4.0000e-005	4.0000e-004	2.0000e-005	4.3000e-004	1.2000e-004	2.0000e-005	1.4000e-004		4.0669	4.0669	1.5000e-004	6.3000e-004	4.2589
Worker	0.0435	0.0158	0.1743	1.2000e-004	6.1700e-003	2.0000e-004	6.3700e-003	1.6900e-003	1.9000e-004	1.8700e-003		11.9662	11.9662	3.7700e-003	2.1200e-003	12.6911
Total	**0.0448**	**0.0395**	**0.1927**	**1.6000e-004**	**6.5700e-003**	**2.2000e-004**	**6.8000e-003**	**1.8100e-003**	**2.1000e-004**	**2.0100e-003**		**16.0331**	**16.0331**	**3.9200e-003**	**2.7500e-003**	**16.9501**

Spane Park Stormwater Capture Project- LST Analysis_2xwater - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	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

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Parking Lot	0.00	0.00	0.00		
User Defined Industrial	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
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
User Defined Industrial	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Parking Lot	0.540171	0.064547	0.189075	0.126673	0.023412	0.006384	0.010926	0.008089	0.000929	0.000597	0.025155	0.000706	0.003335
User Defined Industrial	0.540171	0.064547	0.189075	0.126673	0.023412	0.006384	0.010926	0.008089	0.000929	0.000597	0.025155	0.000706	0.003335

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

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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					
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
User Defined Industrial	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**

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					
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
User Defined Industrial	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

Spane Park Stormwater Capture Project- LST Analysis_2xwater - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	2.6651	1.5000e-004	0.0160	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0345	0.0345	9.0000e-005		0.0367
Unmitigated	2.6651	1.5000e-004	0.0160	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0345	0.0345	9.0000e-005		0.0367

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	0.3039					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.3598					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.4800e-003	1.5000e-004	0.0160	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0345	0.0345	9.0000e-005		0.0367
Total	**2.6652**	**1.5000e-004**	**0.0160**	**0.0000**		**6.0000e-005**	**6.0000e-005**		**6.0000e-005**	**6.0000e-005**		**0.0345**	**0.0345**	**9.0000e-005**		**0.0367**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	0.3039					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.3598					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.4800e-003	1.5000e-004	0.0160	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0345	0.0345	9.0000e-005		0.0367
Total	**2.6652**	**1.5000e-004**	**0.0160**	**0.0000**		**6.0000e-005**	**6.0000e-005**		**6.0000e-005**	**6.0000e-005**		**0.0345**	**0.0345**	**9.0000e-005**		**0.0367**

7.0 Water Detail

7.1 Mitigation Measures Water

Spane Park Stormwater Capture Project- LST Analysis_2xwater - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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

Spane Park Stormwater Capture Project- LST Analysis_2xwater - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Spane Park Stormwater Capture Project- LST Analysis_2xwater

Los Angeles-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Industrial	118.48	User Defined Unit	2.72	118,483.00	0
Parking Lot	39.00	1000sqft	0.90	39,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	9			**Operational Year**	2025
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - 2.72 acre area disturbed. 39,000 SF paved. Provided by applicant

Construction Phase - Construction schedule provided by applicant.

Off-road Equipment - Equipment provided by project applicant.

Off-road Equipment - Equipment provided by project applicant.

Off-road Equipment - Equipment provided by project applicant.

Off-road Equipment - Equipment provided by project applicant.

Off-road Equipment - Equipment provided by project applicant.

Off-road Equipment - Equipment provided by project applicant.

Off-road Equipment - Equipment provided by project applicant.

Off-road Equipment - Equipment provided by project applicant.

Spane Park Stormwater Capture Project- LST Analysis_2xwater - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Off-road Equipment - Equipment provided by project applicant.

Off-road Equipment - Equipment provided by project applicant.

Off-road Equipment - Equipment provided by project applicant.

Off-road Equipment - Equipment provided by project applicant.

Trips and VMT - Trips provided by applicant. For LST analysis- only concerned with localized emissions (i.e., within 1,000 ft of the project site).

Demolition - Data provided by applicant.

Grading - Data provided by project applicant.

Vehicle Trips - Construction only.

Vehicle Emission Factors - Construction only.

Road Dust - Construction only.

Woodstoves - Construction only.

Consumer Products - Construction only.

Area Coating - Construction only.

Landscape Equipment - Construction only.

Energy Use - Construction only.

Water And Wastewater - Construction only.

Solid Waste - Construction only.

Construction Off-road Equipment Mitigation - Compliance with SCAQMD Rule 403- water twice daily.

Fleet Mix - Construction only.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	230.00	76.00
tblConstructionPhase	NumDays	230.00	21.00
tblConstructionPhase	NumDays	230.00	51.00
tblConstructionPhase	NumDays	230.00	21.00
tblConstructionPhase	NumDays	20.00	21.00
tblConstructionPhase	NumDays	8.00	51.00
tblConstructionPhase	NumDays	18.00	41.00
tblConstructionPhase	NumDays	18.00	41.00

Spane Park Stormwater Capture Project- LST Analysis_2xwater - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblConstructionPhase	NumDays	18.00	31.00
tblConstructionPhase	NumDays	18.00	21.00
tblConstructionPhase	NumDays	5.00	41.00
tblEnergyUse	LightingElect	0.35	0.00
tblGrading	AcresOfGrading	25.50	8.00
tblGrading	AcresOfGrading	41.00	7.50
tblGrading	MaterialExported	0.00	18,000.00
tblGrading	MaterialExported	0.00	1,800.00
tblLandUse	LandUseSquareFeet	0.00	118,483.00
tblLandUse	LotAcreage	0.00	2.72
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripNumber	25.00	26.00
tblTripsAndVMT	HaulingTripNumber	225.00	226.00
tblTripsAndVMT	HaulingTripNumber	0.00	20.00
tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	26.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblTripsAndVMT	VendorTripNumber	26.00	2.00
tblTripsAndVMT	VendorTripNumber	26.00	2.00
tblTripsAndVMT	VendorTripNumber	26.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripLength	14.70	0.19
tblTripsAndVMT	WorkerTripLength	14.70	0.19
tblTripsAndVMT	WorkerTripLength	14.70	0.19
tblTripsAndVMT	WorkerTripLength	14.70	0.19
tblTripsAndVMT	WorkerTripLength	14.70	0.19
tblTripsAndVMT	WorkerTripLength	14.70	0.19
tblTripsAndVMT	WorkerTripLength	14.70	0.19
tblTripsAndVMT	WorkerTripLength	14.70	0.19
tblTripsAndVMT	WorkerTripLength	14.70	0.19
tblTripsAndVMT	WorkerTripLength	14.70	0.19
tblTripsAndVMT	WorkerTripLength	14.70	0.19
tblTripsAndVMT	WorkerTripNumber	10.00	20.00
tblTripsAndVMT	WorkerTripNumber	10.00	40.00
tblTripsAndVMT	WorkerTripNumber	8.00	20.00
tblTripsAndVMT	WorkerTripNumber	8.00	20.00
tblTripsAndVMT	WorkerTripNumber	66.00	20.00
tblTripsAndVMT	WorkerTripNumber	8.00	24.00
tblTripsAndVMT	WorkerTripNumber	66.00	16.00
tblTripsAndVMT	WorkerTripNumber	66.00	30.00
tblTripsAndVMT	WorkerTripNumber	66.00	10.00
tblTripsAndVMT	WorkerTripNumber	3.00	10.00

2.0 Emissions Summary

Spane Park Stormwater Capture Project- LST Analysis_2xwater - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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					
2023	2.3733	23.7732	15.2638	0.0352	12.4649	1.0058	13.3930	6.6705	0.9376	7.5244	0.0000	3,392.2991	3,392.2991	0.9797	0.0295	3,416.8140
2024	1.8750	19.0298	12.3233	0.0278	8.5100e-003	0.8848	0.8925	2.3500e-003	0.8140	0.8161	0.0000	2,696.2138	2,696.2138	0.8699	4.2700e-003	2,719.2088
2025	1.1153	9.2884	11.1835	0.0202	8.5100e-003	0.3976	0.4062	2.3500e-003	0.3678	0.3701	0.0000	1,924.6751	1,924.6751	0.6021	4.1000e-003	1,940.9507
Maximum	**2.3733**	**23.7732**	**15.2638**	**0.0352**	**12.4649**	**1.0058**	**13.3930**	**6.6705**	**0.9376**	**7.5244**	**0.0000**	**3,392.2991**	**3,392.2991**	**0.9797**	**0.0295**	**3,416.8140**

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					
2023	2.3733	23.7732	15.2638	0.0352	5.6177	1.0058	6.5458	3.0041	0.9376	3.8580	0.0000	3,392.2991	3,392.2991	0.9797	0.0295	3,416.8140
2024	1.8750	19.0298	12.3233	0.0278	8.5100e-003	0.8848	0.8925	2.3500e-003	0.8140	0.8161	0.0000	2,696.2138	2,696.2138	0.8699	4.2700e-003	2,719.2088
2025	1.1153	9.2884	11.1835	0.0202	8.5100e-003	0.3976	0.4062	2.3500e-003	0.3678	0.3701	0.0000	1,924.6751	1,924.6751	0.6021	4.1000e-003	1,940.9507
Maximum	**2.3733**	**23.7732**	**15.2638**	**0.0352**	**5.6177**	**1.0058**	**6.5458**	**3.0041**	**0.9376**	**3.8580**	**0.0000**	**3,392.2991**	**3,392.2991**	**0.9797**	**0.0295**	**3,416.8140**

Spane Park Stormwater Capture Project- LST Analysis_2xwater - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	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	54.86	0.00	46.61	54.93	0.00	42.09	0.00	0.00	0.00	0.00	0.00	0.00

Spane Park Stormwater Capture Project- LST Analysis_2xwater - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	2.6651	1.5000e-004	0.0160	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0345	0.0345	9.0000e-005		0.0367
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	0.0000
Total	**2.6651**	**1.5000e-004**	**0.0160**	**0.0000**	**0.0000**	**6.0000e-005**	**6.0000e-005**	**0.0000**	**6.0000e-005**	**6.0000e-005**		**0.0345**	**0.0345**	**9.0000e-005**	**0.0000**	**0.0367**

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	2.6651	1.5000e-004	0.0160	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0345	0.0345	9.0000e-005		0.0367
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	0.0000
Total	**2.6651**	**1.5000e-004**	**0.0160**	**0.0000**	**0.0000**	**6.0000e-005**	**6.0000e-005**	**0.0000**	**6.0000e-005**	**6.0000e-005**		**0.0345**	**0.0345**	**9.0000e-005**	**0.0000**	**0.0367**

Spane Park Stormwater Capture Project- LST Analysis_2xwater - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	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	Demolition of existing basketball courts and restroom building	Demolition	8/1/2023	8/29/2023	5	21	
2	Site mobilization, clearing, grubbing, and vegetation removal	Site Preparation	8/1/2023	9/26/2023	5	41	
3	Reservoir excavation	Grading	9/25/2023	12/4/2023	5	51	
4	Reservoir construction	Building Construction	12/11/2023	3/25/2024	5	76	
5	Pipeline, diversion structure, and treatment facility/pump installation	Trenching	2/5/2024	4/1/2024	5	41	
6	Field surface replacement	Building Construction	4/1/2024	4/29/2024	5	21	
7	Restroom building construction	Building Construction	5/6/2024	7/15/2024	5	51	
8	Basketball court construction	Building Construction	7/22/2024	8/19/2024	5	21	
9	Concrete pathway improvements	Paving	8/26/2024	9/23/2024	5	21	
10	Pond and stream revitilization	Paving	9/23/2024	11/18/2024	5	41	
11	Ancillary park improvements	Paving	11/11/2024	1/6/2025	5	41	
12	Parking reconstruction	Paving	12/9/2024	1/20/2025	5	31	

Acres of Grading (Site Preparation Phase): 7.5

Acres of Grading (Grading Phase): 8

Acres of Paving: 0.9

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

OffRoad Equipment

Spane Park Stormwater Capture Project- LST Analysis_2xwater - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition of existing basketball courts and restroom building	Crushing/Proc. Equipment	1	8.00	85	0.78
Demolition of existing basketball courts and restroom building	Rubber Tired Dozers	1	8.00	247	0.40
Demolition of existing basketball courts and restroom building	Skid Steer Loaders	1	8.00	65	0.37
Site mobilization, clearing, grubbing, and vegetation removal	Graders	1	8.00	187	0.41
Site mobilization, clearing, grubbing, and vegetation removal	Rubber Tired Dozers	1	8.00	247	0.40
Site mobilization, clearing, grubbing, and vegetation removal	Skid Steer Loaders	1	8.00	65	0.37
Reservoir excavation	Rubber Tired Dozers	1	8.00	247	0.40
Reservoir excavation	Skid Steer Loaders	1	8.00	65	0.37
Reservoir excavation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Reservoir construction	Cranes	1	8.00	231	0.29
Reservoir construction	Rubber Tired Dozers	1	8.00	247	0.40
Reservoir construction	Skid Steer Loaders	1	8.00	65	0.37
Pipeline, diversion structure, and treatment facility/pump installation	Cranes	1	8.00	231	0.29
Pipeline, diversion structure, and treatment facility/pump installation	Skid Steer Loaders	1	8.00	65	0.37
Pipeline, diversion structure, and treatment facility/pump installation	Trenchers	1	8.00	78	0.50
Field surface replacement	Dumpers/Tenders	1	8.00	16	0.38
Field surface replacement	Graders	1	8.00	187	0.41
Field surface replacement	Skid Steer Loaders	1	8.00	65	0.37
Field surface replacement	Sweepers/Scrubbers	1	8.00	64	0.46
Restroom building construction	Aerial Lifts	1	8.00	63	0.31
Restroom building construction	Cement and Mortar Mixers	1	8.00	9	0.56
Restroom building construction	Cranes	1	8.00	231	0.29
Restroom building construction	Forklifts	1	8.00	89	0.20
Basketball court construction	Aerial Lifts	1	8.00	63	0.31
Basketball court construction	Cement and Mortar Mixers	3	8.00	9	0.56
Basketball court construction	Cranes	1	8.00	231	0.29

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Basketball court construction	Forklifts	1	8.00	89	0.20
Concrete pathway improvements	Cement and Mortar Mixers	1	8.00	9	0.56
Pond and stream revitilization	Cement and Mortar Mixers	1	8.00	9	0.56
Pond and stream revitilization	Cranes	1	8.00	231	0.29
Pond and stream revitilization	Forklifts	1	8.00	89	0.20
Pond and stream revitilization	Skid Steer Loaders	1	8.00	65	0.37
Ancillary park improvements	Cement and Mortar Mixers	1	8.00	9	0.56
Ancillary park improvements	Cranes	1	8.00	231	0.29
Ancillary park improvements	Forklifts	1	8.00	89	0.20
Ancillary park improvements	Skid Steer Loaders	1	8.00	65	0.37
Parking reconstruction	Pavers	1	8.00	130	0.42
Parking reconstruction	Plate Compactors	1	8.00	8	0.43
Parking reconstruction	Rollers	1	8.00	80	0.38
Parking reconstruction	Skid Steer Loaders	1	8.00	65	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
Demolition of existing basketball courts and r	3	8.00	0.00	26.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Site mobilization, clearing, grubbing, an	3	20.00	0.00	226.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Reservoir excavation	3	20.00	0.00	2,250.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Reservoir construction	3	20.00	2.00	0.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Pipeline, diversion structure, and treatme	3	24.00	2.00	20.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Field surface replacement	4	16.00	2.00	0.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Restroom building construction	4	30.00	2.00	0.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Basketball court construction	6	10.00	2.00	0.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Concrete pathway improvements	1	10.00	2.00	0.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Pond and stream revitilization	4	20.00	2.00	0.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT

Spane Park Stormwater Capture Project- LST Analysis_2xwater - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Ancillary park improvements	4	10.00	2.00	0.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Parking reconstruction	4	40.00	2.00	0.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Demolition of existing basketball courts and restroom building - 2023

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					0.2598	0.0000	0.2598	0.0393	0.0000	0.0393			0.0000			0.0000
Off-Road	1.2000	10.9760	8.8183	0.0176		0.5045	0.5045		0.4765	0.4765		1,692.0171	1,692.0171	0.3721		1,701.3187
Total	**1.2000**	**10.9760**	**8.8183**	**0.0176**	**0.2598**	**0.5045**	**0.7644**	**0.0393**	**0.4765**	**0.5159**		**1,692.0171**	**1,692.0171**	**0.3721**		**1,701.3187**

Spane Park Stormwater Capture Project- LST Analysis_2xwater - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Demolition of existing basketball courts and restroom building - 2023

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	1.1700e-003	0.0253	0.0193	4.0000e-005	2.3000e-004	2.0000e-005	2.6000e-004	7.0000e-005	2.0000e-005	9.0000e-005		4.2635	4.2635	1.3000e-004	6.7000e-004	4.4677
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
Worker	9.6500e-003	4.0500e-003	0.0445	2.0000e-005	1.2300e-003	4.0000e-005	1.2800e-003	3.4000e-004	4.0000e-005	3.8000e-004		2.4842	2.4842	1.0100e-003	5.0000e-004	2.6586
Total	**0.0108**	**0.0294**	**0.0638**	**6.0000e-005**	**1.4600e-003**	**6.0000e-005**	**1.5400e-003**	**4.1000e-004**	**6.0000e-005**	**4.7000e-004**		**6.7477**	**6.7477**	**1.1400e-003**	**1.1700e-003**	**7.1263**

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					0.1169	0.0000	0.1169	0.0177	0.0000	0.0177			0.0000			0.0000
Off-Road	1.2000	10.9760	8.8183	0.0176		0.5045	0.5045		0.4765	0.4765	0.0000	1,692.0171	1,692.0171	0.3721		1,701.3187
Total	**1.2000**	**10.9760**	**8.8183**	**0.0176**	**0.1169**	**0.5045**	**0.6215**	**0.0177**	**0.4765**	**0.4942**	**0.0000**	**1,692.0171**	**1,692.0171**	**0.3721**		**1,701.3187**

Spane Park Stormwater Capture Project- LST Analysis_2xwater - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Demolition of existing basketball courts and restroom building - 2023

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	1.1700e-003	0.0253	0.0193	4.0000e-005	2.3000e-004	2.0000e-005	2.6000e-004	7.0000e-005	2.0000e-005	9.0000e-005		4.2635	4.2635	1.3000e-004	6.7000e-004	4.4677
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
Worker	9.6500e-003	4.0500e-003	0.0445	2.0000e-005	1.2300e-003	4.0000e-005	1.2800e-003	3.4000e-004	4.0000e-005	3.8000e-004		2.4842	2.4842	1.0100e-003	5.0000e-004	2.6586
Total	**0.0108**	**0.0294**	**0.0638**	**6.0000e-005**	**1.4600e-003**	**6.0000e-005**	**1.5400e-003**	**4.1000e-004**	**6.0000e-005**	**4.7000e-004**		**6.7477**	**6.7477**	**1.1400e-003**	**1.1700e-003**	**7.1263**

Spane Park Stormwater Capture Project- LST Analysis_2xwater - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Site mobilization, clearing, grubbing, and vegetation removal - 2023

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					6.2210	0.0000	6.2210	3.3319	0.0000	3.3319			0.0000			0.0000
Off-Road	1.1332	12.6449	6.1844	0.0172		0.5009	0.5009		0.4609	0.4609		1,668.3421	1,668.3421	0.5396		1,681.8315
Total	**1.1332**	**12.6449**	**6.1844**	**0.0172**	**6.2210**	**0.5009**	**6.7220**	**3.3319**	**0.4609**	**3.7928**		**1,668.3421**	**1,668.3421**	**0.5396**		**1,681.8315**

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	5.2300e-003	0.1128	0.0860	1.8000e-004	1.0300e-003	1.1000e-004	1.1400e-003	2.9000e-004	1.1000e-004	4.0000e-004		18.9817	18.9817	5.8000e-004	3.0000e-003	19.8911
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
Worker	0.0241	0.0101	0.1113	6.0000e-005	3.0800e-003	1.1000e-004	3.1900e-003	8.4000e-004	1.0000e-004	9.4000e-004		6.2105	6.2105	2.5200e-003	1.2500e-003	6.6464
Total	**0.0294**	**0.1230**	**0.1973**	**2.4000e-004**	**4.1100e-003**	**2.2000e-004**	**4.3300e-003**	**1.1300e-003**	**2.1000e-004**	**1.3400e-003**		**25.1923**	**25.1923**	**3.1000e-003**	**4.2500e-003**	**26.5375**

Spane Park Stormwater Capture Project- LST Analysis_2xwater - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Site mobilization, clearing, grubbing, and vegetation removal - 2023

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					2.7995	0.0000	2.7995	1.4994	0.0000	1.4994			0.0000			0.0000
Off-Road	1.1332	12.6449	6.1844	0.0172		0.5009	0.5009		0.4609	0.4609	0.0000	1,668.3421	1,668.3421	0.5396		1,681.8315
Total	**1.1332**	**12.6449**	**6.1844**	**0.0172**	**2.7995**	**0.5009**	**3.3004**	**1.4994**	**0.4609**	**1.9602**	**0.0000**	**1,668.3421**	**1,668.3421**	**0.5396**		**1,681.8315**

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	5.2300e-003	0.1128	0.0860	1.8000e-004	1.0300e-003	1.1000e-004	1.1400e-003	2.9000e-004	1.1000e-004	4.0000e-004		18.9817	18.9817	5.8000e-004	3.0000e-003	19.8911
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
Worker	0.0241	0.0101	0.1113	6.0000e-005	3.0800e-003	1.1000e-004	3.1900e-003	8.4000e-004	1.0000e-004	9.4000e-004		6.2105	6.2105	2.5200e-003	1.2500e-003	6.6464
Total	**0.0294**	**0.1230**	**0.1973**	**2.4000e-004**	**4.1100e-003**	**2.2000e-004**	**4.3300e-003**	**1.1300e-003**	**2.1000e-004**	**1.3400e-003**		**25.1923**	**25.1923**	**3.1000e-003**	**4.2500e-003**	**26.5375**

Spane Park Stormwater Capture Project- LST Analysis_2xwater - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Reservoir excavation - 2023

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					6.2284	0.0000	6.2284	3.3342	0.0000	3.3342			0.0000			0.0000
Off-Road	0.9011	9.5275	6.7231	0.0137		0.4260	0.4260		0.3919	0.3919		1,329.0634	1,329.0634	0.4299		1,339.8096
Total	**0.9011**	**9.5275**	**6.7231**	**0.0137**	**6.2284**	**0.4260**	**6.6543**	**3.3342**	**0.3919**	**3.7261**		**1,329.0634**	**1,329.0634**	**0.4299**		**1,339.8096**

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	0.0419	0.9031	0.6885	1.4000e-003	8.2700e-003	8.9000e-004	9.1500e-003	2.3500e-003	8.5000e-004	3.2000e-003		151.9231	151.9231	4.6700e-003	0.0240	159.2010
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
Worker	0.0241	0.0101	0.1113	6.0000e-005	3.0800e-003	1.1000e-004	3.1900e-003	8.4000e-004	1.0000e-004	9.4000e-004		6.2105	6.2105	2.5200e-003	1.2500e-003	6.6464
Total	**0.0660**	**0.9132**	**0.7998**	**1.4600e-003**	**0.0114**	**1.0000e-003**	**0.0123**	**3.1900e-003**	**9.5000e-004**	**4.1400e-003**		**158.1336**	**158.1336**	**7.1900e-003**	**0.0253**	**165.8474**

Spane Park Stormwater Capture Project- LST Analysis_2xwater - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Reservoir excavation - 2023

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					2.8028	0.0000	2.8028	1.5004	0.0000	1.5004			0.0000			0.0000
Off-Road	0.9011	9.5275	6.7231	0.0137		0.4260	0.4260		0.3919	0.3919	0.0000	1,329.0634	1,329.0634	0.4299		1,339.8096
Total	**0.9011**	**9.5275**	**6.7231**	**0.0137**	**2.8028**	**0.4260**	**3.2288**	**1.5004**	**0.3919**	**1.8923**	**0.0000**	**1,329.0634**	**1,329.0634**	**0.4299**		**1,339.8096**

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	0.0419	0.9031	0.6885	1.4000e-003	8.2700e-003	8.9000e-004	9.1500e-003	2.3500e-003	8.5000e-004	3.2000e-003		151.9231	151.9231	4.6700e-003	0.0240	159.2010
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
Worker	0.0241	0.0101	0.1113	6.0000e-005	3.0800e-003	1.1000e-004	3.1900e-003	8.4000e-004	1.0000e-004	9.4000e-004		6.2105	6.2105	2.5200e-003	1.2500e-003	6.6464
Total	**0.0660**	**0.9132**	**0.7998**	**1.4600e-003**	**0.0114**	**1.0000e-003**	**0.0123**	**3.1900e-003**	**9.5000e-004**	**4.1400e-003**		**158.1336**	**158.1336**	**7.1900e-003**	**0.0253**	**165.8474**

Spane Park Stormwater Capture Project- LST Analysis_2xwater - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Reservoir construction - 2023

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	1.1012	11.8074	6.3262	0.0164		0.5095	0.5095		0.4688	0.4688		1,586.3062	1,586.3062	0.5130		1,599.1323
Total	**1.1012**	**11.8074**	**6.3262**	**0.0164**		**0.5095**	**0.5095**		**0.4688**	**0.4688**		**1,586.3062**	**1,586.3062**	**0.5130**		**1,599.1323**

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	0.0000
Vendor	1.2300e-003	0.0255	0.0199	4.0000e-005	4.0000e-004	3.0000e-005	4.3000e-004	1.2000e-004	2.0000e-005	1.5000e-004		4.2706	4.2706	1.4000e-004	6.6000e-004	4.4721
Worker	0.0241	0.0101	0.1113	6.0000e-005	3.0800e-003	1.1000e-004	3.1900e-003	8.4000e-004	1.0000e-004	9.4000e-004		6.2105	6.2105	2.5200e-003	1.2500e-003	6.6464
Total	**0.0254**	**0.0356**	**0.1312**	**1.0000e-004**	**3.4800e-003**	**1.4000e-004**	**3.6200e-003**	**9.6000e-004**	**1.2000e-004**	**1.0900e-003**		**10.4811**	**10.4811**	**2.6600e-003**	**1.9100e-003**	**11.1185**

Spane Park Stormwater Capture Project- LST Analysis_2xwater - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Reservoir construction - 2023

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	1.1012	11.8074	6.3262	0.0164		0.5095	0.5095		0.4688	0.4688	0.0000	1,586.3062	1,586.3062	0.5130		1,599.1323
Total	**1.1012**	**11.8074**	**6.3262**	**0.0164**		**0.5095**	**0.5095**		**0.4688**	**0.4688**	**0.0000**	**1,586.3062**	**1,586.3062**	**0.5130**		**1,599.1323**

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	0.0000
Vendor	1.2300e-003	0.0255	0.0199	4.0000e-005	4.0000e-004	3.0000e-005	4.3000e-004	1.2000e-004	2.0000e-005	1.5000e-004		4.2706	4.2706	1.4000e-004	6.6000e-004	4.4721
Worker	0.0241	0.0101	0.1113	6.0000e-005	3.0800e-003	1.1000e-004	3.1900e-003	8.4000e-004	1.0000e-004	9.4000e-004		6.2105	6.2105	2.5200e-003	1.2500e-003	6.6464
Total	**0.0254**	**0.0356**	**0.1312**	**1.0000e-004**	**3.4800e-003**	**1.4000e-004**	**3.6200e-003**	**9.6000e-004**	**1.2000e-004**	**1.0900e-003**		**10.4811**	**10.4811**	**2.6600e-003**	**1.9100e-003**	**11.1185**

Spane Park Stormwater Capture Project- LST Analysis_2xwater - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Reservoir construction - 2024

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	1.0891	11.4584	6.2903	0.0164		0.4935	0.4935		0.4541	0.4541		1,586.3556	1,586.3556	0.5131		1,599.1821
Total	**1.0891**	**11.4584**	**6.2903**	**0.0164**		**0.4935**	**0.4935**		**0.4541**	**0.4541**		**1,586.3556**	**1,586.3556**	**0.5131**		**1,599.1821**

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	0.0000
Vendor	1.2100e-003	0.0254	0.0196	4.0000e-005	4.0000e-004	2.0000e-005	4.3000e-004	1.2000e-004	2.0000e-005	1.5000e-004		4.2081	4.2081	1.4000e-004	6.5000e-004	4.4069
Worker	0.0222	9.3400e-003	0.1067	6.0000e-005	3.0800e-003	1.1000e-004	3.1900e-003	8.4000e-004	1.0000e-004	9.4000e-004		6.0232	6.0232	2.3200e-003	1.1900e-003	6.4353
Total	**0.0234**	**0.0347**	**0.1263**	**1.0000e-004**	**3.4800e-003**	**1.3000e-004**	**3.6200e-003**	**9.6000e-004**	**1.2000e-004**	**1.0900e-003**		**10.2314**	**10.2314**	**2.4600e-003**	**1.8400e-003**	**10.8421**

Spane Park Stormwater Capture Project- LST Analysis_2xwater - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Reservoir construction - 2024

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	1.0891	11.4584	6.2903	0.0164		0.4935	0.4935		0.4541	0.4541	0.0000	1,586.3556	1,586.3556	0.5131		1,599.1821
Total	**1.0891**	**11.4584**	**6.2903**	**0.0164**		**0.4935**	**0.4935**		**0.4541**	**0.4541**	**0.0000**	**1,586.3556**	**1,586.3556**	**0.5131**		**1,599.1821**

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	0.0000
Vendor	1.2100e-003	0.0254	0.0196	4.0000e-005	4.0000e-004	2.0000e-005	4.3000e-004	1.2000e-004	2.0000e-005	1.5000e-004		4.2081	4.2081	1.4000e-004	6.5000e-004	4.4069
Worker	0.0222	9.3400e-003	0.1067	6.0000e-005	3.0800e-003	1.1000e-004	3.1900e-003	8.4000e-004	1.0000e-004	9.4000e-004		6.0232	6.0232	2.3200e-003	1.1900e-003	6.4353
Total	**0.0234**	**0.0347**	**0.1263**	**1.0000e-004**	**3.4800e-003**	**1.3000e-004**	**3.6200e-003**	**9.6000e-004**	**1.2000e-004**	**1.0900e-003**		**10.2314**	**10.2314**	**2.4600e-003**	**1.8400e-003**	**10.8421**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Pipeline, diversion structure, and treatment facility/pump installation - 2024

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	0.7341	7.4901	5.7514	0.0112		0.3910	0.3910		0.3597	0.3597		1,086.5346	1,086.5346	0.3514		1,095.3198
Total	**0.7341**	**7.4901**	**5.7514**	**0.0112**		**0.3910**	**0.3910**		**0.3597**	**0.3597**		**1,086.5346**	**1,086.5346**	**0.3514**		**1,095.3198**

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	4.6000e-004	9.9400e-003	7.6100e-003	2.0000e-005	9.0000e-005	1.0000e-005	1.0000e-004	3.0000e-005	1.0000e-005	4.0000e-005		1.6562	1.6562	5.0000e-005	2.6000e-004	1.7356
Vendor	1.2100e-003	0.0254	0.0196	4.0000e-005	4.0000e-004	2.0000e-005	4.3000e-004	1.2000e-004	2.0000e-005	1.5000e-004		4.2081	4.2081	1.4000e-004	6.5000e-004	4.4069
Worker	0.0267	0.0112	0.1281	7.0000e-005	3.7000e-003	1.3000e-004	3.8300e-003	1.0100e-003	1.2000e-004	1.1300e-003		7.2279	7.2279	2.7800e-003	1.4300e-003	7.7223
Total	**0.0283**	**0.0465**	**0.1553**	**1.3000e-004**	**4.1900e-003**	**1.6000e-004**	**4.3600e-003**	**1.1600e-003**	**1.5000e-004**	**1.3200e-003**		**13.0922**	**13.0922**	**2.9700e-003**	**2.3400e-003**	**13.8647**

Spane Park Stormwater Capture Project- LST Analysis_2xwater - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Pipeline, diversion structure, and treatment facility/pump installation - 2024

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	0.7341	7.4901	5.7514	0.0112		0.3910	0.3910		0.3597	0.3597	0.0000	1,086.5346	1,086.5346	0.3514		1,095.3198
Total	**0.7341**	**7.4901**	**5.7514**	**0.0112**		**0.3910**	**0.3910**		**0.3597**	**0.3597**	**0.0000**	**1,086.5346**	**1,086.5346**	**0.3514**		**1,095.3198**

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	4.6000e-004	9.9400e-003	7.6100e-003	2.0000e-005	9.0000e-005	1.0000e-005	1.0000e-004	3.0000e-005	1.0000e-005	4.0000e-005		1.6562	1.6562	5.0000e-005	2.6000e-004	1.7356
Vendor	1.2100e-003	0.0254	0.0196	4.0000e-005	4.0000e-004	2.0000e-005	4.3000e-004	1.2000e-004	2.0000e-005	1.5000e-004		4.2081	4.2081	1.4000e-004	6.5000e-004	4.4069
Worker	0.0267	0.0112	0.1281	7.0000e-005	3.7000e-003	1.3000e-004	3.8300e-003	1.0100e-003	1.2000e-004	1.1300e-003		7.2279	7.2279	2.7800e-003	1.4300e-003	7.7223
Total	**0.0283**	**0.0465**	**0.1553**	**1.3000e-004**	**4.1900e-003**	**1.6000e-004**	**4.3600e-003**	**1.1600e-003**	**1.5000e-004**	**1.3200e-003**		**13.0922**	**13.0922**	**2.9700e-003**	**2.3400e-003**	**13.8647**

Spane Park Stormwater Capture Project- LST Analysis_2xwater - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Field surface replacement - 2024

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	0.6628	7.0555	5.2093	0.0120		0.2765	0.2765		0.2557	0.2557		1,148.1914	1,148.1914	0.3582		1,157.1459
Total	**0.6628**	**7.0555**	**5.2093**	**0.0120**		**0.2765**	**0.2765**		**0.2557**	**0.2557**		**1,148.1914**	**1,148.1914**	**0.3582**		**1,157.1459**

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	0.0000
Vendor	1.2100e-003	0.0254	0.0196	4.0000e-005	4.0000e-004	2.0000e-005	4.3000e-004	1.2000e-004	2.0000e-005	1.5000e-004		4.2081	4.2081	1.4000e-004	6.5000e-004	4.4069
Worker	0.0178	7.4700e-003	0.0854	5.0000e-005	2.4700e-003	8.0000e-005	2.5500e-003	6.7000e-004	8.0000e-005	7.5000e-004		4.8186	4.8186	1.8600e-003	9.5000e-004	5.1482
Total	**0.0190**	**0.0329**	**0.1050**	**9.0000e-005**	**2.8700e-003**	**1.0000e-004**	**2.9800e-003**	**7.9000e-004**	**1.0000e-004**	**9.0000e-004**		**9.0267**	**9.0267**	**2.0000e-003**	**1.6000e-003**	**9.5551**

Spane Park Stormwater Capture Project- LST Analysis_2xwater - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Field surface replacement - 2024

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	0.6628	7.0555	5.2093	0.0120		0.2765	0.2765		0.2557	0.2557	0.0000	1,148.1914	1,148.1914	0.3582		1,157.1459
Total	**0.6628**	**7.0555**	**5.2093**	**0.0120**		**0.2765**	**0.2765**		**0.2557**	**0.2557**	**0.0000**	**1,148.1914**	**1,148.1914**	**0.3582**		**1,157.1459**

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	0.0000
Vendor	1.2100e-003	0.0254	0.0196	4.0000e-005	4.0000e-004	2.0000e-005	4.3000e-004	1.2000e-004	2.0000e-005	1.5000e-004		4.2081	4.2081	1.4000e-004	6.5000e-004	4.4069
Worker	0.0178	7.4700e-003	0.0854	5.0000e-005	2.4700e-003	8.0000e-005	2.5500e-003	6.7000e-004	8.0000e-005	7.5000e-004		4.8186	4.8186	1.8600e-003	9.5000e-004	5.1482
Total	**0.0190**	**0.0329**	**0.1050**	**9.0000e-005**	**2.8700e-003**	**1.0000e-004**	**2.9800e-003**	**7.9000e-004**	**1.0000e-004**	**9.0000e-004**		**9.0267**	**9.0267**	**2.0000e-003**	**1.6000e-003**	**9.5551**

Spane Park Stormwater Capture Project- LST Analysis_2xwater - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.8 Restroom building construction - 2024

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	0.5193	5.2823	4.3152	9.6900e-003		0.2203	0.2203		0.2038	0.2038		919.9743	919.9743	0.2864		927.1355
Total	**0.5193**	**5.2823**	**4.3152**	**9.6900e-003**		**0.2203**	**0.2203**		**0.2038**	**0.2038**		**919.9743**	**919.9743**	**0.2864**		**927.1355**

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	0.0000
Vendor	1.2100e-003	0.0254	0.0196	4.0000e-005	4.0000e-004	2.0000e-005	4.3000e-004	1.2000e-004	2.0000e-005	1.5000e-004		4.2081	4.2081	1.4000e-004	6.5000e-004	4.4069
Worker	0.0333	0.0140	0.1601	9.0000e-005	4.6300e-003	1.6000e-004	4.7800e-003	1.2700e-003	1.5000e-004	1.4100e-003		9.0348	9.0348	3.4800e-003	1.7800e-003	9.6529
Total	**0.0346**	**0.0394**	**0.1797**	**1.3000e-004**	**5.0300e-003**	**1.8000e-004**	**5.2100e-003**	**1.3900e-003**	**1.7000e-004**	**1.5600e-003**		**13.2430**	**13.2430**	**3.6200e-003**	**2.4300e-003**	**14.0598**

Spane Park Stormwater Capture Project- LST Analysis_2xwater - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.8 Restroom building construction - 2024

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	0.5193	5.2823	4.3152	9.6900e-003		0.2203	0.2203		0.2038	0.2038	0.0000	919.9743	919.9743	0.2864		927.1355
Total	**0.5193**	**5.2823**	**4.3152**	**9.6900e-003**		**0.2203**	**0.2203**		**0.2038**	**0.2038**	**0.0000**	**919.9743**	**919.9743**	**0.2864**		**927.1355**

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	0.0000
Vendor	1.2100e-003	0.0254	0.0196	4.0000e-005	4.0000e-004	2.0000e-005	4.3000e-004	1.2000e-004	2.0000e-005	1.5000e-004		4.2081	4.2081	1.4000e-004	6.5000e-004	4.4069
Worker	0.0333	0.0140	0.1601	9.0000e-005	4.6300e-003	1.6000e-004	4.7800e-003	1.2700e-003	1.5000e-004	1.4100e-003		9.0348	9.0348	3.4800e-003	1.7800e-003	9.6529
Total	**0.0346**	**0.0394**	**0.1797**	**1.3000e-004**	**5.0300e-003**	**1.8000e-004**	**5.2100e-003**	**1.3900e-003**	**1.7000e-004**	**1.5600e-003**		**13.2430**	**13.2430**	**3.6200e-003**	**2.4300e-003**	**14.0598**

Spane Park Stormwater Capture Project- LST Analysis_2xwater - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.9 Basketball court construction - 2024

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	0.6368	6.0186	4.9319	0.0111		0.2489	0.2489		0.2324	0.2324		1,021.0070	1,021.0070	0.2969		1,028.4303
Total	**0.6368**	**6.0186**	**4.9319**	**0.0111**		**0.2489**	**0.2489**		**0.2324**	**0.2324**		**1,021.0070**	**1,021.0070**	**0.2969**		**1,028.4303**

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	0.0000
Vendor	1.2100e-003	0.0254	0.0196	4.0000e-005	4.0000e-004	2.0000e-005	4.3000e-004	1.2000e-004	2.0000e-005	1.5000e-004		4.2081	4.2081	1.4000e-004	6.5000e-004	4.4069
Worker	0.0111	4.6700e-003	0.0534	3.0000e-005	1.5400e-003	5.0000e-005	1.5900e-003	4.2000e-004	5.0000e-005	4.7000e-004		3.0116	3.0116	1.1600e-003	5.9000e-004	3.2176
Total	**0.0123**	**0.0301**	**0.0730**	**7.0000e-005**	**1.9400e-003**	**7.0000e-005**	**2.0200e-003**	**5.4000e-004**	**7.0000e-005**	**6.2000e-004**		**7.2197**	**7.2197**	**1.3000e-003**	**1.2400e-003**	**7.6245**

Spane Park Stormwater Capture Project- LST Analysis_2xwater - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.9 Basketball court construction - 2024

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	0.6368	6.0186	4.9319	0.0111		0.2489	0.2489		0.2324	0.2324	0.0000	1,021.0070	1,021.0070	0.2969		1,028.4303
Total	**0.6368**	**6.0186**	**4.9319**	**0.0111**		**0.2489**	**0.2489**		**0.2324**	**0.2324**	**0.0000**	**1,021.0070**	**1,021.0070**	**0.2969**		**1,028.4303**

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	0.0000
Vendor	1.2100e-003	0.0254	0.0196	4.0000e-005	4.0000e-004	2.0000e-005	4.3000e-004	1.2000e-004	2.0000e-005	1.5000e-004		4.2081	4.2081	1.4000e-004	6.5000e-004	4.4069
Worker	0.0111	4.6700e-003	0.0534	3.0000e-005	1.5400e-003	5.0000e-005	1.5900e-003	4.2000e-004	5.0000e-005	4.7000e-004		3.0116	3.0116	1.1600e-003	5.9000e-004	3.2176
Total	**0.0123**	**0.0301**	**0.0730**	**7.0000e-005**	**1.9400e-003**	**7.0000e-005**	**2.0200e-003**	**5.4000e-004**	**7.0000e-005**	**6.2000e-004**		**7.2197**	**7.2197**	**1.3000e-003**	**1.2400e-003**	**7.6245**

Spane Park Stormwater Capture Project- LST Analysis_2xwater - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.10 Concrete pathway improvements - 2024

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	0.0588	0.3682	0.3084	7.1000e-004		0.0143	0.0143		0.0143	0.0143		50.5163	50.5163	5.2400e-003		50.6474
Paving	0.1123					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.1711**	**0.3682**	**0.3084**	**7.1000e-004**		**0.0143**	**0.0143**		**0.0143**	**0.0143**		**50.5163**	**50.5163**	**5.2400e-003**		**50.6474**

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	0.0000
Vendor	1.2100e-003	0.0254	0.0196	4.0000e-005	4.0000e-004	2.0000e-005	4.3000e-004	1.2000e-004	2.0000e-005	1.5000e-004		4.2081	4.2081	1.4000e-004	6.5000e-004	4.4069
Worker	0.0111	4.6700e-003	0.0534	3.0000e-005	1.5400e-003	5.0000e-005	1.5900e-003	4.2000e-004	5.0000e-005	4.7000e-004		3.0116	3.0116	1.1600e-003	5.9000e-004	3.2176
Total	**0.0123**	**0.0301**	**0.0730**	**7.0000e-005**	**1.9400e-003**	**7.0000e-005**	**2.0200e-003**	**5.4000e-004**	**7.0000e-005**	**6.2000e-004**		**7.2197**	**7.2197**	**1.3000e-003**	**1.2400e-003**	**7.6245**

Spane Park Stormwater Capture Project- LST Analysis_2xwater - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.10 Concrete pathway improvements - 2024

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	0.0588	0.3682	0.3084	7.1000e-004		0.0143	0.0143		0.0143	0.0143	0.0000	50.5163	50.5163	5.2400e-003		50.6474
Paving	0.1123					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.1711**	**0.3682**	**0.3084**	**7.1000e-004**		**0.0143**	**0.0143**		**0.0143**	**0.0143**	**0.0000**	**50.5163**	**50.5163**	**5.2400e-003**		**50.6474**

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	0.0000
Vendor	1.2100e-003	0.0254	0.0196	4.0000e-005	4.0000e-004	2.0000e-005	4.3000e-004	1.2000e-004	2.0000e-005	1.5000e-004		4.2081	4.2081	1.4000e-004	6.5000e-004	4.4069
Worker	0.0111	4.6700e-003	0.0534	3.0000e-005	1.5400e-003	5.0000e-005	1.5900e-003	4.2000e-004	5.0000e-005	4.7000e-004		3.0116	3.0116	1.1600e-003	5.9000e-004	3.2176
Total	**0.0123**	**0.0301**	**0.0730**	**7.0000e-005**	**1.9400e-003**	**7.0000e-005**	**2.0200e-003**	**5.4000e-004**	**7.0000e-005**	**6.2000e-004**		**7.2197**	**7.2197**	**1.3000e-003**	**1.2400e-003**	**7.6245**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.11 Pond and stream revitilization - 2024

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	0.5470	5.5825	4.6069	0.0101		0.2377	0.2377		0.2198	0.2198		957.9217	957.9217	0.2987		965.3897
Paving	0.0575					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.6045**	**5.5825**	**4.6069**	**0.0101**		**0.2377**	**0.2377**		**0.2198**	**0.2198**		**957.9217**	**957.9217**	**0.2987**		**965.3897**

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	0.0000
Vendor	1.2100e-003	0.0254	0.0196	4.0000e-005	4.0000e-004	2.0000e-005	4.3000e-004	1.2000e-004	2.0000e-005	1.5000e-004		4.2081	4.2081	1.4000e-004	6.5000e-004	4.4069
Worker	0.0222	9.3400e-003	0.1067	6.0000e-005	3.0800e-003	1.1000e-004	3.1900e-003	8.4000e-004	1.0000e-004	9.4000e-004		6.0232	6.0232	2.3200e-003	1.1900e-003	6.4353
Total	**0.0234**	**0.0347**	**0.1263**	**1.0000e-004**	**3.4800e-003**	**1.3000e-004**	**3.6200e-003**	**9.6000e-004**	**1.2000e-004**	**1.0900e-003**		**10.2314**	**10.2314**	**2.4600e-003**	**1.8400e-003**	**10.8421**

Spane Park Stormwater Capture Project- LST Analysis_2xwater - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.11 Pond and stream revitilization - 2024

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	0.5470	5.5825	4.6069	0.0101		0.2377	0.2377		0.2198	0.2198	0.0000	957.9217	957.9217	0.2987		965.3897
Paving	0.0575					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.6045**	**5.5825**	**4.6069**	**0.0101**		**0.2377**	**0.2377**		**0.2198**	**0.2198**	**0.0000**	**957.9217**	**957.9217**	**0.2987**		**965.3897**

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	0.0000
Vendor	1.2100e-003	0.0254	0.0196	4.0000e-005	4.0000e-004	2.0000e-005	4.3000e-004	1.2000e-004	2.0000e-005	1.5000e-004		4.2081	4.2081	1.4000e-004	6.5000e-004	4.4069
Worker	0.0222	9.3400e-003	0.1067	6.0000e-005	3.0800e-003	1.1000e-004	3.1900e-003	8.4000e-004	1.0000e-004	9.4000e-004		6.0232	6.0232	2.3200e-003	1.1900e-003	6.4353
Total	**0.0234**	**0.0347**	**0.1263**	**1.0000e-004**	**3.4800e-003**	**1.3000e-004**	**3.6200e-003**	**9.6000e-004**	**1.2000e-004**	**1.0900e-003**		**10.2314**	**10.2314**	**2.4600e-003**	**1.8400e-003**	**10.8421**

Spane Park Stormwater Capture Project- LST Analysis_2xwater - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.12 Ancillary park improvements - 2024

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	0.5470	5.5825	4.6069	0.0101		0.2377	0.2377		0.2198	0.2198		957.9217	957.9217	0.2987		965.3897
Paving	0.0575					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.6045**	**5.5825**	**4.6069**	**0.0101**		**0.2377**	**0.2377**		**0.2198**	**0.2198**		**957.9217**	**957.9217**	**0.2987**		**965.3897**

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	0.0000
Vendor	1.2100e-003	0.0254	0.0196	4.0000e-005	4.0000e-004	2.0000e-005	4.3000e-004	1.2000e-004	2.0000e-005	1.5000e-004		4.2081	4.2081	1.4000e-004	6.5000e-004	4.4069
Worker	0.0111	4.6700e-003	0.0534	3.0000e-005	1.5400e-003	5.0000e-005	1.5900e-003	4.2000e-004	5.0000e-005	4.7000e-004		3.0116	3.0116	1.1600e-003	5.9000e-004	3.2176
Total	**0.0123**	**0.0301**	**0.0730**	**7.0000e-005**	**1.9400e-003**	**7.0000e-005**	**2.0200e-003**	**5.4000e-004**	**7.0000e-005**	**6.2000e-004**		**7.2197**	**7.2197**	**1.3000e-003**	**1.2400e-003**	**7.6245**

Spane Park Stormwater Capture Project- LST Analysis_2xwater - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.12 Ancillary park improvements - 2024

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	0.5470	5.5825	4.6069	0.0101		0.2377	0.2377		0.2198	0.2198	0.0000	957.9217	957.9217	0.2987		965.3897
Paving	0.0575					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.6045**	**5.5825**	**4.6069**	**0.0101**		**0.2377**	**0.2377**		**0.2198**	**0.2198**	**0.0000**	**957.9217**	**957.9217**	**0.2987**		**965.3897**

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	0.0000
Vendor	1.2100e-003	0.0254	0.0196	4.0000e-005	4.0000e-004	2.0000e-005	4.3000e-004	1.2000e-004	2.0000e-005	1.5000e-004		4.2081	4.2081	1.4000e-004	6.5000e-004	4.4069
Worker	0.0111	4.6700e-003	0.0534	3.0000e-005	1.5400e-003	5.0000e-005	1.5900e-003	4.2000e-004	5.0000e-005	4.7000e-004		3.0116	3.0116	1.1600e-003	5.9000e-004	3.2176
Total	**0.0123**	**0.0301**	**0.0730**	**7.0000e-005**	**1.9400e-003**	**7.0000e-005**	**2.0200e-003**	**5.4000e-004**	**7.0000e-005**	**6.2000e-004**		**7.2197**	**7.2197**	**1.3000e-003**	**1.2400e-003**	**7.6245**

Spane Park Stormwater Capture Project- LST Analysis_2xwater - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.12 Ancillary park improvements - 2025

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	0.5178	5.1467	4.5578	0.0101		0.2168	0.2168		0.2006	0.2006		957.8483	957.8483	0.2987		965.3157
Paving	0.0575					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.5753**	**5.1467**	**4.5578**	**0.0101**		**0.2168**	**0.2168**		**0.2006**	**0.2006**		**957.8483**	**957.8483**	**0.2987**		**965.3157**

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	0.0000
Vendor	1.1900e-003	0.0253	0.0194	4.0000e-005	4.0000e-004	2.0000e-005	4.3000e-004	1.2000e-004	2.0000e-005	1.5000e-004		4.1349	4.1349	1.4000e-004	6.4000e-004	4.3303
Worker	0.0103	4.3200e-003	0.0510	3.0000e-005	1.5400e-003	5.0000e-005	1.5900e-003	4.2000e-004	5.0000e-005	4.7000e-004		2.9095	2.9095	1.0700e-003	5.6000e-004	3.1043
Total	**0.0115**	**0.0296**	**0.0703**	**7.0000e-005**	**1.9400e-003**	**7.0000e-005**	**2.0200e-003**	**5.4000e-004**	**7.0000e-005**	**6.2000e-004**		**7.0444**	**7.0444**	**1.2100e-003**	**1.2000e-003**	**7.4346**

Spane Park Stormwater Capture Project- LST Analysis_2xwater - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.12 Ancillary park improvements - 2025

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	0.5178	5.1467	4.5578	0.0101		0.2168	0.2168		0.2006	0.2006	0.0000	957.8483	957.8483	0.2987		965.3157
Paving	0.0575					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.5753**	**5.1467**	**4.5578**	**0.0101**		**0.2168**	**0.2168**		**0.2006**	**0.2006**	**0.0000**	**957.8483**	**957.8483**	**0.2987**		**965.3157**

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	0.0000
Vendor	1.1900e-003	0.0253	0.0194	4.0000e-005	4.0000e-004	2.0000e-005	4.3000e-004	1.2000e-004	2.0000e-005	1.5000e-004		4.1349	4.1349	1.4000e-004	6.4000e-004	4.3303
Worker	0.0103	4.3200e-003	0.0510	3.0000e-005	1.5400e-003	5.0000e-005	1.5900e-003	4.2000e-004	5.0000e-005	4.7000e-004		2.9095	2.9095	1.0700e-003	5.6000e-004	3.1043
Total	**0.0115**	**0.0296**	**0.0703**	**7.0000e-005**	**1.9400e-003**	**7.0000e-005**	**2.0200e-003**	**5.4000e-004**	**7.0000e-005**	**6.2000e-004**		**7.0444**	**7.0444**	**1.2100e-003**	**1.2000e-003**	**7.4346**

Spane Park Stormwater Capture Project- LST Analysis_2xwater - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.13 Parking reconstruction - 2024

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	0.4317	4.3439	6.3380	9.8900e-003		0.1983	0.1983		0.1833	0.1833		944.3545	944.3545	0.2979		951.8008
Paving	0.0761					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.5078**	**4.3439**	**6.3380**	**9.8900e-003**		**0.1983**	**0.1983**		**0.1833**	**0.1833**		**944.3545**	**944.3545**	**0.2979**		**951.8008**

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	0.0000
Vendor	1.2100e-003	0.0254	0.0196	4.0000e-005	4.0000e-004	2.0000e-005	4.3000e-004	1.2000e-004	2.0000e-005	1.5000e-004		4.2081	4.2081	1.4000e-004	6.5000e-004	4.4069
Worker	0.0445	0.0187	0.2134	1.2000e-004	6.1700e-003	2.1000e-004	6.3800e-003	1.6900e-003	1.9000e-004	1.8800e-003		12.0465	12.0465	4.6400e-003	2.3800e-003	12.8706
Total	**0.0457**	**0.0441**	**0.2331**	**1.6000e-004**	**6.5700e-003**	**2.3000e-004**	**6.8100e-003**	**1.8100e-003**	**2.1000e-004**	**2.0300e-003**		**16.2546**	**16.2546**	**4.7800e-003**	**3.0300e-003**	**17.2774**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.13 Parking reconstruction - 2024

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	0.4317	4.3439	6.3380	9.8900e-003		0.1983	0.1983		0.1833	0.1833	0.0000	944.3545	944.3545	0.2979		951.8008
Paving	0.0761					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.5078**	**4.3439**	**6.3380**	**9.8900e-003**		**0.1983**	**0.1983**		**0.1833**	**0.1833**	**0.0000**	**944.3545**	**944.3545**	**0.2979**		**951.8008**

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	0.0000
Vendor	1.2100e-003	0.0254	0.0196	4.0000e-005	4.0000e-004	2.0000e-005	4.3000e-004	1.2000e-004	2.0000e-005	1.5000e-004		4.2081	4.2081	1.4000e-004	6.5000e-004	4.4069
Worker	0.0445	0.0187	0.2134	1.2000e-004	6.1700e-003	2.1000e-004	6.3800e-003	1.6900e-003	1.9000e-004	1.8800e-003		12.0465	12.0465	4.6400e-003	2.3800e-003	12.8706
Total	**0.0457**	**0.0441**	**0.2331**	**1.6000e-004**	**6.5700e-003**	**2.3000e-004**	**6.8100e-003**	**1.8100e-003**	**2.1000e-004**	**2.0300e-003**		**16.2546**	**16.2546**	**4.7800e-003**	**3.0300e-003**	**17.2774**

Spane Park Stormwater Capture Project- LST Analysis_2xwater - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.13 Parking reconstruction - 2025

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	0.4102	4.0695	6.3322	9.8800e-003		0.1805	0.1805		0.1669	0.1669		944.0095	944.0095	0.2977		951.4530
Paving	0.0761					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.4862**	**4.0695**	**6.3322**	**9.8800e-003**		**0.1805**	**0.1805**		**0.1669**	**0.1669**		**944.0095**	**944.0095**	**0.2977**		**951.4530**

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	0.0000
Vendor	1.1900e-003	0.0253	0.0194	4.0000e-005	4.0000e-004	2.0000e-005	4.3000e-004	1.2000e-004	2.0000e-005	1.5000e-004		4.1349	4.1349	1.4000e-004	6.4000e-004	4.3303
Worker	0.0411	0.0173	0.2038	1.2000e-004	6.1700e-003	2.0000e-004	6.3700e-003	1.6900e-003	1.9000e-004	1.8700e-003		11.6379	11.6379	4.2700e-003	2.2600e-003	12.4171
Total	**0.0423**	**0.0426**	**0.2232**	**1.6000e-004**	**6.5700e-003**	**2.2000e-004**	**6.8000e-003**	**1.8100e-003**	**2.1000e-004**	**2.0200e-003**		**15.7728**	**15.7728**	**4.4100e-003**	**2.9000e-003**	**16.7474**

Spane Park Stormwater Capture Project- LST Analysis_2xwater - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.13 Parking reconstruction - 2025

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	0.4102	4.0695	6.3322	9.8800e-003		0.1805	0.1805		0.1669	0.1669	0.0000	944.0095	944.0095	0.2977		951.4530
Paving	0.0761					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.4862**	**4.0695**	**6.3322**	**9.8800e-003**		**0.1805**	**0.1805**		**0.1669**	**0.1669**	**0.0000**	**944.0095**	**944.0095**	**0.2977**		**951.4530**

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	0.0000
Vendor	1.1900e-003	0.0253	0.0194	4.0000e-005	4.0000e-004	2.0000e-005	4.3000e-004	1.2000e-004	2.0000e-005	1.5000e-004		4.1349	4.1349	1.4000e-004	6.4000e-004	4.3303
Worker	0.0411	0.0173	0.2038	1.2000e-004	6.1700e-003	2.0000e-004	6.3700e-003	1.6900e-003	1.9000e-004	1.8700e-003		11.6379	11.6379	4.2700e-003	2.2600e-003	12.4171
Total	**0.0423**	**0.0426**	**0.2232**	**1.6000e-004**	**6.5700e-003**	**2.2000e-004**	**6.8000e-003**	**1.8100e-003**	**2.1000e-004**	**2.0200e-003**		**15.7728**	**15.7728**	**4.4100e-003**	**2.9000e-003**	**16.7474**

Spane Park Stormwater Capture Project- LST Analysis_2xwater - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	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

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Parking Lot	0.00	0.00	0.00		
User Defined Industrial	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
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
User Defined Industrial	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Parking Lot	0.540171	0.064547	0.189075	0.126673	0.023412	0.006384	0.010926	0.008089	0.000929	0.000597	0.025155	0.000706	0.003335
User Defined Industrial	0.540171	0.064547	0.189075	0.126673	0.023412	0.006384	0.010926	0.008089	0.000929	0.000597	0.025155	0.000706	0.003335

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

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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					
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
User Defined Industrial	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**

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					
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
User Defined Industrial	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

Spane Park Stormwater Capture Project- LST Analysis_2xwater - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	2.6651	1.5000e-004	0.0160	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0345	0.0345	9.0000e-005		0.0367
Unmitigated	2.6651	1.5000e-004	0.0160	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0345	0.0345	9.0000e-005		0.0367

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	0.3039					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.3598					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.4800e-003	1.5000e-004	0.0160	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0345	0.0345	9.0000e-005		0.0367
Total	**2.6652**	**1.5000e-004**	**0.0160**	**0.0000**		**6.0000e-005**	**6.0000e-005**		**6.0000e-005**	**6.0000e-005**		**0.0345**	**0.0345**	**9.0000e-005**		**0.0367**

Spane Park Stormwater Capture Project- LST Analysis_2xwater - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	0.3039					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.3598					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.4800e-003	1.5000e-004	0.0160	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0345	0.0345	9.0000e-005		0.0367
Total	**2.6652**	**1.5000e-004**	**0.0160**	**0.0000**		**6.0000e-005**	**6.0000e-005**		**6.0000e-005**	**6.0000e-005**		**0.0345**	**0.0345**	**9.0000e-005**		**0.0367**

7.0 Water Detail

7.1 Mitigation Measures Water

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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

Spane Park Stormwater Capture Project- LST Analysis_Mitigated - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Spane Park Stormwater Capture Project- LST Analysis_Mitigated

Los Angeles-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Industrial	118.48	User Defined Unit	2.72	118,483.00	0
Parking Lot	39.00	1000sqft	0.90	39,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	9			**Operational Year**	2025
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - 2.72 acre area disturbed. 39,000 SF paved. Provided by applicant

Construction Phase - Construction schedule provided by applicant.

Off-road Equipment - Equipment provided by project applicant.

Off-road Equipment - Equipment provided by project applicant.

Off-road Equipment - Equipment provided by project applicant.

Off-road Equipment - Equipment provided by project applicant.

Off-road Equipment - Equipment provided by project applicant.

Off-road Equipment - Equipment provided by project applicant.

Off-road Equipment - Equipment provided by project applicant.

Off-road Equipment - Equipment provided by project applicant.

Spane Park Stormwater Capture Project- LST Analysis_Mitigated - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Off-road Equipment - Equipment provided by project applicant.

Off-road Equipment - Equipment provided by project applicant.

Off-road Equipment - Equipment provided by project applicant.

Off-road Equipment - Equipment provided by project applicant.

Trips and VMT - Trips provided by applicant. For LST analysis- only concerned with localized emissions (i.e., within 1,000 ft of the project site).

Demolition - Data provided by applicant.

Grading - Data provided by project applicant.

Vehicle Trips - Construction only.

Vehicle Emission Factors - Construction only.

Road Dust - Construction only.

Woodstoves - Construction only.

Consumer Products - Construction only.

Area Coating - Construction only.

Landscape Equipment - Construction only.

Energy Use - Construction only.

Water And Wastewater - Construction only.

Solid Waste - Construction only.

Construction Off-road Equipment Mitigation - Includes watering 3x daily and replacing groundcover per MM-AQ-1. Tier 4 offroad equipment over 75 horsepower per MM-AQ-2.

Fleet Mix - Construction only.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	230.00	76.00
tblConstructionPhase	NumDays	230.00	21.00
tblConstructionPhase	NumDays	230.00	51.00
tblConstructionPhase	NumDays	230.00	21.00
tblConstructionPhase	NumDays	20.00	21.00
tblConstructionPhase	NumDays	8.00	51.00
tblConstructionPhase	NumDays	18.00	41.00
tblConstructionPhase	NumDays	18.00	41.00

Spane Park Stormwater Capture Project- LST Analysis_Mitigated - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblConstructionPhase	NumDays	18.00	31.00
tblConstructionPhase	NumDays	18.00	21.00
tblConstructionPhase	NumDays	5.00	41.00
tblEnergyUse	LightingElect	0.35	0.00
tblGrading	AcresOfGrading	25.50	8.00
tblGrading	AcresOfGrading	41.00	7.50
tblGrading	MaterialExported	0.00	18,000.00
tblGrading	MaterialExported	0.00	1,800.00
tblLandUse	LandUseSquareFeet	0.00	118,483.00
tblLandUse	LotAcreage	0.00	2.72
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripNumber	25.00	26.00
tblTripsAndVMT	HaulingTripNumber	225.00	226.00
tblTripsAndVMT	HaulingTripNumber	0.00	20.00
tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	26.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblTripsAndVMT	VendorTripNumber	26.00	2.00
tblTripsAndVMT	VendorTripNumber	26.00	2.00
tblTripsAndVMT	VendorTripNumber	26.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripLength	14.70	0.19
tblTripsAndVMT	WorkerTripLength	14.70	0.19
tblTripsAndVMT	WorkerTripLength	14.70	0.19
tblTripsAndVMT	WorkerTripLength	14.70	0.19
tblTripsAndVMT	WorkerTripLength	14.70	0.19
tblTripsAndVMT	WorkerTripLength	14.70	0.19
tblTripsAndVMT	WorkerTripLength	14.70	0.19
tblTripsAndVMT	WorkerTripLength	14.70	0.19
tblTripsAndVMT	WorkerTripLength	14.70	0.19
tblTripsAndVMT	WorkerTripLength	14.70	0.19
tblTripsAndVMT	WorkerTripLength	14.70	0.19
tblTripsAndVMT	WorkerTripNumber	10.00	20.00
tblTripsAndVMT	WorkerTripNumber	10.00	40.00
tblTripsAndVMT	WorkerTripNumber	8.00	20.00
tblTripsAndVMT	WorkerTripNumber	8.00	20.00
tblTripsAndVMT	WorkerTripNumber	66.00	20.00
tblTripsAndVMT	WorkerTripNumber	8.00	24.00
tblTripsAndVMT	WorkerTripNumber	66.00	16.00
tblTripsAndVMT	WorkerTripNumber	66.00	30.00
tblTripsAndVMT	WorkerTripNumber	66.00	10.00
tblTripsAndVMT	WorkerTripNumber	3.00	10.00

2.0 Emissions Summary

Spane Park Stormwater Capture Project- LST Analysis_Mitigated - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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					
2023	2.3760	23.7625	15.2379	0.0352	12.4649	1.0057	13.3929	6.6705	0.9376	7.5243	0.0000	3,392.0857	3,392.0857	0.9795	0.0288	3,416.5376
2024	1.8780	19.0243	12.2871	0.0278	8.5100e-003	0.8848	0.8925	2.3500e-003	0.8140	0.8161	0.0000	2,696.4181	2,696.4181	0.8693	4.0700e-003	2,719.3417
2025	1.1185	9.2835	11.1446	0.0202	8.5100e-003	0.3976	0.4062	2.3500e-003	0.3678	0.3701	0.0000	1,924.9494	1,924.9494	0.6014	3.9100e-003	1,941.1505
Maximum	**2.3760**	**23.7625**	**15.2379**	**0.0352**	**12.4649**	**1.0057**	**13.3929**	**6.6705**	**0.9376**	**7.5243**	**0.0000**	**3,392.0857**	**3,392.0857**	**0.9795**	**0.0288**	**3,416.5376**

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					
2023	0.5631	4.1164	17.9746	0.0352	3.6569	0.1068	3.7603	1.9542	0.1021	2.0528	0.0000	3,392.0857	3,392.0857	0.9795	0.0288	3,416.5376
2024	0.6138	4.6379	14.5916	0.0278	8.5100e-003	0.1943	0.2014	2.3500e-003	0.1822	0.1842	0.0000	2,696.4181	2,696.4181	0.8693	4.0700e-003	2,719.3417
2025	0.5877	3.0495	12.8396	0.0202	8.5100e-003	0.0964	0.1049	2.3500e-003	0.0925	0.0949	0.0000	1,924.9494	1,924.9494	0.6014	3.9100e-003	1,941.1505
Maximum	**0.6138**	**4.6379**	**17.9746**	**0.0352**	**3.6569**	**0.1943**	**3.7603**	**1.9542**	**0.1822**	**2.0528**	**0.0000**	**3,392.0857**	**3,392.0857**	**0.9795**	**0.0288**	**3,416.5376**

Spane Park Stormwater Capture Project- LST Analysis_Mitigated - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	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	**67.15**	**77.33**	**-17.42**	**0.00**	**70.57**	**82.63**	**72.32**	**70.65**	**82.22**	**73.23**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Spane Park Stormwater Capture Project- LST Analysis_Mitigated - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	2.6651	1.5000e-004	0.0160	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0345	0.0345	9.0000e-005		0.0367
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	0.0000
Total	**2.6651**	**1.5000e-004**	**0.0160**	**0.0000**	**0.0000**	**6.0000e-005**	**6.0000e-005**	**0.0000**	**6.0000e-005**	**6.0000e-005**		**0.0345**	**0.0345**	**9.0000e-005**	**0.0000**	**0.0367**

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	2.6651	1.5000e-004	0.0160	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0345	0.0345	9.0000e-005		0.0367
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	0.0000
Total	**2.6651**	**1.5000e-004**	**0.0160**	**0.0000**	**0.0000**	**6.0000e-005**	**6.0000e-005**	**0.0000**	**6.0000e-005**	**6.0000e-005**		**0.0345**	**0.0345**	**9.0000e-005**	**0.0000**	**0.0367**

Spane Park Stormwater Capture Project- LST Analysis_Mitigated - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	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	Demolition of existing basketball courts and restroom building	Demolition	8/1/2023	8/29/2023	5	21	
2	Site mobilization, clearing, grubbing, and vegetation removal	Site Preparation	8/1/2023	9/26/2023	5	41	
3	Reservoir excavation	Grading	9/25/2023	12/4/2023	5	51	
4	Reservoir construction	Building Construction	12/11/2023	3/25/2024	5	76	
5	Pipeline, diversion structure, and treatment facility/pump installation	Trenching	2/5/2024	4/1/2024	5	41	
6	Field surface replacement	Building Construction	4/1/2024	4/29/2024	5	21	
7	Restroom building construction	Building Construction	5/6/2024	7/15/2024	5	51	
8	Basketball court construction	Building Construction	7/22/2024	8/19/2024	5	21	
9	Concrete pathway improvements	Paving	8/26/2024	9/23/2024	5	21	
10	Pond and stream revitilization	Paving	9/23/2024	11/18/2024	5	41	
11	Ancillary park improvements	Paving	11/11/2024	1/6/2025	5	41	
12	Parking reconstruction	Paving	12/9/2024	1/20/2025	5	31	

Acres of Grading (Site Preparation Phase): 7.5

Acres of Grading (Grading Phase): 8

Acres of Paving: 0.9

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

OffRoad Equipment

Spane Park Stormwater Capture Project- LST Analysis_Mitigated - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition of existing basketball courts and restroom building	Crushing/Proc. Equipment	1	8.00	85	0.78
Demolition of existing basketball courts and restroom building	Rubber Tired Dozers	1	8.00	247	0.40
Demolition of existing basketball courts and restroom building	Skid Steer Loaders	1	8.00	65	0.37
Site mobilization, clearing, grubbing, and vegetation removal	Graders	1	8.00	187	0.41
Site mobilization, clearing, grubbing, and vegetation removal	Rubber Tired Dozers	1	8.00	247	0.40
Site mobilization, clearing, grubbing, and vegetation removal	Skid Steer Loaders	1	8.00	65	0.37
Reservoir excavation	Rubber Tired Dozers	1	8.00	247	0.40
Reservoir excavation	Skid Steer Loaders	1	8.00	65	0.37
Reservoir excavation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Reservoir construction	Cranes	1	8.00	231	0.29
Reservoir construction	Rubber Tired Dozers	1	8.00	247	0.40
Reservoir construction	Skid Steer Loaders	1	8.00	65	0.37
Pipeline, diversion structure, and treatment facility/pump installation	Cranes	1	8.00	231	0.29
Pipeline, diversion structure, and treatment facility/pump installation	Skid Steer Loaders	1	8.00	65	0.37
Pipeline, diversion structure, and treatment facility/pump installation	Trenchers	1	8.00	78	0.50
Field surface replacement	Dumpers/Tenders	1	8.00	16	0.38
Field surface replacement	Graders	1	8.00	187	0.41
Field surface replacement	Skid Steer Loaders	1	8.00	65	0.37
Field surface replacement	Sweepers/Scrubbers	1	8.00	64	0.46
Restroom building construction	Aerial Lifts	1	8.00	63	0.31
Restroom building construction	Cement and Mortar Mixers	1	8.00	9	0.56
Restroom building construction	Cranes	1	8.00	231	0.29
Restroom building construction	Forklifts	1	8.00	89	0.20
Basketball court construction	Aerial Lifts	1	8.00	63	0.31
Basketball court construction	Cement and Mortar Mixers	3	8.00	9	0.56
Basketball court construction	Cranes	1	8.00	231	0.29

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Basketball court construction	Forklifts	1	8.00	89	0.20
Concrete pathway improvements	Cement and Mortar Mixers	1	8.00	9	0.56
Pond and stream revitilization	Cement and Mortar Mixers	1	8.00	9	0.56
Pond and stream revitilization	Cranes	1	8.00	231	0.29
Pond and stream revitilization	Forklifts	1	8.00	89	0.20
Pond and stream revitilization	Skid Steer Loaders	1	8.00	65	0.37
Ancillary park improvements	Cement and Mortar Mixers	1	8.00	9	0.56
Ancillary park improvements	Cranes	1	8.00	231	0.29
Ancillary park improvements	Forklifts	1	8.00	89	0.20
Ancillary park improvements	Skid Steer Loaders	1	8.00	65	0.37
Parking reconstruction	Pavers	1	8.00	130	0.42
Parking reconstruction	Plate Compactors	1	8.00	8	0.43
Parking reconstruction	Rollers	1	8.00	80	0.38
Parking reconstruction	Skid Steer Loaders	1	8.00	65	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
Demolition of existing basketball courts and r	3	8.00	0.00	26.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Site mobilization, clearing, grubbing, an	3	20.00	0.00	226.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Reservoir excavation	3	20.00	0.00	2,250.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Reservoir construction	3	20.00	2.00	0.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Pipeline, diversion structure, and treatme	3	24.00	2.00	20.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Field surface replacement	4	16.00	2.00	0.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Restroom building construction	4	30.00	2.00	0.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Basketball court construction	6	10.00	2.00	0.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Concrete pathway improvements	1	10.00	2.00	0.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Pond and stream revitilization	4	20.00	2.00	0.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT

Spane Park Stormwater Capture Project- LST Analysis_Mitigated - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Ancillary park improvements	4	10.00	2.00	0.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Parking reconstruction	4	40.00	2.00	0.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Replace Ground Cover

Water Exposed Area

3.2 Demolition of existing basketball courts and restroom building - 2023

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					0.2598	0.0000	0.2598	0.0393	0.0000	0.0393			0.0000			0.0000
Off-Road	1.2000	10.9760	8.8183	0.0176		0.5045	0.5045		0.4765	0.4765		1,692.0171	1,692.0171	0.3721		1,701.3187
Total	**1.2000**	**10.9760**	**8.8183**	**0.0176**	**0.2598**	**0.5045**	**0.7644**	**0.0393**	**0.4765**	**0.5159**		**1,692.0171**	**1,692.0171**	**0.3721**		**1,701.3187**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Demolition of existing basketball courts and restroom building - 2023

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	1.3500e-003	0.0236	0.0187	4.0000e-005	2.3000e-004	2.0000e-005	2.5000e-004	7.0000e-005	2.0000e-005	9.0000e-005		4.1796	4.1796	1.4000e-004	6.6000e-004	4.3801
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
Worker	0.0101	3.6900e-003	0.0381	3.0000e-005	1.2300e-003	4.0000e-005	1.2800e-003	3.4000e-004	4.0000e-005	3.8000e-004		2.5540	2.5540	8.9000e-004	4.7000e-004	2.7161
Total	**0.0115**	**0.0273**	**0.0568**	**7.0000e-005**	**1.4600e-003**	**6.0000e-005**	**1.5300e-003**	**4.1000e-004**	**6.0000e-005**	**4.7000e-004**		**6.7335**	**6.7335**	**1.0300e-003**	**1.1300e-003**	**7.0962**

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					0.0760	0.0000	0.0760	0.0115	0.0000	0.0115			0.0000			0.0000
Off-Road	0.2398	1.6218	9.5455	0.0176		0.0526	0.0526		0.0502	0.0502	0.0000	1,692.0171	1,692.0171	0.3721		1,701.3187
Total	**0.2398**	**1.6218**	**9.5455**	**0.0176**	**0.0760**	**0.0526**	**0.1286**	**0.0115**	**0.0502**	**0.0617**	**0.0000**	**1,692.0171**	**1,692.0171**	**0.3721**		**1,701.3187**

Spane Park Stormwater Capture Project- LST Analysis_Mitigated - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Demolition of existing basketball courts and restroom building - 2023

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	1.3500e-003	0.0236	0.0187	4.0000e-005	2.3000e-004	2.0000e-005	2.5000e-004	7.0000e-005	2.0000e-005	9.0000e-005		4.1796	4.1796	1.4000e-004	6.6000e-004	4.3801
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
Worker	0.0101	3.6900e-003	0.0381	3.0000e-005	1.2300e-003	4.0000e-005	1.2800e-003	3.4000e-004	4.0000e-005	3.8000e-004		2.5540	2.5540	8.9000e-004	4.7000e-004	2.7161
Total	**0.0115**	**0.0273**	**0.0568**	**7.0000e-005**	**1.4600e-003**	**6.0000e-005**	**1.5300e-003**	**4.1000e-004**	**6.0000e-005**	**4.7000e-004**		**6.7335**	**6.7335**	**1.0300e-003**	**1.1300e-003**	**7.0962**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Site mobilization, clearing, grubbing, and vegetation removal - 2023

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					6.2210	0.0000	6.2210	3.3319	0.0000	3.3319			0.0000			0.0000
Off-Road	1.1332	12.6449	6.1844	0.0172		0.5009	0.5009		0.4609	0.4609		1,668.3421	1,668.3421	0.5396		1,681.8315
Total	**1.1332**	**12.6449**	**6.1844**	**0.0172**	**6.2210**	**0.5009**	**6.7220**	**3.3319**	**0.4609**	**3.7928**		**1,668.3421**	**1,668.3421**	**0.5396**		**1,681.8315**

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	6.0000e-003	0.1051	0.0832	1.7000e-004	1.0300e-003	1.0000e-004	1.1300e-003	2.9000e-004	9.0000e-005	3.9000e-004		18.6080	18.6080	6.2000e-004	2.9400e-003	19.5009
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
Worker	0.0254	9.2200e-003	0.0953	6.0000e-005	3.0800e-003	1.1000e-004	3.1900e-003	8.4000e-004	1.0000e-004	9.4000e-004		6.3850	6.3850	2.2300e-003	1.1700e-003	6.7903
Total	**0.0314**	**0.1143**	**0.1785**	**2.3000e-004**	**4.1100e-003**	**2.1000e-004**	**4.3200e-003**	**1.1300e-003**	**1.9000e-004**	**1.3300e-003**		**24.9930**	**24.9930**	**2.8500e-003**	**4.1100e-003**	**26.2911**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Site mobilization, clearing, grubbing, and vegetation removal - 2023

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					1.8197	0.0000	1.8197	0.9746	0.0000	0.9746			0.0000			0.0000
Off-Road	0.2508	1.6693	8.1939	0.0172		0.0540	0.0540		0.0517	0.0517	0.0000	1,668.3421	1,668.3421	0.5396		1,681.8315
Total	**0.2508**	**1.6693**	**8.1939**	**0.0172**	**1.8197**	**0.0540**	**1.8737**	**0.9746**	**0.0517**	**1.0263**	**0.0000**	**1,668.3421**	**1,668.3421**	**0.5396**		**1,681.8315**

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	6.0000e-003	0.1051	0.0832	1.7000e-004	1.0300e-003	1.0000e-004	1.1300e-003	2.9000e-004	9.0000e-005	3.9000e-004		18.6080	18.6080	6.2000e-004	2.9400e-003	19.5009
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
Worker	0.0254	9.2200e-003	0.0953	6.0000e-005	3.0800e-003	1.1000e-004	3.1900e-003	8.4000e-004	1.0000e-004	9.4000e-004		6.3850	6.3850	2.2300e-003	1.1700e-003	6.7903
Total	**0.0314**	**0.1143**	**0.1785**	**2.3000e-004**	**4.1100e-003**	**2.1000e-004**	**4.3200e-003**	**1.1300e-003**	**1.9000e-004**	**1.3300e-003**		**24.9930**	**24.9930**	**2.8500e-003**	**4.1100e-003**	**26.2911**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Reservoir excavation - 2023

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					6.2284	0.0000	6.2284	3.3342	0.0000	3.3342			0.0000			0.0000
Off-Road	0.9011	9.5275	6.7231	0.0137		0.4260	0.4260		0.3919	0.3919		1,329.0634	1,329.0634	0.4299		1,339.8096
Total	**0.9011**	**9.5275**	**6.7231**	**0.0137**	**6.2284**	**0.4260**	**6.6543**	**3.3342**	**0.3919**	**3.7261**		**1,329.0634**	**1,329.0634**	**0.4299**		**1,339.8096**

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	0.0480	0.8412	0.6658	1.3800e-003	8.2700e-003	7.9000e-004	9.0600e-003	2.3500e-003	7.6000e-004	3.1100e-003		148.9321	148.9321	5.0000e-003	0.0236	156.0781
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
Worker	0.0254	9.2200e-003	0.0953	6.0000e-005	3.0800e-003	1.1000e-004	3.1900e-003	8.4000e-004	1.0000e-004	9.4000e-004		6.3850	6.3850	2.2300e-003	1.1700e-003	6.7903
Total	**0.0734**	**0.8505**	**0.7611**	**1.4400e-003**	**0.0114**	**9.0000e-004**	**0.0123**	**3.1900e-003**	**8.6000e-004**	**4.0500e-003**		**155.3170**	**155.3170**	**7.2300e-003**	**0.0247**	**162.8684**

Spane Park Stormwater Capture Project- LST Analysis_Mitigated - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Reservoir excavation - 2023

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					1.8218	0.0000	1.8218	0.9753	0.0000	0.9753			0.0000			0.0000
Off-Road	0.2076	1.4823	7.5610	0.0137		0.0483	0.0483		0.0459	0.0459	0.0000	1,329.0634	1,329.0634	0.4299		1,339.8096
Total	**0.2076**	**1.4823**	**7.5610**	**0.0137**	**1.8218**	**0.0483**	**1.8701**	**0.9753**	**0.0459**	**1.0212**	**0.0000**	**1,329.0634**	**1,329.0634**	**0.4299**		**1,339.8096**

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	0.0480	0.8412	0.6658	1.3800e-003	8.2700e-003	7.9000e-004	9.0600e-003	2.3500e-003	7.6000e-004	3.1100e-003		148.9321	148.9321	5.0000e-003	0.0236	156.0781
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
Worker	0.0254	9.2200e-003	0.0953	6.0000e-005	3.0800e-003	1.1000e-004	3.1900e-003	8.4000e-004	1.0000e-004	9.4000e-004		6.3850	6.3850	2.2300e-003	1.1700e-003	6.7903
Total	**0.0734**	**0.8505**	**0.7611**	**1.4400e-003**	**0.0114**	**9.0000e-004**	**0.0123**	**3.1900e-003**	**8.6000e-004**	**4.0500e-003**		**155.3170**	**155.3170**	**7.2300e-003**	**0.0247**	**162.8684**

Spane Park Stormwater Capture Project- LST Analysis_Mitigated - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Reservoir construction - 2023

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	1.1012	11.8074	6.3262	0.0164		0.5095	0.5095		0.4688	0.4688		1,586.3062	1,586.3062	0.5130		1,599.1323
Total	**1.1012**	**11.8074**	**6.3262**	**0.0164**		**0.5095**	**0.5095**		**0.4688**	**0.4688**		**1,586.3062**	**1,586.3062**	**0.5130**		**1,599.1323**

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	0.0000
Vendor	1.3500e-003	0.0240	0.0189	4.0000e-005	4.0000e-004	2.0000e-005	4.3000e-004	1.2000e-004	2.0000e-005	1.4000e-004		4.2028	4.2028	1.5000e-004	6.5000e-004	4.4011
Worker	0.0254	9.2200e-003	0.0953	6.0000e-005	3.0800e-003	1.1000e-004	3.1900e-003	8.4000e-004	1.0000e-004	9.4000e-004		6.3850	6.3850	2.2300e-003	1.1700e-003	6.7903
Total	**0.0267**	**0.0332**	**0.1141**	**1.0000e-004**	**3.4800e-003**	**1.3000e-004**	**3.6200e-003**	**9.6000e-004**	**1.2000e-004**	**1.0800e-003**		**10.5878**	**10.5878**	**2.3800e-003**	**1.8200e-003**	**11.1913**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Reservoir construction - 2023

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	0.2405	1.6249	7.8183	0.0164		0.0526	0.0526		0.0503	0.0503	0.0000	1,586.3062	1,586.3062	0.5130		1,599.1323
Total	**0.2405**	**1.6249**	**7.8183**	**0.0164**		**0.0526**	**0.0526**		**0.0503**	**0.0503**	**0.0000**	**1,586.3062**	**1,586.3062**	**0.5130**		**1,599.1323**

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	0.0000
Vendor	1.3500e-003	0.0240	0.0189	4.0000e-005	4.0000e-004	2.0000e-005	4.3000e-004	1.2000e-004	2.0000e-005	1.4000e-004		4.2028	4.2028	1.5000e-004	6.5000e-004	4.4011
Worker	0.0254	9.2200e-003	0.0953	6.0000e-005	3.0800e-003	1.1000e-004	3.1900e-003	8.4000e-004	1.0000e-004	9.4000e-004		6.3850	6.3850	2.2300e-003	1.1700e-003	6.7903
Total	**0.0267**	**0.0332**	**0.1141**	**1.0000e-004**	**3.4800e-003**	**1.3000e-004**	**3.6200e-003**	**9.6000e-004**	**1.2000e-004**	**1.0800e-003**		**10.5878**	**10.5878**	**2.3800e-003**	**1.8200e-003**	**11.1913**

Spane Park Stormwater Capture Project- LST Analysis_Mitigated - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Reservoir construction - 2024

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	1.0891	11.4584	6.2903	0.0164		0.4935	0.4935		0.4541	0.4541		1,586.3556	1,586.3556	0.5131		1,599.1821
Total	**1.0891**	**11.4584**	**6.2903**	**0.0164**		**0.4935**	**0.4935**		**0.4541**	**0.4541**		**1,586.3556**	**1,586.3556**	**0.5131**		**1,599.1821**

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	0.0000
Vendor	1.3300e-003	0.0239	0.0186	4.0000e-005	4.0000e-004	2.0000e-005	4.3000e-004	1.2000e-004	2.0000e-005	1.4000e-004		4.1400	4.1400	1.5000e-004	6.4000e-004	4.3354
Worker	0.0234	8.5100e-003	0.0913	6.0000e-005	3.0800e-003	1.1000e-004	3.1900e-003	8.4000e-004	1.0000e-004	9.4000e-004		6.1931	6.1931	2.0500e-003	1.1100e-003	6.5763
Total	**0.0248**	**0.0324**	**0.1099**	**1.0000e-004**	**3.4800e-003**	**1.3000e-004**	**3.6200e-003**	**9.6000e-004**	**1.2000e-004**	**1.0800e-003**		**10.3331**	**10.3331**	**2.2000e-003**	**1.7500e-003**	**10.9117**

Spane Park Stormwater Capture Project- LST Analysis_Mitigated - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Reservoir construction - 2024

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	0.2378	1.5867	7.8174	0.0164		0.0500	0.0500		0.0478	0.0478	0.0000	1,586.3556	1,586.3556	0.5131		1,599.1821
Total	**0.2378**	**1.5867**	**7.8174**	**0.0164**		**0.0500**	**0.0500**		**0.0478**	**0.0478**	**0.0000**	**1,586.3556**	**1,586.3556**	**0.5131**		**1,599.1821**

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	0.0000
Vendor	1.3300e-003	0.0239	0.0186	4.0000e-005	4.0000e-004	2.0000e-005	4.3000e-004	1.2000e-004	2.0000e-005	1.4000e-004		4.1400	4.1400	1.5000e-004	6.4000e-004	4.3354
Worker	0.0234	8.5100e-003	0.0913	6.0000e-005	3.0800e-003	1.1000e-004	3.1900e-003	8.4000e-004	1.0000e-004	9.4000e-004		6.1931	6.1931	2.0500e-003	1.1100e-003	6.5763
Total	**0.0248**	**0.0324**	**0.1099**	**1.0000e-004**	**3.4800e-003**	**1.3000e-004**	**3.6200e-003**	**9.6000e-004**	**1.2000e-004**	**1.0800e-003**		**10.3331**	**10.3331**	**2.2000e-003**	**1.7500e-003**	**10.9117**

Spane Park Stormwater Capture Project- LST Analysis_Mitigated - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Pipeline, diversion structure, and treatment facility/pump installation - 2024

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	0.7341	7.4901	5.7514	0.0112		0.3910	0.3910		0.3597	0.3597		1,086.5346	1,086.5346	0.3514		1,095.3198
Total	**0.7341**	**7.4901**	**5.7514**	**0.0112**		**0.3910**	**0.3910**		**0.3597**	**0.3597**		**1,086.5346**	**1,086.5346**	**0.3514**		**1,095.3198**

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	5.3000e-004	9.2600e-003	7.3600e-003	1.0000e-005	9.0000e-005	1.0000e-005	1.0000e-004	3.0000e-005	1.0000e-005	3.0000e-005		1.6231	1.6231	6.0000e-005	2.6000e-004	1.7010
Vendor	1.3300e-003	0.0239	0.0186	4.0000e-005	4.0000e-004	2.0000e-005	4.3000e-004	1.2000e-004	2.0000e-005	1.4000e-004		4.1400	4.1400	1.5000e-004	6.4000e-004	4.3354
Worker	0.0281	0.0102	0.1095	7.0000e-005	3.7000e-003	1.3000e-004	3.8300e-003	1.0100e-003	1.2000e-004	1.1300e-003		7.4317	7.4317	2.4600e-003	1.3400e-003	7.8916
Total	**0.0300**	**0.0434**	**0.1355**	**1.2000e-004**	**4.1900e-003**	**1.6000e-004**	**4.3600e-003**	**1.1600e-003**	**1.5000e-004**	**1.3000e-003**		**13.1948**	**13.1948**	**2.6700e-003**	**2.2400e-003**	**13.9280**

Spane Park Stormwater Capture Project- LST Analysis_Mitigated - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Pipeline, diversion structure, and treatment facility/pump installation - 2024

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	0.1745	1.3125	6.5288	0.0112		0.0415	0.0415		0.0394	0.0394	0.0000	1,086.5346	1,086.5346	0.3514		1,095.3198
Total	**0.1745**	**1.3125**	**6.5288**	**0.0112**		**0.0415**	**0.0415**		**0.0394**	**0.0394**	**0.0000**	**1,086.5346**	**1,086.5346**	**0.3514**		**1,095.3198**

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	5.3000e-004	9.2600e-003	7.3600e-003	1.0000e-005	9.0000e-005	1.0000e-005	1.0000e-004	3.0000e-005	1.0000e-005	3.0000e-005		1.6231	1.6231	6.0000e-005	2.6000e-004	1.7010
Vendor	1.3300e-003	0.0239	0.0186	4.0000e-005	4.0000e-004	2.0000e-005	4.3000e-004	1.2000e-004	2.0000e-005	1.4000e-004		4.1400	4.1400	1.5000e-004	6.4000e-004	4.3354
Worker	0.0281	0.0102	0.1095	7.0000e-005	3.7000e-003	1.3000e-004	3.8300e-003	1.0100e-003	1.2000e-004	1.1300e-003		7.4317	7.4317	2.4600e-003	1.3400e-003	7.8916
Total	**0.0300**	**0.0434**	**0.1355**	**1.2000e-004**	**4.1900e-003**	**1.6000e-004**	**4.3600e-003**	**1.1600e-003**	**1.5000e-004**	**1.3000e-003**		**13.1948**	**13.1948**	**2.6700e-003**	**2.2400e-003**	**13.9280**

Spane Park Stormwater Capture Project- LST Analysis_Mitigated - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Field surface replacement - 2024

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	0.6628	7.0555	5.2093	0.0120		0.2765	0.2765		0.2557	0.2557		1,148.1914	1,148.1914	0.3582		1,157.1459
Total	**0.6628**	**7.0555**	**5.2093**	**0.0120**		**0.2765**	**0.2765**		**0.2557**	**0.2557**		**1,148.1914**	**1,148.1914**	**0.3582**		**1,157.1459**

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	0.0000
Vendor	1.3300e-003	0.0239	0.0186	4.0000e-005	4.0000e-004	2.0000e-005	4.3000e-004	1.2000e-004	2.0000e-005	1.4000e-004		4.1400	4.1400	1.5000e-004	6.4000e-004	4.3354
Worker	0.0188	6.8100e-003	0.0730	5.0000e-005	2.4700e-003	8.0000e-005	2.5500e-003	6.7000e-004	8.0000e-005	7.5000e-004		4.9544	4.9544	1.6400e-003	8.9000e-004	5.2611
Total	**0.0201**	**0.0307**	**0.0916**	**9.0000e-005**	**2.8700e-003**	**1.0000e-004**	**2.9800e-003**	**7.9000e-004**	**1.0000e-004**	**8.9000e-004**		**9.0945**	**9.0945**	**1.7900e-003**	**1.5300e-003**	**9.5965**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Field surface replacement - 2024

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	0.3893	3.2514	6.5278	0.0120		0.1525	0.1525		0.1426	0.1426	0.0000	1,148.1914	1,148.1914	0.3582		1,157.1459
Total	**0.3893**	**3.2514**	**6.5278**	**0.0120**		**0.1525**	**0.1525**		**0.1426**	**0.1426**	**0.0000**	**1,148.1914**	**1,148.1914**	**0.3582**		**1,157.1459**

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	0.0000
Vendor	1.3300e-003	0.0239	0.0186	4.0000e-005	4.0000e-004	2.0000e-005	4.3000e-004	1.2000e-004	2.0000e-005	1.4000e-004		4.1400	4.1400	1.5000e-004	6.4000e-004	4.3354
Worker	0.0188	6.8100e-003	0.0730	5.0000e-005	2.4700e-003	8.0000e-005	2.5500e-003	6.7000e-004	8.0000e-005	7.5000e-004		4.9544	4.9544	1.6400e-003	8.9000e-004	5.2611
Total	**0.0201**	**0.0307**	**0.0916**	**9.0000e-005**	**2.8700e-003**	**1.0000e-004**	**2.9800e-003**	**7.9000e-004**	**1.0000e-004**	**8.9000e-004**		**9.0945**	**9.0945**	**1.7900e-003**	**1.5300e-003**	**9.5965**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.8 Restroom building construction - 2024

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	0.5193	5.2823	4.3152	9.6900e-003		0.2203	0.2203		0.2038	0.2038		919.9743	919.9743	0.2864		927.1355
Total	**0.5193**	**5.2823**	**4.3152**	**9.6900e-003**		**0.2203**	**0.2203**		**0.2038**	**0.2038**		**919.9743**	**919.9743**	**0.2864**		**927.1355**

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	0.0000
Vendor	1.3300e-003	0.0239	0.0186	4.0000e-005	4.0000e-004	2.0000e-005	4.3000e-004	1.2000e-004	2.0000e-005	1.4000e-004		4.1400	4.1400	1.5000e-004	6.4000e-004	4.3354
Worker	0.0352	0.0128	0.1369	9.0000e-005	4.6300e-003	1.6000e-004	4.7800e-003	1.2700e-003	1.5000e-004	1.4100e-003		9.2896	9.2896	3.0700e-003	1.6700e-003	9.8645
Total	**0.0365**	**0.0366**	**0.1555**	**1.3000e-004**	**5.0300e-003**	**1.8000e-004**	**5.2100e-003**	**1.3900e-003**	**1.7000e-004**	**1.5500e-003**		**13.4296**	**13.4296**	**3.2200e-003**	**2.3100e-003**	**14.1999**

Spane Park Stormwater Capture Project- LST Analysis_Mitigated - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.8 Restroom building construction - 2024

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	0.1831	1.2833	5.1620	9.6900e-003		0.0354	0.0354		0.0347	0.0347	0.0000	919.9743	919.9743	0.2864		927.1355
Total	**0.1831**	**1.2833**	**5.1620**	**9.6900e-003**		**0.0354**	**0.0354**		**0.0347**	**0.0347**	**0.0000**	**919.9743**	**919.9743**	**0.2864**		**927.1355**

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	0.0000
Vendor	1.3300e-003	0.0239	0.0186	4.0000e-005	4.0000e-004	2.0000e-005	4.3000e-004	1.2000e-004	2.0000e-005	1.4000e-004		4.1400	4.1400	1.5000e-004	6.4000e-004	4.3354
Worker	0.0352	0.0128	0.1369	9.0000e-005	4.6300e-003	1.6000e-004	4.7800e-003	1.2700e-003	1.5000e-004	1.4100e-003		9.2896	9.2896	3.0700e-003	1.6700e-003	9.8645
Total	**0.0365**	**0.0366**	**0.1555**	**1.3000e-004**	**5.0300e-003**	**1.8000e-004**	**5.2100e-003**	**1.3900e-003**	**1.7000e-004**	**1.5500e-003**		**13.4296**	**13.4296**	**3.2200e-003**	**2.3100e-003**	**14.1999**

Spane Park Stormwater Capture Project- LST Analysis_Mitigated - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.9 Basketball court construction - 2024

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	0.6368	6.0186	4.9319	0.0111		0.2489	0.2489		0.2324	0.2324		1,021.0070	1,021.0070	0.2969		1,028.4303
Total	**0.6368**	**6.0186**	**4.9319**	**0.0111**		**0.2489**	**0.2489**		**0.2324**	**0.2324**		**1,021.0070**	**1,021.0070**	**0.2969**		**1,028.4303**

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	0.0000
Vendor	1.3300e-003	0.0239	0.0186	4.0000e-005	4.0000e-004	2.0000e-005	4.3000e-004	1.2000e-004	2.0000e-005	1.4000e-004		4.1400	4.1400	1.5000e-004	6.4000e-004	4.3354
Worker	0.0117	4.2500e-003	0.0456	3.0000e-005	1.5400e-003	5.0000e-005	1.5900e-003	4.2000e-004	5.0000e-005	4.7000e-004		3.0965	3.0965	1.0200e-003	5.6000e-004	3.2882
Total	**0.0131**	**0.0281**	**0.0643**	**7.0000e-005**	**1.9400e-003**	**7.0000e-005**	**2.0200e-003**	**5.4000e-004**	**7.0000e-005**	**6.1000e-004**		**7.2366**	**7.2366**	**1.1700e-003**	**1.2000e-003**	**7.6236**

Spane Park Stormwater Capture Project- LST Analysis_Mitigated - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.9 Basketball court construction - 2024

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	0.3006	2.0197	5.7787	0.0111		0.0640	0.0640		0.0633	0.0633	0.0000	1,021.0070	1,021.0070	0.2969		1,028.4303
Total	**0.3006**	**2.0197**	**5.7787**	**0.0111**		**0.0640**	**0.0640**		**0.0633**	**0.0633**	**0.0000**	**1,021.0070**	**1,021.0070**	**0.2969**		**1,028.4303**

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	0.0000
Vendor	1.3300e-003	0.0239	0.0186	4.0000e-005	4.0000e-004	2.0000e-005	4.3000e-004	1.2000e-004	2.0000e-005	1.4000e-004		4.1400	4.1400	1.5000e-004	6.4000e-004	4.3354
Worker	0.0117	4.2500e-003	0.0456	3.0000e-005	1.5400e-003	5.0000e-005	1.5900e-003	4.2000e-004	5.0000e-005	4.7000e-004		3.0965	3.0965	1.0200e-003	5.6000e-004	3.2882
Total	**0.0131**	**0.0281**	**0.0643**	**7.0000e-005**	**1.9400e-003**	**7.0000e-005**	**2.0200e-003**	**5.4000e-004**	**7.0000e-005**	**6.1000e-004**		**7.2366**	**7.2366**	**1.1700e-003**	**1.2000e-003**	**7.6236**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.10 Concrete pathway improvements - 2024

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	0.0588	0.3682	0.3084	7.1000e-004		0.0143	0.0143		0.0143	0.0143		50.5163	50.5163	5.2400e-003		50.6474
Paving	0.1123					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.1711**	**0.3682**	**0.3084**	**7.1000e-004**		**0.0143**	**0.0143**		**0.0143**	**0.0143**		**50.5163**	**50.5163**	**5.2400e-003**		**50.6474**

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	0.0000
Vendor	1.3300e-003	0.0239	0.0186	4.0000e-005	4.0000e-004	2.0000e-005	4.3000e-004	1.2000e-004	2.0000e-005	1.4000e-004		4.1400	4.1400	1.5000e-004	6.4000e-004	4.3354
Worker	0.0117	4.2500e-003	0.0456	3.0000e-005	1.5400e-003	5.0000e-005	1.5900e-003	4.2000e-004	5.0000e-005	4.7000e-004		3.0965	3.0965	1.0200e-003	5.6000e-004	3.2882
Total	**0.0131**	**0.0281**	**0.0643**	**7.0000e-005**	**1.9400e-003**	**7.0000e-005**	**2.0200e-003**	**5.4000e-004**	**7.0000e-005**	**6.1000e-004**		**7.2366**	**7.2366**	**1.1700e-003**	**1.2000e-003**	**7.6236**

Spane Park Stormwater Capture Project- LST Analysis_Mitigated - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.10 Concrete pathway improvements - 2024

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	0.0588	0.3682	0.3084	7.1000e-004		0.0143	0.0143		0.0143	0.0143	0.0000	50.5163	50.5163	5.2400e-003		50.6474
Paving	0.1123					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.1711**	**0.3682**	**0.3084**	**7.1000e-004**		**0.0143**	**0.0143**		**0.0143**	**0.0143**	**0.0000**	**50.5163**	**50.5163**	**5.2400e-003**		**50.6474**

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	0.0000
Vendor	1.3300e-003	0.0239	0.0186	4.0000e-005	4.0000e-004	2.0000e-005	4.3000e-004	1.2000e-004	2.0000e-005	1.4000e-004		4.1400	4.1400	1.5000e-004	6.4000e-004	4.3354
Worker	0.0117	4.2500e-003	0.0456	3.0000e-005	1.5400e-003	5.0000e-005	1.5900e-003	4.2000e-004	5.0000e-005	4.7000e-004		3.0965	3.0965	1.0200e-003	5.6000e-004	3.2882
Total	**0.0131**	**0.0281**	**0.0643**	**7.0000e-005**	**1.9400e-003**	**7.0000e-005**	**2.0200e-003**	**5.4000e-004**	**7.0000e-005**	**6.1000e-004**		**7.2366**	**7.2366**	**1.1700e-003**	**1.2000e-003**	**7.6236**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.11 Pond and stream revitilization - 2024

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	0.5470	5.5825	4.6069	0.0101		0.2377	0.2377		0.2198	0.2198		957.9217	957.9217	0.2987		965.3897
Paving	0.0575					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.6045**	**5.5825**	**4.6069**	**0.0101**		**0.2377**	**0.2377**		**0.2198**	**0.2198**		**957.9217**	**957.9217**	**0.2987**		**965.3897**

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	0.0000
Vendor	1.3300e-003	0.0239	0.0186	4.0000e-005	4.0000e-004	2.0000e-005	4.3000e-004	1.2000e-004	2.0000e-005	1.4000e-004		4.1400	4.1400	1.5000e-004	6.4000e-004	4.3354
Worker	0.0234	8.5100e-003	0.0913	6.0000e-005	3.0800e-003	1.1000e-004	3.1900e-003	8.4000e-004	1.0000e-004	9.4000e-004		6.1931	6.1931	2.0500e-003	1.1100e-003	6.5763
Total	**0.0248**	**0.0324**	**0.1099**	**1.0000e-004**	**3.4800e-003**	**1.3000e-004**	**3.6200e-003**	**9.6000e-004**	**1.2000e-004**	**1.0800e-003**		**10.3331**	**10.3331**	**2.2000e-003**	**1.7500e-003**	**10.9117**

Spane Park Stormwater Capture Project- LST Analysis_Mitigated - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.11 Pond and stream revitilization - 2024

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	0.2108	1.5835	5.4537	0.0101		0.0528	0.0528		0.0507	0.0507	0.0000	957.9217	957.9217	0.2987		965.3897
Paving	0.0575					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.2683**	**1.5835**	**5.4537**	**0.0101**		**0.0528**	**0.0528**		**0.0507**	**0.0507**	**0.0000**	**957.9217**	**957.9217**	**0.2987**		**965.3897**

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	0.0000
Vendor	1.3300e-003	0.0239	0.0186	4.0000e-005	4.0000e-004	2.0000e-005	4.3000e-004	1.2000e-004	2.0000e-005	1.4000e-004		4.1400	4.1400	1.5000e-004	6.4000e-004	4.3354
Worker	0.0234	8.5100e-003	0.0913	6.0000e-005	3.0800e-003	1.1000e-004	3.1900e-003	8.4000e-004	1.0000e-004	9.4000e-004		6.1931	6.1931	2.0500e-003	1.1100e-003	6.5763
Total	**0.0248**	**0.0324**	**0.1099**	**1.0000e-004**	**3.4800e-003**	**1.3000e-004**	**3.6200e-003**	**9.6000e-004**	**1.2000e-004**	**1.0800e-003**		**10.3331**	**10.3331**	**2.2000e-003**	**1.7500e-003**	**10.9117**

Spane Park Stormwater Capture Project- LST Analysis_Mitigated - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.12 Ancillary park improvements - 2024

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	0.5470	5.5825	4.6069	0.0101		0.2377	0.2377		0.2198	0.2198		957.9217	957.9217	0.2987		965.3897
Paving	0.0575					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.6045**	**5.5825**	**4.6069**	**0.0101**		**0.2377**	**0.2377**		**0.2198**	**0.2198**		**957.9217**	**957.9217**	**0.2987**		**965.3897**

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	0.0000
Vendor	1.3300e-003	0.0239	0.0186	4.0000e-005	4.0000e-004	2.0000e-005	4.3000e-004	1.2000e-004	2.0000e-005	1.4000e-004		4.1400	4.1400	1.5000e-004	6.4000e-004	4.3354
Worker	0.0117	4.2500e-003	0.0456	3.0000e-005	1.5400e-003	5.0000e-005	1.5900e-003	4.2000e-004	5.0000e-005	4.7000e-004		3.0965	3.0965	1.0200e-003	5.6000e-004	3.2882
Total	**0.0131**	**0.0281**	**0.0643**	**7.0000e-005**	**1.9400e-003**	**7.0000e-005**	**2.0200e-003**	**5.4000e-004**	**7.0000e-005**	**6.1000e-004**		**7.2366**	**7.2366**	**1.1700e-003**	**1.2000e-003**	**7.6236**

Spane Park Stormwater Capture Project- LST Analysis_Mitigated - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.12 Ancillary park improvements - 2024

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	0.2108	1.5835	5.4537	0.0101		0.0528	0.0528		0.0507	0.0507	0.0000	957.9217	957.9217	0.2987		965.3897
Paving	0.0575					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.2683**	**1.5835**	**5.4537**	**0.0101**		**0.0528**	**0.0528**		**0.0507**	**0.0507**	**0.0000**	**957.9217**	**957.9217**	**0.2987**		**965.3897**

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	0.0000
Vendor	1.3300e-003	0.0239	0.0186	4.0000e-005	4.0000e-004	2.0000e-005	4.3000e-004	1.2000e-004	2.0000e-005	1.4000e-004		4.1400	4.1400	1.5000e-004	6.4000e-004	4.3354
Worker	0.0117	4.2500e-003	0.0456	3.0000e-005	1.5400e-003	5.0000e-005	1.5900e-003	4.2000e-004	5.0000e-005	4.7000e-004		3.0965	3.0965	1.0200e-003	5.6000e-004	3.2882
Total	**0.0131**	**0.0281**	**0.0643**	**7.0000e-005**	**1.9400e-003**	**7.0000e-005**	**2.0200e-003**	**5.4000e-004**	**7.0000e-005**	**6.1000e-004**		**7.2366**	**7.2366**	**1.1700e-003**	**1.2000e-003**	**7.6236**

Spane Park Stormwater Capture Project- LST Analysis_Mitigated - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.12 Ancillary park improvements - 2025

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	0.5178	5.1467	4.5578	0.0101		0.2168	0.2168		0.2006	0.2006		957.8483	957.8483	0.2987		965.3157
Paving	0.0575					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.5753**	**5.1467**	**4.5578**	**0.0101**		**0.2168**	**0.2168**		**0.2006**	**0.2006**		**957.8483**	**957.8483**	**0.2987**		**965.3157**

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	0.0000
Vendor	1.3200e-003	0.0238	0.0184	4.0000e-005	4.0000e-004	2.0000e-005	4.3000e-004	1.2000e-004	2.0000e-005	1.4000e-004		4.0669	4.0669	1.5000e-004	6.3000e-004	4.2589
Worker	0.0109	3.9400e-003	0.0436	3.0000e-005	1.5400e-003	5.0000e-005	1.5900e-003	4.2000e-004	5.0000e-005	4.7000e-004		2.9916	2.9916	9.4000e-004	5.3000e-004	3.1728
Total	**0.0122**	**0.0277**	**0.0620**	**7.0000e-005**	**1.9400e-003**	**7.0000e-005**	**2.0200e-003**	**5.4000e-004**	**7.0000e-005**	**6.1000e-004**		**7.0584**	**7.0584**	**1.0900e-003**	**1.1600e-003**	**7.4317**

Spane Park Stormwater Capture Project- LST Analysis_Mitigated - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.12 Ancillary park improvements - 2025

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	0.2078	1.5491	5.4485	0.0101		0.0503	0.0503		0.0484	0.0484	0.0000	957.8483	957.8483	0.2987		965.3157
Paving	0.0575					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.2653**	**1.5491**	**5.4485**	**0.0101**		**0.0503**	**0.0503**		**0.0484**	**0.0484**	**0.0000**	**957.8483**	**957.8483**	**0.2987**		**965.3157**

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	0.0000
Vendor	1.3200e-003	0.0238	0.0184	4.0000e-005	4.0000e-004	2.0000e-005	4.3000e-004	1.2000e-004	2.0000e-005	1.4000e-004		4.0669	4.0669	1.5000e-004	6.3000e-004	4.2589
Worker	0.0109	3.9400e-003	0.0436	3.0000e-005	1.5400e-003	5.0000e-005	1.5900e-003	4.2000e-004	5.0000e-005	4.7000e-004		2.9916	2.9916	9.4000e-004	5.3000e-004	3.1728
Total	**0.0122**	**0.0277**	**0.0620**	**7.0000e-005**	**1.9400e-003**	**7.0000e-005**	**2.0200e-003**	**5.4000e-004**	**7.0000e-005**	**6.1000e-004**		**7.0584**	**7.0584**	**1.0900e-003**	**1.1600e-003**	**7.4317**

Spane Park Stormwater Capture Project- LST Analysis_Mitigated - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.13 Parking reconstruction - 2024

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	0.4317	4.3439	6.3380	9.8900e-003		0.1983	0.1983		0.1833	0.1833		944.3545	944.3545	0.2979		951.8008
Paving	0.0761					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.5078**	**4.3439**	**6.3380**	**9.8900e-003**		**0.1983**	**0.1983**		**0.1833**	**0.1833**		**944.3545**	**944.3545**	**0.2979**		**951.8008**

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	0.0000
Vendor	1.3300e-003	0.0239	0.0186	4.0000e-005	4.0000e-004	2.0000e-005	4.3000e-004	1.2000e-004	2.0000e-005	1.4000e-004		4.1400	4.1400	1.5000e-004	6.4000e-004	4.3354
Worker	0.0469	0.0170	0.1826	1.2000e-004	6.1700e-003	2.1000e-004	6.3800e-003	1.6900e-003	1.9000e-004	1.8800e-003		12.3861	12.3861	4.1000e-003	2.2300e-003	13.1526
Total	**0.0482**	**0.0409**	**0.2012**	**1.6000e-004**	**6.5700e-003**	**2.3000e-004**	**6.8100e-003**	**1.8100e-003**	**2.1000e-004**	**2.0200e-003**		**16.5261**	**16.5261**	**4.2500e-003**	**2.8700e-003**	**17.4881**

Spane Park Stormwater Capture Project- LST Analysis_Mitigated - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.13 Parking reconstruction - 2024

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	0.1924	1.4675	7.1418	9.8900e-003		0.0483	0.0483		0.0462	0.0462	0.0000	944.3545	944.3545	0.2979		951.8008
Paving	0.0761					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.2684**	**1.4675**	**7.1418**	**9.8900e-003**		**0.0483**	**0.0483**		**0.0462**	**0.0462**	**0.0000**	**944.3545**	**944.3545**	**0.2979**		**951.8008**

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	0.0000
Vendor	1.3300e-003	0.0239	0.0186	4.0000e-005	4.0000e-004	2.0000e-005	4.3000e-004	1.2000e-004	2.0000e-005	1.4000e-004		4.1400	4.1400	1.5000e-004	6.4000e-004	4.3354
Worker	0.0469	0.0170	0.1826	1.2000e-004	6.1700e-003	2.1000e-004	6.3800e-003	1.6900e-003	1.9000e-004	1.8800e-003		12.3861	12.3861	4.1000e-003	2.2300e-003	13.1526
Total	**0.0482**	**0.0409**	**0.2012**	**1.6000e-004**	**6.5700e-003**	**2.3000e-004**	**6.8100e-003**	**1.8100e-003**	**2.1000e-004**	**2.0200e-003**		**16.5261**	**16.5261**	**4.2500e-003**	**2.8700e-003**	**17.4881**

Spane Park Stormwater Capture Project- LST Analysis_Mitigated - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.13 Parking reconstruction - 2025

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	0.4102	4.0695	6.3322	9.8800e-003		0.1805	0.1805		0.1669	0.1669		944.0095	944.0095	0.2977		951.4530
Paving	0.0761					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.4862**	**4.0695**	**6.3322**	**9.8800e-003**		**0.1805**	**0.1805**		**0.1669**	**0.1669**		**944.0095**	**944.0095**	**0.2977**		**951.4530**

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	0.0000
Vendor	1.3200e-003	0.0238	0.0184	4.0000e-005	4.0000e-004	2.0000e-005	4.3000e-004	1.2000e-004	2.0000e-005	1.4000e-004		4.0669	4.0669	1.5000e-004	6.3000e-004	4.2589
Worker	0.0435	0.0158	0.1743	1.2000e-004	6.1700e-003	2.0000e-004	6.3700e-003	1.6900e-003	1.9000e-004	1.8700e-003		11.9662	11.9662	3.7700e-003	2.1200e-003	12.6911
Total	**0.0448**	**0.0395**	**0.1927**	**1.6000e-004**	**6.5700e-003**	**2.2000e-004**	**6.8000e-003**	**1.8100e-003**	**2.1000e-004**	**2.0100e-003**		**16.0331**	**16.0331**	**3.9200e-003**	**2.7500e-003**	**16.9501**

Spane Park Stormwater Capture Project- LST Analysis_Mitigated - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.13 Parking reconstruction - 2025

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	0.1894	1.4332	7.1365	9.8800e-003		0.0458	0.0458		0.0439	0.0439	0.0000	944.0095	944.0095	0.2977		951.4530
Paving	0.0761					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.2654**	**1.4332**	**7.1365**	**9.8800e-003**		**0.0458**	**0.0458**		**0.0439**	**0.0439**	**0.0000**	**944.0095**	**944.0095**	**0.2977**		**951.4530**

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	0.0000
Vendor	1.3200e-003	0.0238	0.0184	4.0000e-005	4.0000e-004	2.0000e-005	4.3000e-004	1.2000e-004	2.0000e-005	1.4000e-004		4.0669	4.0669	1.5000e-004	6.3000e-004	4.2589
Worker	0.0435	0.0158	0.1743	1.2000e-004	6.1700e-003	2.0000e-004	6.3700e-003	1.6900e-003	1.9000e-004	1.8700e-003		11.9662	11.9662	3.7700e-003	2.1200e-003	12.6911
Total	**0.0448**	**0.0395**	**0.1927**	**1.6000e-004**	**6.5700e-003**	**2.2000e-004**	**6.8000e-003**	**1.8100e-003**	**2.1000e-004**	**2.0100e-003**		**16.0331**	**16.0331**	**3.9200e-003**	**2.7500e-003**	**16.9501**

Spane Park Stormwater Capture Project- LST Analysis_Mitigated - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	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

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Parking Lot	0.00	0.00	0.00		
User Defined Industrial	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
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
User Defined Industrial	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Spane Park Stormwater Capture Project- LST Analysis_Mitigated - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Parking Lot	0.540171	0.064547	0.189075	0.126673	0.023412	0.006384	0.010926	0.008089	0.000929	0.000597	0.025155	0.000706	0.003335
User Defined Industrial	0.540171	0.064547	0.189075	0.126673	0.023412	0.006384	0.010926	0.008089	0.000929	0.000597	0.025155	0.000706	0.003335

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

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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					
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
User Defined Industrial	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**

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					
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
User Defined Industrial	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

Spane Park Stormwater Capture Project- LST Analysis_Mitigated - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	2.6651	1.5000e-004	0.0160	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0345	0.0345	9.0000e-005		0.0367
Unmitigated	2.6651	1.5000e-004	0.0160	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0345	0.0345	9.0000e-005		0.0367

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	0.3039					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.3598					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.4800e-003	1.5000e-004	0.0160	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0345	0.0345	9.0000e-005		0.0367
Total	**2.6652**	**1.5000e-004**	**0.0160**	**0.0000**		**6.0000e-005**	**6.0000e-005**		**6.0000e-005**	**6.0000e-005**		**0.0345**	**0.0345**	**9.0000e-005**		**0.0367**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	0.3039					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.3598					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.4800e-003	1.5000e-004	0.0160	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0345	0.0345	9.0000e-005		0.0367
Total	**2.6652**	**1.5000e-004**	**0.0160**	**0.0000**		**6.0000e-005**	**6.0000e-005**		**6.0000e-005**	**6.0000e-005**		**0.0345**	**0.0345**	**9.0000e-005**		**0.0367**

7.0 Water Detail

7.1 Mitigation Measures Water

Spane Park Stormwater Capture Project- LST Analysis_Mitigated - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Spane Park Stormwater Capture Project- LST Analysis_Mitigated

Los Angeles-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Industrial	118.48	User Defined Unit	2.72	118,483.00	0
Parking Lot	39.00	1000sqft	0.90	39,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	9			**Operational Year**	2025
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - 2.72 acre area disturbed. 39,000 SF paved. Provided by applicant

Construction Phase - Construction schedule provided by applicant.

Off-road Equipment - Equipment provided by project applicant.

Off-road Equipment - Equipment provided by project applicant.

Off-road Equipment - Equipment provided by project applicant.

Off-road Equipment - Equipment provided by project applicant.

Off-road Equipment - Equipment provided by project applicant.

Off-road Equipment - Equipment provided by project applicant.

Off-road Equipment - Equipment provided by project applicant.

Off-road Equipment - Equipment provided by project applicant.

Spane Park Stormwater Capture Project- LST Analysis_Mitigated - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Off-road Equipment - Equipment provided by project applicant.

Off-road Equipment - Equipment provided by project applicant.

Off-road Equipment - Equipment provided by project applicant.

Off-road Equipment - Equipment provided by project applicant.

Trips and VMT - Trips provided by applicant. For LST analysis- only concerned with localized emissions (i.e., within 1,000 ft of the project site).

Demolition - Data provided by applicant.

Grading - Data provided by project applicant.

Vehicle Trips - Construction only.

Vehicle Emission Factors - Construction only.

Road Dust - Construction only.

Woodstoves - Construction only.

Consumer Products - Construction only.

Area Coating - Construction only.

Landscape Equipment - Construction only.

Energy Use - Construction only.

Water And Wastewater - Construction only.

Solid Waste - Construction only.

Construction Off-road Equipment Mitigation - Includes watering 3x daily and replacing groundcover per MM-AQ-1. Tier 4 offroad equipment over 75 horsepower per MM-AQ-2.

Fleet Mix - Construction only.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	230.00	76.00
tblConstructionPhase	NumDays	230.00	21.00
tblConstructionPhase	NumDays	230.00	51.00
tblConstructionPhase	NumDays	230.00	21.00
tblConstructionPhase	NumDays	20.00	21.00
tblConstructionPhase	NumDays	8.00	51.00
tblConstructionPhase	NumDays	18.00	41.00
tblConstructionPhase	NumDays	18.00	41.00

Spane Park Stormwater Capture Project- LST Analysis_Mitigated - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblConstructionPhase	NumDays	18.00	31.00
tblConstructionPhase	NumDays	18.00	21.00
tblConstructionPhase	NumDays	5.00	41.00
tblEnergyUse	LightingElect	0.35	0.00
tblGrading	AcresOfGrading	25.50	8.00
tblGrading	AcresOfGrading	41.00	7.50
tblGrading	MaterialExported	0.00	18,000.00
tblGrading	MaterialExported	0.00	1,800.00
tblLandUse	LandUseSquareFeet	0.00	118,483.00
tblLandUse	LotAcreage	0.00	2.72
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19

Spane Park Stormwater Capture Project- LST Analysis_Mitigated - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripNumber	25.00	26.00
tblTripsAndVMT	HaulingTripNumber	225.00	226.00
tblTripsAndVMT	HaulingTripNumber	0.00	20.00
tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	26.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblTripsAndVMT	VendorTripNumber	26.00	2.00
tblTripsAndVMT	VendorTripNumber	26.00	2.00
tblTripsAndVMT	VendorTripNumber	26.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripLength	14.70	0.19
tblTripsAndVMT	WorkerTripLength	14.70	0.19
tblTripsAndVMT	WorkerTripLength	14.70	0.19
tblTripsAndVMT	WorkerTripLength	14.70	0.19
tblTripsAndVMT	WorkerTripLength	14.70	0.19
tblTripsAndVMT	WorkerTripLength	14.70	0.19
tblTripsAndVMT	WorkerTripLength	14.70	0.19
tblTripsAndVMT	WorkerTripLength	14.70	0.19
tblTripsAndVMT	WorkerTripLength	14.70	0.19
tblTripsAndVMT	WorkerTripLength	14.70	0.19
tblTripsAndVMT	WorkerTripLength	14.70	0.19
tblTripsAndVMT	WorkerTripNumber	10.00	20.00
tblTripsAndVMT	WorkerTripNumber	10.00	40.00
tblTripsAndVMT	WorkerTripNumber	8.00	20.00
tblTripsAndVMT	WorkerTripNumber	8.00	20.00
tblTripsAndVMT	WorkerTripNumber	66.00	20.00
tblTripsAndVMT	WorkerTripNumber	8.00	24.00
tblTripsAndVMT	WorkerTripNumber	66.00	16.00
tblTripsAndVMT	WorkerTripNumber	66.00	30.00
tblTripsAndVMT	WorkerTripNumber	66.00	10.00
tblTripsAndVMT	WorkerTripNumber	3.00	10.00

2.0 Emissions Summary

Spane Park Stormwater Capture Project- LST Analysis_Mitigated - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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					
2023	2.3733	23.7732	15.2638	0.0352	12.4649	1.0058	13.3930	6.6705	0.9376	7.5244	0.0000	3,392.2991	3,392.2991	0.9797	0.0295	3,416.8140
2024	1.8750	19.0298	12.3233	0.0278	8.5100e-003	0.8848	0.8925	2.3500e-003	0.8140	0.8161	0.0000	2,696.2138	2,696.2138	0.8699	4.2700e-003	2,719.2088
2025	1.1153	9.2884	11.1835	0.0202	8.5100e-003	0.3976	0.4062	2.3500e-003	0.3678	0.3701	0.0000	1,924.6751	1,924.6751	0.6021	4.1000e-003	1,940.9507
Maximum	**2.3733**	**23.7732**	**15.2638**	**0.0352**	**12.4649**	**1.0058**	**13.3930**	**6.6705**	**0.9376**	**7.5244**	**0.0000**	**3,392.2991**	**3,392.2991**	**0.9797**	**0.0295**	**3,416.8140**

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					
2023	0.5537	4.1878	18.0005	0.0352	3.6569	0.1069	3.7604	1.9542	0.1022	2.0529	0.0000	3,392.2991	3,392.2991	0.9797	0.0295	3,416.8140
2024	0.6111	4.6433	14.6278	0.0278	8.5100e-003	0.1943	0.2014	2.3500e-003	0.1822	0.1842	0.0000	2,696.2138	2,696.2138	0.8699	4.2700e-003	2,719.2088
2025	0.5845	3.0544	12.8785	0.0202	8.5100e-003	0.0964	0.1049	2.3500e-003	0.0925	0.0949	0.0000	1,924.6751	1,924.6751	0.6021	4.1000e-003	1,940.9507
Maximum	**0.6111**	**4.6433**	**18.0005**	**0.0352**	**3.6569**	**0.1943**	**3.7604**	**1.9542**	**0.1822**	**2.0529**	**0.0000**	**3,392.2991**	**3,392.2991**	**0.9797**	**0.0295**	**3,416.8140**

Spane Park Stormwater Capture Project- LST Analysis_Mitigated - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	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	**67.39**	**77.18**	**-17.37**	**0.00**	**70.57**	**82.62**	**72.32**	**70.65**	**82.22**	**73.23**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Spane Park Stormwater Capture Project- LST Analysis_Mitigated - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	2.6651	1.5000e-004	0.0160	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0345	0.0345	9.0000e-005		0.0367
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	0.0000
Total	**2.6651**	**1.5000e-004**	**0.0160**	**0.0000**	**0.0000**	**6.0000e-005**	**6.0000e-005**	**0.0000**	**6.0000e-005**	**6.0000e-005**		**0.0345**	**0.0345**	**9.0000e-005**	**0.0000**	**0.0367**

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	2.6651	1.5000e-004	0.0160	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0345	0.0345	9.0000e-005		0.0367
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	0.0000
Total	**2.6651**	**1.5000e-004**	**0.0160**	**0.0000**	**0.0000**	**6.0000e-005**	**6.0000e-005**	**0.0000**	**6.0000e-005**	**6.0000e-005**		**0.0345**	**0.0345**	**9.0000e-005**	**0.0000**	**0.0367**

Spane Park Stormwater Capture Project- LST Analysis_Mitigated - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	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	Demolition of existing basketball courts and restroom building	Demolition	8/1/2023	8/29/2023	5	21	
2	Site mobilization, clearing, grubbing, and vegetation removal	Site Preparation	8/1/2023	9/26/2023	5	41	
3	Reservoir excavation	Grading	9/25/2023	12/4/2023	5	51	
4	Reservoir construction	Building Construction	12/11/2023	3/25/2024	5	76	
5	Pipeline, diversion structure, and treatment facility/pump installation	Trenching	2/5/2024	4/1/2024	5	41	
6	Field surface replacement	Building Construction	4/1/2024	4/29/2024	5	21	
7	Restroom building construction	Building Construction	5/6/2024	7/15/2024	5	51	
8	Basketball court construction	Building Construction	7/22/2024	8/19/2024	5	21	
9	Concrete pathway improvements	Paving	8/26/2024	9/23/2024	5	21	
10	Pond and stream revitilization	Paving	9/23/2024	11/18/2024	5	41	
11	Ancillary park improvements	Paving	11/11/2024	1/6/2025	5	41	
12	Parking reconstruction	Paving	12/9/2024	1/20/2025	5	31	

Acres of Grading (Site Preparation Phase): 7.5

Acres of Grading (Grading Phase): 8

Acres of Paving: 0.9

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

OffRoad Equipment

Spane Park Stormwater Capture Project- LST Analysis_Mitigated - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition of existing basketball courts and restroom building	Crushing/Proc. Equipment	1	8.00	85	0.78
Demolition of existing basketball courts and restroom building	Rubber Tired Dozers	1	8.00	247	0.40
Demolition of existing basketball courts and restroom building	Skid Steer Loaders	1	8.00	65	0.37
Site mobilization, clearing, grubbing, and vegetation removal	Graders	1	8.00	187	0.41
Site mobilization, clearing, grubbing, and vegetation removal	Rubber Tired Dozers	1	8.00	247	0.40
Site mobilization, clearing, grubbing, and vegetation removal	Skid Steer Loaders	1	8.00	65	0.37
Reservoir excavation	Rubber Tired Dozers	1	8.00	247	0.40
Reservoir excavation	Skid Steer Loaders	1	8.00	65	0.37
Reservoir excavation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Reservoir construction	Cranes	1	8.00	231	0.29
Reservoir construction	Rubber Tired Dozers	1	8.00	247	0.40
Reservoir construction	Skid Steer Loaders	1	8.00	65	0.37
Pipeline, diversion structure, and treatment facility/pump installation	Cranes	1	8.00	231	0.29
Pipeline, diversion structure, and treatment facility/pump installation	Skid Steer Loaders	1	8.00	65	0.37
Pipeline, diversion structure, and treatment facility/pump installation	Trenchers	1	8.00	78	0.50
Field surface replacement	Dumpers/Tenders	1	8.00	16	0.38
Field surface replacement	Graders	1	8.00	187	0.41
Field surface replacement	Skid Steer Loaders	1	8.00	65	0.37
Field surface replacement	Sweepers/Scrubbers	1	8.00	64	0.46
Restroom building construction	Aerial Lifts	1	8.00	63	0.31
Restroom building construction	Cement and Mortar Mixers	1	8.00	9	0.56
Restroom building construction	Cranes	1	8.00	231	0.29
Restroom building construction	Forklifts	1	8.00	89	0.20
Basketball court construction	Aerial Lifts	1	8.00	63	0.31
Basketball court construction	Cement and Mortar Mixers	3	8.00	9	0.56
Basketball court construction	Cranes	1	8.00	231	0.29

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Basketball court construction	Forklifts	1	8.00	89	0.20
Concrete pathway improvements	Cement and Mortar Mixers	1	8.00	9	0.56
Pond and stream revitilization	Cement and Mortar Mixers	1	8.00	9	0.56
Pond and stream revitilization	Cranes	1	8.00	231	0.29
Pond and stream revitilization	Forklifts	1	8.00	89	0.20
Pond and stream revitilization	Skid Steer Loaders	1	8.00	65	0.37
Ancillary park improvements	Cement and Mortar Mixers	1	8.00	9	0.56
Ancillary park improvements	Cranes	1	8.00	231	0.29
Ancillary park improvements	Forklifts	1	8.00	89	0.20
Ancillary park improvements	Skid Steer Loaders	1	8.00	65	0.37
Parking reconstruction	Pavers	1	8.00	130	0.42
Parking reconstruction	Plate Compactors	1	8.00	8	0.43
Parking reconstruction	Rollers	1	8.00	80	0.38
Parking reconstruction	Skid Steer Loaders	1	8.00	65	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
Demolition of existing basketball courts and r	3	8.00	0.00	26.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Site mobilization, clearing, grubbing, an	3	20.00	0.00	226.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Reservoir excavation	3	20.00	0.00	2,250.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Reservoir construction	3	20.00	2.00	0.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Pipeline, diversion structure, and treatme	3	24.00	2.00	20.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Field surface replacement	4	16.00	2.00	0.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Restroom building construction	4	30.00	2.00	0.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Basketball court construction	6	10.00	2.00	0.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Concrete pathway improvements	1	10.00	2.00	0.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Pond and stream revitilization	4	20.00	2.00	0.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Ancillary park improvements	4	10.00	2.00	0.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Parking reconstruction	4	40.00	2.00	0.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Replace Ground Cover

Water Exposed Area

3.2 Demolition of existing basketball courts and restroom building - 2023

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					0.2598	0.0000	0.2598	0.0393	0.0000	0.0393			0.0000			0.0000
Off-Road	1.2000	10.9760	8.8183	0.0176		0.5045	0.5045		0.4765	0.4765		1,692.0171	1,692.0171	0.3721		1,701.3187
Total	**1.2000**	**10.9760**	**8.8183**	**0.0176**	**0.2598**	**0.5045**	**0.7644**	**0.0393**	**0.4765**	**0.5159**		**1,692.0171**	**1,692.0171**	**0.3721**		**1,701.3187**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Demolition of existing basketball courts and restroom building - 2023

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	1.1700e-003	0.0253	0.0193	4.0000e-005	2.3000e-004	2.0000e-005	2.6000e-004	7.0000e-005	2.0000e-005	9.0000e-005		4.2635	4.2635	1.3000e-004	6.7000e-004	4.4677
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
Worker	9.6500e-003	4.0500e-003	0.0445	2.0000e-005	1.2300e-003	4.0000e-005	1.2800e-003	3.4000e-004	4.0000e-005	3.8000e-004		2.4842	2.4842	1.0100e-003	5.0000e-004	2.6586
Total	**0.0108**	**0.0294**	**0.0638**	**6.0000e-005**	**1.4600e-003**	**6.0000e-005**	**1.5400e-003**	**4.1000e-004**	**6.0000e-005**	**4.7000e-004**		**6.7477**	**6.7477**	**1.1400e-003**	**1.1700e-003**	**7.1263**

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					0.0760	0.0000	0.0760	0.0115	0.0000	0.0115			0.0000			0.0000
Off-Road	0.2398	1.6218	9.5455	0.0176		0.0526	0.0526		0.0502	0.0502	0.0000	1,692.0171	1,692.0171	0.3721		1,701.3187
Total	**0.2398**	**1.6218**	**9.5455**	**0.0176**	**0.0760**	**0.0526**	**0.1286**	**0.0115**	**0.0502**	**0.0617**	**0.0000**	**1,692.0171**	**1,692.0171**	**0.3721**		**1,701.3187**

Spane Park Stormwater Capture Project- LST Analysis_Mitigated - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Demolition of existing basketball courts and restroom building - 2023

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	1.1700e-003	0.0253	0.0193	4.0000e-005	2.3000e-004	2.0000e-005	2.6000e-004	7.0000e-005	2.0000e-005	9.0000e-005		4.2635	4.2635	1.3000e-004	6.7000e-004	4.4677
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
Worker	9.6500e-003	4.0500e-003	0.0445	2.0000e-005	1.2300e-003	4.0000e-005	1.2800e-003	3.4000e-004	4.0000e-005	3.8000e-004		2.4842	2.4842	1.0100e-003	5.0000e-004	2.6586
Total	**0.0108**	**0.0294**	**0.0638**	**6.0000e-005**	**1.4600e-003**	**6.0000e-005**	**1.5400e-003**	**4.1000e-004**	**6.0000e-005**	**4.7000e-004**		**6.7477**	**6.7477**	**1.1400e-003**	**1.1700e-003**	**7.1263**

Spane Park Stormwater Capture Project- LST Analysis_Mitigated - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Site mobilization, clearing, grubbing, and vegetation removal - 2023

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					6.2210	0.0000	6.2210	3.3319	0.0000	3.3319			0.0000			0.0000
Off-Road	1.1332	12.6449	6.1844	0.0172		0.5009	0.5009		0.4609	0.4609		1,668.3421	1,668.3421	0.5396		1,681.8315
Total	**1.1332**	**12.6449**	**6.1844**	**0.0172**	**6.2210**	**0.5009**	**6.7220**	**3.3319**	**0.4609**	**3.7928**		**1,668.3421**	**1,668.3421**	**0.5396**		**1,681.8315**

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	5.2300e-003	0.1128	0.0860	1.8000e-004	1.0300e-003	1.1000e-004	1.1400e-003	2.9000e-004	1.1000e-004	4.0000e-004		18.9817	18.9817	5.8000e-004	3.0000e-003	19.8911
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
Worker	0.0241	0.0101	0.1113	6.0000e-005	3.0800e-003	1.1000e-004	3.1900e-003	8.4000e-004	1.0000e-004	9.4000e-004		6.2105	6.2105	2.5200e-003	1.2500e-003	6.6464
Total	**0.0294**	**0.1230**	**0.1973**	**2.4000e-004**	**4.1100e-003**	**2.2000e-004**	**4.3300e-003**	**1.1300e-003**	**2.1000e-004**	**1.3400e-003**		**25.1923**	**25.1923**	**3.1000e-003**	**4.2500e-003**	**26.5375**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Site mobilization, clearing, grubbing, and vegetation removal - 2023

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					1.8197	0.0000	1.8197	0.9746	0.0000	0.9746			0.0000			0.0000
Off-Road	0.2508	1.6693	8.1939	0.0172		0.0540	0.0540		0.0517	0.0517	0.0000	1,668.3421	1,668.3421	0.5396		1,681.8315
Total	**0.2508**	**1.6693**	**8.1939**	**0.0172**	**1.8197**	**0.0540**	**1.8737**	**0.9746**	**0.0517**	**1.0263**	**0.0000**	**1,668.3421**	**1,668.3421**	**0.5396**		**1,681.8315**

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	5.2300e-003	0.1128	0.0860	1.8000e-004	1.0300e-003	1.1000e-004	1.1400e-003	2.9000e-004	1.1000e-004	4.0000e-004		18.9817	18.9817	5.8000e-004	3.0000e-003	19.8911
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
Worker	0.0241	0.0101	0.1113	6.0000e-005	3.0800e-003	1.1000e-004	3.1900e-003	8.4000e-004	1.0000e-004	9.4000e-004		6.2105	6.2105	2.5200e-003	1.2500e-003	6.6464
Total	**0.0294**	**0.1230**	**0.1973**	**2.4000e-004**	**4.1100e-003**	**2.2000e-004**	**4.3300e-003**	**1.1300e-003**	**2.1000e-004**	**1.3400e-003**		**25.1923**	**25.1923**	**3.1000e-003**	**4.2500e-003**	**26.5375**

Spane Park Stormwater Capture Project- LST Analysis_Mitigated - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Reservoir excavation - 2023

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					6.2284	0.0000	6.2284	3.3342	0.0000	3.3342			0.0000			0.0000
Off-Road	0.9011	9.5275	6.7231	0.0137		0.4260	0.4260		0.3919	0.3919		1,329.0634	1,329.0634	0.4299		1,339.8096
Total	**0.9011**	**9.5275**	**6.7231**	**0.0137**	**6.2284**	**0.4260**	**6.6543**	**3.3342**	**0.3919**	**3.7261**		**1,329.0634**	**1,329.0634**	**0.4299**		**1,339.8096**

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	0.0419	0.9031	0.6885	1.4000e-003	8.2700e-003	8.9000e-004	9.1500e-003	2.3500e-003	8.5000e-004	3.2000e-003		151.9231	151.9231	4.6700e-003	0.0240	159.2010
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
Worker	0.0241	0.0101	0.1113	6.0000e-005	3.0800e-003	1.1000e-004	3.1900e-003	8.4000e-004	1.0000e-004	9.4000e-004		6.2105	6.2105	2.5200e-003	1.2500e-003	6.6464
Total	**0.0660**	**0.9132**	**0.7998**	**1.4600e-003**	**0.0114**	**1.0000e-003**	**0.0123**	**3.1900e-003**	**9.5000e-004**	**4.1400e-003**		**158.1336**	**158.1336**	**7.1900e-003**	**0.0253**	**165.8474**

Spane Park Stormwater Capture Project- LST Analysis_Mitigated - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Reservoir excavation - 2023

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					1.8218	0.0000	1.8218	0.9753	0.0000	0.9753			0.0000			0.0000
Off-Road	0.2076	1.4823	7.5610	0.0137		0.0483	0.0483		0.0459	0.0459	0.0000	1,329.0634	1,329.0634	0.4299		1,339.8096
Total	**0.2076**	**1.4823**	**7.5610**	**0.0137**	**1.8218**	**0.0483**	**1.8701**	**0.9753**	**0.0459**	**1.0212**	**0.0000**	**1,329.0634**	**1,329.0634**	**0.4299**		**1,339.8096**

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	0.0419	0.9031	0.6885	1.4000e-003	8.2700e-003	8.9000e-004	9.1500e-003	2.3500e-003	8.5000e-004	3.2000e-003		151.9231	151.9231	4.6700e-003	0.0240	159.2010
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
Worker	0.0241	0.0101	0.1113	6.0000e-005	3.0800e-003	1.1000e-004	3.1900e-003	8.4000e-004	1.0000e-004	9.4000e-004		6.2105	6.2105	2.5200e-003	1.2500e-003	6.6464
Total	**0.0660**	**0.9132**	**0.7998**	**1.4600e-003**	**0.0114**	**1.0000e-003**	**0.0123**	**3.1900e-003**	**9.5000e-004**	**4.1400e-003**		**158.1336**	**158.1336**	**7.1900e-003**	**0.0253**	**165.8474**

Spane Park Stormwater Capture Project- LST Analysis_Mitigated - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Reservoir construction - 2023

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	1.1012	11.8074	6.3262	0.0164		0.5095	0.5095		0.4688	0.4688		1,586.3062	1,586.3062	0.5130		1,599.1323
Total	**1.1012**	**11.8074**	**6.3262**	**0.0164**		**0.5095**	**0.5095**		**0.4688**	**0.4688**		**1,586.3062**	**1,586.3062**	**0.5130**		**1,599.1323**

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	0.0000
Vendor	1.2300e-003	0.0255	0.0199	4.0000e-005	4.0000e-004	3.0000e-005	4.3000e-004	1.2000e-004	2.0000e-005	1.5000e-004		4.2706	4.2706	1.4000e-004	6.6000e-004	4.4721
Worker	0.0241	0.0101	0.1113	6.0000e-005	3.0800e-003	1.1000e-004	3.1900e-003	8.4000e-004	1.0000e-004	9.4000e-004		6.2105	6.2105	2.5200e-003	1.2500e-003	6.6464
Total	**0.0254**	**0.0356**	**0.1312**	**1.0000e-004**	**3.4800e-003**	**1.4000e-004**	**3.6200e-003**	**9.6000e-004**	**1.2000e-004**	**1.0900e-003**		**10.4811**	**10.4811**	**2.6600e-003**	**1.9100e-003**	**11.1185**

Spane Park Stormwater Capture Project- LST Analysis_Mitigated - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Reservoir construction - 2023

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	0.2405	1.6249	7.8183	0.0164		0.0526	0.0526		0.0503	0.0503	0.0000	1,586.3062	1,586.3062	0.5130		1,599.1323
Total	**0.2405**	**1.6249**	**7.8183**	**0.0164**		**0.0526**	**0.0526**		**0.0503**	**0.0503**	**0.0000**	**1,586.3062**	**1,586.3062**	**0.5130**		**1,599.1323**

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	0.0000
Vendor	1.2300e-003	0.0255	0.0199	4.0000e-005	4.0000e-004	3.0000e-005	4.3000e-004	1.2000e-004	2.0000e-005	1.5000e-004		4.2706	4.2706	1.4000e-004	6.6000e-004	4.4721
Worker	0.0241	0.0101	0.1113	6.0000e-005	3.0800e-003	1.1000e-004	3.1900e-003	8.4000e-004	1.0000e-004	9.4000e-004		6.2105	6.2105	2.5200e-003	1.2500e-003	6.6464
Total	**0.0254**	**0.0356**	**0.1312**	**1.0000e-004**	**3.4800e-003**	**1.4000e-004**	**3.6200e-003**	**9.6000e-004**	**1.2000e-004**	**1.0900e-003**		**10.4811**	**10.4811**	**2.6600e-003**	**1.9100e-003**	**11.1185**

Spane Park Stormwater Capture Project- LST Analysis_Mitigated - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Reservoir construction - 2024

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	1.0891	11.4584	6.2903	0.0164		0.4935	0.4935		0.4541	0.4541		1,586.3556	1,586.3556	0.5131		1,599.1821
Total	**1.0891**	**11.4584**	**6.2903**	**0.0164**		**0.4935**	**0.4935**		**0.4541**	**0.4541**		**1,586.3556**	**1,586.3556**	**0.5131**		**1,599.1821**

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	0.0000
Vendor	1.2100e-003	0.0254	0.0196	4.0000e-005	4.0000e-004	2.0000e-005	4.3000e-004	1.2000e-004	2.0000e-005	1.5000e-004		4.2081	4.2081	1.4000e-004	6.5000e-004	4.4069
Worker	0.0222	9.3400e-003	0.1067	6.0000e-005	3.0800e-003	1.1000e-004	3.1900e-003	8.4000e-004	1.0000e-004	9.4000e-004		6.0232	6.0232	2.3200e-003	1.1900e-003	6.4353
Total	**0.0234**	**0.0347**	**0.1263**	**1.0000e-004**	**3.4800e-003**	**1.3000e-004**	**3.6200e-003**	**9.6000e-004**	**1.2000e-004**	**1.0900e-003**		**10.2314**	**10.2314**	**2.4600e-003**	**1.8400e-003**	**10.8421**

Spane Park Stormwater Capture Project- LST Analysis_Mitigated - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Reservoir construction - 2024

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	0.2378	1.5867	7.8174	0.0164		0.0500	0.0500		0.0478	0.0478	0.0000	1,586.3556	1,586.3556	0.5131		1,599.1821
Total	**0.2378**	**1.5867**	**7.8174**	**0.0164**		**0.0500**	**0.0500**		**0.0478**	**0.0478**	**0.0000**	**1,586.3556**	**1,586.3556**	**0.5131**		**1,599.1821**

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	0.0000
Vendor	1.2100e-003	0.0254	0.0196	4.0000e-005	4.0000e-004	2.0000e-005	4.3000e-004	1.2000e-004	2.0000e-005	1.5000e-004		4.2081	4.2081	1.4000e-004	6.5000e-004	4.4069
Worker	0.0222	9.3400e-003	0.1067	6.0000e-005	3.0800e-003	1.1000e-004	3.1900e-003	8.4000e-004	1.0000e-004	9.4000e-004		6.0232	6.0232	2.3200e-003	1.1900e-003	6.4353
Total	**0.0234**	**0.0347**	**0.1263**	**1.0000e-004**	**3.4800e-003**	**1.3000e-004**	**3.6200e-003**	**9.6000e-004**	**1.2000e-004**	**1.0900e-003**		**10.2314**	**10.2314**	**2.4600e-003**	**1.8400e-003**	**10.8421**

Spane Park Stormwater Capture Project- LST Analysis_Mitigated - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Pipeline, diversion structure, and treatment facility/pump installation - 2024

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	0.7341	7.4901	5.7514	0.0112		0.3910	0.3910		0.3597	0.3597		1,086.5346	1,086.5346	0.3514		1,095.3198
Total	**0.7341**	**7.4901**	**5.7514**	**0.0112**		**0.3910**	**0.3910**		**0.3597**	**0.3597**		**1,086.5346**	**1,086.5346**	**0.3514**		**1,095.3198**

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	4.6000e-004	9.9400e-003	7.6100e-003	2.0000e-005	9.0000e-005	1.0000e-005	1.0000e-004	3.0000e-005	1.0000e-005	4.0000e-005		1.6562	1.6562	5.0000e-005	2.6000e-004	1.7356
Vendor	1.2100e-003	0.0254	0.0196	4.0000e-005	4.0000e-004	2.0000e-005	4.3000e-004	1.2000e-004	2.0000e-005	1.5000e-004		4.2081	4.2081	1.4000e-004	6.5000e-004	4.4069
Worker	0.0267	0.0112	0.1281	7.0000e-005	3.7000e-003	1.3000e-004	3.8300e-003	1.0100e-003	1.2000e-004	1.1300e-003		7.2279	7.2279	2.7800e-003	1.4300e-003	7.7223
Total	**0.0283**	**0.0465**	**0.1553**	**1.3000e-004**	**4.1900e-003**	**1.6000e-004**	**4.3600e-003**	**1.1600e-003**	**1.5000e-004**	**1.3200e-003**		**13.0922**	**13.0922**	**2.9700e-003**	**2.3400e-003**	**13.8647**

Spane Park Stormwater Capture Project- LST Analysis_Mitigated - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Pipeline, diversion structure, and treatment facility/pump installation - 2024

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	0.1745	1.3125	6.5288	0.0112		0.0415	0.0415		0.0394	0.0394	0.0000	1,086.5346	1,086.5346	0.3514		1,095.3198
Total	**0.1745**	**1.3125**	**6.5288**	**0.0112**		**0.0415**	**0.0415**		**0.0394**	**0.0394**	**0.0000**	**1,086.5346**	**1,086.5346**	**0.3514**		**1,095.3198**

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	4.6000e-004	9.9400e-003	7.6100e-003	2.0000e-005	9.0000e-005	1.0000e-005	1.0000e-004	3.0000e-005	1.0000e-005	4.0000e-005		1.6562	1.6562	5.0000e-005	2.6000e-004	1.7356
Vendor	1.2100e-003	0.0254	0.0196	4.0000e-005	4.0000e-004	2.0000e-005	4.3000e-004	1.2000e-004	2.0000e-005	1.5000e-004		4.2081	4.2081	1.4000e-004	6.5000e-004	4.4069
Worker	0.0267	0.0112	0.1281	7.0000e-005	3.7000e-003	1.3000e-004	3.8300e-003	1.0100e-003	1.2000e-004	1.1300e-003		7.2279	7.2279	2.7800e-003	1.4300e-003	7.7223
Total	**0.0283**	**0.0465**	**0.1553**	**1.3000e-004**	**4.1900e-003**	**1.6000e-004**	**4.3600e-003**	**1.1600e-003**	**1.5000e-004**	**1.3200e-003**		**13.0922**	**13.0922**	**2.9700e-003**	**2.3400e-003**	**13.8647**

Spane Park Stormwater Capture Project- LST Analysis_Mitigated - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Field surface replacement - 2024

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	0.6628	7.0555	5.2093	0.0120		0.2765	0.2765		0.2557	0.2557		1,148.1914	1,148.1914	0.3582		1,157.1459
Total	**0.6628**	**7.0555**	**5.2093**	**0.0120**		**0.2765**	**0.2765**		**0.2557**	**0.2557**		**1,148.1914**	**1,148.1914**	**0.3582**		**1,157.1459**

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	0.0000
Vendor	1.2100e-003	0.0254	0.0196	4.0000e-005	4.0000e-004	2.0000e-005	4.3000e-004	1.2000e-004	2.0000e-005	1.5000e-004		4.2081	4.2081	1.4000e-004	6.5000e-004	4.4069
Worker	0.0178	7.4700e-003	0.0854	5.0000e-005	2.4700e-003	8.0000e-005	2.5500e-003	6.7000e-004	8.0000e-005	7.5000e-004		4.8186	4.8186	1.8600e-003	9.5000e-004	5.1482
Total	**0.0190**	**0.0329**	**0.1050**	**9.0000e-005**	**2.8700e-003**	**1.0000e-004**	**2.9800e-003**	**7.9000e-004**	**1.0000e-004**	**9.0000e-004**		**9.0267**	**9.0267**	**2.0000e-003**	**1.6000e-003**	**9.5551**

Spane Park Stormwater Capture Project- LST Analysis_Mitigated - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Field surface replacement - 2024

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	0.3893	3.2514	6.5278	0.0120		0.1525	0.1525		0.1426	0.1426	0.0000	1,148.1914	1,148.1914	0.3582		1,157.1459
Total	**0.3893**	**3.2514**	**6.5278**	**0.0120**		**0.1525**	**0.1525**		**0.1426**	**0.1426**	**0.0000**	**1,148.1914**	**1,148.1914**	**0.3582**		**1,157.1459**

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	0.0000
Vendor	1.2100e-003	0.0254	0.0196	4.0000e-005	4.0000e-004	2.0000e-005	4.3000e-004	1.2000e-004	2.0000e-005	1.5000e-004		4.2081	4.2081	1.4000e-004	6.5000e-004	4.4069
Worker	0.0178	7.4700e-003	0.0854	5.0000e-005	2.4700e-003	8.0000e-005	2.5500e-003	6.7000e-004	8.0000e-005	7.5000e-004		4.8186	4.8186	1.8600e-003	9.5000e-004	5.1482
Total	**0.0190**	**0.0329**	**0.1050**	**9.0000e-005**	**2.8700e-003**	**1.0000e-004**	**2.9800e-003**	**7.9000e-004**	**1.0000e-004**	**9.0000e-004**		**9.0267**	**9.0267**	**2.0000e-003**	**1.6000e-003**	**9.5551**

Spane Park Stormwater Capture Project- LST Analysis_Mitigated - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.8 Restroom building construction - 2024

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	0.5193	5.2823	4.3152	9.6900e-003		0.2203	0.2203		0.2038	0.2038		919.9743	919.9743	0.2864		927.1355
Total	**0.5193**	**5.2823**	**4.3152**	**9.6900e-003**		**0.2203**	**0.2203**		**0.2038**	**0.2038**		**919.9743**	**919.9743**	**0.2864**		**927.1355**

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	0.0000
Vendor	1.2100e-003	0.0254	0.0196	4.0000e-005	4.0000e-004	2.0000e-005	4.3000e-004	1.2000e-004	2.0000e-005	1.5000e-004		4.2081	4.2081	1.4000e-004	6.5000e-004	4.4069
Worker	0.0333	0.0140	0.1601	9.0000e-005	4.6300e-003	1.6000e-004	4.7800e-003	1.2700e-003	1.5000e-004	1.4100e-003		9.0348	9.0348	3.4800e-003	1.7800e-003	9.6529
Total	**0.0346**	**0.0394**	**0.1797**	**1.3000e-004**	**5.0300e-003**	**1.8000e-004**	**5.2100e-003**	**1.3900e-003**	**1.7000e-004**	**1.5600e-003**		**13.2430**	**13.2430**	**3.6200e-003**	**2.4300e-003**	**14.0598**

Spane Park Stormwater Capture Project- LST Analysis_Mitigated - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.8 Restroom building construction - 2024

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	0.1831	1.2833	5.1620	9.6900e-003		0.0354	0.0354		0.0347	0.0347	0.0000	919.9743	919.9743	0.2864		927.1355
Total	**0.1831**	**1.2833**	**5.1620**	**9.6900e-003**		**0.0354**	**0.0354**		**0.0347**	**0.0347**	**0.0000**	**919.9743**	**919.9743**	**0.2864**		**927.1355**

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	0.0000
Vendor	1.2100e-003	0.0254	0.0196	4.0000e-005	4.0000e-004	2.0000e-005	4.3000e-004	1.2000e-004	2.0000e-005	1.5000e-004		4.2081	4.2081	1.4000e-004	6.5000e-004	4.4069
Worker	0.0333	0.0140	0.1601	9.0000e-005	4.6300e-003	1.6000e-004	4.7800e-003	1.2700e-003	1.5000e-004	1.4100e-003		9.0348	9.0348	3.4800e-003	1.7800e-003	9.6529
Total	**0.0346**	**0.0394**	**0.1797**	**1.3000e-004**	**5.0300e-003**	**1.8000e-004**	**5.2100e-003**	**1.3900e-003**	**1.7000e-004**	**1.5600e-003**		**13.2430**	**13.2430**	**3.6200e-003**	**2.4300e-003**	**14.0598**

Spane Park Stormwater Capture Project- LST Analysis_Mitigated - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.9 Basketball court construction - 2024

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	0.6368	6.0186	4.9319	0.0111		0.2489	0.2489		0.2324	0.2324		1,021.0070	1,021.0070	0.2969		1,028.4303
Total	**0.6368**	**6.0186**	**4.9319**	**0.0111**		**0.2489**	**0.2489**		**0.2324**	**0.2324**		**1,021.0070**	**1,021.0070**	**0.2969**		**1,028.4303**

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	0.0000
Vendor	1.2100e-003	0.0254	0.0196	4.0000e-005	4.0000e-004	2.0000e-005	4.3000e-004	1.2000e-004	2.0000e-005	1.5000e-004		4.2081	4.2081	1.4000e-004	6.5000e-004	4.4069
Worker	0.0111	4.6700e-003	0.0534	3.0000e-005	1.5400e-003	5.0000e-005	1.5900e-003	4.2000e-004	5.0000e-005	4.7000e-004		3.0116	3.0116	1.1600e-003	5.9000e-004	3.2176
Total	**0.0123**	**0.0301**	**0.0730**	**7.0000e-005**	**1.9400e-003**	**7.0000e-005**	**2.0200e-003**	**5.4000e-004**	**7.0000e-005**	**6.2000e-004**		**7.2197**	**7.2197**	**1.3000e-003**	**1.2400e-003**	**7.6245**

Spane Park Stormwater Capture Project- LST Analysis_Mitigated - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.9 Basketball court construction - 2024

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	0.3006	2.0197	5.7787	0.0111		0.0640	0.0640		0.0633	0.0633	0.0000	1,021.0070	1,021.0070	0.2969		1,028.4303
Total	**0.3006**	**2.0197**	**5.7787**	**0.0111**		**0.0640**	**0.0640**		**0.0633**	**0.0633**	**0.0000**	**1,021.0070**	**1,021.0070**	**0.2969**		**1,028.4303**

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	0.0000
Vendor	1.2100e-003	0.0254	0.0196	4.0000e-005	4.0000e-004	2.0000e-005	4.3000e-004	1.2000e-004	2.0000e-005	1.5000e-004		4.2081	4.2081	1.4000e-004	6.5000e-004	4.4069
Worker	0.0111	4.6700e-003	0.0534	3.0000e-005	1.5400e-003	5.0000e-005	1.5900e-003	4.2000e-004	5.0000e-005	4.7000e-004		3.0116	3.0116	1.1600e-003	5.9000e-004	3.2176
Total	**0.0123**	**0.0301**	**0.0730**	**7.0000e-005**	**1.9400e-003**	**7.0000e-005**	**2.0200e-003**	**5.4000e-004**	**7.0000e-005**	**6.2000e-004**		**7.2197**	**7.2197**	**1.3000e-003**	**1.2400e-003**	**7.6245**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.10 Concrete pathway improvements - 2024

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	0.0588	0.3682	0.3084	7.1000e-004		0.0143	0.0143		0.0143	0.0143		50.5163	50.5163	5.2400e-003		50.6474
Paving	0.1123					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.1711**	**0.3682**	**0.3084**	**7.1000e-004**		**0.0143**	**0.0143**		**0.0143**	**0.0143**		**50.5163**	**50.5163**	**5.2400e-003**		**50.6474**

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	0.0000
Vendor	1.2100e-003	0.0254	0.0196	4.0000e-005	4.0000e-004	2.0000e-005	4.3000e-004	1.2000e-004	2.0000e-005	1.5000e-004		4.2081	4.2081	1.4000e-004	6.5000e-004	4.4069
Worker	0.0111	4.6700e-003	0.0534	3.0000e-005	1.5400e-003	5.0000e-005	1.5900e-003	4.2000e-004	5.0000e-005	4.7000e-004		3.0116	3.0116	1.1600e-003	5.9000e-004	3.2176
Total	**0.0123**	**0.0301**	**0.0730**	**7.0000e-005**	**1.9400e-003**	**7.0000e-005**	**2.0200e-003**	**5.4000e-004**	**7.0000e-005**	**6.2000e-004**		**7.2197**	**7.2197**	**1.3000e-003**	**1.2400e-003**	**7.6245**

Spane Park Stormwater Capture Project- LST Analysis_Mitigated - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.10 Concrete pathway improvements - 2024

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	0.0588	0.3682	0.3084	7.1000e-004		0.0143	0.0143		0.0143	0.0143	0.0000	50.5163	50.5163	5.2400e-003		50.6474
Paving	0.1123					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.1711**	**0.3682**	**0.3084**	**7.1000e-004**		**0.0143**	**0.0143**		**0.0143**	**0.0143**	**0.0000**	**50.5163**	**50.5163**	**5.2400e-003**		**50.6474**

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	0.0000
Vendor	1.2100e-003	0.0254	0.0196	4.0000e-005	4.0000e-004	2.0000e-005	4.3000e-004	1.2000e-004	2.0000e-005	1.5000e-004		4.2081	4.2081	1.4000e-004	6.5000e-004	4.4069
Worker	0.0111	4.6700e-003	0.0534	3.0000e-005	1.5400e-003	5.0000e-005	1.5900e-003	4.2000e-004	5.0000e-005	4.7000e-004		3.0116	3.0116	1.1600e-003	5.9000e-004	3.2176
Total	**0.0123**	**0.0301**	**0.0730**	**7.0000e-005**	**1.9400e-003**	**7.0000e-005**	**2.0200e-003**	**5.4000e-004**	**7.0000e-005**	**6.2000e-004**		**7.2197**	**7.2197**	**1.3000e-003**	**1.2400e-003**	**7.6245**

Spane Park Stormwater Capture Project- LST Analysis_Mitigated - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.11 Pond and stream revitilization - 2024

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	0.5470	5.5825	4.6069	0.0101		0.2377	0.2377		0.2198	0.2198		957.9217	957.9217	0.2987		965.3897
Paving	0.0575					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.6045**	**5.5825**	**4.6069**	**0.0101**		**0.2377**	**0.2377**		**0.2198**	**0.2198**		**957.9217**	**957.9217**	**0.2987**		**965.3897**

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	0.0000
Vendor	1.2100e-003	0.0254	0.0196	4.0000e-005	4.0000e-004	2.0000e-005	4.3000e-004	1.2000e-004	2.0000e-005	1.5000e-004		4.2081	4.2081	1.4000e-004	6.5000e-004	4.4069
Worker	0.0222	9.3400e-003	0.1067	6.0000e-005	3.0800e-003	1.1000e-004	3.1900e-003	8.4000e-004	1.0000e-004	9.4000e-004		6.0232	6.0232	2.3200e-003	1.1900e-003	6.4353
Total	**0.0234**	**0.0347**	**0.1263**	**1.0000e-004**	**3.4800e-003**	**1.3000e-004**	**3.6200e-003**	**9.6000e-004**	**1.2000e-004**	**1.0900e-003**		**10.2314**	**10.2314**	**2.4600e-003**	**1.8400e-003**	**10.8421**

Spane Park Stormwater Capture Project- LST Analysis_Mitigated - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.11 Pond and stream revitilization - 2024

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	0.2108	1.5835	5.4537	0.0101		0.0528	0.0528		0.0507	0.0507	0.0000	957.9217	957.9217	0.2987		965.3897
Paving	0.0575					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.2683**	**1.5835**	**5.4537**	**0.0101**		**0.0528**	**0.0528**		**0.0507**	**0.0507**	**0.0000**	**957.9217**	**957.9217**	**0.2987**		**965.3897**

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	0.0000
Vendor	1.2100e-003	0.0254	0.0196	4.0000e-005	4.0000e-004	2.0000e-005	4.3000e-004	1.2000e-004	2.0000e-005	1.5000e-004		4.2081	4.2081	1.4000e-004	6.5000e-004	4.4069
Worker	0.0222	9.3400e-003	0.1067	6.0000e-005	3.0800e-003	1.1000e-004	3.1900e-003	8.4000e-004	1.0000e-004	9.4000e-004		6.0232	6.0232	2.3200e-003	1.1900e-003	6.4353
Total	**0.0234**	**0.0347**	**0.1263**	**1.0000e-004**	**3.4800e-003**	**1.3000e-004**	**3.6200e-003**	**9.6000e-004**	**1.2000e-004**	**1.0900e-003**		**10.2314**	**10.2314**	**2.4600e-003**	**1.8400e-003**	**10.8421**

Spane Park Stormwater Capture Project- LST Analysis_Mitigated - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.12 Ancillary park improvements - 2024

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	0.5470	5.5825	4.6069	0.0101		0.2377	0.2377		0.2198	0.2198		957.9217	957.9217	0.2987		965.3897
Paving	0.0575					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.6045**	**5.5825**	**4.6069**	**0.0101**		**0.2377**	**0.2377**		**0.2198**	**0.2198**		**957.9217**	**957.9217**	**0.2987**		**965.3897**

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	0.0000
Vendor	1.2100e-003	0.0254	0.0196	4.0000e-005	4.0000e-004	2.0000e-005	4.3000e-004	1.2000e-004	2.0000e-005	1.5000e-004		4.2081	4.2081	1.4000e-004	6.5000e-004	4.4069
Worker	0.0111	4.6700e-003	0.0534	3.0000e-005	1.5400e-003	5.0000e-005	1.5900e-003	4.2000e-004	5.0000e-005	4.7000e-004		3.0116	3.0116	1.1600e-003	5.9000e-004	3.2176
Total	**0.0123**	**0.0301**	**0.0730**	**7.0000e-005**	**1.9400e-003**	**7.0000e-005**	**2.0200e-003**	**5.4000e-004**	**7.0000e-005**	**6.2000e-004**		**7.2197**	**7.2197**	**1.3000e-003**	**1.2400e-003**	**7.6245**

Spane Park Stormwater Capture Project- LST Analysis_Mitigated - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.12 Ancillary park improvements - 2024

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	0.2108	1.5835	5.4537	0.0101		0.0528	0.0528		0.0507	0.0507	0.0000	957.9217	957.9217	0.2987		965.3897
Paving	0.0575					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.2683**	**1.5835**	**5.4537**	**0.0101**		**0.0528**	**0.0528**		**0.0507**	**0.0507**	**0.0000**	**957.9217**	**957.9217**	**0.2987**		**965.3897**

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	0.0000
Vendor	1.2100e-003	0.0254	0.0196	4.0000e-005	4.0000e-004	2.0000e-005	4.3000e-004	1.2000e-004	2.0000e-005	1.5000e-004		4.2081	4.2081	1.4000e-004	6.5000e-004	4.4069
Worker	0.0111	4.6700e-003	0.0534	3.0000e-005	1.5400e-003	5.0000e-005	1.5900e-003	4.2000e-004	5.0000e-005	4.7000e-004		3.0116	3.0116	1.1600e-003	5.9000e-004	3.2176
Total	**0.0123**	**0.0301**	**0.0730**	**7.0000e-005**	**1.9400e-003**	**7.0000e-005**	**2.0200e-003**	**5.4000e-004**	**7.0000e-005**	**6.2000e-004**		**7.2197**	**7.2197**	**1.3000e-003**	**1.2400e-003**	**7.6245**

Spane Park Stormwater Capture Project- LST Analysis_Mitigated - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.12 Ancillary park improvements - 2025

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	0.5178	5.1467	4.5578	0.0101		0.2168	0.2168		0.2006	0.2006		957.8483	957.8483	0.2987		965.3157
Paving	0.0575					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.5753**	**5.1467**	**4.5578**	**0.0101**		**0.2168**	**0.2168**		**0.2006**	**0.2006**		**957.8483**	**957.8483**	**0.2987**		**965.3157**

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	0.0000
Vendor	1.1900e-003	0.0253	0.0194	4.0000e-005	4.0000e-004	2.0000e-005	4.3000e-004	1.2000e-004	2.0000e-005	1.5000e-004		4.1349	4.1349	1.4000e-004	6.4000e-004	4.3303
Worker	0.0103	4.3200e-003	0.0510	3.0000e-005	1.5400e-003	5.0000e-005	1.5900e-003	4.2000e-004	5.0000e-005	4.7000e-004		2.9095	2.9095	1.0700e-003	5.6000e-004	3.1043
Total	**0.0115**	**0.0296**	**0.0703**	**7.0000e-005**	**1.9400e-003**	**7.0000e-005**	**2.0200e-003**	**5.4000e-004**	**7.0000e-005**	**6.2000e-004**		**7.0444**	**7.0444**	**1.2100e-003**	**1.2000e-003**	**7.4346**

Spane Park Stormwater Capture Project- LST Analysis_Mitigated - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.12 Ancillary park improvements - 2025

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	0.2078	1.5491	5.4485	0.0101		0.0503	0.0503		0.0484	0.0484	0.0000	957.8483	957.8483	0.2987		965.3157
Paving	0.0575					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.2653**	**1.5491**	**5.4485**	**0.0101**		**0.0503**	**0.0503**		**0.0484**	**0.0484**	**0.0000**	**957.8483**	**957.8483**	**0.2987**		**965.3157**

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	0.0000
Vendor	1.1900e-003	0.0253	0.0194	4.0000e-005	4.0000e-004	2.0000e-005	4.3000e-004	1.2000e-004	2.0000e-005	1.5000e-004		4.1349	4.1349	1.4000e-004	6.4000e-004	4.3303
Worker	0.0103	4.3200e-003	0.0510	3.0000e-005	1.5400e-003	5.0000e-005	1.5900e-003	4.2000e-004	5.0000e-005	4.7000e-004		2.9095	2.9095	1.0700e-003	5.6000e-004	3.1043
Total	**0.0115**	**0.0296**	**0.0703**	**7.0000e-005**	**1.9400e-003**	**7.0000e-005**	**2.0200e-003**	**5.4000e-004**	**7.0000e-005**	**6.2000e-004**		**7.0444**	**7.0444**	**1.2100e-003**	**1.2000e-003**	**7.4346**

Spane Park Stormwater Capture Project- LST Analysis_Mitigated - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.13 Parking reconstruction - 2024

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	0.4317	4.3439	6.3380	9.8900e-003		0.1983	0.1983		0.1833	0.1833		944.3545	944.3545	0.2979		951.8008
Paving	0.0761					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.5078**	**4.3439**	**6.3380**	**9.8900e-003**		**0.1983**	**0.1983**		**0.1833**	**0.1833**		**944.3545**	**944.3545**	**0.2979**		**951.8008**

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	0.0000
Vendor	1.2100e-003	0.0254	0.0196	4.0000e-005	4.0000e-004	2.0000e-005	4.3000e-004	1.2000e-004	2.0000e-005	1.5000e-004		4.2081	4.2081	1.4000e-004	6.5000e-004	4.4069
Worker	0.0445	0.0187	0.2134	1.2000e-004	6.1700e-003	2.1000e-004	6.3800e-003	1.6900e-003	1.9000e-004	1.8800e-003		12.0465	12.0465	4.6400e-003	2.3800e-003	12.8706
Total	**0.0457**	**0.0441**	**0.2331**	**1.6000e-004**	**6.5700e-003**	**2.3000e-004**	**6.8100e-003**	**1.8100e-003**	**2.1000e-004**	**2.0300e-003**		**16.2546**	**16.2546**	**4.7800e-003**	**3.0300e-003**	**17.2774**

Spane Park Stormwater Capture Project- LST Analysis_Mitigated - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.13 Parking reconstruction - 2024

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	0.1924	1.4675	7.1418	9.8900e-003		0.0483	0.0483		0.0462	0.0462	0.0000	944.3545	944.3545	0.2979		951.8008
Paving	0.0761					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.2684**	**1.4675**	**7.1418**	**9.8900e-003**		**0.0483**	**0.0483**		**0.0462**	**0.0462**	**0.0000**	**944.3545**	**944.3545**	**0.2979**		**951.8008**

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	0.0000
Vendor	1.2100e-003	0.0254	0.0196	4.0000e-005	4.0000e-004	2.0000e-005	4.3000e-004	1.2000e-004	2.0000e-005	1.5000e-004		4.2081	4.2081	1.4000e-004	6.5000e-004	4.4069
Worker	0.0445	0.0187	0.2134	1.2000e-004	6.1700e-003	2.1000e-004	6.3800e-003	1.6900e-003	1.9000e-004	1.8800e-003		12.0465	12.0465	4.6400e-003	2.3800e-003	12.8706
Total	**0.0457**	**0.0441**	**0.2331**	**1.6000e-004**	**6.5700e-003**	**2.3000e-004**	**6.8100e-003**	**1.8100e-003**	**2.1000e-004**	**2.0300e-003**		**16.2546**	**16.2546**	**4.7800e-003**	**3.0300e-003**	**17.2774**

Spane Park Stormwater Capture Project- LST Analysis_Mitigated - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.13 Parking reconstruction - 2025

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	0.4102	4.0695	6.3322	9.8800e-003		0.1805	0.1805		0.1669	0.1669		944.0095	944.0095	0.2977		951.4530
Paving	0.0761					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.4862**	**4.0695**	**6.3322**	**9.8800e-003**		**0.1805**	**0.1805**		**0.1669**	**0.1669**		**944.0095**	**944.0095**	**0.2977**		**951.4530**

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	0.0000
Vendor	1.1900e-003	0.0253	0.0194	4.0000e-005	4.0000e-004	2.0000e-005	4.3000e-004	1.2000e-004	2.0000e-005	1.5000e-004		4.1349	4.1349	1.4000e-004	6.4000e-004	4.3303
Worker	0.0411	0.0173	0.2038	1.2000e-004	6.1700e-003	2.0000e-004	6.3700e-003	1.6900e-003	1.9000e-004	1.8700e-003		11.6379	11.6379	4.2700e-003	2.2600e-003	12.4171
Total	**0.0423**	**0.0426**	**0.2232**	**1.6000e-004**	**6.5700e-003**	**2.2000e-004**	**6.8000e-003**	**1.8100e-003**	**2.1000e-004**	**2.0200e-003**		**15.7728**	**15.7728**	**4.4100e-003**	**2.9000e-003**	**16.7474**

Spane Park Stormwater Capture Project- LST Analysis_Mitigated - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.13 Parking reconstruction - 2025

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	0.1894	1.4332	7.1365	9.8800e-003		0.0458	0.0458		0.0439	0.0439	0.0000	944.0095	944.0095	0.2977		951.4530
Paving	0.0761					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.2654**	**1.4332**	**7.1365**	**9.8800e-003**		**0.0458**	**0.0458**		**0.0439**	**0.0439**	**0.0000**	**944.0095**	**944.0095**	**0.2977**		**951.4530**

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	0.0000
Vendor	1.1900e-003	0.0253	0.0194	4.0000e-005	4.0000e-004	2.0000e-005	4.3000e-004	1.2000e-004	2.0000e-005	1.5000e-004		4.1349	4.1349	1.4000e-004	6.4000e-004	4.3303
Worker	0.0411	0.0173	0.2038	1.2000e-004	6.1700e-003	2.0000e-004	6.3700e-003	1.6900e-003	1.9000e-004	1.8700e-003		11.6379	11.6379	4.2700e-003	2.2600e-003	12.4171
Total	**0.0423**	**0.0426**	**0.2232**	**1.6000e-004**	**6.5700e-003**	**2.2000e-004**	**6.8000e-003**	**1.8100e-003**	**2.1000e-004**	**2.0200e-003**		**15.7728**	**15.7728**	**4.4100e-003**	**2.9000e-003**	**16.7474**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	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

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Parking Lot	0.00	0.00	0.00		
User Defined Industrial	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
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
User Defined Industrial	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Parking Lot	0.540171	0.064547	0.189075	0.126673	0.023412	0.006384	0.010926	0.008089	0.000929	0.000597	0.025155	0.000706	0.003335
User Defined Industrial	0.540171	0.064547	0.189075	0.126673	0.023412	0.006384	0.010926	0.008089	0.000929	0.000597	0.025155	0.000706	0.003335

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

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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					
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
User Defined Industrial	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**

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					
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
User Defined Industrial	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

Spane Park Stormwater Capture Project- LST Analysis_Mitigated - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	2.6651	1.5000e-004	0.0160	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0345	0.0345	9.0000e-005		0.0367
Unmitigated	2.6651	1.5000e-004	0.0160	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0345	0.0345	9.0000e-005		0.0367

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	0.3039					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.3598					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.4800e-003	1.5000e-004	0.0160	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0345	0.0345	9.0000e-005		0.0367
Total	**2.6652**	**1.5000e-004**	**0.0160**	**0.0000**		**6.0000e-005**	**6.0000e-005**		**6.0000e-005**	**6.0000e-005**		**0.0345**	**0.0345**	**9.0000e-005**		**0.0367**

Spane Park Stormwater Capture Project- LST Analysis_Mitigated - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	0.3039					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.3598					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.4800e-003	1.5000e-004	0.0160	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0345	0.0345	9.0000e-005		0.0367
Total	**2.6652**	**1.5000e-004**	**0.0160**	**0.0000**		**6.0000e-005**	**6.0000e-005**		**6.0000e-005**	**6.0000e-005**		**0.0345**	**0.0345**	**9.0000e-005**		**0.0367**

7.0 Water Detail

7.1 Mitigation Measures Water

Spane Park Stormwater Capture Project- LST Analysis_Mitigated - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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

Spane Park Stormwater Capture Project- HRA Analysis - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Spane Park Stormwater Capture Project- HRA Analysis

Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Industrial	118.48	User Defined Unit	2.72	118,483.00	0
Parking Lot	39.00	1000sqft	0.90	39,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	9			**Operational Year**	2025
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - 2.72 acre area disturbed. 39,000 SF paved. Provided by applicant

Construction Phase - Construction schedule provided by applicant.

Off-road Equipment - Equipment provided by project applicant.

Off-road Equipment - Equipment provided by project applicant.

Off-road Equipment - Equipment provided by project applicant.

Off-road Equipment - Equipment provided by project applicant.

Off-road Equipment - Equipment provided by project applicant.

Off-road Equipment - Equipment provided by project applicant.

Off-road Equipment - Equipment provided by project applicant.

Off-road Equipment - Equipment provided by project applicant.

Spane Park Stormwater Capture Project- HRA Analysis - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Off-road Equipment - Equipment provided by project applicant.

Off-road Equipment - Equipment provided by project applicant.

Off-road Equipment - Equipment provided by project applicant.

Off-road Equipment - Equipment provided by project applicant.

Trips and VMT - Trips provided by applicant. For HRA analysis- only concerned with localized DPM emissions (i.e., within 1,000 ft of the project site and no gas passenger vehicles).

Demolition - Data provided by applicant.

Grading - Data provided by project applicant.

Vehicle Trips - Construction only.

Vehicle Emission Factors - Construction only.

Road Dust - Construction only.

Woodstoves - Construction only.

Consumer Products - Construction only.

Area Coating - Construction only.

Landscape Equipment - Construction only.

Energy Use - Construction only.

Water And Wastewater - Construction only.

Solid Waste - Construction only.

Construction Off-road Equipment Mitigation - Compliance with SCAQMD Rule 403- water twice daily. Mitigation water 3X

Fleet Mix - Construction only.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	230.00	76.00
tblConstructionPhase	NumDays	230.00	21.00
tblConstructionPhase	NumDays	230.00	51.00
tblConstructionPhase	NumDays	230.00	21.00
tblConstructionPhase	NumDays	20.00	21.00
tblConstructionPhase	NumDays	8.00	51.00
tblConstructionPhase	NumDays	18.00	41.00
tblConstructionPhase	NumDays	18.00	41.00

Spane Park Stormwater Capture Project- HRA Analysis - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblConstructionPhase	NumDays	18.00	31.00
tblConstructionPhase	NumDays	18.00	21.00
tblConstructionPhase	NumDays	5.00	41.00
tblEnergyUse	LightingElect	0.35	0.00
tblGrading	AcresOfGrading	25.50	8.00
tblGrading	AcresOfGrading	41.00	7.50
tblGrading	MaterialExported	0.00	18,000.00
tblGrading	MaterialExported	0.00	1,800.00
tblLandUse	LandUseSquareFeet	0.00	118,483.00
tblLandUse	LotAcreage	0.00	2.72
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripNumber	25.00	26.00
tblTripsAndVMT	HaulingTripNumber	225.00	226.00
tblTripsAndVMT	HaulingTripNumber	0.00	20.00
tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripLength	6.90	0.19
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tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	26.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblTripsAndVMT	VendorTripNumber	26.00	2.00
tblTripsAndVMT	VendorTripNumber	26.00	2.00
tblTripsAndVMT	VendorTripNumber	26.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripLength	14.70	0.19
tblTripsAndVMT	WorkerTripLength	14.70	0.19
tblTripsAndVMT	WorkerTripLength	14.70	0.19
tblTripsAndVMT	WorkerTripLength	14.70	0.19
tblTripsAndVMT	WorkerTripLength	14.70	0.19
tblTripsAndVMT	WorkerTripLength	14.70	0.19
tblTripsAndVMT	WorkerTripLength	14.70	0.19
tblTripsAndVMT	WorkerTripLength	14.70	0.19
tblTripsAndVMT	WorkerTripLength	14.70	0.19
tblTripsAndVMT	WorkerTripLength	14.70	0.19
tblTripsAndVMT	WorkerTripLength	14.70	0.19
tblTripsAndVMT	WorkerTripNumber	8.00	0.00
tblTripsAndVMT	WorkerTripNumber	10.00	0.00
tblTripsAndVMT	WorkerTripNumber	10.00	0.00
tblTripsAndVMT	WorkerTripNumber	10.00	0.00
tblTripsAndVMT	WorkerTripNumber	8.00	0.00
tblTripsAndVMT	WorkerTripNumber	8.00	0.00
tblTripsAndVMT	WorkerTripNumber	66.00	0.00
tblTripsAndVMT	WorkerTripNumber	8.00	0.00
tblTripsAndVMT	WorkerTripNumber	66.00	0.00
tblTripsAndVMT	WorkerTripNumber	66.00	0.00
tblTripsAndVMT	WorkerTripNumber	66.00	0.00
tblTripsAndVMT	WorkerTripNumber	3.00	0.00

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.0 Emissions Summary

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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					
2023	0.0684	0.7308	0.4576	1.0500e-003	0.2893	0.0303	0.3196	0.1538	0.0280	0.1818	0.0000	92.5747	92.5747	0.0271	6.2000e-004	93.4366
2024	0.1051	1.0375	0.7662	1.7100e-003	6.0000e-005	0.0453	0.0454	2.0000e-005	0.0418	0.0419	0.0000	148.3174	148.3174	0.0465	1.0000e-004	149.5094
2025	4.5700e-003	0.0390	0.0536	9.0000e-005	0.0000	1.7000e-003	1.7000e-003	0.0000	1.5700e-003	1.5700e-003	0.0000	7.7661	7.7661	2.4300e-003	1.0000e-005	7.8285
Maximum	**0.1051**	**1.0375**	**0.7662**	**1.7100e-003**	**0.2893**	**0.0453**	**0.3196**	**0.1538**	**0.0418**	**0.1818**	**0.0000**	**148.3174**	**148.3174**	**0.0465**	**6.2000e-004**	**149.5094**

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					
2023	0.0684	0.7308	0.4576	1.0500e-003	0.1130	0.0303	0.1433	0.0600	0.0280	0.0880	0.0000	92.5745	92.5745	0.0271	6.2000e-004	93.4365
2024	0.1051	1.0375	0.7662	1.7100e-003	6.0000e-005	0.0453	0.0454	2.0000e-005	0.0418	0.0419	0.0000	148.3172	148.3172	0.0465	1.0000e-004	149.5093
2025	4.5700e-003	0.0390	0.0536	9.0000e-005	0.0000	1.7000e-003	1.7000e-003	0.0000	1.5700e-003	1.5700e-003	0.0000	7.7661	7.7661	2.4300e-003	1.0000e-005	7.8285
Maximum	**0.1051**	**1.0375**	**0.7662**	**1.7100e-003**	**0.1130**	**0.0453**	**0.1433**	**0.0600**	**0.0418**	**0.0880**	**0.0000**	**148.3172**	**148.3172**	**0.0465**	**6.2000e-004**	**149.5093**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	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**	**60.94**	**0.00**	**48.09**	**60.96**	**0.00**	**41.64**	**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	**8-1-2023**	**10-31-2023**	0.5593	0.5593
2	**11-1-2023**	**1-31-2024**	0.3743	0.3743
3	**2-1-2024**	**4-30-2024**	0.4909	0.4909
4	**5-1-2024**	**7-31-2024**	0.1716	0.1716
5	**8-1-2024**	**10-31-2024**	0.1377	0.1377
6	**11-1-2024**	**1-31-2025**	0.2382	0.2382
		Highest	0.5593	0.5593

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	0.4863	2.0000e-005	2.0000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.9100e-003	3.9100e-003	1.0000e-005	0.0000	4.1600e-003
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	**0.4863**	**2.0000e-005**	**2.0000e-003**	**0.0000**	**0.0000**	**1.0000e-005**	**1.0000e-005**	**0.0000**	**1.0000e-005**	**1.0000e-005**	**0.0000**	**3.9100e-003**	**3.9100e-003**	**1.0000e-005**	**0.0000**	**4.1600e-003**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	0.4863	2.0000e-005	2.0000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.9100e-003	3.9100e-003	1.0000e-005	0.0000	4.1600e-003
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	**0.4863**	**2.0000e-005**	**2.0000e-003**	**0.0000**	**0.0000**	**1.0000e-005**	**1.0000e-005**	**0.0000**	**1.0000e-005**	**1.0000e-005**	**0.0000**	**3.9100e-003**	**3.9100e-003**	**1.0000e-005**	**0.0000**	**4.1600e-003**

	ROG	NOx	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	Demolition of existing basketball courts and restroom building	Demolition	8/1/2023	8/29/2023	5	21	
2	Site mobilization, clearing, grubbing, and vegetation removal	Site Preparation	8/1/2023	9/26/2023	5	41	
3	Reservoir excavation	Grading	9/25/2023	12/4/2023	5	51	

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4	Reservoir construction	Building Construction	12/11/2023	3/25/2024	5	76	
5	Pipeline, diversion structure, and treatment facility/pump installation	Trenching	2/5/2024	4/1/2024	5	41	
6	Field surface replacement	Building Construction	4/1/2024	4/29/2024	5	21	
7	Restroom building construction	Building Construction	5/6/2024	7/15/2024	5	51	
8	Basketball court construction	Building Construction	7/22/2024	8/19/2024	5	21	
9	Concrete pathway improvements	Paving	8/26/2024	9/23/2024	5	21	
10	Pond and stream revitilization	Paving	9/23/2024	11/18/2024	5	41	
11	Ancillary park improvements	Paving	11/11/2024	1/6/2025	5	41	
12	Parking reconstruction	Paving	12/9/2024	1/20/2025	5	31	

Acres of Grading (Site Preparation Phase): 7.5

Acres of Grading (Grading Phase): 8

Acres of Paving: 0.9

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
Demolition of existing basketball courts and restroom building	Crushing/Proc. Equipment	1	8.00	85	0.78
Demolition of existing basketball courts and restroom building	Rubber Tired Dozers	1	8.00	247	0.40
Demolition of existing basketball courts and restroom building	Skid Steer Loaders	1	8.00	65	0.37
Site mobilization, clearing, grubbing, and vegetation removal	Graders	1	8.00	187	0.41
Site mobilization, clearing, grubbing, and vegetation removal	Rubber Tired Dozers	1	8.00	247	0.40
Site mobilization, clearing, grubbing, and vegetation removal	Skid Steer Loaders	1	8.00	65	0.37
Reservoir excavation	Rubber Tired Dozers	1	8.00	247	0.40
Reservoir excavation	Skid Steer Loaders	1	8.00	65	0.37
Reservoir excavation	Tractors/Loaders/Backhoes	1	8.00	97	0.37

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Reservoir construction	Cranes	1	8.00	231	0.29
Reservoir construction	Rubber Tired Dozers	1	8.00	247	0.40
Reservoir construction	Skid Steer Loaders	1	8.00	65	0.37
Pipeline, diversion structure, and treatment facility/pump installation	Cranes	1	8.00	231	0.29
Pipeline, diversion structure, and treatment facility/pump installation	Skid Steer Loaders	1	8.00	65	0.37
Pipeline, diversion structure, and treatment facility/pump installation	Trenchers	1	8.00	78	0.50
Field surface replacement	Dumpers/Tenders	1	8.00	16	0.38
Field surface replacement	Graders	1	8.00	187	0.41
Field surface replacement	Skid Steer Loaders	1	8.00	65	0.37
Field surface replacement	Sweepers/Scrubbers	1	8.00	64	0.46
Restroom building construction	Aerial Lifts	1	8.00	63	0.31
Restroom building construction	Cement and Mortar Mixers	1	8.00	9	0.56
Restroom building construction	Cranes	1	8.00	231	0.29
Restroom building construction	Forklifts	1	8.00	89	0.20
Basketball court construction	Aerial Lifts	1	8.00	63	0.31
Basketball court construction	Cement and Mortar Mixers	3	8.00	9	0.56
Basketball court construction	Cranes	1	8.00	231	0.29
Basketball court construction	Forklifts	1	8.00	89	0.20
Parking reconstruction	Pavers	1	8.00	130	0.42
Parking reconstruction	Plate Compactors	1	8.00	8	0.43
Parking reconstruction	Rollers	1	8.00	80	0.38
Parking reconstruction	Skid Steer Loaders	1	8.00	65	0.37
Concrete pathway improvements	Cement and Mortar Mixers	1	8.00	9	0.56
Pond and stream revitilization	Cement and Mortar Mixers	1	8.00	9	0.56
Pond and stream revitilization	Cranes	1	8.00	231	0.29
Pond and stream revitilization	Forklifts	1	8.00	89	0.20
Pond and stream revitilization	Skid Steer Loaders	1	8.00	65	0.37
Ancillary park improvements	Cement and Mortar Mixers	1	8.00	9	0.56

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Ancillary park improvements	Cranes	1	8.00	231	0.29
Ancillary park improvements	Forklifts	1	8.00	89	0.20
Ancillary park improvements	Skid Steer Loaders	1	8.00	65	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
Demolition of existing basketball courts and r	3	0.00	0.00	26.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Site mobilization, clearing, grubbing, an	3	0.00	0.00	226.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Reservoir excavation	3	0.00	0.00	2,250.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Reservoir construction	3	0.00	2.00	0.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Pipeline, diversion structure, and treatme	3	0.00	2.00	20.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Field surface replacement	4	0.00	2.00	0.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Restroom building construction	4	0.00	2.00	0.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Basketball court construction	6	0.00	2.00	0.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Parking reconstruction	4	0.00	2.00	0.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Concrete pathway improvements	1	0.00	2.00	0.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Pond and stream revitilization	4	0.00	2.00	0.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Ancillary park improvements	4	0.00	2.00	0.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

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3.2 Demolition of existing basketball courts and restroom building - 2023

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					2.7300e-003	0.0000	2.7300e-003	4.1000e-004	0.0000	4.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0126	0.1153	0.0926	1.9000e-004		5.3000e-003	5.3000e-003		5.0000e-003	5.0000e-003	0.0000	16.1172	16.1172	3.5400e-003	0.0000	16.2058
Total	**0.0126**	**0.1153**	**0.0926**	**1.9000e-004**	**2.7300e-003**	**5.3000e-003**	**8.0300e-003**	**4.1000e-004**	**5.0000e-003**	**5.4100e-003**	**0.0000**	**16.1172**	**16.1172**	**3.5400e-003**	**0.0000**	**16.2058**

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	1.0000e-005	2.6000e-004	2.0000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0402	0.0402	0.0000	1.0000e-005	0.0421
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	**1.0000e-005**	**2.6000e-004**	**2.0000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0402**	**0.0402**	**0.0000**	**1.0000e-005**	**0.0421**

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3.2 Demolition of existing basketball courts and restroom building - 2023

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					1.0600e-003	0.0000	1.0600e-003	1.6000e-004	0.0000	1.6000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0126	0.1153	0.0926	1.9000e-004		5.3000e-003	5.3000e-003		5.0000e-003	5.0000e-003	0.0000	16.1172	16.1172	3.5400e-003	0.0000	16.2058
Total	**0.0126**	**0.1153**	**0.0926**	**1.9000e-004**	**1.0600e-003**	**5.3000e-003**	**6.3600e-003**	**1.6000e-004**	**5.0000e-003**	**5.1600e-003**	**0.0000**	**16.1172**	**16.1172**	**3.5400e-003**	**0.0000**	**16.2058**

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	1.0000e-005	2.6000e-004	2.0000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0402	0.0402	0.0000	1.0000e-005	0.0421
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	**1.0000e-005**	**2.6000e-004**	**2.0000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0402**	**0.0402**	**0.0000**	**1.0000e-005**	**0.0421**

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3.3 Site mobilization, clearing, grubbing, and vegetation removal - 2023

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					0.1275	0.0000	0.1275	0.0683	0.0000	0.0683	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0232	0.2592	0.1268	3.5000e-004		0.0103	0.0103		9.4500e-003	9.4500e-003	0.0000	31.0266	31.0266	0.0100	0.0000	31.2775
Total	**0.0232**	**0.2592**	**0.1268**	**3.5000e-004**	**0.1275**	**0.0103**	**0.1378**	**0.0683**	**9.4500e-003**	**0.0778**	**0.0000**	**31.0266**	**31.0266**	**0.0100**	**0.0000**	**31.2775**

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	1.2000e-004	2.2300e-003	1.7300e-003	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.3490	0.3490	1.0000e-005	6.0000e-005	0.3657
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	**1.2000e-004**	**2.2300e-003**	**1.7300e-003**	**0.0000**	**2.0000e-005**	**0.0000**	**2.0000e-005**	**1.0000e-005**	**0.0000**	**1.0000e-005**	**0.0000**	**0.3490**	**0.3490**	**1.0000e-005**	**6.0000e-005**	**0.3657**

Spane Park Stormwater Capture Project- HRA Analysis - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Site mobilization, clearing, grubbing, and vegetation removal - 2023

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					0.0497	0.0000	0.0497	0.0266	0.0000	0.0266	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0232	0.2592	0.1268	3.5000e-004		0.0103	0.0103		9.4500e-003	9.4500e-003	0.0000	31.0266	31.0266	0.0100	0.0000	31.2775
Total	**0.0232**	**0.2592**	**0.1268**	**3.5000e-004**	**0.0497**	**0.0103**	**0.0600**	**0.0266**	**9.4500e-003**	**0.0361**	**0.0000**	**31.0266**	**31.0266**	**0.0100**	**0.0000**	**31.2775**

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	1.2000e-004	2.2300e-003	1.7300e-003	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.3490	0.3490	1.0000e-005	6.0000e-005	0.3657
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	**1.2000e-004**	**2.2300e-003**	**1.7300e-003**	**0.0000**	**2.0000e-005**	**0.0000**	**2.0000e-005**	**1.0000e-005**	**0.0000**	**1.0000e-005**	**0.0000**	**0.3490**	**0.3490**	**1.0000e-005**	**6.0000e-005**	**0.3657**

Spane Park Stormwater Capture Project- HRA Analysis - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Reservoir excavation - 2023

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					0.1588	0.0000	0.1588	0.0850	0.0000	0.0850	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0230	0.2430	0.1714	3.5000e-004		0.0109	0.0109		9.9900e-003	9.9900e-003	0.0000	30.7455	30.7455	9.9400e-003	0.0000	30.9941
Total	**0.0230**	**0.2430**	**0.1714**	**3.5000e-004**	**0.1588**	**0.0109**	**0.1697**	**0.0850**	**9.9900e-003**	**0.0950**	**0.0000**	**30.7455**	**30.7455**	**9.9400e-003**	**0.0000**	**30.9941**

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	1.1600e-003	0.0222	0.0172	4.0000e-005	2.1000e-004	2.0000e-005	2.3000e-004	6.0000e-005	2.0000e-005	8.0000e-005	0.0000	3.4743	3.4743	1.1000e-004	5.5000e-004	3.6409
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	**1.1600e-003**	**0.0222**	**0.0172**	**4.0000e-005**	**2.1000e-004**	**2.0000e-005**	**2.3000e-004**	**6.0000e-005**	**2.0000e-005**	**8.0000e-005**	**0.0000**	**3.4743**	**3.4743**	**1.1000e-004**	**5.5000e-004**	**3.6409**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Reservoir excavation - 2023

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					0.0619	0.0000	0.0619	0.0332	0.0000	0.0332	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0230	0.2430	0.1714	3.5000e-004		0.0109	0.0109		9.9900e-003	9.9900e-003	0.0000	30.7455	30.7455	9.9400e-003	0.0000	30.9941
Total	**0.0230**	**0.2430**	**0.1714**	**3.5000e-004**	**0.0619**	**0.0109**	**0.0728**	**0.0332**	**9.9900e-003**	**0.0432**	**0.0000**	**30.7455**	**30.7455**	**9.9400e-003**	**0.0000**	**30.9941**

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	1.1600e-003	0.0222	0.0172	4.0000e-005	2.1000e-004	2.0000e-005	2.3000e-004	6.0000e-005	2.0000e-005	8.0000e-005	0.0000	3.4743	3.4743	1.1000e-004	5.5000e-004	3.6409
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	**1.1600e-003**	**0.0222**	**0.0172**	**4.0000e-005**	**2.1000e-004**	**2.0000e-005**	**2.3000e-004**	**6.0000e-005**	**2.0000e-005**	**8.0000e-005**	**0.0000**	**3.4743**	**3.4743**	**1.1000e-004**	**5.5000e-004**	**3.6409**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Reservoir construction - 2023

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	8.2600e-003	0.0886	0.0475	1.2000e-004		3.8200e-003	3.8200e-003		3.5200e-003	3.5200e-003	0.0000	10.7931	10.7931	3.4900e-003	0.0000	10.8803
Total	**8.2600e-003**	**0.0886**	**0.0475**	**1.2000e-004**		**3.8200e-003**	**3.8200e-003**		**3.5200e-003**	**3.5200e-003**	**0.0000**	**10.7931**	**10.7931**	**3.4900e-003**	**0.0000**	**10.8803**

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-005	1.9000e-004	1.5000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0288	0.0288	0.0000	0.0000	0.0302
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	**1.0000e-005**	**1.9000e-004**	**1.5000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0288**	**0.0288**	**0.0000**	**0.0000**	**0.0302**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Reservoir construction - 2023

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	8.2600e-003	0.0886	0.0475	1.2000e-004		3.8200e-003	3.8200e-003		3.5200e-003	3.5200e-003	0.0000	10.7930	10.7930	3.4900e-003	0.0000	10.8803
Total	**8.2600e-003**	**0.0886**	**0.0475**	**1.2000e-004**		**3.8200e-003**	**3.8200e-003**		**3.5200e-003**	**3.5200e-003**	**0.0000**	**10.7930**	**10.7930**	**3.4900e-003**	**0.0000**	**10.8803**

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-005	1.9000e-004	1.5000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0288	0.0288	0.0000	0.0000	0.0302
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	**1.0000e-005**	**1.9000e-004**	**1.5000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0288**	**0.0288**	**0.0000**	**0.0000**	**0.0302**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Reservoir construction - 2024

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	0.0332	0.3495	0.1919	5.0000e-004		0.0151	0.0151		0.0139	0.0139	0.0000	43.8931	43.8931	0.0142	0.0000	44.2480
Total	**0.0332**	**0.3495**	**0.1919**	**5.0000e-004**		**0.0151**	**0.0151**		**0.0139**	**0.0139**	**0.0000**	**43.8931**	**43.8931**	**0.0142**	**0.0000**	**44.2480**

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	4.0000e-005	7.5000e-004	5.8000e-004	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.1154	0.1154	0.0000	2.0000e-005	0.1208
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	**4.0000e-005**	**7.5000e-004**	**5.8000e-004**	**0.0000**	**1.0000e-005**	**0.0000**	**1.0000e-005**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.1154**	**0.1154**	**0.0000**	**2.0000e-005**	**0.1208**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Reservoir construction - 2024

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	0.0332	0.3495	0.1919	5.0000e-004		0.0151	0.0151		0.0139	0.0139	0.0000	43.8930	43.8930	0.0142	0.0000	44.2479
Total	**0.0332**	**0.3495**	**0.1919**	**5.0000e-004**		**0.0151**	**0.0151**		**0.0139**	**0.0139**	**0.0000**	**43.8930**	**43.8930**	**0.0142**	**0.0000**	**44.2479**

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	4.0000e-005	7.5000e-004	5.8000e-004	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.1154	0.1154	0.0000	2.0000e-005	0.1208
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	**4.0000e-005**	**7.5000e-004**	**5.8000e-004**	**0.0000**	**1.0000e-005**	**0.0000**	**1.0000e-005**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.1154**	**0.1154**	**0.0000**	**2.0000e-005**	**0.1208**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Pipeline, diversion structure, and treatment facility/pump installation - 2024

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	0.0151	0.1536	0.1179	2.3000e-004		8.0100e-003	8.0100e-003		7.3700e-003	7.3700e-003	0.0000	20.2066	20.2066	6.5400e-003	0.0000	20.3700
Total	**0.0151**	**0.1536**	**0.1179**	**2.3000e-004**		**8.0100e-003**	**8.0100e-003**		**7.3700e-003**	**7.3700e-003**	**0.0000**	**20.2066**	**20.2066**	**6.5400e-003**	**0.0000**	**20.3700**

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	1.0000e-005	2.0000e-004	1.5000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0304	0.0304	0.0000	0.0000	0.0319
Vendor	3.0000e-005	5.0000e-004	3.9000e-004	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0775	0.0775	0.0000	1.0000e-005	0.0812
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	**4.0000e-005**	**7.0000e-004**	**5.4000e-004**	**0.0000**	**1.0000e-005**	**0.0000**	**1.0000e-005**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.1080**	**0.1080**	**0.0000**	**1.0000e-005**	**0.1131**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Pipeline, diversion structure, and treatment facility/pump installation - 2024

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	0.0151	0.1536	0.1179	2.3000e-004		8.0100e-003	8.0100e-003		7.3700e-003	7.3700e-003	0.0000	20.2066	20.2066	6.5400e-003	0.0000	20.3700
Total	**0.0151**	**0.1536**	**0.1179**	**2.3000e-004**		**8.0100e-003**	**8.0100e-003**		**7.3700e-003**	**7.3700e-003**	**0.0000**	**20.2066**	**20.2066**	**6.5400e-003**	**0.0000**	**20.3700**

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	1.0000e-005	2.0000e-004	1.5000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0304	0.0304	0.0000	0.0000	0.0319
Vendor	3.0000e-005	5.0000e-004	3.9000e-004	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0775	0.0775	0.0000	1.0000e-005	0.0812
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	**4.0000e-005**	**7.0000e-004**	**5.4000e-004**	**0.0000**	**1.0000e-005**	**0.0000**	**1.0000e-005**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.1080**	**0.1080**	**0.0000**	**1.0000e-005**	**0.1131**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Field surface replacement - 2024

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	6.9600e-003	0.0741	0.0547	1.3000e-004		2.9000e-003	2.9000e-003		2.6900e-003	2.6900e-003	0.0000	10.9370	10.9370	3.4100e-003	0.0000	11.0223
Total	**6.9600e-003**	**0.0741**	**0.0547**	**1.3000e-004**		**2.9000e-003**	**2.9000e-003**		**2.6900e-003**	**2.6900e-003**	**0.0000**	**10.9370**	**10.9370**	**3.4100e-003**	**0.0000**	**11.0223**

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-005	2.6000e-004	2.0000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0397	0.0397	0.0000	1.0000e-005	0.0416
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	**1.0000e-005**	**2.6000e-004**	**2.0000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0397**	**0.0397**	**0.0000**	**1.0000e-005**	**0.0416**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Field surface replacement - 2024

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	6.9600e-003	0.0741	0.0547	1.3000e-004		2.9000e-003	2.9000e-003		2.6900e-003	2.6900e-003	0.0000	10.9370	10.9370	3.4100e-003	0.0000	11.0223
Total	**6.9600e-003**	**0.0741**	**0.0547**	**1.3000e-004**		**2.9000e-003**	**2.9000e-003**		**2.6900e-003**	**2.6900e-003**	**0.0000**	**10.9370**	**10.9370**	**3.4100e-003**	**0.0000**	**11.0223**

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-005	2.6000e-004	2.0000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0397	0.0397	0.0000	1.0000e-005	0.0416
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	**1.0000e-005**	**2.6000e-004**	**2.0000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0397**	**0.0397**	**0.0000**	**1.0000e-005**	**0.0416**

Spane Park Stormwater Capture Project- HRA Analysis - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.8 Restroom building construction - 2024

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	0.0132	0.1347	0.1100	2.5000e-004		5.6200e-003	5.6200e-003		5.2000e-003	5.2000e-003	0.0000	21.2820	21.2820	6.6300e-003	0.0000	21.4476
Total	**0.0132**	**0.1347**	**0.1100**	**2.5000e-004**		**5.6200e-003**	**5.6200e-003**		**5.2000e-003**	**5.2000e-003**	**0.0000**	**21.2820**	**21.2820**	**6.6300e-003**	**0.0000**	**21.4476**

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	3.0000e-005	6.3000e-004	4.9000e-004	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0964	0.0964	0.0000	1.0000e-005	0.1010
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	**3.0000e-005**	**6.3000e-004**	**4.9000e-004**	**0.0000**	**1.0000e-005**	**0.0000**	**1.0000e-005**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0964**	**0.0964**	**0.0000**	**1.0000e-005**	**0.1010**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.8 Restroom building construction - 2024

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	0.0132	0.1347	0.1100	2.5000e-004		5.6200e-003	5.6200e-003		5.2000e-003	5.2000e-003	0.0000	21.2819	21.2819	6.6300e-003	0.0000	21.4476
Total	**0.0132**	**0.1347**	**0.1100**	**2.5000e-004**		**5.6200e-003**	**5.6200e-003**		**5.2000e-003**	**5.2000e-003**	**0.0000**	**21.2819**	**21.2819**	**6.6300e-003**	**0.0000**	**21.4476**

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	3.0000e-005	6.3000e-004	4.9000e-004	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0964	0.0964	0.0000	1.0000e-005	0.1010
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	**3.0000e-005**	**6.3000e-004**	**4.9000e-004**	**0.0000**	**1.0000e-005**	**0.0000**	**1.0000e-005**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0964**	**0.0964**	**0.0000**	**1.0000e-005**	**0.1010**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.9 Basketball court construction - 2024

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	6.6900e-003	0.0632	0.0518	1.2000e-004		2.6100e-003	2.6100e-003		2.4400e-003	2.4400e-003	0.0000	9.7255	9.7255	2.8300e-003	0.0000	9.7963
Total	**6.6900e-003**	**0.0632**	**0.0518**	**1.2000e-004**		**2.6100e-003**	**2.6100e-003**		**2.4400e-003**	**2.4400e-003**	**0.0000**	**9.7255**	**9.7255**	**2.8300e-003**	**0.0000**	**9.7963**

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-005	2.6000e-004	2.0000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0397	0.0397	0.0000	1.0000e-005	0.0416
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	**1.0000e-005**	**2.6000e-004**	**2.0000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0397**	**0.0397**	**0.0000**	**1.0000e-005**	**0.0416**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.9 Basketball court construction - 2024

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	6.6900e-003	0.0632	0.0518	1.2000e-004		2.6100e-003	2.6100e-003		2.4400e-003	2.4400e-003	0.0000	9.7255	9.7255	2.8300e-003	0.0000	9.7962
Total	**6.6900e-003**	**0.0632**	**0.0518**	**1.2000e-004**		**2.6100e-003**	**2.6100e-003**		**2.4400e-003**	**2.4400e-003**	**0.0000**	**9.7255**	**9.7255**	**2.8300e-003**	**0.0000**	**9.7962**

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-005	2.6000e-004	2.0000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0397	0.0397	0.0000	1.0000e-005	0.0416
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	**1.0000e-005**	**2.6000e-004**	**2.0000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0397**	**0.0397**	**0.0000**	**1.0000e-005**	**0.0416**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.10 Concrete pathway improvements - 2024

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	6.2000e-004	3.8700e-003	3.2400e-003	1.0000e-005		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	0.4812	0.4812	5.0000e-005	0.0000	0.4824
Paving	1.1800e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**1.8000e-003**	**3.8700e-003**	**3.2400e-003**	**1.0000e-005**		**1.5000e-004**	**1.5000e-004**		**1.5000e-004**	**1.5000e-004**	**0.0000**	**0.4812**	**0.4812**	**5.0000e-005**	**0.0000**	**0.4824**

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-005	2.6000e-004	2.0000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0397	0.0397	0.0000	1.0000e-005	0.0416
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	**1.0000e-005**	**2.6000e-004**	**2.0000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0397**	**0.0397**	**0.0000**	**1.0000e-005**	**0.0416**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.10 Concrete pathway improvements - 2024

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	6.2000e-004	3.8700e-003	3.2400e-003	1.0000e-005		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	0.4812	0.4812	5.0000e-005	0.0000	0.4824
Paving	1.1800e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**1.8000e-003**	**3.8700e-003**	**3.2400e-003**	**1.0000e-005**		**1.5000e-004**	**1.5000e-004**		**1.5000e-004**	**1.5000e-004**	**0.0000**	**0.4812**	**0.4812**	**5.0000e-005**	**0.0000**	**0.4824**

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-005	2.6000e-004	2.0000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0397	0.0397	0.0000	1.0000e-005	0.0416
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	**1.0000e-005**	**2.6000e-004**	**2.0000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0397**	**0.0397**	**0.0000**	**1.0000e-005**	**0.0416**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.11 Pond and stream revitilization - 2024

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	0.0112	0.1144	0.0944	2.1000e-004		4.8700e-003	4.8700e-003		4.5100e-003	4.5100e-003	0.0000	17.8148	17.8148	5.5600e-003	0.0000	17.9536
Paving	1.1800e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0124**	**0.1144**	**0.0944**	**2.1000e-004**		**4.8700e-003**	**4.8700e-003**		**4.5100e-003**	**4.5100e-003**	**0.0000**	**17.8148**	**17.8148**	**5.5600e-003**	**0.0000**	**17.9536**

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	3.0000e-005	5.0000e-004	3.9000e-004	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0775	0.0775	0.0000	1.0000e-005	0.0812
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	**3.0000e-005**	**5.0000e-004**	**3.9000e-004**	**0.0000**	**1.0000e-005**	**0.0000**	**1.0000e-005**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0775**	**0.0775**	**0.0000**	**1.0000e-005**	**0.0812**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.11 Pond and stream revitilization - 2024

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	0.0112	0.1144	0.0944	2.1000e-004		4.8700e-003	4.8700e-003		4.5100e-003	4.5100e-003	0.0000	17.8147	17.8147	5.5600e-003	0.0000	17.9536
Paving	1.1800e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0124**	**0.1144**	**0.0944**	**2.1000e-004**		**4.8700e-003**	**4.8700e-003**		**4.5100e-003**	**4.5100e-003**	**0.0000**	**17.8147**	**17.8147**	**5.5600e-003**	**0.0000**	**17.9536**

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	3.0000e-005	5.0000e-004	3.9000e-004	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0775	0.0775	0.0000	1.0000e-005	0.0812
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	**3.0000e-005**	**5.0000e-004**	**3.9000e-004**	**0.0000**	**1.0000e-005**	**0.0000**	**1.0000e-005**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0775**	**0.0775**	**0.0000**	**1.0000e-005**	**0.0812**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.12 Ancillary park improvements - 2024

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	0.0101	0.1033	0.0852	1.9000e-004		4.4000e-003	4.4000e-003		4.0700e-003	4.0700e-003	0.0000	16.0767	16.0767	5.0100e-003	0.0000	16.2021
Paving	1.0600e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0112**	**0.1033**	**0.0852**	**1.9000e-004**		**4.4000e-003**	**4.4000e-003**		**4.0700e-003**	**4.0700e-003**	**0.0000**	**16.0767**	**16.0767**	**5.0100e-003**	**0.0000**	**16.2021**

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	2.0000e-005	4.6000e-004	3.5000e-004	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0700	0.0700	0.0000	1.0000e-005	0.0733
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	**2.0000e-005**	**4.6000e-004**	**3.5000e-004**	**0.0000**	**1.0000e-005**	**0.0000**	**1.0000e-005**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0700**	**0.0700**	**0.0000**	**1.0000e-005**	**0.0733**

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3.12 Ancillary park improvements - 2024

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	0.0101	0.1033	0.0852	1.9000e-004		4.4000e-003	4.4000e-003		4.0700e-003	4.0700e-003	0.0000	16.0767	16.0767	5.0100e-003	0.0000	16.2020
Paving	1.0600e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0112**	**0.1033**	**0.0852**	**1.9000e-004**		**4.4000e-003**	**4.4000e-003**		**4.0700e-003**	**4.0700e-003**	**0.0000**	**16.0767**	**16.0767**	**5.0100e-003**	**0.0000**	**16.2020**

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	2.0000e-005	4.6000e-004	3.5000e-004	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0700	0.0700	0.0000	1.0000e-005	0.0733
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	**2.0000e-005**	**4.6000e-004**	**3.5000e-004**	**0.0000**	**1.0000e-005**	**0.0000**	**1.0000e-005**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0700**	**0.0700**	**0.0000**	**1.0000e-005**	**0.0733**

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3.12 Ancillary park improvements - 2025

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	1.0400e-003	0.0103	9.1200e-003	2.0000e-005		4.3000e-004	4.3000e-004		4.0000e-004	4.0000e-004	0.0000	1.7379	1.7379	5.4000e-004	0.0000	1.7514
Paving	1.2000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**1.1600e-003**	**0.0103**	**9.1200e-003**	**2.0000e-005**		**4.3000e-004**	**4.3000e-004**		**4.0000e-004**	**4.0000e-004**	**0.0000**	**1.7379**	**1.7379**	**5.4000e-004**	**0.0000**	**1.7514**

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	5.0000e-005	4.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	7.4300e-003	7.4300e-003	0.0000	0.0000	7.7800e-003
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**	**5.0000e-005**	**4.0000e-005**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**7.4300e-003**	**7.4300e-003**	**0.0000**	**0.0000**	**7.7800e-003**

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3.12 Ancillary park improvements - 2025

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	1.0400e-003	0.0103	9.1200e-003	2.0000e-005		4.3000e-004	4.3000e-004		4.0000e-004	4.0000e-004	0.0000	1.7379	1.7379	5.4000e-004	0.0000	1.7514
Paving	1.2000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**1.1600e-003**	**0.0103**	**9.1200e-003**	**2.0000e-005**		**4.3000e-004**	**4.3000e-004**		**4.0000e-004**	**4.0000e-004**	**0.0000**	**1.7379**	**1.7379**	**5.4000e-004**	**0.0000**	**1.7514**

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	5.0000e-005	4.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	7.4300e-003	7.4300e-003	0.0000	0.0000	7.7800e-003
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**	**5.0000e-005**	**4.0000e-005**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**7.4300e-003**	**7.4300e-003**	**0.0000**	**0.0000**	**7.7800e-003**

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3.13 Parking reconstruction - 2024

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	3.6700e-003	0.0369	0.0539	8.0000e-005		1.6900e-003	1.6900e-003		1.5600e-003	1.5600e-003	0.0000	7.2820	7.2820	2.3000e-003	0.0000	7.3394
Paving	6.5000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**4.3200e-003**	**0.0369**	**0.0539**	**8.0000e-005**		**1.6900e-003**	**1.6900e-003**		**1.5600e-003**	**1.5600e-003**	**0.0000**	**7.2820**	**7.2820**	**2.3000e-003**	**0.0000**	**7.3394**

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-005	2.1000e-004	1.6000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0322	0.0322	0.0000	0.0000	0.0337
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	**1.0000e-005**	**2.1000e-004**	**1.6000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0322**	**0.0322**	**0.0000**	**0.0000**	**0.0337**

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3.13 Parking reconstruction - 2024

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	3.6700e-003	0.0369	0.0539	8.0000e-005		1.6900e-003	1.6900e-003		1.5600e-003	1.5600e-003	0.0000	7.2820	7.2820	2.3000e-003	0.0000	7.3394
Paving	6.5000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**4.3200e-003**	**0.0369**	**0.0539**	**8.0000e-005**		**1.6900e-003**	**1.6900e-003**		**1.5600e-003**	**1.5600e-003**	**0.0000**	**7.2820**	**7.2820**	**2.3000e-003**	**0.0000**	**7.3394**

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-005	2.1000e-004	1.6000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0322	0.0322	0.0000	0.0000	0.0337
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	**1.0000e-005**	**2.1000e-004**	**1.6000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0322**	**0.0322**	**0.0000**	**0.0000**	**0.0337**

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3.13 Parking reconstruction - 2025

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	2.8700e-003	0.0285	0.0443	7.0000e-005		1.2600e-003	1.2600e-003		1.1700e-003	1.1700e-003	0.0000	5.9947	5.9947	1.8900e-003	0.0000	6.0420
Paving	5.3000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**3.4000e-003**	**0.0285**	**0.0443**	**7.0000e-005**		**1.2600e-003**	**1.2600e-003**		**1.1700e-003**	**1.1700e-003**	**0.0000**	**5.9947**	**5.9947**	**1.8900e-003**	**0.0000**	**6.0420**

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-005	1.7000e-004	1.3000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0260	0.0260	0.0000	0.0000	0.0272
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	**1.0000e-005**	**1.7000e-004**	**1.3000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0260**	**0.0260**	**0.0000**	**0.0000**	**0.0272**

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3.13 Parking reconstruction - 2025

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	2.8700e-003	0.0285	0.0443	7.0000e-005		1.2600e-003	1.2600e-003		1.1700e-003	1.1700e-003	0.0000	5.9947	5.9947	1.8900e-003	0.0000	6.0420
Paving	5.3000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**3.4000e-003**	**0.0285**	**0.0443**	**7.0000e-005**		**1.2600e-003**	**1.2600e-003**		**1.1700e-003**	**1.1700e-003**	**0.0000**	**5.9947**	**5.9947**	**1.8900e-003**	**0.0000**	**6.0420**

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-005	1.7000e-004	1.3000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0260	0.0260	0.0000	0.0000	0.0272
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	**1.0000e-005**	**1.7000e-004**	**1.3000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0260**	**0.0260**	**0.0000**	**0.0000**	**0.0272**

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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
Parking Lot	0.00	0.00	0.00		
User Defined Industrial	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
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
User Defined Industrial	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Parking Lot	0.540171	0.064547	0.189075	0.126673	0.023412	0.006384	0.010926	0.008089	0.000929	0.000597	0.025155	0.000706	0.003335
User Defined Industrial	0.540171	0.064547	0.189075	0.126673	0.023412	0.006384	0.010926	0.008089	0.000929	0.000597	0.025155	0.000706	0.003335

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

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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					
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
User Defined Industrial	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					
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
User Defined Industrial	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**

Spane Park Stormwater Capture Project- HRA Analysis - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
User Defined Industrial	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			
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	0.4863	2.0000e-005	2.0000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.9100e-003	3.9100e-003	1.0000e-005	0.0000	4.1600e-003
Unmitigated	0.4863	2.0000e-005	2.0000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.9100e-003	3.9100e-003	1.0000e-005	0.0000	4.1600e-003

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	0.0555					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.4307					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.8000e-004	2.0000e-005	2.0000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.9100e-003	3.9100e-003	1.0000e-005	0.0000	4.1600e-003
Total	**0.4863**	**2.0000e-005**	**2.0000e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**	**0.0000**	**3.9100e-003**	**3.9100e-003**	**1.0000e-005**	**0.0000**	**4.1600e-003**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	0.0555					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.4307					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.8000e-004	2.0000e-005	2.0000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.9100e-003	3.9100e-003	1.0000e-005	0.0000	4.1600e-003
Total	**0.4863**	**2.0000e-005**	**2.0000e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**	**0.0000**	**3.9100e-003**	**3.9100e-003**	**1.0000e-005**	**0.0000**	**4.1600e-003**

7.0 Water Detail

7.1 Mitigation Measures Water

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	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			
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
User Defined Industrial	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
User Defined Industrial	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

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
User Defined Industrial	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			
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

9.0 Operational Offroad

Spane Park Stormwater Capture Project- HRA Analysis - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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

Spane Park Stormwater Capture Project- HRA Analysis Tier4 - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Spane Park Stormwater Capture Project- HRA Analysis Tier4

Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Industrial	118.48	User Defined Unit	2.72	118,483.00	0
Parking Lot	39.00	1000sqft	0.90	39,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	9			**Operational Year**	2025
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - 2.72 acre area disturbed. 39,000 SF paved. Provided by applicant

Construction Phase - Construction schedule provided by applicant.

Off-road Equipment - Equipment provided by project applicant.

Off-road Equipment - Equipment provided by project applicant.

Off-road Equipment - Equipment provided by project applicant.

Off-road Equipment - Equipment provided by project applicant.

Off-road Equipment - Equipment provided by project applicant.

Off-road Equipment - Equipment provided by project applicant.

Off-road Equipment - Equipment provided by project applicant.

Off-road Equipment - Equipment provided by project applicant.

Spane Park Stormwater Capture Project- HRA Analysis Tier4 - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Off-road Equipment - Equipment provided by project applicant.

Off-road Equipment - Equipment provided by project applicant.

Off-road Equipment - Equipment provided by project applicant.

Off-road Equipment - Equipment provided by project applicant.

Trips and VMT - Trips provided by applicant. For HRA analysis- only concerned with localized DPM emissions (i.e., within 1,000 ft of the project site and no gas passenger vehicles).

Demolition - Data provided by applicant.

Grading - Data provided by project applicant.

Vehicle Trips - Construction only.

Vehicle Emission Factors - Construction only.

Road Dust - Construction only.

Woodstoves - Construction only.

Consumer Products - Construction only.

Area Coating - Construction only.

Landscape Equipment - Construction only.

Energy Use - Construction only.

Water And Wastewater - Construction only.

Solid Waste - Construction only.

Construction Off-road Equipment Mitigation - Compliance with SCAQMD Rule 403- water twice daily. Mitigation water 3X. Tier 4 final for offroad equipment with >75hp due to potential health risk impact.

Fleet Mix - Construction only.

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
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tblConstructionPhase	NumDays	230.00	51.00
tblConstructionPhase	NumDays	230.00	21.00
tblConstructionPhase	NumDays	20.00	21.00
tblConstructionPhase	NumDays	8.00	51.00
tblConstructionPhase	NumDays	18.00	41.00
tblConstructionPhase	NumDays	18.00	41.00
tblConstructionPhase	NumDays	18.00	31.00
tblConstructionPhase	NumDays	18.00	21.00
tblConstructionPhase	NumDays	5.00	41.00
tblEnergyUse	LightingElect	0.35	0.00
tblGrading	AcresOfGrading	25.50	8.00
tblGrading	AcresOfGrading	41.00	7.50
tblGrading	MaterialExported	0.00	18,000.00
tblGrading	MaterialExported	0.00	1,800.00
tblLandUse	LandUseSquareFeet	0.00	118,483.00
tblLandUse	LotAcreage	0.00	2.72

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripNumber	25.00	26.00

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblTripsAndVMT	HaulingTripNumber	225.00	226.00
tblTripsAndVMT	HaulingTripNumber	0.00	20.00
tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripLength	6.90	0.19
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tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	26.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	26.00	2.00
tblTripsAndVMT	VendorTripNumber	26.00	2.00
tblTripsAndVMT	VendorTripNumber	26.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripLength	14.70	0.19
tblTripsAndVMT	WorkerTripLength	14.70	0.19
tblTripsAndVMT	WorkerTripLength	14.70	0.19
tblTripsAndVMT	WorkerTripLength	14.70	0.19
tblTripsAndVMT	WorkerTripLength	14.70	0.19
tblTripsAndVMT	WorkerTripLength	14.70	0.19

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblTripsAndVMT	WorkerTripLength	14.70	0.19
tblTripsAndVMT	WorkerTripLength	14.70	0.19
tblTripsAndVMT	WorkerTripLength	14.70	0.19
tblTripsAndVMT	WorkerTripLength	14.70	0.19
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tblTripsAndVMT	WorkerTripNumber	8.00	0.00
tblTripsAndVMT	WorkerTripNumber	10.00	0.00
tblTripsAndVMT	WorkerTripNumber	10.00	0.00
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tblTripsAndVMT	WorkerTripNumber	66.00	0.00
tblTripsAndVMT	WorkerTripNumber	66.00	0.00
tblTripsAndVMT	WorkerTripNumber	66.00	0.00
tblTripsAndVMT	WorkerTripNumber	3.00	0.00

2.0 Emissions Summary

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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					
2023	0.0684	0.7308	0.4576	1.0500e-003	0.2893	0.0303	0.3196	0.1538	0.0280	0.1818	0.0000	92.5747	92.5747	0.0271	6.2000e-004	93.4366
2024	0.1051	1.0375	0.7662	1.7100e-003	6.0000e-005	0.0453	0.0454	2.0000e-005	0.0418	0.0419	0.0000	148.3174	148.3174	0.0465	1.0000e-004	149.5094
2025	4.5700e-003	0.0390	0.0536	9.0000e-005	0.0000	1.7000e-003	1.7000e-003	0.0000	1.5700e-003	1.5700e-003	0.0000	7.7661	7.7661	2.4300e-003	1.0000e-005	7.8285
Maximum	**0.1051**	**1.0375**	**0.7662**	**1.7100e-003**	**0.2893**	**0.0453**	**0.3196**	**0.1538**	**0.0418**	**0.1818**	**0.0000**	**148.3174**	**148.3174**	**0.0465**	**6.2000e-004**	**149.5094**

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					
2023	0.0161	0.1261	0.5389	1.0500e-003	0.1130	3.3100e-003	0.1163	0.0600	3.1600e-003	0.0632	0.0000	92.5745	92.5745	0.0271	6.2000e-004	93.4365
2024	0.0375	0.2455	0.9129	1.7100e-003	6.0000e-005	8.1800e-003	8.2400e-003	2.0000e-005	7.8400e-003	7.8600e-003	0.0000	148.3172	148.3172	0.0465	1.0000e-004	149.5093
2025	2.4000e-003	0.0134	0.0610	9.0000e-005	0.0000	4.2000e-004	4.2000e-004	0.0000	4.0000e-004	4.1000e-004	0.0000	7.7661	7.7661	2.4300e-003	1.0000e-005	7.8285
Maximum	**0.0375**	**0.2455**	**0.9129**	**1.7100e-003**	**0.1130**	**8.1800e-003**	**0.1163**	**0.0600**	**7.8400e-003**	**0.0632**	**0.0000**	**148.3172**	**148.3172**	**0.0465**	**6.2000e-004**	**149.5093**

Spane Park Stormwater Capture Project- HRA Analysis Tier4 - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	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	**68.57**	**78.70**	**-18.44**	**0.00**	**60.94**	**84.59**	**65.92**	**60.96**	**84.03**	**68.27**	**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	**8-1-2023**	**10-31-2023**	0.5593	0.0956
2	**11-1-2023**	**1-31-2024**	0.3743	0.0667
3	**2-1-2024**	**4-30-2024**	0.4909	0.1047
4	**5-1-2024**	**7-31-2024**	0.1716	0.0462
5	**8-1-2024**	**10-31-2024**	0.1377	0.0479
6	**11-1-2024**	**1-31-2025**	0.2382	0.0770
		Highest	0.5593	0.1047

Spane Park Stormwater Capture Project- HRA Analysis Tier4 - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	0.4863	2.0000e-005	2.0000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.9100e-003	3.9100e-003	1.0000e-005	0.0000	4.1600e-003
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	**0.4863**	**2.0000e-005**	**2.0000e-003**	**0.0000**	**0.0000**	**1.0000e-005**	**1.0000e-005**	**0.0000**	**1.0000e-005**	**1.0000e-005**	**0.0000**	**3.9100e-003**	**3.9100e-003**	**1.0000e-005**	**0.0000**	**4.1600e-003**

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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	0.4863	2.0000e-005	2.0000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.9100e-003	3.9100e-003	1.0000e-005	0.0000	4.1600e-003
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	**0.4863**	**2.0000e-005**	**2.0000e-003**	**0.0000**	**0.0000**	**1.0000e-005**	**1.0000e-005**	**0.0000**	**1.0000e-005**	**1.0000e-005**	**0.0000**	**3.9100e-003**	**3.9100e-003**	**1.0000e-005**	**0.0000**	**4.1600e-003**

	ROG	NOx	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	Demolition of existing basketball courts and restroom building	Demolition	8/1/2023	8/29/2023	5	21	
2	Site mobilization, clearing, grubbing, and vegetation removal	Site Preparation	8/1/2023	9/26/2023	5	41	
3	Reservoir excavation	Grading	9/25/2023	12/4/2023	5	51	

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4	Reservoir construction	Building Construction	12/11/2023	3/25/2024	5	76	
5	Pipeline, diversion structure, and treatment facility/pump installation	Trenching	2/5/2024	4/1/2024	5	41	
6	Field surface replacement	Building Construction	4/1/2024	4/29/2024	5	21	
7	Restroom building construction	Building Construction	5/6/2024	7/15/2024	5	51	
8	Basketball court construction	Building Construction	7/22/2024	8/19/2024	5	21	
9	Concrete pathway improvements	Paving	8/26/2024	9/23/2024	5	21	
10	Pond and stream revitilization	Paving	9/23/2024	11/18/2024	5	41	
11	Ancillary park improvements	Paving	11/11/2024	1/6/2025	5	41	
12	Parking reconstruction	Paving	12/9/2024	1/20/2025	5	31	

Acres of Grading (Site Preparation Phase): 7.5

Acres of Grading (Grading Phase): 8

Acres of Paving: 0.9

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
Demolition of existing basketball courts and restroom building	Crushing/Proc. Equipment	1	8.00	85	0.78
Demolition of existing basketball courts and restroom building	Rubber Tired Dozers	1	8.00	247	0.40
Demolition of existing basketball courts and restroom building	Skid Steer Loaders	1	8.00	65	0.37
Site mobilization, clearing, grubbing, and vegetation removal	Graders	1	8.00	187	0.41
Site mobilization, clearing, grubbing, and vegetation removal	Rubber Tired Dozers	1	8.00	247	0.40
Site mobilization, clearing, grubbing, and vegetation removal	Skid Steer Loaders	1	8.00	65	0.37
Reservoir excavation	Rubber Tired Dozers	1	8.00	247	0.40
Reservoir excavation	Skid Steer Loaders	1	8.00	65	0.37
Reservoir excavation	Tractors/Loaders/Backhoes	1	8.00	97	0.37

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Reservoir construction	Cranes	1	8.00	231	0.29
Reservoir construction	Rubber Tired Dozers	1	8.00	247	0.40
Reservoir construction	Skid Steer Loaders	1	8.00	65	0.37
Pipeline, diversion structure, and treatment facility/pump installation	Cranes	1	8.00	231	0.29
Pipeline, diversion structure, and treatment facility/pump installation	Skid Steer Loaders	1	8.00	65	0.37
Pipeline, diversion structure, and treatment facility/pump installation	Trenchers	1	8.00	78	0.50
Field surface replacement	Dumpers/Tenders	1	8.00	16	0.38
Field surface replacement	Graders	1	8.00	187	0.41
Field surface replacement	Skid Steer Loaders	1	8.00	65	0.37
Field surface replacement	Sweepers/Scrubbers	1	8.00	64	0.46
Restroom building construction	Aerial Lifts	1	8.00	63	0.31
Restroom building construction	Cement and Mortar Mixers	1	8.00	9	0.56
Restroom building construction	Cranes	1	8.00	231	0.29
Restroom building construction	Forklifts	1	8.00	89	0.20
Basketball court construction	Aerial Lifts	1	8.00	63	0.31
Basketball court construction	Cement and Mortar Mixers	3	8.00	9	0.56
Basketball court construction	Cranes	1	8.00	231	0.29
Basketball court construction	Forklifts	1	8.00	89	0.20
Concrete pathway improvements	Cement and Mortar Mixers	1	8.00	9	0.56
Pond and stream revitilization	Cement and Mortar Mixers	1	8.00	9	0.56
Pond and stream revitilization	Cranes	1	8.00	231	0.29
Pond and stream revitilization	Forklifts	1	8.00	89	0.20
Pond and stream revitilization	Skid Steer Loaders	1	8.00	65	0.37
Ancillary park improvements	Cement and Mortar Mixers	1	8.00	9	0.56
Ancillary park improvements	Cranes	1	8.00	231	0.29
Ancillary park improvements	Forklifts	1	8.00	89	0.20
Ancillary park improvements	Skid Steer Loaders	1	8.00	65	0.37
Parking reconstruction	Pavers	1	8.00	130	0.42

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Parking reconstruction	Plate Compactors	1	8.00	8	0.43
Parking reconstruction	Rollers	1	8.00	80	0.38
Parking reconstruction	Skid Steer Loaders	1	8.00	65	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
Demolition of existing basketball courts and r	3	0.00	0.00	26.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Site mobilization, clearing, grubbing, an	3	0.00	0.00	226.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Reservoir excavation	3	0.00	0.00	2,250.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Reservoir construction	3	0.00	2.00	0.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Pipeline, diversion structure, and treatme	3	0.00	2.00	20.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Field surface replacement	4	0.00	2.00	0.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Restroom building construction	4	0.00	2.00	0.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Basketball court construction	6	0.00	2.00	0.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Concrete pathway improvements	1	0.00	2.00	0.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Pond and stream revitilization	4	0.00	2.00	0.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Ancillary park improvements	4	0.00	2.00	0.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Parking reconstruction	4	0.00	2.00	0.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

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3.2 Demolition of existing basketball courts and restroom building - 2023

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					2.7300e-003	0.0000	2.7300e-003	4.1000e-004	0.0000	4.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0126	0.1153	0.0926	1.9000e-004		5.3000e-003	5.3000e-003		5.0000e-003	5.0000e-003	0.0000	16.1172	16.1172	3.5400e-003	0.0000	16.2058
Total	**0.0126**	**0.1153**	**0.0926**	**1.9000e-004**	**2.7300e-003**	**5.3000e-003**	**8.0300e-003**	**4.1000e-004**	**5.0000e-003**	**5.4100e-003**	**0.0000**	**16.1172**	**16.1172**	**3.5400e-003**	**0.0000**	**16.2058**

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	1.0000e-005	2.6000e-004	2.0000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0402	0.0402	0.0000	1.0000e-005	0.0421
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	**1.0000e-005**	**2.6000e-004**	**2.0000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0402**	**0.0402**	**0.0000**	**1.0000e-005**	**0.0421**

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3.2 Demolition of existing basketball courts and restroom building - 2023

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					1.0600e-003	0.0000	1.0600e-003	1.6000e-004	0.0000	1.6000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.5200e-003	0.0170	0.1002	1.9000e-004		5.5000e-004	5.5000e-004		5.3000e-004	5.3000e-004	0.0000	16.1172	16.1172	3.5400e-003	0.0000	16.2058
Total	**2.5200e-003**	**0.0170**	**0.1002**	**1.9000e-004**	**1.0600e-003**	**5.5000e-004**	**1.6100e-003**	**1.6000e-004**	**5.3000e-004**	**6.9000e-004**	**0.0000**	**16.1172**	**16.1172**	**3.5400e-003**	**0.0000**	**16.2058**

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	1.0000e-005	2.6000e-004	2.0000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0402	0.0402	0.0000	1.0000e-005	0.0421
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	**1.0000e-005**	**2.6000e-004**	**2.0000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0402**	**0.0402**	**0.0000**	**1.0000e-005**	**0.0421**

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3.3 Site mobilization, clearing, grubbing, and vegetation removal - 2023

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					0.1275	0.0000	0.1275	0.0683	0.0000	0.0683	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0232	0.2592	0.1268	3.5000e-004		0.0103	0.0103		9.4500e-003	9.4500e-003	0.0000	31.0266	31.0266	0.0100	0.0000	31.2775
Total	**0.0232**	**0.2592**	**0.1268**	**3.5000e-004**	**0.1275**	**0.0103**	**0.1378**	**0.0683**	**9.4500e-003**	**0.0778**	**0.0000**	**31.0266**	**31.0266**	**0.0100**	**0.0000**	**31.2775**

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	1.2000e-004	2.2300e-003	1.7300e-003	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.3490	0.3490	1.0000e-005	6.0000e-005	0.3657
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	**1.2000e-004**	**2.2300e-003**	**1.7300e-003**	**0.0000**	**2.0000e-005**	**0.0000**	**2.0000e-005**	**1.0000e-005**	**0.0000**	**1.0000e-005**	**0.0000**	**0.3490**	**0.3490**	**1.0000e-005**	**6.0000e-005**	**0.3657**

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3.3 Site mobilization, clearing, grubbing, and vegetation removal - 2023

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					0.0497	0.0000	0.0497	0.0266	0.0000	0.0266	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.1400e-003	0.0342	0.1680	3.5000e-004		1.1100e-003	1.1100e-003		1.0600e-003	1.0600e-003	0.0000	31.0266	31.0266	0.0100	0.0000	31.2775
Total	**5.1400e-003**	**0.0342**	**0.1680**	**3.5000e-004**	**0.0497**	**1.1100e-003**	**0.0509**	**0.0266**	**1.0600e-003**	**0.0277**	**0.0000**	**31.0266**	**31.0266**	**0.0100**	**0.0000**	**31.2775**

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	1.2000e-004	2.2300e-003	1.7300e-003	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.3490	0.3490	1.0000e-005	6.0000e-005	0.3657
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	**1.2000e-004**	**2.2300e-003**	**1.7300e-003**	**0.0000**	**2.0000e-005**	**0.0000**	**2.0000e-005**	**1.0000e-005**	**0.0000**	**1.0000e-005**	**0.0000**	**0.3490**	**0.3490**	**1.0000e-005**	**6.0000e-005**	**0.3657**

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3.4 Reservoir excavation - 2023

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					0.1588	0.0000	0.1588	0.0850	0.0000	0.0850	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0230	0.2430	0.1714	3.5000e-004		0.0109	0.0109		9.9900e-003	9.9900e-003	0.0000	30.7455	30.7455	9.9400e-003	0.0000	30.9941
Total	**0.0230**	**0.2430**	**0.1714**	**3.5000e-004**	**0.1588**	**0.0109**	**0.1697**	**0.0850**	**9.9900e-003**	**0.0950**	**0.0000**	**30.7455**	**30.7455**	**9.9400e-003**	**0.0000**	**30.9941**

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	1.1600e-003	0.0222	0.0172	4.0000e-005	2.1000e-004	2.0000e-005	2.3000e-004	6.0000e-005	2.0000e-005	8.0000e-005	0.0000	3.4743	3.4743	1.1000e-004	5.5000e-004	3.6409
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	**1.1600e-003**	**0.0222**	**0.0172**	**4.0000e-005**	**2.1000e-004**	**2.0000e-005**	**2.3000e-004**	**6.0000e-005**	**2.0000e-005**	**8.0000e-005**	**0.0000**	**3.4743**	**3.4743**	**1.1000e-004**	**5.5000e-004**	**3.6409**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Reservoir excavation - 2023

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					0.0619	0.0000	0.0619	0.0332	0.0000	0.0332	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.2900e-003	0.0378	0.1928	3.5000e-004		1.2300e-003	1.2300e-003		1.1700e-003	1.1700e-003	0.0000	30.7455	30.7455	9.9400e-003	0.0000	30.9941
Total	**5.2900e-003**	**0.0378**	**0.1928**	**3.5000e-004**	**0.0619**	**1.2300e-003**	**0.0632**	**0.0332**	**1.1700e-003**	**0.0343**	**0.0000**	**30.7455**	**30.7455**	**9.9400e-003**	**0.0000**	**30.9941**

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	1.1600e-003	0.0222	0.0172	4.0000e-005	2.1000e-004	2.0000e-005	2.3000e-004	6.0000e-005	2.0000e-005	8.0000e-005	0.0000	3.4743	3.4743	1.1000e-004	5.5000e-004	3.6409
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	**1.1600e-003**	**0.0222**	**0.0172**	**4.0000e-005**	**2.1000e-004**	**2.0000e-005**	**2.3000e-004**	**6.0000e-005**	**2.0000e-005**	**8.0000e-005**	**0.0000**	**3.4743**	**3.4743**	**1.1000e-004**	**5.5000e-004**	**3.6409**

Spane Park Stormwater Capture Project- HRA Analysis Tier4 - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Reservoir construction - 2023

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	8.2600e-003	0.0886	0.0475	1.2000e-004		3.8200e-003	3.8200e-003		3.5200e-003	3.5200e-003	0.0000	10.7931	10.7931	3.4900e-003	0.0000	10.8803
Total	**8.2600e-003**	**0.0886**	**0.0475**	**1.2000e-004**		**3.8200e-003**	**3.8200e-003**		**3.5200e-003**	**3.5200e-003**	**0.0000**	**10.7931**	**10.7931**	**3.4900e-003**	**0.0000**	**10.8803**

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-005	1.9000e-004	1.5000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0288	0.0288	0.0000	0.0000	0.0302
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	**1.0000e-005**	**1.9000e-004**	**1.5000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0288**	**0.0288**	**0.0000**	**0.0000**	**0.0302**

Spane Park Stormwater Capture Project- HRA Analysis Tier4 - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Reservoir construction - 2023

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	1.8000e-003	0.0122	0.0586	1.2000e-004		3.9000e-004	3.9000e-004		3.8000e-004	3.8000e-004	0.0000	10.7930	10.7930	3.4900e-003	0.0000	10.8803
Total	**1.8000e-003**	**0.0122**	**0.0586**	**1.2000e-004**		**3.9000e-004**	**3.9000e-004**		**3.8000e-004**	**3.8000e-004**	**0.0000**	**10.7930**	**10.7930**	**3.4900e-003**	**0.0000**	**10.8803**

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-005	1.9000e-004	1.5000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0288	0.0288	0.0000	0.0000	0.0302
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	**1.0000e-005**	**1.9000e-004**	**1.5000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0288**	**0.0288**	**0.0000**	**0.0000**	**0.0302**

Spane Park Stormwater Capture Project- HRA Analysis Tier4 - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Reservoir construction - 2024

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	0.0332	0.3495	0.1919	5.0000e-004		0.0151	0.0151		0.0139	0.0139	0.0000	43.8931	43.8931	0.0142	0.0000	44.2480
Total	**0.0332**	**0.3495**	**0.1919**	**5.0000e-004**		**0.0151**	**0.0151**		**0.0139**	**0.0139**	**0.0000**	**43.8931**	**43.8931**	**0.0142**	**0.0000**	**44.2480**

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	4.0000e-005	7.5000e-004	5.8000e-004	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.1154	0.1154	0.0000	2.0000e-005	0.1208
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	**4.0000e-005**	**7.5000e-004**	**5.8000e-004**	**0.0000**	**1.0000e-005**	**0.0000**	**1.0000e-005**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.1154**	**0.1154**	**0.0000**	**2.0000e-005**	**0.1208**

Spane Park Stormwater Capture Project- HRA Analysis Tier4 - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Reservoir construction - 2024

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	7.2500e-003	0.0484	0.2384	5.0000e-004		1.5200e-003	1.5200e-003		1.4600e-003	1.4600e-003	0.0000	43.8930	43.8930	0.0142	0.0000	44.2479
Total	**7.2500e-003**	**0.0484**	**0.2384**	**5.0000e-004**		**1.5200e-003**	**1.5200e-003**		**1.4600e-003**	**1.4600e-003**	**0.0000**	**43.8930**	**43.8930**	**0.0142**	**0.0000**	**44.2479**

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	4.0000e-005	7.5000e-004	5.8000e-004	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.1154	0.1154	0.0000	2.0000e-005	0.1208
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	**4.0000e-005**	**7.5000e-004**	**5.8000e-004**	**0.0000**	**1.0000e-005**	**0.0000**	**1.0000e-005**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.1154**	**0.1154**	**0.0000**	**2.0000e-005**	**0.1208**

Spane Park Stormwater Capture Project- HRA Analysis Tier4 - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Pipeline, diversion structure, and treatment facility/pump installation - 2024

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	0.0151	0.1536	0.1179	2.3000e-004		8.0100e-003	8.0100e-003		7.3700e-003	7.3700e-003	0.0000	20.2066	20.2066	6.5400e-003	0.0000	20.3700
Total	**0.0151**	**0.1536**	**0.1179**	**2.3000e-004**		**8.0100e-003**	**8.0100e-003**		**7.3700e-003**	**7.3700e-003**	**0.0000**	**20.2066**	**20.2066**	**6.5400e-003**	**0.0000**	**20.3700**

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	1.0000e-005	2.0000e-004	1.5000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0304	0.0304	0.0000	0.0000	0.0319
Vendor	3.0000e-005	5.0000e-004	3.9000e-004	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0775	0.0775	0.0000	1.0000e-005	0.0812
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	**4.0000e-005**	**7.0000e-004**	**5.4000e-004**	**0.0000**	**1.0000e-005**	**0.0000**	**1.0000e-005**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.1080**	**0.1080**	**0.0000**	**1.0000e-005**	**0.1131**

Spane Park Stormwater Capture Project- HRA Analysis Tier4 - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Pipeline, diversion structure, and treatment facility/pump installation - 2024

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	3.5800e-003	0.0269	0.1338	2.3000e-004		8.5000e-004	8.5000e-004		8.1000e-004	8.1000e-004	0.0000	20.2066	20.2066	6.5400e-003	0.0000	20.3700
Total	**3.5800e-003**	**0.0269**	**0.1338**	**2.3000e-004**		**8.5000e-004**	**8.5000e-004**		**8.1000e-004**	**8.1000e-004**	**0.0000**	**20.2066**	**20.2066**	**6.5400e-003**	**0.0000**	**20.3700**

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	1.0000e-005	2.0000e-004	1.5000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0304	0.0304	0.0000	0.0000	0.0319
Vendor	3.0000e-005	5.0000e-004	3.9000e-004	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0775	0.0775	0.0000	1.0000e-005	0.0812
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	**4.0000e-005**	**7.0000e-004**	**5.4000e-004**	**0.0000**	**1.0000e-005**	**0.0000**	**1.0000e-005**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.1080**	**0.1080**	**0.0000**	**1.0000e-005**	**0.1131**

Spane Park Stormwater Capture Project- HRA Analysis Tier4 - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Field surface replacement - 2024

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	6.9600e-003	0.0741	0.0547	1.3000e-004		2.9000e-003	2.9000e-003		2.6900e-003	2.6900e-003	0.0000	10.9370	10.9370	3.4100e-003	0.0000	11.0223
Total	**6.9600e-003**	**0.0741**	**0.0547**	**1.3000e-004**		**2.9000e-003**	**2.9000e-003**		**2.6900e-003**	**2.6900e-003**	**0.0000**	**10.9370**	**10.9370**	**3.4100e-003**	**0.0000**	**11.0223**

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-005	2.6000e-004	2.0000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0397	0.0397	0.0000	1.0000e-005	0.0416
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	**1.0000e-005**	**2.6000e-004**	**2.0000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0397**	**0.0397**	**0.0000**	**1.0000e-005**	**0.0416**

Spane Park Stormwater Capture Project- HRA Analysis Tier4 - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Field surface replacement - 2024

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	4.0900e-003	0.0341	0.0685	1.3000e-004		1.6000e-003	1.6000e-003		1.5000e-003	1.5000e-003	0.0000	10.9370	10.9370	3.4100e-003	0.0000	11.0223
Total	**4.0900e-003**	**0.0341**	**0.0685**	**1.3000e-004**		**1.6000e-003**	**1.6000e-003**		**1.5000e-003**	**1.5000e-003**	**0.0000**	**10.9370**	**10.9370**	**3.4100e-003**	**0.0000**	**11.0223**

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-005	2.6000e-004	2.0000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0397	0.0397	0.0000	1.0000e-005	0.0416
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	**1.0000e-005**	**2.6000e-004**	**2.0000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0397**	**0.0397**	**0.0000**	**1.0000e-005**	**0.0416**

Spane Park Stormwater Capture Project- HRA Analysis Tier4 - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.8 Restroom building construction - 2024

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	0.0132	0.1347	0.1100	2.5000e-004		5.6200e-003	5.6200e-003		5.2000e-003	5.2000e-003	0.0000	21.2820	21.2820	6.6300e-003	0.0000	21.4476
Total	**0.0132**	**0.1347**	**0.1100**	**2.5000e-004**		**5.6200e-003**	**5.6200e-003**		**5.2000e-003**	**5.2000e-003**	**0.0000**	**21.2820**	**21.2820**	**6.6300e-003**	**0.0000**	**21.4476**

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	3.0000e-005	6.3000e-004	4.9000e-004	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0964	0.0964	0.0000	1.0000e-005	0.1010
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	**3.0000e-005**	**6.3000e-004**	**4.9000e-004**	**0.0000**	**1.0000e-005**	**0.0000**	**1.0000e-005**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0964**	**0.0964**	**0.0000**	**1.0000e-005**	**0.1010**

Spane Park Stormwater Capture Project- HRA Analysis Tier4 - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.8 Restroom building construction - 2024

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	4.6700e-003	0.0327	0.1316	2.5000e-004		9.0000e-004	9.0000e-004		8.8000e-004	8.8000e-004	0.0000	21.2819	21.2819	6.6300e-003	0.0000	21.4476
Total	**4.6700e-003**	**0.0327**	**0.1316**	**2.5000e-004**		**9.0000e-004**	**9.0000e-004**		**8.8000e-004**	**8.8000e-004**	**0.0000**	**21.2819**	**21.2819**	**6.6300e-003**	**0.0000**	**21.4476**

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	3.0000e-005	6.3000e-004	4.9000e-004	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0964	0.0964	0.0000	1.0000e-005	0.1010
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	**3.0000e-005**	**6.3000e-004**	**4.9000e-004**	**0.0000**	**1.0000e-005**	**0.0000**	**1.0000e-005**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0964**	**0.0964**	**0.0000**	**1.0000e-005**	**0.1010**

Spane Park Stormwater Capture Project- HRA Analysis Tier4 - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.9 Basketball court construction - 2024

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	6.6900e-003	0.0632	0.0518	1.2000e-004		2.6100e-003	2.6100e-003		2.4400e-003	2.4400e-003	0.0000	9.7255	9.7255	2.8300e-003	0.0000	9.7963
Total	**6.6900e-003**	**0.0632**	**0.0518**	**1.2000e-004**		**2.6100e-003**	**2.6100e-003**		**2.4400e-003**	**2.4400e-003**	**0.0000**	**9.7255**	**9.7255**	**2.8300e-003**	**0.0000**	**9.7963**

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-005	2.6000e-004	2.0000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0397	0.0397	0.0000	1.0000e-005	0.0416
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	**1.0000e-005**	**2.6000e-004**	**2.0000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0397**	**0.0397**	**0.0000**	**1.0000e-005**	**0.0416**

Spane Park Stormwater Capture Project- HRA Analysis Tier4 - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.9 Basketball court construction - 2024

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	3.1600e-003	0.0212	0.0607	1.2000e-004		6.7000e-004	6.7000e-004		6.6000e-004	6.6000e-004	0.0000	9.7255	9.7255	2.8300e-003	0.0000	9.7962
Total	**3.1600e-003**	**0.0212**	**0.0607**	**1.2000e-004**		**6.7000e-004**	**6.7000e-004**		**6.6000e-004**	**6.6000e-004**	**0.0000**	**9.7255**	**9.7255**	**2.8300e-003**	**0.0000**	**9.7962**

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-005	2.6000e-004	2.0000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0397	0.0397	0.0000	1.0000e-005	0.0416
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	**1.0000e-005**	**2.6000e-004**	**2.0000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0397**	**0.0397**	**0.0000**	**1.0000e-005**	**0.0416**

Spane Park Stormwater Capture Project- HRA Analysis Tier4 - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.10 Concrete pathway improvements - 2024

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	6.2000e-004	3.8700e-003	3.2400e-003	1.0000e-005		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	0.4812	0.4812	5.0000e-005	0.0000	0.4824
Paving	1.1800e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**1.8000e-003**	**3.8700e-003**	**3.2400e-003**	**1.0000e-005**		**1.5000e-004**	**1.5000e-004**		**1.5000e-004**	**1.5000e-004**	**0.0000**	**0.4812**	**0.4812**	**5.0000e-005**	**0.0000**	**0.4824**

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-005	2.6000e-004	2.0000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0397	0.0397	0.0000	1.0000e-005	0.0416
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	**1.0000e-005**	**2.6000e-004**	**2.0000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0397**	**0.0397**	**0.0000**	**1.0000e-005**	**0.0416**

Spane Park Stormwater Capture Project- HRA Analysis Tier4 - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.10 Concrete pathway improvements - 2024

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	6.2000e-004	3.8700e-003	3.2400e-003	1.0000e-005		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	0.4812	0.4812	5.0000e-005	0.0000	0.4824
Paving	1.1800e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**1.8000e-003**	**3.8700e-003**	**3.2400e-003**	**1.0000e-005**		**1.5000e-004**	**1.5000e-004**		**1.5000e-004**	**1.5000e-004**	**0.0000**	**0.4812**	**0.4812**	**5.0000e-005**	**0.0000**	**0.4824**

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-005	2.6000e-004	2.0000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0397	0.0397	0.0000	1.0000e-005	0.0416
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	**1.0000e-005**	**2.6000e-004**	**2.0000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0397**	**0.0397**	**0.0000**	**1.0000e-005**	**0.0416**

Spane Park Stormwater Capture Project- HRA Analysis Tier4 - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.11 Pond and stream revitilization - 2024

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	0.0112	0.1144	0.0944	2.1000e-004		4.8700e-003	4.8700e-003		4.5100e-003	4.5100e-003	0.0000	17.8148	17.8148	5.5600e-003	0.0000	17.9536
Paving	1.1800e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0124**	**0.1144**	**0.0944**	**2.1000e-004**		**4.8700e-003**	**4.8700e-003**		**4.5100e-003**	**4.5100e-003**	**0.0000**	**17.8148**	**17.8148**	**5.5600e-003**	**0.0000**	**17.9536**

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	3.0000e-005	5.0000e-004	3.9000e-004	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0775	0.0775	0.0000	1.0000e-005	0.0812
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	**3.0000e-005**	**5.0000e-004**	**3.9000e-004**	**0.0000**	**1.0000e-005**	**0.0000**	**1.0000e-005**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0775**	**0.0775**	**0.0000**	**1.0000e-005**	**0.0812**

Spane Park Stormwater Capture Project- HRA Analysis Tier4 - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.11 Pond and stream revitilization - 2024

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	4.3200e-003	0.0325	0.1118	2.1000e-004		1.0800e-003	1.0800e-003		1.0400e-003	1.0400e-003	0.0000	17.8147	17.8147	5.5600e-003	0.0000	17.9536
Paving	1.1800e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**5.5000e-003**	**0.0325**	**0.1118**	**2.1000e-004**		**1.0800e-003**	**1.0800e-003**		**1.0400e-003**	**1.0400e-003**	**0.0000**	**17.8147**	**17.8147**	**5.5600e-003**	**0.0000**	**17.9536**

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	3.0000e-005	5.0000e-004	3.9000e-004	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0775	0.0775	0.0000	1.0000e-005	0.0812
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	**3.0000e-005**	**5.0000e-004**	**3.9000e-004**	**0.0000**	**1.0000e-005**	**0.0000**	**1.0000e-005**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0775**	**0.0775**	**0.0000**	**1.0000e-005**	**0.0812**

Spane Park Stormwater Capture Project- HRA Analysis Tier4 - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.12 Ancillary park improvements - 2024

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	0.0101	0.1033	0.0852	1.9000e-004		4.4000e-003	4.4000e-003		4.0700e-003	4.0700e-003	0.0000	16.0767	16.0767	5.0100e-003	0.0000	16.2021
Paving	1.0600e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0112**	**0.1033**	**0.0852**	**1.9000e-004**		**4.4000e-003**	**4.4000e-003**		**4.0700e-003**	**4.0700e-003**	**0.0000**	**16.0767**	**16.0767**	**5.0100e-003**	**0.0000**	**16.2021**

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	2.0000e-005	4.6000e-004	3.5000e-004	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0700	0.0700	0.0000	1.0000e-005	0.0733
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	**2.0000e-005**	**4.6000e-004**	**3.5000e-004**	**0.0000**	**1.0000e-005**	**0.0000**	**1.0000e-005**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0700**	**0.0700**	**0.0000**	**1.0000e-005**	**0.0733**

Spane Park Stormwater Capture Project- HRA Analysis Tier4 - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.12 Ancillary park improvements - 2024

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	3.9000e-003	0.0293	0.1009	1.9000e-004		9.8000e-004	9.8000e-004		9.4000e-004	9.4000e-004	0.0000	16.0767	16.0767	5.0100e-003	0.0000	16.2020
Paving	1.0600e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**4.9600e-003**	**0.0293**	**0.1009**	**1.9000e-004**		**9.8000e-004**	**9.8000e-004**		**9.4000e-004**	**9.4000e-004**	**0.0000**	**16.0767**	**16.0767**	**5.0100e-003**	**0.0000**	**16.2020**

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	2.0000e-005	4.6000e-004	3.5000e-004	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0700	0.0700	0.0000	1.0000e-005	0.0733
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	**2.0000e-005**	**4.6000e-004**	**3.5000e-004**	**0.0000**	**1.0000e-005**	**0.0000**	**1.0000e-005**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0700**	**0.0700**	**0.0000**	**1.0000e-005**	**0.0733**

Spane Park Stormwater Capture Project- HRA Analysis Tier4 - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.12 Ancillary park improvements - 2025

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	1.0400e-003	0.0103	9.1200e-003	2.0000e-005		4.3000e-004	4.3000e-004		4.0000e-004	4.0000e-004	0.0000	1.7379	1.7379	5.4000e-004	0.0000	1.7514
Paving	1.2000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**1.1600e-003**	**0.0103**	**9.1200e-003**	**2.0000e-005**		**4.3000e-004**	**4.3000e-004**		**4.0000e-004**	**4.0000e-004**	**0.0000**	**1.7379**	**1.7379**	**5.4000e-004**	**0.0000**	**1.7514**

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	5.0000e-005	4.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	7.4300e-003	7.4300e-003	0.0000	0.0000	7.7800e-003
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**	**5.0000e-005**	**4.0000e-005**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**7.4300e-003**	**7.4300e-003**	**0.0000**	**0.0000**	**7.7800e-003**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.12 Ancillary park improvements - 2025

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	4.2000e-004	3.1000e-003	0.0109	2.0000e-005		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	1.7379	1.7379	5.4000e-004	0.0000	1.7514
Paving	1.2000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**5.4000e-004**	**3.1000e-003**	**0.0109**	**2.0000e-005**		**1.0000e-004**	**1.0000e-004**		**1.0000e-004**	**1.0000e-004**	**0.0000**	**1.7379**	**1.7379**	**5.4000e-004**	**0.0000**	**1.7514**

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	5.0000e-005	4.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	7.4300e-003	7.4300e-003	0.0000	0.0000	7.7800e-003
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**	**5.0000e-005**	**4.0000e-005**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**7.4300e-003**	**7.4300e-003**	**0.0000**	**0.0000**	**7.7800e-003**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.13 Parking reconstruction - 2024

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	3.6700e-003	0.0369	0.0539	8.0000e-005		1.6900e-003	1.6900e-003		1.5600e-003	1.5600e-003	0.0000	7.2820	7.2820	2.3000e-003	0.0000	7.3394
Paving	6.5000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**4.3200e-003**	**0.0369**	**0.0539**	**8.0000e-005**		**1.6900e-003**	**1.6900e-003**		**1.5600e-003**	**1.5600e-003**	**0.0000**	**7.2820**	**7.2820**	**2.3000e-003**	**0.0000**	**7.3394**

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-005	2.1000e-004	1.6000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0322	0.0322	0.0000	0.0000	0.0337
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	**1.0000e-005**	**2.1000e-004**	**1.6000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0322**	**0.0322**	**0.0000**	**0.0000**	**0.0337**

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3.13 Parking reconstruction - 2024

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	1.6400e-003	0.0125	0.0607	8.0000e-005		4.1000e-004	4.1000e-004		3.9000e-004	3.9000e-004	0.0000	7.2820	7.2820	2.3000e-003	0.0000	7.3394
Paving	6.5000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**2.2900e-003**	**0.0125**	**0.0607**	**8.0000e-005**		**4.1000e-004**	**4.1000e-004**		**3.9000e-004**	**3.9000e-004**	**0.0000**	**7.2820**	**7.2820**	**2.3000e-003**	**0.0000**	**7.3394**

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-005	2.1000e-004	1.6000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0322	0.0322	0.0000	0.0000	0.0337
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	**1.0000e-005**	**2.1000e-004**	**1.6000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0322**	**0.0322**	**0.0000**	**0.0000**	**0.0337**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.13 Parking reconstruction - 2025

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	2.8700e-003	0.0285	0.0443	7.0000e-005		1.2600e-003	1.2600e-003		1.1700e-003	1.1700e-003	0.0000	5.9947	5.9947	1.8900e-003	0.0000	6.0420
Paving	5.3000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**3.4000e-003**	**0.0285**	**0.0443**	**7.0000e-005**		**1.2600e-003**	**1.2600e-003**		**1.1700e-003**	**1.1700e-003**	**0.0000**	**5.9947**	**5.9947**	**1.8900e-003**	**0.0000**	**6.0420**

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-005	1.7000e-004	1.3000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0260	0.0260	0.0000	0.0000	0.0272
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	**1.0000e-005**	**1.7000e-004**	**1.3000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0260**	**0.0260**	**0.0000**	**0.0000**	**0.0272**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.13 Parking reconstruction - 2025

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	1.3300e-003	0.0100	0.0500	7.0000e-005		3.2000e-004	3.2000e-004		3.1000e-004	3.1000e-004	0.0000	5.9947	5.9947	1.8900e-003	0.0000	6.0420
Paving	5.3000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**1.8600e-003**	**0.0100**	**0.0500**	**7.0000e-005**		**3.2000e-004**	**3.2000e-004**		**3.1000e-004**	**3.1000e-004**	**0.0000**	**5.9947**	**5.9947**	**1.8900e-003**	**0.0000**	**6.0420**

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-005	1.7000e-004	1.3000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0260	0.0260	0.0000	0.0000	0.0272
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	**1.0000e-005**	**1.7000e-004**	**1.3000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0260**	**0.0260**	**0.0000**	**0.0000**	**0.0272**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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
Parking Lot	0.00	0.00	0.00		
User Defined Industrial	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
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
User Defined Industrial	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

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Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Parking Lot	0.540171	0.064547	0.189075	0.126673	0.023412	0.006384	0.010926	0.008089	0.000929	0.000597	0.025155	0.000706	0.003335
User Defined Industrial	0.540171	0.064547	0.189075	0.126673	0.023412	0.006384	0.010926	0.008089	0.000929	0.000597	0.025155	0.000706	0.003335

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

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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					
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
User Defined Industrial	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					
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
User Defined Industrial	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**

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5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
User Defined Industrial	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			
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

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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	0.4863	2.0000e-005	2.0000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.9100e-003	3.9100e-003	1.0000e-005	0.0000	4.1600e-003
Unmitigated	0.4863	2.0000e-005	2.0000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.9100e-003	3.9100e-003	1.0000e-005	0.0000	4.1600e-003

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	0.0555					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.4307					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.8000e-004	2.0000e-005	2.0000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.9100e-003	3.9100e-003	1.0000e-005	0.0000	4.1600e-003
Total	**0.4863**	**2.0000e-005**	**2.0000e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**	**0.0000**	**3.9100e-003**	**3.9100e-003**	**1.0000e-005**	**0.0000**	**4.1600e-003**

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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	0.0555					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.4307					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.8000e-004	2.0000e-005	2.0000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.9100e-003	3.9100e-003	1.0000e-005	0.0000	4.1600e-003
Total	**0.4863**	**2.0000e-005**	**2.0000e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**	**0.0000**	**3.9100e-003**	**3.9100e-003**	**1.0000e-005**	**0.0000**	**4.1600e-003**

7.0 Water Detail

7.1 Mitigation Measures Water

Spane Park Stormwater Capture Project- HRA Analysis Tier4 - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	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			
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
User Defined Industrial	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

Spane Park Stormwater Capture Project- HRA Analysis Tier4 - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
User Defined Industrial	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

Spane Park Stormwater Capture Project- HRA Analysis Tier4 - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
User Defined Industrial	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			
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

9.0 Operational Offroad

Spane Park Stormwater Capture Project- HRA Analysis Tier4 - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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

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** AERMOD View Ver. 10.2.1
** Lakes Environmental Software Inc.
** Date: 10/25/2022
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** AERMOD Control Pathway
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** AERMOD Source Pathway
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** PREFIX
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SRCPARAM L0000091     0.007751938      5.00      4.19      4.65
SRCPARAM L0000092     0.007751938      5.00      4.19      4.65
SRCPARAM L0000093     0.007751938      5.00      4.19      4.65
SRCPARAM L0000094     0.007751938      5.00      4.19      4.65
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   SRCPARAM L0000095     0.007751938      5.00      4.19      4.65
   SRCPARAM L0000096     0.007751938      5.00      4.19      4.65
   SRCPARAM L0000097     0.007751938      5.00      4.19      4.65
   SRCPARAM L0000098     0.007751938      5.00      4.19      4.65
   SRCPARAM L0000099     0.007751938      5.00      4.19      4.65
   SRCPARAM L0000100     0.007751938      5.00      4.19      4.65
   SRCPARAM L0000101     0.007751938      5.00      4.19      4.65
   SRCPARAM L0000102     0.007751938      5.00      4.19      4.65
   SRCPARAM L0000103     0.007751938      5.00      4.19      4.65
   SRCPARAM L0000104     0.007751938      5.00      4.19      4.65
   SRCPARAM L0000105     0.007751938      5.00      4.19      4.65
   SRCPARAM L0000106     0.007751938      5.00      4.19      4.65
   SRCPARAM L0000107     0.007751938      5.00      4.19      4.65
   SRCPARAM L0000108     0.007751938      5.00      4.19      4.65
   SRCPARAM L0000109     0.007751938      5.00      4.19      4.65
   SRCPARAM L0000110     0.007751938      5.00      4.19      4.65
   SRCPARAM L0000111     0.007751938      5.00      4.19      4.65
   SRCPARAM L0000112     0.007751938      5.00      4.19      4.65
   SRCPARAM L0000113     0.007751938      5.00      4.19      4.65
   SRCPARAM L0000114     0.007751938      5.00      4.19      4.65
   SRCPARAM L0000115     0.007751938      5.00      4.19      4.65
   SRCPARAM L0000116     0.007751938      5.00      4.19      4.65
   SRCPARAM L0000117     0.007751938      5.00      4.19      4.65
   SRCPARAM L0000118     0.007751938      5.00      4.19      4.65
   SRCPARAM L0000119     0.007751938      5.00      4.19      4.65
   SRCPARAM L0000120     0.007751938      5.00      4.19      4.65
   SRCPARAM L0000121     0.007751938      5.00      4.19      4.65
   SRCPARAM L0000122     0.007751938      5.00      4.19      4.65
   SRCPARAM L0000123     0.007751938      5.00      4.19      4.65
   SRCPARAM L0000124     0.007751938      5.00      4.19      4.65
   SRCPARAM L0000125     0.007751938      5.00      4.19      4.65
   SRCPARAM L0000126     0.007751938      5.00      4.19      4.65
   SRCPARAM L0000127     0.007751938      5.00      4.19      4.65
   SRCPARAM L0000128     0.007751938      5.00      4.19      4.65
   SRCPARAM L0000129     0.007751938      5.00      4.19      4.65
** ------------------------------------------------------------------
   URBANSRC ALL
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED Spane_Con_HRA.rou
RE FINISHED
**
**************************************
```

```
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE
"\\dudek.int\data\Projects\300.Environmental\14427_Craftwater_Spane_Park\02 Dudek
Work Products\01 Documents\AQ_GHG\Con HRA\PICO_V9_ADJU\PICO_v9.SFC"
   PROFFILE
"\\dudek.int\data\Projects\300.Environmental\14427_Craftwater_Spane_Park\02 Dudek
Work Products\01 Documents\AQ_GHG\Con HRA\PICO_V9_ADJU\PICO_v9.PFL"
   SURFDATA 3166 2010
   UAIRDATA 3190 2010
   SITEDATA 99999 2010
   PROFBASE 58.0 METERS
ME FINISHED
**
**************************************
** AERMOD Output Pathway
**************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 1 1ST
** Auto-Generated Plotfiles
   PLOTFILE 1 ALL 1ST Spane_Con_HRA.AD\01H1GALL.PLT 31
   PLOTFILE PERIOD ALL Spane_Con_HRA.AD\PE00GALL.PLT 32
   SUMMFILE Spane_Con_HRA.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   ********
 ME W186     361       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used
     0.50
 ME W187     361       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET
```

```
 **********************************
 *** SETUP Finishes Successfully ***
 **********************************

 *** AERMOD - VERSION 21112  ***   *** C:\Users\shalterman\Desktop\HRAs\Modera
Melrose\Spane_Con_HRA\Spane_ ***        10/25/22
 *** AERMET - VERSION  16216 ***   ***
                       ***        19:36:07

                                  PAGE   1
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  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 URBAN Dispersion Algorithm for the SBL for   129 Source(s),
   for Total of    1 Urban Area(s):
   Urban Population =   9818605.0 ;  Urban Roughness Length =  1.000 m

 **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.
         6. Urban Roughness Length of 1.0 Meter Assumed.

 **Other Options Specified:
         ADJ_U*   - Use ADJ_U* option for SBL in AERMET
         TEMP_Sub - Meteorological data includes TEMP substitutions

 **Model Assumes No FLAGPOLE Receptor Heights.

 **The User Specified a Pollutant Type of:  PM_10

 **Model Calculates  1 Short Term Average(s) of:   1-HR
     and Calculates PERIOD Averages

 **This Run Includes:    129 Source(s);       1 Source Group(s); and    1116
```

```
Receptor(s)

                with:      0 POINT(s), including
                           0 POINTCAP(s) and      0 POINTHOR(s)
                 and:    129 VOLUME source(s)
                 and:      0 AREA type source(s)
                 and:      0 LINE source(s)
                 and:      0 RLINE/RLINEXT source(s)
                 and:      0 OPENPIT source(s)
                 and:      0 BUOYANT LINE source(s) with a total of     0 line(s)


 **Model Set To Continue RUNning After the Setup Testing.

 **The AERMET Input Meteorological Data Version Date:  16216

 **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) =    58.00 ;  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 =      3.7 MB of RAM.

 **Input Runstream File:          aermod.inp

 **Output Print File:             aermod.out


 **Detailed Error/Message File:   Spane_Con_HRA.err

 **File for Summary of Results:   Spane_Con_HRA.sum

 *** AERMOD - VERSION 21112  ***   *** C:\Users\shalterman\Desktop\HRAs\Modera
Melrose\Spane_Con_HRA\Spane_ ***        10/25/22
 *** AERMET - VERSION  16216 ***   ***
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*** 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 SCALAR VARY BY
L0000001	0	0.77519E-02	391274.6	3752067.4	23.3	5.00	4.19	4.65	YES	
L0000002	0	0.77519E-02	391283.6	3752067.4	23.3	5.00	4.19	4.65	YES	
L0000003	0	0.77519E-02	391292.6	3752067.4	23.7	5.00	4.19	4.65	YES	
L0000004	0	0.77519E-02	391301.6	3752067.3	23.6	5.00	4.19	4.65	YES	
L0000005	0	0.77519E-02	391310.6	3752067.3	23.6	5.00	4.19	4.65	YES	
L0000006	0	0.77519E-02	391319.6	3752067.2	23.6	5.00	4.19	4.65	YES	
L0000007	0	0.77519E-02	391328.6	3752067.2	23.7	5.00	4.19	4.65	YES	
L0000008	0	0.77519E-02	391335.2	3752064.8	24.0	5.00	4.19	4.65	YES	
L0000009	0	0.77519E-02	391335.4	3752055.8	23.6	5.00	4.19	4.65	YES	
L0000010	0	0.77519E-02	391335.6	3752046.8	23.6	5.00	4.19	4.65	YES	
L0000011	0	0.77519E-02	391335.8	3752037.8	23.6	5.00	4.19	4.65	YES	
L0000012	0	0.77519E-02	391336.0	3752028.8	23.6	5.00	4.19	4.65	YES	
L0000013	0	0.77519E-02	391336.2	3752019.8	23.9	5.00	4.19	4.65	YES	
L0000014	0	0.77519E-02	391336.4	3752010.8	24.3	5.00	4.19	4.65	YES	
L0000015	0	0.77519E-02	391336.6	3752001.8	25.1	5.00	4.19	4.65	YES	
L0000016	0	0.77519E-02	391336.7	3751992.8	25.9	5.00	4.19	4.65	YES	
L0000017	0	0.77519E-02	391336.9	3751983.8	26.1	5.00	4.19			

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4.65     YES
 L0000018         0   0.77519E-02  391337.1 3751974.8    26.0     5.00     4.19
4.65     YES
 L0000019         0   0.77519E-02  391337.3 3751965.8    25.6     5.00     4.19
4.65     YES
 L0000020         0   0.77519E-02  391337.5 3751956.8    25.3     5.00     4.19
4.65     YES
 L0000021         0   0.77519E-02  391337.7 3751947.8    25.2     5.00     4.19
4.65     YES
 L0000022         0   0.77519E-02  391337.9 3751938.8    25.1     5.00     4.19
4.65     YES
 L0000023         0   0.77519E-02  391330.0 3751936.5    24.6     5.00     4.19
4.65     YES
 L0000024         0   0.77519E-02  391321.1 3751935.1    24.0     5.00     4.19
4.65     YES
 L0000025         0   0.77519E-02  391312.3 3751933.6    23.4     5.00     4.19
4.65     YES
 L0000026         0   0.77519E-02  391303.4 3751932.1    23.1     5.00     4.19
4.65     YES
 L0000027         0   0.77519E-02  391294.5 3751930.7    23.1     5.00     4.19
4.65     YES
 L0000028         0   0.77519E-02  391285.6 3751929.2    23.2     5.00     4.19
4.65     YES
 L0000029         0   0.77519E-02  391276.7 3751927.8    23.4     5.00     4.19
4.65     YES
 L0000030         0   0.77519E-02  391272.1 3751934.3    23.4     5.00     4.19
4.65     YES
 L0000031         0   0.77519E-02  391268.4 3751942.5    23.5     5.00     4.19
4.65     YES
 L0000032         0   0.77519E-02  391264.6 3751950.7    23.7     5.00     4.19
4.65     YES
 L0000033         0   0.77519E-02  391260.9 3751958.9    23.6     5.00     4.19
4.65     YES
 L0000034         0   0.77519E-02  391257.2 3751967.0    23.4     5.00     4.19
4.65     YES
 L0000035         0   0.77519E-02  391253.4 3751975.2    23.4     5.00     4.19
4.65     YES
 L0000036         0   0.77519E-02  391249.7 3751983.4    23.2     5.00     4.19
4.65     YES
 L0000037         0   0.77519E-02  391246.0 3751991.6    23.6     5.00     4.19
4.65     YES
 L0000038         0   0.77519E-02  391242.2 3751999.8    23.3     5.00     4.19
4.65     YES
 L0000039         0   0.77519E-02  391238.5 3752008.0    23.1     5.00     4.19
4.65     YES
 L0000040         0   0.77519E-02  391239.1 3752014.4    23.1     5.00     4.19
4.65     YES
↟ *** AERMOD - VERSION 21112  ***   *** C:\Users\shalterman\Desktop\HRAs\Modera
Melrose\Spane_Con_HRA\Spane_ ***        10/25/22
 *** AERMET - VERSION  16216 ***   ***
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN 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)	INIT. SZ (METERS)	URBAN SOURCE BY	EMISSION RATE SCALAR VARY
L0000041	0	0.77519E-02	391247.5	3752017.7	23.1	5.00	4.19	4.65	YES	
L0000042	0	0.77519E-02	391255.9	3752021.0	23.2	5.00	4.19	4.65	YES	
L0000043	0	0.77519E-02	391264.3	3752024.3	23.3	5.00	4.19	4.65	YES	
L0000044	0	0.77519E-02	391268.8	3752030.4	23.4	5.00	4.19	4.65	YES	
L0000045	0	0.77519E-02	391269.5	3752039.3	23.4	5.00	4.19	4.65	YES	
L0000046	0	0.77519E-02	391270.1	3752048.3	23.4	5.00	4.19	4.65	YES	
L0000047	0	0.77519E-02	391271.7	3752056.3	23.4	5.00	4.19	4.65	YES	
L0000048	0	0.77519E-02	391280.7	3752056.4	23.4	5.00	4.19	4.65	YES	
L0000049	0	0.77519E-02	391289.7	3752056.5	23.4	5.00	4.19	4.65	YES	
L0000050	0	0.77519E-02	391298.7	3752056.6	23.5	5.00	4.19	4.65	YES	
L0000051	0	0.77519E-02	391307.7	3752056.7	23.5	5.00	4.19	4.65	YES	
L0000052	0	0.77519E-02	391316.7	3752056.8	23.5	5.00	4.19	4.65	YES	
L0000053	0	0.77519E-02	391323.5	3752054.5	23.5	5.00	4.19	4.65	YES	
L0000054	0	0.77519E-02	391323.8	3752045.5	23.5	5.00	4.19	4.65	YES	
L0000055	0	0.77519E-02	391324.1	3752036.5	23.5	5.00	4.19	4.65	YES	
L0000056	0	0.77519E-02	391324.4	3752027.5	23.4	5.00	4.19	4.65	YES	
L0000057	0	0.77519E-02	391324.8	3752018.5	23.4	5.00	4.19			

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4.65     YES
 L0000058         0   0.77519E-02  391325.1 3752009.5    23.6     5.00     4.19
4.65     YES
 L0000059         0   0.77519E-02  391325.4 3752000.6    24.4     5.00     4.19
4.65     YES
 L0000060         0   0.77519E-02  391325.7 3751991.6    26.0     5.00     4.19
4.65     YES
 L0000061         0   0.77519E-02  391326.1 3751982.6    26.4     5.00     4.19
4.65     YES
 L0000062         0   0.77519E-02  391326.4 3751973.6    26.1     5.00     4.19
4.65     YES
 L0000063         0   0.77519E-02  391326.7 3751964.6    25.9     5.00     4.19
4.65     YES
 L0000064         0   0.77519E-02  391327.0 3751955.6    25.6     5.00     4.19
4.65     YES
 L0000065         0   0.77519E-02  391325.5 3751948.1    25.1     5.00     4.19
4.65     YES
 L0000066         0   0.77519E-02  391316.6 3751946.6    24.2     5.00     4.19
4.65     YES
 L0000067         0   0.77519E-02  391307.8 3751945.0    23.6     5.00     4.19
4.65     YES
 L0000068         0   0.77519E-02  391298.9 3751943.5    23.2     5.00     4.19
4.65     YES
 L0000069         0   0.77519E-02  391290.0 3751942.0    23.1     5.00     4.19
4.65     YES
 L0000070         0   0.77519E-02  391282.4 3751942.9    23.2     5.00     4.19
4.65     YES
 L0000071         0   0.77519E-02  391278.5 3751951.0    23.7     5.00     4.19
4.65     YES
 L0000072         0   0.77519E-02  391274.7 3751959.1    23.6     5.00     4.19
4.65     YES
 L0000073         0   0.77519E-02  391270.8 3751967.2    23.5     5.00     4.19
4.65     YES
 L0000074         0   0.77519E-02  391266.9 3751975.4    23.4     5.00     4.19
4.65     YES
 L0000075         0   0.77519E-02  391263.1 3751983.5    23.3     5.00     4.19
4.65     YES
 L0000076         0   0.77519E-02  391259.2 3751991.6    23.3     5.00     4.19
4.65     YES
 L0000077         0   0.77519E-02  391255.3 3751999.8    23.3     5.00     4.19
4.65     YES
 L0000078         0   0.77519E-02  391256.6 3752005.8    23.2     5.00     4.19
4.65     YES
 L0000079         0   0.77519E-02  391265.0 3752009.0    23.3     5.00     4.19
4.65     YES
 L0000080         0   0.77519E-02  391273.4 3752012.2    23.4     5.00     4.19
4.65     YES
↟ *** AERMOD - VERSION 21112  ***   *** C:\Users\shalterman\Desktop\HRAs\Modera
Melrose\Spane_Con_HRA\Spane_ ***        10/25/22
 *** AERMET - VERSION  16216 ***   ***
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN 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)	INIT. SZ	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0000081	0	0.77519E-02	391275.1	3752020.9	23.4	5.00	4.19	4.65	YES	
L0000082	0	0.77519E-02	391276.7	3752029.8	23.4	5.00	4.19	4.65	YES	
L0000083	0	0.77519E-02	391278.2	3752038.7	23.4	5.00	4.19	4.65	YES	
L0000084	0	0.77519E-02	391280.8	3752046.2	23.4	5.00	4.19	4.65	YES	
L0000085	0	0.77519E-02	391289.8	3752046.1	23.4	5.00	4.19	4.65	YES	
L0000086	0	0.77519E-02	391298.8	3752045.9	23.5	5.00	4.19	4.65	YES	
L0000087	0	0.77519E-02	391307.8	3752045.7	23.6	5.00	4.19	4.65	YES	
L0000088	0	0.77519E-02	391312.2	3752040.7	23.6	5.00	4.19	4.65	YES	
L0000089	0	0.77519E-02	391312.7	3752031.8	23.5	5.00	4.19	4.65	YES	
L0000090	0	0.77519E-02	391313.3	3752022.8	23.4	5.00	4.19	4.65	YES	
L0000091	0	0.77519E-02	391313.9	3752013.8	23.4	5.00	4.19	4.65	YES	
L0000092	0	0.77519E-02	391314.4	3752004.8	23.5	5.00	4.19	4.65	YES	
L0000093	0	0.77519E-02	391315.0	3751995.8	25.2	5.00	4.19	4.65	YES	
L0000094	0	0.77519E-02	391315.6	3751986.9	26.2	5.00	4.19	4.65	YES	
L0000095	0	0.77519E-02	391316.1	3751977.9	26.5	5.00	4.19	4.65	YES	
L0000096	0	0.77519E-02	391316.7	3751968.9	26.3	5.00	4.19	4.65	YES	
L0000097	0	0.77519E-02	391317.3	3751959.9	25.7	5.00	4.19			

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4.65     YES
 L0000098         0   0.77519E-02  391309.3 3751958.1    25.1     5.00     4.19
4.65     YES
 L0000099         0   0.77519E-02  391300.3 3751957.0    24.4     5.00     4.19
4.65     YES
 L0000100         0   0.77519E-02  391291.4 3751955.9    23.7     5.00     4.19
4.65     YES
 L0000101         0   0.77519E-02  391286.4 3751962.0    24.0     5.00     4.19
4.65     YES
 L0000102         0   0.77519E-02  391282.6 3751970.2    23.8     5.00     4.19
4.65     YES
 L0000103         0   0.77519E-02  391278.8 3751978.3    23.6     5.00     4.19
4.65     YES
 L0000104         0   0.77519E-02  391274.9 3751986.5    23.4     5.00     4.19
4.65     YES
 L0000105         0   0.77519E-02  391271.1 3751994.6    23.4     5.00     4.19
4.65     YES
 L0000106         0   0.77519E-02  391275.9 3751999.7    23.4     5.00     4.19
4.65     YES
 L0000107         0   0.77519E-02  391284.0 3752003.7    23.4     5.00     4.19
4.65     YES
 L0000108         0   0.77519E-02  391286.2 3752011.7    23.4     5.00     4.19
4.65     YES
 L0000109         0   0.77519E-02  391287.0 3752020.7    23.4     5.00     4.19
4.65     YES
 L0000110         0   0.77519E-02  391287.8 3752029.6    23.4     5.00     4.19
4.65     YES
 L0000111         0   0.77519E-02  391295.1 3752031.7    23.4     5.00     4.19
4.65     YES
 L0000112         0   0.77519E-02  391301.4 3752029.1    23.4     5.00     4.19
4.65     YES
 L0000113         0   0.77519E-02  391302.0 3752020.2    23.4     5.00     4.19
4.65     YES
 L0000114         0   0.77519E-02  391302.6 3752011.2    23.4     5.00     4.19
4.65     YES
 L0000115         0   0.77519E-02  391303.2 3752002.2    23.7     5.00     4.19
4.65     YES
 L0000116         0   0.77519E-02  391303.8 3751993.2    25.3     5.00     4.19
4.65     YES
 L0000117         0   0.77519E-02  391304.4 3751984.2    26.2     5.00     4.19
4.65     YES
 L0000118         0   0.77519E-02  391304.2 3751975.9    26.3     5.00     4.19
4.65     YES
 L0000119         0   0.77519E-02  391295.2 3751975.1    25.8     5.00     4.19
4.65     YES
 L0000120         0   0.77519E-02  391289.3 3751979.6    24.8     5.00     4.19
4.65     YES
↟ *** AERMOD - VERSION 21112  ***   *** C:\Users\shalterman\Desktop\HRAs\Modera
Melrose\Spane_Con_HRA\Spane_ ***        10/25/22
 *** AERMET - VERSION  16216 ***   ***
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*** 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
L0000121	0	0.77519E-02	391285.4	3751987.7	23.8	5.00	4.19	4.65	YES	
L0000122	0	0.77519E-02	391287.1	3751994.1	23.7	5.00	4.19	4.65	YES	
L0000123	0	0.77519E-02	391292.5	3752000.1	23.6	5.00	4.19	4.65	YES	
L0000124	0	0.77519E-02	391293.3	3752009.0	23.4	5.00	4.19	4.65	YES	
L0000125	0	0.77519E-02	391294.1	3752018.0	23.4	5.00	4.19	4.65	YES	
L0000126	0	0.77519E-02	391295.0	3752012.8	23.4	5.00	4.19	4.65	YES	
L0000127	0	0.77519E-02	391295.9	3752003.9	23.4	5.00	4.19	4.65	YES	
L0000128	0	0.77519E-02	391296.7	3751994.9	24.4	5.00	4.19	4.65	YES	
L0000129	0	0.77519E-02	391297.6	3751986.0	25.6	5.00	4.19	4.65	YES	

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs

```
  ALL        L0000001    , L0000002    , L0000003    , L0000004    , L0000005    ,
L0000006    , L0000007    , L0000008    ,

             L0000009    , L0000010    , L0000011    , L0000012    , L0000013    ,
L0000014    , L0000015    , L0000016    ,

             L0000017    , L0000018    , L0000019    , L0000020    , L0000021    ,
L0000022    , L0000023    , L0000024    ,

             L0000025    , L0000026    , L0000027    , L0000028    , L0000029    ,
L0000030    , L0000031    , L0000032    ,

             L0000033    , L0000034    , L0000035    , L0000036    , L0000037    ,
L0000038    , L0000039    , L0000040    ,

             L0000041    , L0000042    , L0000043    , L0000044    , L0000045    ,
L0000046    , L0000047    , L0000048    ,

             L0000049    , L0000050    , L0000051    , L0000052    , L0000053    ,
L0000054    , L0000055    , L0000056    ,

             L0000057    , L0000058    , L0000059    , L0000060    , L0000061    ,
L0000062    , L0000063    , L0000064    ,

             L0000065    , L0000066    , L0000067    , L0000068    , L0000069    ,
L0000070    , L0000071    , L0000072    ,

             L0000073    , L0000074    , L0000075    , L0000076    , L0000077    ,
L0000078    , L0000079    , L0000080    ,

             L0000081    , L0000082    , L0000083    , L0000084    , L0000085    ,
L0000086    , L0000087    , L0000088    ,

             L0000089    , L0000090    , L0000091    , L0000092    , L0000093    ,
L0000094    , L0000095    , L0000096    ,

             L0000097    , L0000098    , L0000099    , L0000100    , L0000101    ,
L0000102    , L0000103    , L0000104    ,

             L0000105    , L0000106    , L0000107    , L0000108    , L0000109    ,
L0000110    , L0000111    , L0000112    ,

             L0000113    , L0000114    , L0000115    , L0000116    , L0000117    ,
L0000118    , L0000119    , L0000120    ,

             L0000121    , L0000122    , L0000123    , L0000124    , L0000125    ,
L0000126    , L0000127    , L0000128    ,

             L0000129    ,
↟ *** AERMOD - VERSION 21112  ***   *** C:\Users\shalterman\Desktop\HRAs\Modera
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                        *** SOURCE IDs DEFINED AS URBAN SOURCES
***

  URBAN ID   URBAN POP   SOURCE IDs
  --------   ---------   ----------

              9818605.   L0000001   , L0000002   , L0000003   , L0000004   ,
L0000005   , L0000006   , L0000007   ,
 L0000008   ,

              L0000009   , L0000010   , L0000011   , L0000012   , L0000013   ,
L0000014   , L0000015   , L0000016   ,

              L0000017   , L0000018   , L0000019   , L0000020   , L0000021   ,
L0000022   , L0000023   , L0000024   ,

              L0000025   , L0000026   , L0000027   , L0000028   , L0000029   ,
L0000030   , L0000031   , L0000032   ,

              L0000033   , L0000034   , L0000035   , L0000036   , L0000037   ,
L0000038   , L0000039   , L0000040   ,

              L0000041   , L0000042   , L0000043   , L0000044   , L0000045   ,
L0000046   , L0000047   , L0000048   ,

              L0000049   , L0000050   , L0000051   , L0000052   , L0000053   ,
L0000054   , L0000055   , L0000056   ,

              L0000057   , L0000058   , L0000059   , L0000060   , L0000061   ,
L0000062   , L0000063   , L0000064   ,

              L0000065   , L0000066   , L0000067   , L0000068   , L0000069   ,
L0000070   , L0000071   , L0000072   ,

              L0000073   , L0000074   , L0000075   , L0000076   , L0000077   ,
L0000078   , L0000079   , L0000080   ,

              L0000081   , L0000082   , L0000083   , L0000084   , L0000085   ,
L0000086   , L0000087   , L0000088   ,

              L0000089   , L0000090   , L0000091   , L0000092   , L0000093   ,

L0000094   , L0000095   , L0000096   ,

             L0000097   , L0000098   , L0000099   , L0000100   , L0000101   ,
L0000102   , L0000103   , L0000104   ,

             L0000105   , L0000106   , L0000107   , L0000108   , L0000109   ,
L0000110   , L0000111   , L0000112   ,

             L0000113   , L0000114   , L0000115   , L0000116   , L0000117   ,
L0000118   , L0000119   , L0000120   ,

             L0000121   , L0000122   , L0000123   , L0000124   , L0000125   ,
L0000126   , L0000127   , L0000128   ,

             L0000129   ,

                                          *** DISCRETE CARTESIAN RECEPTORS ***
                                        (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                    (METERS)

     (390780.0, 3751525.0,   21.9,   21.9,   0.0);   (390830.0,
3751525.0,   22.3,   22.3,   0.0);
     (390880.0, 3751525.0,   22.7,   22.7,   0.0);   (390930.0,
3751525.0,   22.0,   22.0,   0.0);
     (390980.0, 3751525.0,   22.2,   22.2,   0.0);   (391030.0,
3751525.0,   22.3,   22.3,   0.0);
     (391080.0, 3751525.0,   22.4,   22.4,   0.0);   (391130.0,
3751525.0,   22.1,   22.1,   0.0);
     (391180.0, 3751525.0,   22.3,   22.3,   0.0);   (391230.0,
3751525.0,   22.2,   22.2,   0.0);
     (391280.0, 3751525.0,   22.2,   22.2,   0.0);   (391330.0,
3751525.0,   21.9,   21.9,   0.0);
     (391380.0, 3751525.0,   22.2,   22.2,   0.0);   (391430.0,
3751525.0,   22.3,   22.3,   0.0);
     (391480.0, 3751525.0,   22.6,   22.6,   0.0);   (391530.0,
3751525.0,   22.1,   22.1,   0.0);
     (391580.0, 3751525.0,   22.2,   22.2,   0.0);   (391630.0,
3751525.0,   22.3,   22.3,   0.0);
     (391680.0, 3751525.0,   22.6,   22.6,   0.0);   (391730.0,
3751525.0,   22.3,   22.3,   0.0);
     (391780.0, 3751525.0,   22.2,   22.2,   0.0);   (390780.0,
3751575.0,   22.0,   22.0,   0.0);
     (390830.0, 3751575.0,   22.2,   22.2,   0.0);   (390880.0,

3751575.0,	22.4,	22.4,	0.0);
(390930.0, 3751575.0,	22.1,	22.1,	0.0);	(390980.0, 3751575.0,	22.2,	22.2,	0.0);
(391030.0, 3751575.0,	22.3,	22.3,	0.0);	(391080.0, 3751575.0,	22.2,	22.2,	0.0);
(391130.0, 3751575.0,	22.1,	22.1,	0.0);	(391180.0, 3751575.0,	22.4,	22.4,	0.0);
(391230.0, 3751575.0,	22.3,	22.3,	0.0);	(391280.0, 3751575.0,	22.2,	22.2,	0.0);
(391330.0, 3751575.0,	22.0,	22.0,	0.0);	(391380.0, 3751575.0,	22.4,	22.4,	0.0);
(391430.0, 3751575.0,	22.4,	22.4,	0.0);	(391480.0, 3751575.0,	22.3,	22.3,	0.0);
(391530.0, 3751575.0,	22.0,	22.0,	0.0);	(391580.0, 3751575.0,	21.9,	21.9,	0.0);
(391630.0, 3751575.0,	23.0,	23.0,	0.0);	(391680.0, 3751575.0,	22.9,	22.9,	0.0);
(391730.0, 3751575.0,	22.2,	22.2,	0.0);	(391780.0, 3751575.0,	22.3,	22.3,	0.0);
(390780.0, 3751625.0,	21.9,	21.9,	0.0);	(390830.0, 3751625.0,	22.0,	22.0,	0.0);
(390880.0, 3751625.0,	22.5,	22.5,	0.0);	(390930.0, 3751625.0,	22.1,	22.1,	0.0);
(390980.0, 3751625.0,	22.4,	22.4,	0.0);	(391030.0, 3751625.0,	22.4,	22.4,	0.0);
(391080.0, 3751625.0,	22.4,	22.4,	0.0);	(391130.0, 3751625.0,	22.2,	22.2,	0.0);
(391180.0, 3751625.0,	22.3,	22.3,	0.0);	(391230.0, 3751625.0,	22.3,	22.3,	0.0);
(391280.0, 3751625.0,	22.2,	22.2,	0.0);	(391330.0, 3751625.0,	22.2,	22.2,	0.0);
(391380.0, 3751625.0,	22.4,	22.4,	0.0);	(391430.0, 3751625.0,	22.4,	22.4,	0.0);
(391480.0, 3751625.0,	22.5,	22.5,	0.0);	(391530.0, 3751625.0,	22.1,	22.1,	0.0);
(391580.0, 3751625.0,	22.0,	22.0,	0.0);	(391630.0, 3751625.0,	22.0,	22.0,	0.0);
(391680.0, 3751625.0,	22.5,	22.5,	0.0);	(391730.0, 3751625.0,	22.5,	22.5,	0.0);
(391780.0, 3751625.0,	22.4,	22.4,	0.0);	(390780.0, 3751675.0,	22.0,	22.0,	0.0);
(390830.0, 3751675.0,	22.2,	22.2,	0.0);	(390880.0, 3751675.0,	22.4,	22.4,	0.0);
(390930.0, 3751675.0,	22.2,	22.2,	0.0);	(390980.0, 3751675.0,	22.4,	22.4,	0.0);
(391030.0, 3751675.0,	22.4,	22.4,	0.0);	(391080.0, 3751675.0,	22.5,	22.5,	0.0);
(391130.0, 3751675.0,	22.2,	22.2,	0.0);	(391180.0, 3751675.0,	22.4,	22.4,	0.0);
(391230.0, 3751675.0,	22.3,	22.3,	0.0);	(391280.0,

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     (391430.0, 3751675.0,   22.5,   22.5,   0.0);   (391480.0,
3751675.0,   22.3,   22.3,   0.0);
     (391530.0, 3751675.0,   22.2,   22.2,   0.0);   (391580.0,
3751675.0,   22.2,   22.2,   0.0);
     (391630.0, 3751675.0,   22.2,   22.2,   0.0);   (391680.0,
3751675.0,   22.3,   22.3,   0.0);
     (391730.0, 3751675.0,   22.3,   22.3,   0.0);   (391780.0,
3751675.0,   22.3,   22.3,   0.0);
     (390780.0, 3751725.0,   22.1,   22.1,   0.0);   (390830.0,
3751725.0,   22.1,   22.1,   0.0);
     (390880.0, 3751725.0,   22.3,   22.3,   0.0);   (390930.0,
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     (390980.0, 3751725.0,   22.6,   22.6,   0.0);   (391030.0,
3751725.0,   22.5,   22.5,   0.0);

                                          *** DISCRETE CARTESIAN RECEPTORS ***
                                       (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                (METERS)

     (391080.0, 3751725.0,   22.5,   22.5,   0.0);   (391130.0,
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     (391180.0, 3751725.0,   22.7,   22.7,   0.0);   (391230.0,
3751725.0,   22.5,   22.5,   0.0);
     (391280.0, 3751725.0,   22.6,   22.6,   0.0);   (391330.0,
3751725.0,   22.6,   22.6,   0.0);
     (391380.0, 3751725.0,   22.9,   22.9,   0.0);   (391430.0,
3751725.0,   22.7,   22.7,   0.0);
     (391530.0, 3751725.0,   22.3,   22.3,   0.0);   (391580.0,
3751725.0,   22.4,   22.4,   0.0);
     (391630.0, 3751725.0,   22.3,   22.3,   0.0);   (391680.0,
3751725.0,   22.3,   22.3,   0.0);
     (391730.0, 3751725.0,   22.4,   22.4,   0.0);   (391780.0,
3751725.0,   22.4,   22.4,   0.0);
     (390780.0, 3751775.0,   22.2,   22.2,   0.0);   (390830.0,
3751775.0,   22.1,   22.1,   0.0);
     (390880.0, 3751775.0,   22.3,   22.3,   0.0);   (390930.0,
3751775.0,   22.1,   22.1,   0.0);
     (390980.0, 3751775.0,   22.6,   22.6,   0.0);   (391030.0,
3751775.0,   22.7,   22.7,   0.0);
     (391080.0, 3751775.0,   22.7,   22.7,   0.0);   (391130.0,

3751775.0,	22.4,	22.4,	0.0);
(391180.0, 3751775.0,	22.7,	22.7,	0.0);	(391230.0,
3751775.0,	22.6,	22.6,	0.0);
(391280.0, 3751775.0,	22.5,	22.5,	0.0);	(391330.0,
3751775.0,	22.7,	22.7,	0.0);
(391380.0, 3751775.0,	22.9,	22.9,	0.0);	(391430.0,
3751775.0,	22.6,	22.6,	0.0);
(391580.0, 3751775.0,	22.5,	22.5,	0.0);	(391630.0,
3751775.0,	22.4,	22.4,	0.0);
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(391780.0, 3751775.0,	22.3,	22.3,	0.0);	(390780.0,
3751825.0,	22.1,	22.1,	0.0);
(390830.0, 3751825.0,	22.1,	22.1,	0.0);	(390880.0,
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(390930.0, 3751825.0,	22.0,	22.0,	0.0);	(390980.0,
3751825.0,	22.4,	22.4,	0.0);
(391030.0, 3751825.0,	22.4,	22.4,	0.0);	(391080.0,
3751825.0,	22.7,	22.7,	0.0);
(391180.0, 3751825.0,	22.6,	22.6,	0.0);	(391230.0,
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(391280.0, 3751825.0,	22.8,	22.8,	0.0);	(391330.0,
3751825.0,	22.9,	22.9,	0.0);
(391380.0, 3751825.0,	22.9,	22.9,	0.0);	(391580.0,
3751825.0,	22.7,	22.7,	0.0);
(391630.0, 3751825.0,	22.7,	22.7,	0.0);	(391680.0,
3751825.0,	22.4,	22.4,	0.0);
(391730.0, 3751825.0,	22.6,	22.6,	0.0);	(391780.0,
3751825.0,	22.7,	22.7,	0.0);
(390780.0, 3751875.0,	22.5,	22.5,	0.0);	(390830.0,
3751875.0,	22.2,	22.2,	0.0);
(390880.0, 3751875.0,	22.4,	22.4,	0.0);	(390930.0,
3751875.0,	22.0,	22.0,	0.0);
(390980.0, 3751875.0,	22.8,	22.8,	0.0);	(391030.0,
3751875.0,	23.0,	23.0,	0.0);
(391080.0, 3751875.0,	22.9,	22.9,	0.0);	(391180.0,
3751875.0,	22.9,	22.9,	0.0);
(391230.0, 3751875.0,	22.7,	22.7,	0.0);	(391330.0,
3751875.0,	22.7,	22.7,	0.0);
(391380.0, 3751875.0,	22.7,	22.7,	0.0);	(391430.0,
3751875.0,	22.7,	22.7,	0.0);
(391580.0, 3751875.0,	22.6,	22.6,	0.0);	(391630.0,
3751875.0,	22.6,	22.6,	0.0);
(391680.0, 3751875.0,	22.5,	22.5,	0.0);	(391730.0,
3751875.0,	22.6,	22.6,	0.0);
(391780.0, 3751875.0,	22.6,	22.6,	0.0);	(390780.0,
3751925.0,	21.8,	21.8,	0.0);
(390830.0, 3751925.0,	21.9,	21.9,	0.0);	(390880.0,
3751925.0,	21.9,	21.9,	0.0);
(390930.0, 3751925.0,	22.0,	22.0,	0.0);	(390980.0,

3751925.0,   22.1,   22.1,   0.0);
     (391080.0, 3751925.0,   22.4,   22.4,   0.0);   (391380.0,
3751925.0,   22.8,   22.8,   0.0);
     (391580.0, 3751925.0,   22.6,   22.6,   0.0);   (391630.0,
3751925.0,   22.1,   22.1,   0.0);
     (391680.0, 3751925.0,   23.0,   23.0,   0.0);   (391730.0,
3751925.0,   22.7,   22.7,   0.0);
     (391780.0, 3751925.0,   22.6,   22.6,   0.0);   (390780.0,
3751975.0,   21.7,   21.7,   0.0);
     (390830.0, 3751975.0,   21.9,   21.9,   0.0);   (390880.0,
3751975.0,   22.1,   22.1,   0.0);
     (390930.0, 3751975.0,   21.9,   21.9,   0.0);   (390980.0,
3751975.0,   22.8,   22.8,   0.0);
     (391030.0, 3751975.0,   23.0,   23.0,   0.0);   (391080.0,
3751975.0,   23.1,   23.1,   0.0);
     (391180.0, 3751975.0,   23.2,   23.2,   0.0);   (391580.0,
3751975.0,   23.2,   23.2,   0.0);
     (391630.0, 3751975.0,   22.1,   22.1,   0.0);   (391680.0,
3751975.0,   23.2,   23.2,   0.0);

                                          *** DISCRETE CARTESIAN RECEPTORS ***
                                       (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                  (METERS)

     (391730.0, 3751975.0,   22.9,   22.9,   0.0);   (391780.0,
3751975.0,   22.8,   22.8,   0.0);
     (390780.0, 3752025.0,   21.4,   29.3,   0.0);   (390830.0,
3752025.0,   21.6,   29.2,   0.0);
     (390880.0, 3752025.0,   21.9,   21.9,   0.0);   (390930.0,
3752025.0,   21.8,   21.8,   0.0);
     (390980.0, 3752025.0,   22.5,   22.5,   0.0);   (391030.0,
3752025.0,   22.9,   22.9,   0.0);
     (391080.0, 3752025.0,   22.9,   22.9,   0.0);   (391180.0,
3752025.0,   23.2,   23.2,   0.0);
     (391530.0, 3752025.0,   22.8,   22.8,   0.0);   (391580.0,
3752025.0,   23.3,   23.3,   0.0);
     (391630.0, 3752025.0,   23.2,   23.2,   0.0);   (391680.0,
3752025.0,   23.3,   23.3,   0.0);
     (391730.0, 3752025.0,   23.0,   23.0,   0.0);   (391780.0,
3752025.0,   22.5,   22.5,   0.0);
     (390780.0, 3752075.0,   28.7,   28.7,   0.0);   (390830.0,
3752075.0,   23.0,   29.3,   0.0);
     (390880.0, 3752075.0,   22.5,   27.8,   0.0);   (390930.0,

3752075.0,   21.7,   26.0,   0.0);
     (390980.0, 3752075.0,   22.4,   22.4,   0.0);   (391030.0,
3752075.0,   22.6,   22.6,   0.0);
     (391580.0, 3752075.0,   22.9,   22.9,   0.0);   (391630.0,
3752075.0,   23.0,   23.0,   0.0);
     (391680.0, 3752075.0,   23.1,   23.1,   0.0);   (391730.0,
3752075.0,   23.0,   23.0,   0.0);
     (391780.0, 3752075.0,   22.9,   22.9,   0.0);   (390780.0,
3752125.0,   21.2,   29.3,   0.0);
     (390830.0, 3752125.0,   26.1,   28.7,   0.0);   (390880.0,
3752125.0,   24.2,   27.1,   0.0);
     (390930.0, 3752125.0,   23.2,   25.2,   0.0);   (390980.0,
3752125.0,   22.4,   22.4,   0.0);
     (391030.0, 3752125.0,   22.4,   22.4,   0.0);   (391230.0,
3752125.0,   23.2,   23.2,   0.0);
     (391280.0, 3752125.0,   23.1,   23.1,   0.0);   (391330.0,
3752125.0,   23.1,   23.1,   0.0);
     (391380.0, 3752125.0,   22.9,   22.9,   0.0);   (391430.0,
3752125.0,   23.2,   23.2,   0.0);
     (391530.0, 3752125.0,   23.1,   23.1,   0.0);   (391580.0,
3752125.0,   22.9,   22.9,   0.0);
     (391630.0, 3752125.0,   23.3,   23.3,   0.0);   (391680.0,
3752125.0,   23.3,   31.8,   0.0);
     (391730.0, 3752125.0,   23.0,   31.8,   0.0);   (391780.0,
3752125.0,   23.2,   30.5,   0.0);
     (390780.0, 3752175.0,   19.6,   29.3,   0.0);   (390830.0,
3752175.0,   23.8,   28.6,   0.0);
     (390880.0, 3752175.0,   22.3,   28.6,   0.0);   (390930.0,
3752175.0,   22.8,   22.8,   0.0);
     (390980.0, 3752175.0,   22.7,   22.7,   0.0);   (391030.0,
3752175.0,   23.0,   23.0,   0.0);
     (391280.0, 3752175.0,   23.4,   23.4,   0.0);   (391330.0,
3752175.0,   23.0,   23.0,   0.0);
     (391380.0, 3752175.0,   22.9,   22.9,   0.0);   (391430.0,
3752175.0,   23.1,   23.1,   0.0);
     (391530.0, 3752175.0,   23.5,   23.5,   0.0);   (391580.0,
3752175.0,   23.4,   23.4,   0.0);
     (391630.0, 3752175.0,   23.3,   31.8,   0.0);   (391680.0,
3752175.0,   25.6,   31.8,   0.0);
     (391730.0, 3752175.0,   23.4,   31.8,   0.0);   (391780.0,
3752175.0,   23.4,   31.8,   0.0);
     (390780.0, 3752225.0,   19.6,   28.7,   0.0);   (390830.0,
3752225.0,   19.7,   28.7,   0.0);
     (390880.0, 3752225.0,   27.9,   28.6,   0.0);   (390930.0,
3752225.0,   22.9,   28.7,   0.0);
     (390980.0, 3752225.0,   22.5,   22.5,   0.0);   (391030.0,
3752225.0,   23.1,   23.1,   0.0);
     (391280.0, 3752225.0,   23.1,   23.1,   0.0);   (391330.0,
3752225.0,   22.6,   22.6,   0.0);
     (391380.0, 3752225.0,   22.5,   22.5,   0.0);   (391430.0,

3752225.0,   23.1,   23.1,   0.0);
     (391530.0, 3752225.0,   23.8,   23.8,   0.0);   (391580.0,
3752225.0,   23.7,   23.7,   0.0);
     (391630.0, 3752225.0,   23.4,   31.8,   0.0);   (391680.0,
3752225.0,   25.3,   31.8,   0.0);
     (391730.0, 3752225.0,   23.4,   31.8,   0.0);   (391780.0,
3752225.0,   23.3,   30.5,   0.0);
     (390780.0, 3752275.0,   20.0,   28.7,   0.0);   (390830.0,
3752275.0,   19.8,   28.7,   0.0);
     (390880.0, 3752275.0,   19.8,   28.7,   0.0);   (390930.0,
3752275.0,   23.0,   28.7,   0.0);
     (390980.0, 3752275.0,   22.7,   22.7,   0.0);   (391030.0,
3752275.0,   23.2,   23.2,   0.0);
     (391080.0, 3752275.0,   23.4,   23.4,   0.0);   (391130.0,
3752275.0,   23.5,   23.5,   0.0);
     (391180.0, 3752275.0,   23.6,   23.6,   0.0);   (391230.0,
3752275.0,   23.5,   23.5,   0.0);
     (391280.0, 3752275.0,   23.4,   23.4,   0.0);   (391330.0,
3752275.0,   23.2,   23.2,   0.0);
     (391380.0, 3752275.0,   22.7,   22.7,   0.0);   (391430.0,
3752275.0,   23.2,   23.2,   0.0);

                                          *** DISCRETE CARTESIAN RECEPTORS ***
                                      (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                (METERS)

     (391480.0, 3752275.0,   23.5,   23.5,   0.0);   (391530.0,
3752275.0,   24.0,   24.0,   0.0);
     (391580.0, 3752275.0,   24.0,   24.0,   0.0);   (391630.0,
3752275.0,   23.4,   23.4,   0.0);
     (391680.0, 3752275.0,   24.0,   24.0,   0.0);   (391730.0,
3752275.0,   23.4,   23.4,   0.0);
     (391780.0, 3752275.0,   23.3,   23.3,   0.0);   (390780.0,
3752325.0,   28.0,   28.7,   0.0);
     (390830.0, 3752325.0,   19.8,   28.8,   0.0);   (390880.0,
3752325.0,   19.9,   28.8,   0.0);
     (390930.0, 3752325.0,   25.7,   28.4,   0.0);   (390980.0,
3752325.0,   23.0,   27.7,   0.0);
     (391030.0, 3752325.0,   22.8,   22.8,   0.0);   (391080.0,
3752325.0,   23.6,   23.6,   0.0);
     (391130.0, 3752325.0,   23.8,   23.8,   0.0);   (391180.0,
3752325.0,   23.7,   23.7,   0.0);
     (391230.0, 3752325.0,   23.6,   23.6,   0.0);   (391280.0,

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3752325.0,      23.5,      23.5,       0.0);
     ( 391330.0, 3752325.0,      23.2,      23.2,       0.0);         ( 391380.0,
3752325.0,      23.1,      23.1,       0.0);
     ( 391430.0, 3752325.0,      23.4,      23.4,       0.0);         ( 391480.0,
3752325.0,      23.7,      23.7,       0.0);
     ( 391530.0, 3752325.0,      24.2,      24.2,       0.0);         ( 391580.0,
3752325.0,      24.4,      24.4,       0.0);
     ( 391630.0, 3752325.0,      24.6,      24.6,       0.0);         ( 391680.0,
3752325.0,      23.8,      23.8,       0.0);
     ( 391730.0, 3752325.0,      23.4,      23.4,       0.0);         ( 391780.0,
3752325.0,      23.2,      23.2,       0.0);
     ( 390780.0, 3752375.0,      20.6,      28.8,       0.0);         ( 390830.0,
3752375.0,      23.0,      28.8,       0.0);
     ( 390880.0, 3752375.0,      19.9,      28.8,       0.0);         ( 390930.0,
3752375.0,      20.0,      28.6,       0.0);
     ( 390980.0, 3752375.0,      22.5,      27.5,       0.0);         ( 391030.0,
3752375.0,      23.3,      23.3,       0.0);
     ( 391080.0, 3752375.0,      23.2,      23.2,       0.0);         ( 391130.0,
3752375.0,      23.4,      23.4,       0.0);
     ( 391180.0, 3752375.0,      23.6,      23.6,       0.0);         ( 391230.0,
3752375.0,      24.0,      24.0,       0.0);
     ( 391280.0, 3752375.0,      24.2,      24.2,       0.0);         ( 391330.0,
3752375.0,      23.3,      23.3,       0.0);
     ( 391380.0, 3752375.0,      23.1,      23.1,       0.0);         ( 391430.0,
3752375.0,      23.4,      23.4,       0.0);
     ( 391480.0, 3752375.0,      23.7,      23.7,       0.0);         ( 391530.0,
3752375.0,      24.1,      24.1,       0.0);
     ( 391580.0, 3752375.0,      24.1,      24.1,       0.0);         ( 391630.0,
3752375.0,      24.1,      24.1,       0.0);
     ( 391680.0, 3752375.0,      23.9,      23.9,       0.0);         ( 391730.0,
3752375.0,      23.8,      23.8,       0.0);
     ( 391780.0, 3752375.0,      23.3,      23.3,       0.0);         ( 390780.0,
3752425.0,      20.4,      28.8,       0.0);
     ( 390830.0, 3752425.0,      26.9,      28.8,       0.0);         ( 390880.0,
3752425.0,      20.0,      28.8,       0.0);
     ( 390930.0, 3752425.0,      20.1,      28.7,       0.0);         ( 390980.0,
3752425.0,      27.4,      27.4,       0.0);
     ( 391030.0, 3752425.0,      23.3,      23.3,       0.0);         ( 391080.0,
3752425.0,      23.2,      23.2,       0.0);
     ( 391130.0, 3752425.0,      23.7,      23.7,       0.0);         ( 391180.0,
3752425.0,      23.8,      23.8,       0.0);
     ( 391230.0, 3752425.0,      24.1,      24.1,       0.0);         ( 391280.0,
3752425.0,      24.1,      24.1,       0.0);
     ( 391330.0, 3752425.0,      23.3,      23.3,       0.0);         ( 391380.0,
3752425.0,      23.2,      23.2,       0.0);
     ( 391430.0, 3752425.0,      23.3,      23.3,       0.0);         ( 391480.0,
3752425.0,      23.7,      23.7,       0.0);
     ( 391530.0, 3752425.0,      24.0,      24.0,       0.0);         ( 391580.0,
3752425.0,      24.3,      24.3,       0.0);
     ( 391630.0, 3752425.0,      24.1,      24.1,       0.0);         ( 391680.0,
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3752425.0,   24.1,   24.1,   0.0);
     (391730.0, 3752425.0,   24.1,   24.1,   0.0);   (391780.0,
3752425.0,   24.0,   24.0,   0.0);
     (390780.0, 3752475.0,   25.0,   27.4,   0.0);   (390830.0,
3752475.0,   21.4,   28.8,   0.0);
     (390880.0, 3752475.0,   21.1,   28.8,   0.0);   (390930.0,
3752475.0,   20.1,   28.8,   0.0);
     (390980.0, 3752475.0,   21.3,   27.5,   0.0);   (391030.0,
3752475.0,   23.1,   27.5,   0.0);
     (391080.0, 3752475.0,   23.4,   23.4,   0.0);   (391130.0,
3752475.0,   23.6,   23.6,   0.0);
     (391180.0, 3752475.0,   24.1,   24.1,   0.0);   (391230.0,
3752475.0,   23.9,   23.9,   0.0);
     (391280.0, 3752475.0,   24.2,   24.2,   0.0);   (391330.0,
3752475.0,   23.5,   23.5,   0.0);
     (391380.0, 3752475.0,   23.4,   23.4,   0.0);   (391430.0,
3752475.0,   23.4,   23.4,   0.0);
     (391480.0, 3752475.0,   23.8,   23.8,   0.0);   (391530.0,
3752475.0,   24.0,   24.0,   0.0);
     (391580.0, 3752475.0,   23.8,   23.8,   0.0);   (391630.0,
3752475.0,   23.7,   23.7,   0.0);
     (391680.0, 3752475.0,   23.9,   23.9,   0.0);   (391730.0,
3752475.0,   23.6,   23.6,   0.0);

                                          *** DISCRETE CARTESIAN RECEPTORS ***
                                       (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                (METERS)

     (391780.0, 3752475.0,   23.5,   23.5,   0.0);   (390780.0,
3752525.0,   27.4,   27.4,   0.0);
     (390830.0, 3752525.0,   25.7,   25.7,   0.0);   (390880.0,
3752525.0,   27.4,   28.7,   0.0);
     (390930.0, 3752525.0,   20.2,   28.8,   0.0);   (390980.0,
3752525.0,   20.2,   27.5,   0.0);
     (391030.0, 3752525.0,   22.5,   27.5,   0.0);   (391080.0,
3752525.0,   23.1,   23.1,   0.0);
     (391130.0, 3752525.0,   23.4,   23.4,   0.0);   (391180.0,
3752525.0,   23.6,   23.6,   0.0);
     (391230.0, 3752525.0,   23.8,   23.8,   0.0);   (391280.0,
3752525.0,   24.2,   24.2,   0.0);
     (391330.0, 3752525.0,   23.6,   23.6,   0.0);   (391380.0,
3752525.0,   23.4,   23.4,   0.0);
     (391430.0, 3752525.0,   23.6,   23.6,   0.0);   (391480.0,

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3752525.0,      23.7,      23.7,       0.0);
     ( 391530.0, 3752525.0,      23.9,      23.9,       0.0);         ( 391580.0,
3752525.0,      23.8,      23.8,       0.0);
     ( 391630.0, 3752525.0,      23.8,      23.8,       0.0);         ( 391680.0,
3752525.0,      23.7,      23.7,       0.0);
     ( 391730.0, 3752525.0,      23.7,      23.7,       0.0);         ( 391780.0,
3752525.0,      23.5,      23.5,       0.0);
     ( 391075.0, 3751820.0,      22.8,      22.8,       0.0);         ( 391085.0,
3751820.0,      22.9,      22.9,       0.0);
     ( 391095.0, 3751820.0,      22.8,      22.8,       0.0);         ( 391105.0,
3751820.0,      22.9,      22.9,       0.0);
     ( 391115.0, 3751820.0,      22.7,      22.7,       0.0);         ( 391135.0,
3751820.0,      22.4,      22.4,       0.0);
     ( 391145.0, 3751820.0,      22.9,      22.9,       0.0);         ( 391155.0,
3751820.0,      22.9,      22.9,       0.0);
     ( 391165.0, 3751820.0,      22.8,      22.8,       0.0);         ( 391175.0,
3751820.0,      22.8,      22.8,       0.0);
     ( 391185.0, 3751820.0,      22.7,      22.7,       0.0);         ( 391195.0,
3751820.0,      22.6,      22.6,       0.0);
     ( 391205.0, 3751820.0,      22.7,      22.7,       0.0);         ( 391215.0,
3751820.0,      22.7,      22.7,       0.0);
     ( 391225.0, 3751820.0,      22.6,      22.6,       0.0);         ( 391235.0,
3751820.0,      22.7,      22.7,       0.0);
     ( 391245.0, 3751820.0,      22.7,      22.7,       0.0);         ( 391255.0,
3751820.0,      22.7,      22.7,       0.0);
     ( 391265.0, 3751820.0,      22.7,      22.7,       0.0);         ( 391275.0,
3751820.0,      22.8,      22.8,       0.0);
     ( 391285.0, 3751820.0,      22.9,      22.9,       0.0);         ( 391315.0,
3751820.0,      22.9,      22.9,       0.0);
     ( 391325.0, 3751820.0,      23.0,      23.0,       0.0);         ( 391335.0,
3751820.0,      23.0,      23.0,       0.0);
     ( 391345.0, 3751820.0,      22.9,      22.9,       0.0);         ( 391355.0,
3751820.0,      22.9,      22.9,       0.0);
     ( 391365.0, 3751820.0,      22.9,      22.9,       0.0);         ( 391375.0,
3751820.0,      22.9,      22.9,       0.0);
     ( 391385.0, 3751820.0,      22.9,      22.9,       0.0);         ( 391395.0,
3751820.0,      23.1,      23.1,       0.0);
     ( 391405.0, 3751820.0,      23.1,      23.1,       0.0);         ( 391415.0,
3751820.0,      22.9,      22.9,       0.0);
     ( 391425.0, 3751820.0,      22.6,      22.6,       0.0);         ( 391305.0,
3751830.0,      22.8,      22.8,       0.0);
     ( 391315.0, 3751830.0,      22.9,      22.9,       0.0);         ( 391325.0,
3751830.0,      22.9,      22.9,       0.0);
     ( 391335.0, 3751830.0,      22.9,      22.9,       0.0);         ( 391345.0,
3751830.0,      22.8,      22.8,       0.0);
     ( 391355.0, 3751830.0,      22.8,      22.8,       0.0);         ( 391365.0,
3751830.0,      22.8,      22.8,       0.0);
     ( 391375.0, 3751830.0,      22.9,      22.9,       0.0);         ( 391385.0,
3751830.0,      22.9,      22.9,       0.0);
     ( 391395.0, 3751830.0,      23.0,      23.0,       0.0);         ( 391405.0,
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3751830.0,   23.1,   23.1,   0.0);
     (391415.0, 3751830.0,   22.9,   22.9,   0.0);   (391425.0,
3751830.0,   22.6,   22.6,   0.0);
     (391075.0, 3751840.0,   22.7,   22.7,   0.0);   (391085.0,
3751840.0,   22.8,   22.8,   0.0);
     (391095.0, 3751840.0,   22.7,   22.7,   0.0);   (391105.0,
3751840.0,   22.7,   22.7,   0.0);
     (391115.0, 3751840.0,   22.6,   22.6,   0.0);   (391135.0,
3751840.0,   22.5,   22.5,   0.0);
     (391145.0, 3751840.0,   22.9,   22.9,   0.0);   (391155.0,
3751840.0,   22.8,   22.8,   0.0);
     (391165.0, 3751840.0,   22.9,   22.9,   0.0);   (391175.0,
3751840.0,   22.9,   22.9,   0.0);
     (391185.0, 3751840.0,   22.7,   22.7,   0.0);   (391195.0,
3751840.0,   22.7,   22.7,   0.0);
     (391205.0, 3751840.0,   22.7,   22.7,   0.0);   (391215.0,
3751840.0,   22.6,   22.6,   0.0);
     (391225.0, 3751840.0,   22.6,   22.6,   0.0);   (391235.0,
3751840.0,   22.6,   22.6,   0.0);
     (391245.0, 3751840.0,   22.6,   22.6,   0.0);   (391255.0,
3751840.0,   22.6,   22.6,   0.0);
     (391265.0, 3751840.0,   22.7,   22.7,   0.0);   (391275.0,
3751840.0,   22.7,   22.7,   0.0);
     (391305.0, 3751840.0,   22.8,   22.8,   0.0);   (391315.0,
3751840.0,   22.9,   22.9,   0.0);

                                          *** DISCRETE CARTESIAN RECEPTORS ***
                                        (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                  (METERS)

     (391325.0, 3751840.0,   22.8,   22.8,   0.0);   (391335.0,
3751840.0,   22.8,   22.8,   0.0);
     (391345.0, 3751840.0,   22.8,   22.8,   0.0);   (391355.0,
3751840.0,   22.8,   22.8,   0.0);
     (391365.0, 3751840.0,   22.8,   22.8,   0.0);   (391375.0,
3751840.0,   22.8,   22.8,   0.0);
     (391385.0, 3751840.0,   22.8,   22.8,   0.0);   (391395.0,
3751840.0,   22.8,   22.8,   0.0);
     (391405.0, 3751840.0,   22.9,   22.9,   0.0);   (391415.0,
3751840.0,   22.9,   22.9,   0.0);
     (391425.0, 3751840.0,   22.7,   22.7,   0.0);   (391075.0,
3751850.0,   22.8,   22.8,   0.0);
     (391085.0, 3751850.0,   22.9,   22.9,   0.0);   (391095.0,

3751850.0,   22.9,   22.9,   0.0);
     (391105.0, 3751850.0,   22.9,   22.9,   0.0);   (391115.0,
3751850.0,   22.8,   22.8,   0.0);
     (391135.0, 3751850.0,   22.5,   22.5,   0.0);   (391145.0,
3751850.0,   23.0,   23.0,   0.0);
     (391155.0, 3751850.0,   22.9,   22.9,   0.0);   (391165.0,
3751850.0,   23.0,   23.0,   0.0);
     (391175.0, 3751850.0,   23.0,   23.0,   0.0);   (391185.0,
3751850.0,   22.9,   22.9,   0.0);
     (391195.0, 3751850.0,   22.8,   22.8,   0.0);   (391205.0,
3751850.0,   22.8,   22.8,   0.0);
     (391215.0, 3751850.0,   22.7,   22.7,   0.0);   (391225.0,
3751850.0,   22.7,   22.7,   0.0);
     (391235.0, 3751850.0,   22.6,   22.6,   0.0);   (391245.0,
3751850.0,   22.7,   22.7,   0.0);
     (391255.0, 3751850.0,   22.8,   22.8,   0.0);   (391265.0,
3751850.0,   22.8,   22.8,   0.0);
     (391275.0, 3751850.0,   22.8,   22.8,   0.0);   (391295.0,
3751850.0,   22.8,   22.8,   0.0);
     (391305.0, 3751850.0,   22.8,   22.8,   0.0);   (391315.0,
3751850.0,   22.7,   22.7,   0.0);
     (391325.0, 3751850.0,   22.7,   22.7,   0.0);   (391335.0,
3751850.0,   22.7,   22.7,   0.0);
     (391345.0, 3751850.0,   22.7,   22.7,   0.0);   (391355.0,
3751850.0,   22.7,   22.7,   0.0);
     (391365.0, 3751850.0,   22.7,   22.7,   0.0);   (391375.0,
3751850.0,   22.7,   22.7,   0.0);
     (391385.0, 3751850.0,   22.7,   22.7,   0.0);   (391395.0,
3751850.0,   22.8,   22.8,   0.0);
     (391405.0, 3751850.0,   22.9,   22.9,   0.0);   (391415.0,
3751850.0,   22.9,   22.9,   0.0);
     (391425.0, 3751850.0,   22.7,   22.7,   0.0);   (391075.0,
3751860.0,   22.9,   22.9,   0.0);
     (391085.0, 3751860.0,   23.0,   23.0,   0.0);   (391095.0,
3751860.0,   22.9,   22.9,   0.0);
     (391105.0, 3751860.0,   23.0,   23.0,   0.0);   (391115.0,
3751860.0,   22.8,   22.8,   0.0);
     (391135.0, 3751860.0,   22.6,   22.6,   0.0);   (391145.0,
3751860.0,   22.9,   22.9,   0.0);
     (391155.0, 3751860.0,   22.9,   22.9,   0.0);   (391165.0,
3751860.0,   22.9,   22.9,   0.0);
     (391175.0, 3751860.0,   22.9,   22.9,   0.0);   (391185.0,
3751860.0,   22.9,   22.9,   0.0);
     (391195.0, 3751860.0,   22.8,   22.8,   0.0);   (391205.0,
3751860.0,   22.8,   22.8,   0.0);
     (391215.0, 3751860.0,   22.8,   22.8,   0.0);   (391225.0,
3751860.0,   22.7,   22.7,   0.0);
     (391235.0, 3751860.0,   22.7,   22.7,   0.0);   (391245.0,
3751860.0,   22.8,   22.8,   0.0);
     (391255.0, 3751860.0,   22.8,   22.8,   0.0);   (391265.0,

3751860.0,   22.8,   22.8,   0.0);
     (391275.0, 3751860.0,   22.8,   22.8,   0.0);   (391295.0,
3751860.0,   22.8,   22.8,   0.0);
     (391305.0, 3751860.0,   22.7,   22.7,   0.0);   (391315.0,
3751860.0,   22.7,   22.7,   0.0);
     (391325.0, 3751860.0,   22.7,   22.7,   0.0);   (391335.0,
3751860.0,   22.7,   22.7,   0.0);
     (391345.0, 3751860.0,   22.7,   22.7,   0.0);   (391355.0,
3751860.0,   22.7,   22.7,   0.0);
     (391365.0, 3751860.0,   22.8,   22.8,   0.0);   (391375.0,
3751860.0,   22.7,   22.7,   0.0);
     (391385.0, 3751860.0,   22.6,   22.6,   0.0);   (391395.0,
3751860.0,   22.6,   22.6,   0.0);
     (391405.0, 3751860.0,   22.8,   22.8,   0.0);   (391415.0,
3751860.0,   22.8,   22.8,   0.0);
     (391425.0, 3751860.0,   22.8,   22.8,   0.0);   (391075.0,
3751870.0,   22.9,   22.9,   0.0);
     (391085.0, 3751870.0,   23.0,   23.0,   0.0);   (391095.0,
3751870.0,   23.0,   23.0,   0.0);
     (391105.0, 3751870.0,   23.0,   23.0,   0.0);   (391115.0,
3751870.0,   22.8,   22.8,   0.0);
     (391135.0, 3751870.0,   22.6,   22.6,   0.0);   (391145.0,
3751870.0,   23.0,   23.0,   0.0);
     (391155.0, 3751870.0,   22.9,   22.9,   0.0);   (391165.0,
3751870.0,   22.8,   22.8,   0.0);
     (391175.0, 3751870.0,   22.9,   22.9,   0.0);   (391185.0,
3751870.0,   22.9,   22.9,   0.0);

                                          *** DISCRETE CARTESIAN RECEPTORS ***
                                        (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                  (METERS)

     (391195.0, 3751870.0,   22.8,   22.8,   0.0);   (391205.0,
3751870.0,   22.9,   22.9,   0.0);
     (391215.0, 3751870.0,   22.8,   22.8,   0.0);   (391225.0,
3751870.0,   22.6,   22.6,   0.0);
     (391235.0, 3751870.0,   22.8,   22.8,   0.0);   (391245.0,
3751870.0,   22.9,   22.9,   0.0);
     (391255.0, 3751870.0,   22.9,   22.9,   0.0);   (391265.0,
3751870.0,   22.8,   22.8,   0.0);
     (391285.0, 3751870.0,   22.8,   22.8,   0.0);   (391295.0,
3751870.0,   22.8,   22.8,   0.0);
     (391305.0, 3751870.0,   22.7,   22.7,   0.0);   (391315.0,

3751870.0,	22.7,	22.7,	0.0);
(391325.0, 3751870.0,	22.7,	22.7,	0.0);	(391335.0,
3751870.0,	22.7,	22.7,	0.0);
(391345.0, 3751870.0,	22.8,	22.8,	0.0);	(391355.0,
3751870.0,	22.8,	22.8,	0.0);
(391365.0, 3751870.0,	22.8,	22.8,	0.0);	(391375.0,
3751870.0,	22.7,	22.7,	0.0);
(391385.0, 3751870.0,	22.7,	22.7,	0.0);	(391395.0,
3751870.0,	22.7,	22.7,	0.0);
(391405.0, 3751870.0,	22.7,	22.7,	0.0);	(391415.0,
3751870.0,	22.8,	22.8,	0.0);
(391425.0, 3751870.0,	22.8,	22.8,	0.0);	(391075.0,
3751880.0,	22.9,	22.9,	0.0);
(391085.0, 3751880.0,	22.9,	22.9,	0.0);	(391095.0,
3751880.0,	22.9,	22.9,	0.0);
(391105.0, 3751880.0,	23.0,	23.0,	0.0);	(391115.0,
3751880.0,	22.9,	22.9,	0.0);
(391135.0, 3751880.0,	22.6,	22.6,	0.0);	(391145.0,
3751880.0,	22.9,	22.9,	0.0);
(391155.0, 3751880.0,	23.0,	23.0,	0.0);	(391165.0,
3751880.0,	23.0,	23.0,	0.0);
(391175.0, 3751880.0,	23.0,	23.0,	0.0);	(391185.0,
3751880.0,	22.9,	22.9,	0.0);
(391195.0, 3751880.0,	22.9,	22.9,	0.0);	(391205.0,
3751880.0,	22.8,	22.8,	0.0);
(391215.0, 3751880.0,	22.7,	22.7,	0.0);	(391225.0,
3751880.0,	22.7,	22.7,	0.0);
(391235.0, 3751880.0,	22.7,	22.7,	0.0);	(391245.0,
3751880.0,	22.8,	22.8,	0.0);
(391255.0, 3751880.0,	22.8,	22.8,	0.0);	(391265.0,
3751880.0,	22.8,	22.8,	0.0);
(391285.0, 3751880.0,	22.8,	22.8,	0.0);	(391295.0,
3751880.0,	22.8,	22.8,	0.0);
(391305.0, 3751880.0,	22.8,	22.8,	0.0);	(391315.0,
3751880.0,	22.7,	22.7,	0.0);
(391325.0, 3751880.0,	22.7,	22.7,	0.0);	(391335.0,
3751880.0,	22.8,	22.8,	0.0);
(391345.0, 3751880.0,	22.8,	22.8,	0.0);	(391355.0,
3751880.0,	22.8,	22.8,	0.0);
(391365.0, 3751880.0,	22.8,	22.8,	0.0);	(391375.0,
3751880.0,	22.7,	22.7,	0.0);
(391385.0, 3751880.0,	22.7,	22.7,	0.0);	(391395.0,
3751880.0,	22.8,	22.8,	0.0);
(391405.0, 3751880.0,	22.9,	22.9,	0.0);	(391415.0,
3751880.0,	22.8,	22.8,	0.0);
(391425.0, 3751880.0,	22.7,	22.7,	0.0);	(391075.0,
3751890.0,	23.0,	23.0,	0.0);
(391085.0, 3751890.0,	23.1,	23.1,	0.0);	(391095.0,
3751890.0,	23.0,	23.0,	0.0);
(391105.0, 3751890.0,	23.0,	23.0,	0.0);	(391115.0,

3751890.0,   22.9,   22.9,   0.0);
     (391135.0, 3751890.0,   22.6,   22.6,   0.0);   (391145.0,
3751890.0,   23.1,   23.1,   0.0);
     (391155.0, 3751890.0,   23.0,   23.0,   0.0);   (391165.0,
3751890.0,   23.0,   23.0,   0.0);
     (391175.0, 3751890.0,   22.9,   22.9,   0.0);   (391185.0,
3751890.0,   22.8,   22.8,   0.0);
     (391195.0, 3751890.0,   22.7,   22.7,   0.0);   (391205.0,
3751890.0,   22.8,   22.8,   0.0);
     (391215.0, 3751890.0,   22.7,   22.7,   0.0);   (391225.0,
3751890.0,   22.7,   22.7,   0.0);
     (391235.0, 3751890.0,   22.8,   22.8,   0.0);   (391245.0,
3751890.0,   22.8,   22.8,   0.0);
     (391255.0, 3751890.0,   22.9,   22.9,   0.0);   (391285.0,
3751890.0,   22.9,   22.9,   0.0);
     (391295.0, 3751890.0,   22.8,   22.8,   0.0);   (391305.0,
3751890.0,   22.8,   22.8,   0.0);
     (391315.0, 3751890.0,   22.8,   22.8,   0.0);   (391325.0,
3751890.0,   22.8,   22.8,   0.0);
     (391335.0, 3751890.0,   22.8,   22.8,   0.0);   (391345.0,
3751890.0,   22.8,   22.8,   0.0);
     (391355.0, 3751890.0,   22.8,   22.8,   0.0);   (391365.0,
3751890.0,   22.8,   22.8,   0.0);
     (391375.0, 3751890.0,   22.8,   22.8,   0.0);   (391385.0,
3751890.0,   22.8,   22.8,   0.0);
     (391395.0, 3751890.0,   22.9,   22.9,   0.0);   (391405.0,
3751890.0,   22.9,   22.9,   0.0);
     (391415.0, 3751890.0,   22.7,   22.7,   0.0);   (391425.0,
3751890.0,   22.7,   22.7,   0.0);

                                          *** DISCRETE CARTESIAN RECEPTORS ***
                                        (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                    (METERS)

     (391075.0, 3751900.0,   23.0,   23.0,   0.0);   (391085.0,
3751900.0,   23.1,   23.1,   0.0);
     (391095.0, 3751900.0,   23.2,   23.2,   0.0);   (391105.0,
3751900.0,   23.2,   23.2,   0.0);
     (391115.0, 3751900.0,   23.0,   23.0,   0.0);   (391135.0,
3751900.0,   22.7,   22.7,   0.0);
     (391145.0, 3751900.0,   23.1,   23.1,   0.0);   (391155.0,
3751900.0,   23.1,   23.1,   0.0);
     (391165.0, 3751900.0,   23.0,   23.0,   0.0);   (391175.0,

3751900.0,   23.0,   23.0,   0.0);
     (391185.0, 3751900.0,   22.9,   22.9,   0.0);   (391195.0,
3751900.0,   22.8,   22.8,   0.0);
     (391205.0, 3751900.0,   22.8,   22.8,   0.0);   (391215.0,
3751900.0,   22.7,   22.7,   0.0);
     (391225.0, 3751900.0,   22.8,   22.8,   0.0);   (391235.0,
3751900.0,   22.8,   22.8,   0.0);
     (391245.0, 3751900.0,   22.9,   22.9,   0.0);   (391255.0,
3751900.0,   22.9,   22.9,   0.0);
     (391275.0, 3751900.0,   22.9,   22.9,   0.0);   (391285.0,
3751900.0,   22.9,   22.9,   0.0);
     (391295.0, 3751900.0,   22.8,   22.8,   0.0);   (391305.0,
3751900.0,   22.7,   22.7,   0.0);
     (391315.0, 3751900.0,   22.8,   22.8,   0.0);   (391325.0,
3751900.0,   22.8,   22.8,   0.0);
     (391335.0, 3751900.0,   22.7,   22.7,   0.0);   (391345.0,
3751900.0,   22.8,   22.8,   0.0);
     (391355.0, 3751900.0,   22.8,   22.8,   0.0);   (391365.0,
3751900.0,   22.8,   22.8,   0.0);
     (391375.0, 3751900.0,   22.8,   22.8,   0.0);   (391385.0,
3751900.0,   22.8,   22.8,   0.0);
     (391395.0, 3751900.0,   22.9,   22.9,   0.0);   (391405.0,
3751900.0,   22.9,   22.9,   0.0);
     (391415.0, 3751900.0,   22.7,   22.7,   0.0);   (391425.0,
3751900.0,   22.7,   22.7,   0.0);
     (391075.0, 3751910.0,   22.8,   22.8,   0.0);   (391085.0,
3751910.0,   22.8,   22.8,   0.0);
     (391095.0, 3751910.0,   23.1,   23.1,   0.0);   (391105.0,
3751910.0,   23.1,   23.1,   0.0);
     (391115.0, 3751910.0,   22.9,   22.9,   0.0);   (391135.0,
3751910.0,   22.7,   22.7,   0.0);
     (391145.0, 3751910.0,   23.0,   23.0,   0.0);   (391155.0,
3751910.0,   22.9,   22.9,   0.0);
     (391165.0, 3751910.0,   22.9,   22.9,   0.0);   (391175.0,
3751910.0,   22.9,   22.9,   0.0);
     (391185.0, 3751910.0,   22.8,   22.8,   0.0);   (391195.0,
3751910.0,   22.7,   22.7,   0.0);
     (391205.0, 3751910.0,   22.7,   22.7,   0.0);   (391215.0,
3751910.0,   22.7,   22.7,   0.0);
     (391225.0, 3751910.0,   22.8,   22.8,   0.0);   (391235.0,
3751910.0,   22.8,   22.8,   0.0);
     (391245.0, 3751910.0,   22.9,   22.9,   0.0);   (391275.0,
3751910.0,   22.9,   22.9,   0.0);
     (391285.0, 3751910.0,   22.9,   22.9,   0.0);   (391295.0,
3751910.0,   22.8,   22.8,   0.0);
     (391305.0, 3751910.0,   22.8,   22.8,   0.0);   (391315.0,
3751910.0,   22.8,   22.8,   0.0);
     (391325.0, 3751910.0,   22.8,   22.8,   0.0);   (391335.0,
3751910.0,   22.8,   22.8,   0.0);
     (391345.0, 3751910.0,   22.8,   22.8,   0.0);   (391355.0,

3751910.0,   22.8,   22.8,   0.0);
     (391365.0, 3751910.0,   22.8,   22.8,   0.0);   (391375.0,
3751910.0,   22.8,   22.8,   0.0);
     (391385.0, 3751910.0,   22.8,   22.8,   0.0);   (391395.0,
3751910.0,   22.9,   22.9,   0.0);
     (391405.0, 3751910.0,   22.9,   22.9,   0.0);   (391415.0,
3751910.0,   22.7,   22.7,   0.0);
     (391425.0, 3751910.0,   22.7,   22.7,   0.0);   (391325.0,
3751920.0,   23.2,   24.8,   0.0);
     (391335.0, 3751920.0,   22.9,   25.3,   0.0);   (391345.0,
3751920.0,   22.9,   25.3,   0.0);
     (391355.0, 3751920.0,   22.8,   24.8,   0.0);   (391365.0,
3751920.0,   22.8,   22.8,   0.0);
     (391375.0, 3751920.0,   22.8,   22.8,   0.0);   (391385.0,
3751920.0,   22.8,   22.8,   0.0);
     (391395.0, 3751920.0,   22.9,   22.9,   0.0);   (391405.0,
3751920.0,   23.0,   23.0,   0.0);
     (391415.0, 3751920.0,   22.8,   22.8,   0.0);   (391425.0,
3751920.0,   22.8,   22.8,   0.0);
     (391075.0, 3751930.0,   22.8,   22.8,   0.0);   (391085.0,
3751930.0,   22.8,   22.8,   0.0);
     (391095.0, 3751930.0,   22.9,   22.9,   0.0);   (391105.0,
3751930.0,   23.0,   23.0,   0.0);
     (391115.0, 3751930.0,   22.8,   22.8,   0.0);   (391135.0,
3751930.0,   22.6,   22.6,   0.0);
     (391145.0, 3751930.0,   22.9,   22.9,   0.0);   (391155.0,
3751930.0,   22.8,   22.8,   0.0);
     (391165.0, 3751930.0,   22.8,   22.8,   0.0);   (391175.0,
3751930.0,   22.8,   22.8,   0.0);
     (391185.0, 3751930.0,   22.8,   22.8,   0.0);   (391195.0,
3751930.0,   22.8,   22.8,   0.0);

                                          *** DISCRETE CARTESIAN RECEPTORS ***
                                       (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                (METERS)

     (391205.0, 3751930.0,   22.8,   22.8,   0.0);   (391215.0,
3751930.0,   22.8,   22.8,   0.0);
     (391225.0, 3751930.0,   22.9,   22.9,   0.0);   (391235.0,
3751930.0,   22.9,   22.9,   0.0);
     (391075.0, 3751940.0,   23.1,   23.1,   0.0);   (391085.0,
3751940.0,   23.1,   23.1,   0.0);
     (391095.0, 3751940.0,   23.3,   23.3,   0.0);   (391105.0,

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3751940.0,      23.3,      23.3,       0.0);
     ( 391115.0, 3751940.0,      23.1,      23.1,       0.0);         ( 391135.0,
3751940.0,      22.7,      22.7,       0.0);
     ( 391145.0, 3751940.0,      23.1,      23.1,       0.0);         ( 391155.0,
3751940.0,      23.0,      23.0,       0.0);
     ( 391165.0, 3751940.0,      23.0,      23.0,       0.0);         ( 391175.0,
3751940.0,      23.0,      23.0,       0.0);
     ( 391185.0, 3751940.0,      22.9,      22.9,       0.0);         ( 391195.0,
3751940.0,      22.9,      22.9,       0.0);
     ( 391205.0, 3751940.0,      22.9,      22.9,       0.0);         ( 391215.0,
3751940.0,      23.0,      23.0,       0.0);
     ( 391225.0, 3751940.0,      23.2,      23.2,       0.0);         ( 391235.0,
3751940.0,      23.1,      23.1,       0.0);
     ( 391075.0, 3751950.0,      23.2,      23.2,       0.0);         ( 391085.0,
3751950.0,      23.2,      23.2,       0.0);
     ( 391095.0, 3751950.0,      23.3,      23.3,       0.0);         ( 391105.0,
3751950.0,      23.2,      23.2,       0.0);
     ( 391115.0, 3751950.0,      23.1,      23.1,       0.0);         ( 391135.0,
3751950.0,      22.7,      22.7,       0.0);
     ( 391145.0, 3751950.0,      23.1,      23.1,       0.0);         ( 391155.0,
3751950.0,      23.2,      23.2,       0.0);
     ( 391165.0, 3751950.0,      23.1,      23.1,       0.0);         ( 391175.0,
3751950.0,      23.1,      23.1,       0.0);
     ( 391185.0, 3751950.0,      23.0,      23.0,       0.0);         ( 391195.0,
3751950.0,      22.9,      22.9,       0.0);
     ( 391205.0, 3751950.0,      23.0,      23.0,       0.0);         ( 391215.0,
3751950.0,      23.1,      23.1,       0.0);
     ( 391225.0, 3751950.0,      23.2,      23.2,       0.0);         ( 391235.0,
3751950.0,      23.1,      23.1,       0.0);
     ( 391075.0, 3751960.0,      23.2,      23.2,       0.0);         ( 391085.0,
3751960.0,      23.2,      23.2,       0.0);
     ( 391095.0, 3751960.0,      23.2,      23.2,       0.0);         ( 391105.0,
3751960.0,      23.2,      23.2,       0.0);
     ( 391115.0, 3751960.0,      23.1,      23.1,       0.0);         ( 391135.0,
3751960.0,      22.8,      22.8,       0.0);
     ( 391145.0, 3751960.0,      23.1,      23.1,       0.0);         ( 391155.0,
3751960.0,      23.2,      23.2,       0.0);
     ( 391165.0, 3751960.0,      23.2,      23.2,       0.0);         ( 391175.0,
3751960.0,      23.1,      23.1,       0.0);
     ( 391185.0, 3751960.0,      23.0,      23.0,       0.0);         ( 391195.0,
3751960.0,      23.0,      23.0,       0.0);
     ( 391205.0, 3751960.0,      22.9,      22.9,       0.0);         ( 391215.0,
3751960.0,      23.0,      23.0,       0.0);
     ( 391225.0, 3751960.0,      23.1,      23.1,       0.0);         ( 391075.0,
3751970.0,      23.1,      23.1,       0.0);
     ( 391085.0, 3751970.0,      23.1,      23.1,       0.0);         ( 391095.0,
3751970.0,      23.2,      23.2,       0.0);
     ( 391105.0, 3751970.0,      23.2,      23.2,       0.0);         ( 391115.0,
3751970.0,      23.1,      23.1,       0.0);
     ( 391135.0, 3751970.0,      22.8,      22.8,       0.0);         ( 391145.0,
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3751970.0,   23.1,   23.1,   0.0);
     (391155.0, 3751970.0,   23.3,   23.3,   0.0);   (391165.0,
3751970.0,   23.2,   23.2,   0.0);
     (391175.0, 3751970.0,   23.1,   23.1,   0.0);   (391185.0,
3751970.0,   23.1,   23.1,   0.0);
     (391195.0, 3751970.0,   23.1,   23.1,   0.0);   (391205.0,
3751970.0,   23.0,   23.0,   0.0);
     (391215.0, 3751970.0,   23.1,   23.1,   0.0);   (391225.0,
3751970.0,   23.1,   23.1,   0.0);
     (391075.0, 3751980.0,   23.1,   23.1,   0.0);   (391085.0,
3751980.0,   23.1,   23.1,   0.0);
     (391095.0, 3751980.0,   23.2,   23.2,   0.0);   (391105.0,
3751980.0,   23.2,   23.2,   0.0);
     (391115.0, 3751980.0,   23.0,   23.0,   0.0);   (391135.0,
3751980.0,   22.8,   22.8,   0.0);
     (391145.0, 3751980.0,   23.1,   23.1,   0.0);   (391155.0,
3751980.0,   23.3,   23.3,   0.0);
     (391165.0, 3751980.0,   23.2,   23.2,   0.0);   (391175.0,
3751980.0,   23.2,   23.2,   0.0);
     (391185.0, 3751980.0,   23.2,   23.2,   0.0);   (391195.0,
3751980.0,   23.2,   23.2,   0.0);
     (391205.0, 3751980.0,   23.2,   23.2,   0.0);   (391215.0,
3751980.0,   23.2,   23.2,   0.0);
     (391225.0, 3751980.0,   23.0,   23.0,   0.0);   (391075.0,
3751990.0,   23.1,   23.1,   0.0);
     (391085.0, 3751990.0,   23.1,   23.1,   0.0);   (391095.0,
3751990.0,   23.2,   23.2,   0.0);
     (391105.0, 3751990.0,   23.2,   23.2,   0.0);   (391115.0,
3751990.0,   23.0,   23.0,   0.0);
     (391135.0, 3751990.0,   22.8,   22.8,   0.0);   (391145.0,
3751990.0,   23.2,   23.2,   0.0);
     (391155.0, 3751990.0,   23.3,   23.3,   0.0);   (391165.0,
3751990.0,   23.3,   23.3,   0.0);

                                          *** DISCRETE CARTESIAN RECEPTORS ***
                                        (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                  (METERS)

     (391175.0, 3751990.0,   23.3,   23.3,   0.0);   (391185.0,
3751990.0,   23.3,   23.3,   0.0);
     (391195.0, 3751990.0,   23.2,   23.2,   0.0);   (391205.0,
3751990.0,   23.2,   23.2,   0.0);
     (391215.0, 3751990.0,   23.2,   23.2,   0.0);   (391075.0,

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3752000.0,      22.8,      22.8,       0.0);
     ( 391085.0, 3752000.0,      22.9,      22.9,       0.0);         ( 391095.0,
3752000.0,      23.0,      23.0,       0.0);
     ( 391105.0, 3752000.0,      23.0,      23.0,       0.0);         ( 391115.0,
3752000.0,      22.9,      22.9,       0.0);
     ( 391135.0, 3752000.0,      22.8,      22.8,       0.0);         ( 391145.0,
3752000.0,      23.0,      23.0,       0.0);
     ( 391155.0, 3752000.0,      23.1,      23.1,       0.0);         ( 391165.0,
3752000.0,      23.1,      23.1,       0.0);
     ( 391175.0, 3752000.0,      23.1,      23.1,       0.0);         ( 391185.0,
3752000.0,      23.1,      23.1,       0.0);
     ( 391195.0, 3752000.0,      23.0,      23.0,       0.0);         ( 391205.0,
3752000.0,      23.0,      23.0,       0.0);
     ( 391215.0, 3752000.0,      23.0,      23.0,       0.0);         ( 391135.0,
3752010.0,      22.8,      22.8,       0.0);
     ( 391075.0, 3752020.0,      22.7,      22.7,       0.0);         ( 391085.0,
3752020.0,      22.7,      22.7,       0.0);
     ( 391095.0, 3752020.0,      22.7,      22.7,       0.0);         ( 391105.0,
3752020.0,      22.9,      22.9,       0.0);
     ( 391115.0, 3752020.0,      22.8,      22.8,       0.0);         ( 391135.0,
3752020.0,      22.9,      22.9,       0.0);
     ( 391145.0, 3752020.0,      23.0,      23.0,       0.0);         ( 391155.0,
3752020.0,      23.0,      23.0,       0.0);
     ( 391165.0, 3752020.0,      23.1,      23.1,       0.0);         ( 391175.0,
3752020.0,      23.0,      23.0,       0.0);
     ( 391185.0, 3752020.0,      22.9,      22.9,       0.0);         ( 391075.0,
3752030.0,      23.1,      23.1,       0.0);
     ( 391085.0, 3752030.0,      23.0,      23.0,       0.0);         ( 391095.0,
3752030.0,      23.0,      23.0,       0.0);
     ( 391105.0, 3752030.0,      23.0,      23.0,       0.0);         ( 391115.0,
3752030.0,      23.0,      23.0,       0.0);
     ( 391135.0, 3752030.0,      23.0,      23.0,       0.0);         ( 391145.0,
3752030.0,      23.3,      23.3,       0.0);
     ( 391155.0, 3752030.0,      23.4,      23.4,       0.0);         ( 391165.0,
3752030.0,      23.4,      23.4,       0.0);
     ( 391175.0, 3752030.0,      23.3,      23.3,       0.0);         ( 391185.0,
3752030.0,      23.1,      23.1,       0.0);
     ( 391075.0, 3752040.0,      23.2,      23.2,       0.0);         ( 391085.0,
3752040.0,      23.1,      23.1,       0.0);
     ( 391095.0, 3752040.0,      23.1,      23.1,       0.0);         ( 391105.0,
3752040.0,      23.1,      23.1,       0.0);
     ( 391115.0, 3752040.0,      22.9,      22.9,       0.0);         ( 391135.0,
3752040.0,      22.9,      22.9,       0.0);
     ( 391145.0, 3752040.0,      23.2,      23.2,       0.0);         ( 391155.0,
3752040.0,      23.3,      23.3,       0.0);
     ( 391165.0, 3752040.0,      23.3,      23.3,       0.0);         ( 391175.0,
3752040.0,      23.3,      23.3,       0.0);
     ( 391185.0, 3752040.0,      23.1,      23.1,       0.0);         ( 391075.0,
3752050.0,      23.2,      23.2,       0.0);
     ( 391085.0, 3752050.0,      23.2,      23.2,       0.0);         ( 391095.0,
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3752050.0,   23.2,   23.2,   0.0);
     (391105.0, 3752050.0,   23.1,   23.1,   0.0);   (391115.0,
3752050.0,   23.0,   23.0,   0.0);
     (391135.0, 3752050.0,   22.9,   22.9,   0.0);   (391145.0,
3752050.0,   23.1,   23.1,   0.0);
     (391155.0, 3752050.0,   23.3,   23.3,   0.0);   (391165.0,
3752050.0,   23.3,   23.3,   0.0);
     (391175.0, 3752050.0,   23.2,   23.2,   0.0);   (391185.0,
3752050.0,   23.0,   23.0,   0.0);
     (391135.0, 3752060.0,   22.8,   22.8,   0.0);   (391145.0,
3752060.0,   23.2,   23.2,   0.0);
     (391155.0, 3752060.0,   23.3,   23.3,   0.0);   (391165.0,
3752060.0,   23.3,   23.3,   0.0);
     (391175.0, 3752060.0,   23.2,   23.2,   0.0);   (391185.0,
3752060.0,   22.9,   22.9,   0.0);
     (391135.0, 3752070.0,   22.7,   22.7,   0.0);   (391145.0,
3752070.0,   23.1,   23.1,   0.0);
     (391155.0, 3752070.0,   23.2,   23.2,   0.0);   (391135.0,
3752080.0,   22.7,   22.7,   0.0);
     (391145.0, 3752080.0,   22.7,   22.7,   0.0);   (391155.0,
3752080.0,   22.7,   22.7,   0.0);
     (391235.0, 3752120.0,   23.2,   23.2,   0.0);   (391245.0,
3752120.0,   23.1,   23.1,   0.0);
     (391255.0, 3752120.0,   23.0,   23.0,   0.0);   (391265.0,
3752120.0,   23.0,   23.0,   0.0);
     (391275.0, 3752120.0,   23.1,   23.1,   0.0);   (391285.0,
3752120.0,   23.1,   23.1,   0.0);
     (391295.0, 3752120.0,   23.1,   23.1,   0.0);   (391305.0,
3752120.0,   23.1,   23.1,   0.0);
     (391315.0, 3752120.0,   23.1,   23.1,   0.0);   (391325.0,
3752120.0,   23.1,   23.1,   0.0);
     (391335.0, 3752120.0,   23.0,   23.0,   0.0);   (391345.0,
3752120.0,   23.1,   23.1,   0.0);
     (391355.0, 3752120.0,   23.0,   23.0,   0.0);   (391365.0,
3752120.0,   23.0,   23.0,   0.0);

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                          *** DISCRETE CARTESIAN RECEPTORS ***
                                        (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                  (METERS)

     (391375.0, 3752120.0,   23.0,   23.0,   0.0);   (391385.0,
3752120.0,   23.0,   23.0,   0.0);
     (391395.0, 3752120.0,   23.0,   23.0,   0.0);   (391405.0,

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3752120.0,      23.0,      23.0,       0.0);
     ( 391415.0, 3752120.0,      23.0,      23.0,       0.0);         ( 391425.0,
3752120.0,      23.2,      23.2,       0.0);
     ( 391235.0, 3752130.0,      23.2,      23.2,       0.0);         ( 391245.0,
3752130.0,      23.1,      23.1,       0.0);
     ( 391255.0, 3752130.0,      23.0,      23.0,       0.0);         ( 391265.0,
3752130.0,      23.1,      23.1,       0.0);
     ( 391275.0, 3752130.0,      23.2,      23.2,       0.0);         ( 391285.0,
3752130.0,      23.2,      23.2,       0.0);
     ( 391295.0, 3752130.0,      23.2,      23.2,       0.0);         ( 391305.0,
3752130.0,      23.2,      23.2,       0.0);
     ( 391315.0, 3752130.0,      23.1,      23.1,       0.0);         ( 391325.0,
3752130.0,      23.1,      23.1,       0.0);
     ( 391335.0, 3752130.0,      23.0,      23.0,       0.0);         ( 391345.0,
3752130.0,      23.1,      23.1,       0.0);
     ( 391355.0, 3752130.0,      23.0,      23.0,       0.0);         ( 391365.0,
3752130.0,      23.0,      23.0,       0.0);
     ( 391375.0, 3752130.0,      22.9,      22.9,       0.0);         ( 391385.0,
3752130.0,      23.0,      23.0,       0.0);
     ( 391395.0, 3752130.0,      23.0,      23.0,       0.0);         ( 391405.0,
3752130.0,      22.9,      22.9,       0.0);
     ( 391415.0, 3752130.0,      22.9,      22.9,       0.0);         ( 391425.0,
3752130.0,      23.1,      23.1,       0.0);
     ( 391235.0, 3752140.0,      23.3,      23.3,       0.0);         ( 391245.0,
3752140.0,      23.2,      23.2,       0.0);
     ( 391255.0, 3752140.0,      23.1,      23.1,       0.0);         ( 391265.0,
3752140.0,      23.1,      23.1,       0.0);
     ( 391275.0, 3752140.0,      23.2,      23.2,       0.0);         ( 391285.0,
3752140.0,      23.3,      23.3,       0.0);
     ( 391295.0, 3752140.0,      23.3,      23.3,       0.0);         ( 391305.0,
3752140.0,      23.3,      23.3,       0.0);
     ( 391315.0, 3752140.0,      23.2,      23.2,       0.0);         ( 391325.0,
3752140.0,      23.1,      23.1,       0.0);
     ( 391335.0, 3752140.0,      23.0,      23.0,       0.0);         ( 391345.0,
3752140.0,      23.2,      23.2,       0.0);
     ( 391355.0, 3752140.0,      23.0,      23.0,       0.0);         ( 391365.0,
3752140.0,      23.0,      23.0,       0.0);
     ( 391375.0, 3752140.0,      22.8,      22.8,       0.0);         ( 391385.0,
3752140.0,      22.9,      22.9,       0.0);
     ( 391395.0, 3752140.0,      22.9,      22.9,       0.0);         ( 391405.0,
3752140.0,      22.8,      22.8,       0.0);
     ( 391415.0, 3752140.0,      22.9,      22.9,       0.0);         ( 391425.0,
3752140.0,      23.0,      23.0,       0.0);
     ( 391235.0, 3752150.0,      23.4,      23.4,       0.0);         ( 391245.0,
3752150.0,      23.3,      23.3,       0.0);
     ( 391255.0, 3752150.0,      23.2,      23.2,       0.0);         ( 391265.0,
3752150.0,      23.2,      23.2,       0.0);
     ( 391275.0, 3752150.0,      23.3,      23.3,       0.0);         ( 391285.0,
3752150.0,      23.4,      23.4,       0.0);
     ( 391295.0, 3752150.0,      23.4,      23.4,       0.0);         ( 391305.0,
```

3752150.0,   23.4,   23.4,   0.0);
     (391315.0, 3752150.0,   23.2,   23.2,   0.0);   (391325.0,
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     (391335.0, 3752150.0,   23.0,   23.0,   0.0);   (391345.0,
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     (391395.0, 3752150.0,   22.9,   22.9,   0.0);   (391405.0,
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     (391275.0, 3752160.0,   23.3,   23.3,   0.0);   (391285.0,
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     (391295.0, 3752160.0,   23.4,   23.4,   0.0);   (391305.0,
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     (391315.0, 3752160.0,   23.3,   23.3,   0.0);   (391325.0,
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     (391335.0, 3752160.0,   23.0,   23.0,   0.0);   (391345.0,
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     (391355.0, 3752160.0,   22.9,   22.9,   0.0);   (391365.0,
3752160.0,   22.9,   22.9,   0.0);
     (391375.0, 3752160.0,   22.9,   22.9,   0.0);   (391385.0,
3752160.0,   22.9,   22.9,   0.0);
     (391395.0, 3752160.0,   22.9,   22.9,   0.0);   (391405.0,
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3752170.0,   23.3,   23.3,   0.0);

                                          *** DISCRETE CARTESIAN RECEPTORS ***
                                        (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                  (METERS)

     (391285.0, 3752170.0,   23.5,   23.5,   0.0);   (391295.0,

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(391345.0, 3752170.0,	22.9,	22.9,	0.0);	(391355.0,
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(391385.0, 3752170.0,	22.9,	22.9,	0.0);	(391395.0,
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(391405.0, 3752170.0,	22.7,	22.7,	0.0);	(391415.0,
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(391295.0, 3752180.0,	23.0,	23.0,	0.0);	(391305.0,
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(391315.0, 3752180.0,	22.9,	22.9,	0.0);	(391325.0,
3752180.0,	23.0,	23.0,	0.0);
(391335.0, 3752180.0,	22.8,	22.8,	0.0);	(391345.0,
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(391395.0, 3752180.0,	23.0,	23.0,	0.0);	(391405.0,
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(391285.0, 3752190.0,	23.4,	23.4,	0.0);	(391295.0,
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(391325.0, 3752190.0,	22.9,	22.9,	0.0);	(391335.0,
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(391345.0, 3752190.0,	22.9,	22.9,	0.0);	(391355.0,
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(391385.0, 3752190.0,	22.8,	22.8,	0.0);	(391395.0,
3752190.0,	22.9,	22.9,	0.0);
(391405.0, 3752190.0,	22.7,	22.7,	0.0);	(391415.0,

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     (391395.0, 3752200.0,   22.9,   22.9,   0.0);   (391405.0,
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     (391415.0, 3752200.0,   22.9,   22.9,   0.0);   (391425.0,
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3752210.0,   23.2,   23.2,   0.0);
     (391295.0, 3752210.0,   22.9,   22.9,   0.0);   (391305.0,
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     (391395.0, 3752210.0,   22.9,   22.9,   0.0);   (391405.0,
3752210.0,   22.7,   22.7,   0.0);
     (391415.0, 3752210.0,   22.9,   22.9,   0.0);   (391425.0,
3752210.0,   23.0,   23.0,   0.0);

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                  *** DISCRETE CARTESIAN RECEPTORS ***
                                (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                          (METERS)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** 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
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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,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

Surface file: \\dudek.int\data\Projects\300.Environmental\14427_Craftwater_Spane_Park\02 Dudek
Met Version: 16216
Profile file: \\dudek.int\data\Projects\300.Environmental\14427_Craftwater_Spane_Park\02 Dudek
Surface format: FREE

Profile format: FREE

Surface station no.: 3166 Upper air station no.: 3190
Name: UNKNOWN Name: UNKNOWN

Year: 2010 Year: 2010

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
10	01	01	1	01	-38.6	0.384	-9.000	-9.000	-999.	572.	162.4	0.34	0.73	1.00	3.10	321.	9.1	283.8	5.5
10	01	01	1	02	-33.5	0.333	-9.000	-9.000	-999.	462.	121.8	0.34	0.73	1.00	2.70	217.	9.1	282.5	5.5
10	01	01	1	03	-21.9	0.218	-9.000	-9.000	-999.	251.	52.2	0.34	0.73	1.00	1.80	290.	9.1	282.5	5.5
10	01	01	1	04	-27.1	0.269	-9.000	-9.000	-999.	334.	79.5	0.34	0.73	1.00	2.20	255.	9.1	282.0	5.5
10	01	01	1	05	-21.9	0.218	-9.000	-9.000	-999.	245.	52.2	0.34	0.73	1.00	1.80	234.	9.1	282.0	5.5
10	01	01	1	06	-27.1	0.269	-9.000	-9.000	-999.	334.	79.5	0.34	0.73	1.00	2.20	258.	9.1	282.0	5.5
10	01	01	1	07	-27.2	0.269	-9.000	-9.000	-999.	334.	79.5	0.34	0.73	1.00	2.20	213.	9.1	281.4	5.5
10	01	01	1	08	-22.6	0.335	-9.000	-9.000	-999.	466.	151.7	0.34	0.73	0.54	2.70	215.	9.1	282.0	5.5
10	01	01	1	09	26.9	0.249	0.347	0.008	56.	302.	-51.9	0.34	0.73	0.32	1.80	199.	9.1	284.2	5.5
10	01	01	1	10	65.3	0.365	0.593	0.008	116.	529.	-67.5	0.34	0.73	0.24	2.70	117.	9.1	288.1	5.5
10	01	01	1	11	94.5	0.374	0.933	0.008	311.	550.	-50.3	0.34	0.73	0.21	2.70	243.	9.1	290.4	5.5
10	01	01	1	12	103.9	0.279	1.087	0.008	448.	359.	-19.0	0.34	0.73	0.20	1.80	130.	9.1	293.1	5.5
10	01	01	1	13	83.7	0.273	1.073	0.008	533.	343.	-22.0	0.34	0.73	0.20	1.80	282.	9.1	294.9	5.5
10	01	01	1	14	82.0	0.218	1.112	0.008	606.	245.	-11.4	0.34	0.73	0.21	1.30	290.	9.1	295.9	5.5
10	01	01	1	15	38.9	0.202	0.881	0.008	636.	217.	-19.0	0.34	0.73	0.25	1.30	192.	9.1	294.9	5.5
10	01	01	1	16	11.4	0.181	0.588	0.008	643.	185.	-47.4	0.34	0.73	0.33	1.30	218.	9.1	293.8	5.5
10	01	01	1	17	-10.7	0.155	-9.000	-9.000	-999.	147.	31.4	0.34	0.73	0.60	1.30	255.	9.1	292.0	5.5
10	01	01	1	18	-5.5	0.104	-9.000	-9.000	-999.	81.	18.6	0.34	0.73	1.00	0.90	129.	9.1	289.2	5.5
10	01	01	1	19	-11.8	0.154	-9.000	-9.000	-999.	145.	27.8	0.34	0.73	1.00	1.30	264.	9.1	287.5	5.5
10	01	01	1	20	-11.8	0.154	-9.000	-9.000	-999.	144.	27.8	0.34	0.73	1.00	1.30	25.	9.1	287.0	5.5
10	01	01	1	21	-21.6	0.218	-9.000	-9.000	-999.	244.	52.2	0.34	0.73	1.00	1.80	343.	9.1	285.9	5.5
10	01	01	1	22	-21.7	0.218	-9.000	-9.000	-999.	244.	52.2	0.34	0.73	1.00	1.80	332.	9.1	284.9	5.5

```
 10 01 01   1 23  -21.7  0.218 -9.000 -9.000 -999.  244.     52.2  0.34   0.73
1.00    1.80  178.    9.1  284.2    5.5
 10 01 01   1 24  -11.8  0.154 -9.000 -9.000 -999.  145.     27.6  0.34   0.73
1.00    1.30   28.    9.1  283.1    5.5


 First hour of profile data
 YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
 10 01 01 01    5.5 0 -999.  -99.00   283.8   99.0  -99.00  -99.00
 10 01 01 01    9.1 1  321.    3.10  -999.0   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)
↑ *** AERMOD - VERSION 21112  ***   *** C:\Users\shalterman\Desktop\HRAs\Modera
Melrose\Spane_Con_HRA\Spane_ ***        10/25/22
 *** AERMET - VERSION  16216 ***   ***
                       ***        19:36:07

                                  PAGE  23
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL       ***
                                   INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                  L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                  L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                  L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,

                                              *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                        X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         390780.00    3751525.00        2.38232                       390830.00
3751525.00        2.60571
         390880.00    3751525.00        2.84919                       390930.00
3751525.00        3.10643
         390980.00    3751525.00        3.37903                       391030.00
3751525.00        3.65453
         391080.00    3751525.00        3.92230                       391130.00
3751525.00        4.16261
         391180.00    3751525.00        4.36377                       391230.00
```

3751525.00 4.50077
391280.00 3751525.00 4.56340 391330.00
3751525.00 4.53942
391380.00 3751525.00 4.43897 391430.00
3751525.00 4.26651
391480.00 3751525.00 4.04194 391530.00
3751525.00 3.77949
391580.00 3751525.00 3.50519 391630.00
3751525.00 3.23012
391680.00 3751525.00 2.96488 391730.00
3751525.00 2.71345
391780.00 3751525.00 2.48207 390780.00
3751575.00 2.58192
390830.00 3751575.00 2.85197 390880.00
3751575.00 3.15308
390930.00 3751575.00 3.48200 390980.00
3751575.00 3.83812
391030.00 3751575.00 4.21063 391080.00
3751575.00 4.58239
391130.00 3751575.00 4.92981 391180.00
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391230.00 3751575.00 5.43452 391280.00
3751575.00 5.52925
391330.00 3751575.00 5.49499 391380.00
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3751575.00 2.70924
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3751625.00 3.11676
390880.00 3751625.00 3.48987 390930.00
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3751625.00 5.93131
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3751625.00 6.82248
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3751625.00 5.15150
391580.00 3751625.00 4.62685 391630.00

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         391780.00    3751625.00        2.95304                        390780.00
3751675.00        3.00839
         390830.00    3751675.00        3.39716                        390880.00
3751675.00        3.85408
         390930.00    3751675.00        4.38772                        390980.00
3751675.00        5.00786
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3751675.00        6.47932
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3751675.00        8.00005
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3751675.00        8.34125
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3751675.00        5.36442
 *** AERMOD - VERSION 21112  ***   *** C:\Users\shalterman\Desktop\HRAs\Modera
Melrose\Spane_Con_HRA\Spane_ ***        10/25/22
 *** AERMET - VERSION  16216 ***   ***
                       ***        19:36:07

                                  PAGE  24
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL       ***
                                   INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                  L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                  L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                  L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,

                                      *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                   ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                        X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
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390880.00 3751725.00 4.23820 390930.00 3751725.00 4.90929
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391730.00 3751725.00 3.98013 391780.00 3751725.00 3.47286
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390880.00 3751775.00 4.62660 390930.00 3751775.00 5.45746
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391030.00 3751825.00 9.13534 391080.00 3751825.00 11.59892

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3751875.00       27.77309
         391230.00    3751875.00       40.59022                      391330.00
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3751875.00       24.24237
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3751875.00        4.97664
         391780.00    3751875.00        4.18813                      390780.00
3751925.00        3.87696
         390830.00    3751925.00        4.59306                      390880.00
3751925.00        5.54350
 *** AERMOD - VERSION 21112  ***   *** C:\Users\shalterman\Desktop\HRAs\Modera
Melrose\Spane_Con_HRA\Spane_ ***        10/25/22
 *** AERMET - VERSION  16216 ***   ***
                      ***        19:36:07

                                 PAGE  25
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                              *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL      ***
                                  INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                  L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                  L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                  L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,

                                        *** DISCRETE CARTESIAN RECEPTOR POINTS
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***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
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391780.00	3751925.00	4.35544	390780.00	3751975.00	3.93082
390830.00	3751975.00	4.67226	390880.00	3751975.00	5.66626
390930.00	3751975.00	7.04001	390980.00	3751975.00	9.05735
391030.00	3751975.00	12.15843	391080.00	3751975.00	17.35879
391180.00	3751975.00	50.70803	391580.00	3751975.00	11.15784
391630.00	3751975.00	8.42444	391680.00	3751975.00	6.64671
391730.00	3751975.00	5.38678	391780.00	3751975.00	4.46993
390780.00	3752025.00	3.92393	390830.00	3752025.00	4.66339
390880.00	3752025.00	5.65496	390930.00	3752025.00	7.02405
390980.00	3752025.00	9.03017	391030.00	3752025.00	12.12208
391080.00	3752025.00	17.29446	391180.00	3752025.00	50.65622
391530.00	3752025.00	16.00885	391580.00	3752025.00	11.42989
391630.00	3752025.00	8.61071	391680.00	3752025.00	6.75668
391730.00	3752025.00	5.46223	391780.00	3752025.00	4.52022
390780.00	3752075.00	3.56073	390830.00	3752075.00	4.58227
390880.00	3752075.00	5.52324	390930.00	3752075.00	6.80634
390980.00	3752075.00	8.66254	391030.00		

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3752125.00        5.28394
         390930.00    3752125.00        6.44284                       390980.00
3752125.00        8.03516
         391030.00    3752125.00       10.33040                       391230.00
3752125.00       41.81711
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3752125.00       59.19435
         391380.00    3752125.00       43.04011                       391430.00
3752125.00       28.67412
         391530.00    3752125.00       14.08173                       391580.00
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3752125.00        6.51340
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3752175.00        4.19413
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3752175.00        5.94875
         390980.00    3752175.00        7.26998                       391030.00
3752175.00        9.07080
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         391530.00    3752175.00       12.24760                       391580.00
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 *** AERMOD - VERSION 21112  ***   *** C:\Users\shalterman\Desktop\HRAs\Modera
Melrose\Spane_Con_HRA\Spane_ ***        10/25/22
 *** AERMET - VERSION  16216 ***   ***
                      ***       19:36:07

                                PAGE  26
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL       ***
                                   INCLUDING SOURCE(S):     L0000001    , L0000002
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, L0000003    , L0000004    , L0000005    ,
                L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                        ** CONC OF PM_10    IN MICROGRAMS/M**3
                 **

       X-COORD (M)   Y-COORD (M)        CONC                        X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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3752225.00        8.42923
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3752275.00       12.24024
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3752275.00       13.49226
         391380.00    3752275.00       12.87266                      391430.00
3752275.00       11.64567
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3752275.00        8.64828
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3752325.00        3.80580
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3752325.00        6.59125
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3752325.00        8.44104
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3752325.00        9.83591
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3752425.00        2.55528
 *** AERMOD - VERSION 21112  ***   *** C:\Users\shalterman\Desktop\HRAs\Modera
Melrose\Spane_Con_HRA\Spane_ ***        10/25/22
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                            *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL   ***
                            INCLUDING SOURCE(S):   L0000001   , L0000002
, L0000003   , L0000004   , L0000005   ,
                  L0000006   , L0000007   , L0000008   , L0000009   , L0000010
, L0000011   , L0000012   , L0000013   ,
                  L0000014   , L0000015   , L0000016   , L0000017   , L0000018
, L0000019   , L0000020   , L0000021   ,
                  L0000022   , L0000023   , L0000024   , L0000025   , L0000026
, L0000027   , L0000028   , . . .   ,

                                               *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 - - -

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391080.00 3752475.00 4.05653 391130.00 3752475.00 4.36925
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391730.00 3752525.00 2.83492 391780.00 3752525.00 2.60760
391075.00 3751820.00 11.11285 391085.00 3751820.00 11.66415
391095.00 3751820.00 12.24470 391105.00 3751820.00 12.86290
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391185.00 3751820.00 19.03656 391195.00

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3751820.00   24.75152

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                              *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL   ***
                                  INCLUDING SOURCE(S):   L0000001   , L0000002
, L0000003   , L0000004   , L0000005   ,
                  L0000006   , L0000007   , L0000008   , L0000009   , L0000010
, L0000011   , L0000012   , L0000013   ,
                  L0000014   , L0000015   , L0000016   , L0000017   , L0000018
, L0000019   , L0000020   , L0000021   ,
                  L0000022   , L0000023   , L0000024   , L0000025   , L0000026
, L0000027   , L0000028   , . . .   ,

                                        *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                     ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 - - -

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3751830.00 24.90905
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3751840.00 28.34517
391245.00 3751840.00 29.52499 391255.00
3751840.00 30.57271
391265.00 3751840.00 31.47522 391275.00
3751840.00 32.15637
391305.00 3751840.00 32.68877 391315.00
3751840.00 32.34047
391325.00 3751840.00 31.69076 391335.00
3751840.00 30.85032
391345.00 3751840.00 29.83392 391355.00
3751840.00 28.68644
391365.00 3751840.00 27.44139 391375.00
3751840.00 26.14594
391385.00 3751840.00 24.83356 391395.00
3751840.00 23.53252
391405.00 3751840.00 22.27317 391415.00
3751840.00 21.03772
391425.00 3751840.00 19.83857 391075.00
3751850.00 12.39515
391085.00 3751850.00 13.10089 391095.00
3751850.00 13.85656

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
391275.00	3751850.00	36.46940	391295.00	3751850.00	37.29855
391305.00	3751850.00	37.16682	391315.00	3751850.00	36.66753
391325.00	3751850.00	35.83252	391335.00		

3751850.00 34.73862
391345.00 3751850.00 33.42653 391355.00
3751850.00 31.96068
391365.00 3751850.00 30.39182 391375.00
3751850.00 28.77093
391385.00 3751850.00 27.15987 391395.00
3751850.00 25.58607
391405.00 3751850.00 24.07296 391415.00
3751850.00 22.62236
391425.00 3751850.00 21.23411 391075.00
3751860.00 12.83528
391085.00 3751860.00 13.59821 391095.00
3751860.00 14.42017
391105.00 3751860.00 15.31633 391115.00
3751860.00 16.27175
391135.00 3751860.00 18.43991 391145.00
3751860.00 19.70015
391155.00 3751860.00 21.03112 391165.00
3751860.00 22.47453
391175.00 3751860.00 24.02507 391185.00
3751860.00 25.67332
391195.00 3751860.00 27.42696 391205.00
3751860.00 29.29432
391215.00 3751860.00 31.22746 391225.00
3751860.00 33.20197
391235.00 3751860.00 35.20111 391245.00
3751860.00 37.18072
391255.00 3751860.00 38.98434 391265.00
3751860.00 40.55349
391275.00 3751860.00 41.78461 391295.00
3751860.00 42.93819
391305.00 3751860.00 42.74077 391315.00
3751860.00 42.07086
391325.00 3751860.00 40.96335 391335.00
3751860.00 39.51385
391345.00 3751860.00 37.78772 391355.00
3751860.00 35.87449
391365.00 3751860.00 33.86159 391375.00
3751860.00 31.81162
391385.00 3751860.00 29.78968 391395.00
3751860.00 27.86772
391405.00 3751860.00 26.05556 391415.00
3751860.00 24.34817
391425.00 3751860.00 22.73610 391075.00
3751870.00 13.27250
391085.00 3751870.00 14.09355 391095.00
3751870.00 14.98657
391105.00 3751870.00 15.96139 391115.00
3751870.00 17.01213
391135.00 3751870.00 19.42390 391145.00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0000001 , L0000002
, L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010
, L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018
, L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026
, L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS
***

** CONC OF PM_10 IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
391405.00	3751870.00	28.23903	391415.00	3751870.00	26.21909
391425.00	3751870.00	24.34789	391075.00	3751880.00	13.70272
391085.00	3751880.00	14.58464	391095.00	3751880.00	15.55101
391105.00	3751880.00	16.61349	391115.00	3751880.00	17.76853
391135.00	3751880.00	20.43159	391145.00	3751880.00	22.01355
391155.00	3751880.00	23.73115	391165.00	3751880.00	25.62689
391175.00	3751880.00	27.71382	391185.00	3751880.00	29.99304
391195.00	3751880.00	32.50723	391205.00	3751880.00	35.25370
391215.00	3751880.00	38.20066	391225.00	3751880.00	41.40521
391235.00	3751880.00	44.78445	391245.00	3751880.00	48.28600
391255.00	3751880.00	51.68575	391265.00	3751880.00	54.74554
391285.00	3751880.00	59.01446	391295.00	3751880.00	59.68253
391305.00	3751880.00	59.28287	391315.00	3751880.00	57.92714
391325.00	3751880.00	55.76357	391335.00	3751880.00	52.95956
391345.00	3751880.00	49.71433	391355.00	3751880.00	46.27213
391365.00	3751880.00	42.78650	391375.00	3751880.00	39.40619
391385.00	3751880.00	36.23290	391395.00	3751880.00	33.34469
391405.00	3751880.00	30.69660	391415.00	3751880.00	28.23968
391425.00	3751880.00	26.05020	391075.00	3751890.00	14.12866
391085.00	3751890.00	15.07731	391095.00	3751890.00	16.11442
391105.00	3751890.00	17.26314	391115.00	3751890.00	18.52414
391135.00	3751890.00	21.46146	391145.00	3751890.00	23.23727
391155.00	3751890.00	25.16781	391165.00	3751890.00	27.33090

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         391175.00    3751890.00       29.73155                      391185.00
3751890.00       32.40279
         391195.00    3751890.00       35.38892                      391205.00
3751890.00       38.73790
         391215.00    3751890.00       42.42222                      391225.00
3751890.00       46.54171
         391235.00    3751890.00       51.00988                      391245.00
3751890.00       55.80365
         391255.00    3751890.00       60.68856                      391285.00
3751890.00       71.75153
         391295.00    3751890.00       72.67460                      391305.00
3751890.00       72.07989
         391315.00    3751890.00       69.99549                      391325.00
3751890.00       66.79345
         391335.00    3751890.00       62.70034                      391345.00
3751890.00       58.06872
         391355.00    3751890.00       53.24516                      391365.00
3751890.00       48.53831
         391375.00    3751890.00       44.13560                      391385.00
3751890.00       40.11186
         391395.00    3751890.00       36.52485                      391405.00
3751890.00       33.30070
         391415.00    3751890.00       30.39185                      391425.00
3751890.00       27.85300
         391075.00    3751900.00       14.54180                      391085.00
3751900.00       15.55391
         391095.00    3751900.00       16.67231                      391105.00
3751900.00       17.91164
         391115.00    3751900.00       19.27466                      391135.00
3751900.00       22.49822
         391145.00    3751900.00       24.47314                      391155.00
3751900.00       26.64924
         391165.00    3751900.00       29.09558                      391175.00
3751900.00       31.86560
 *** AERMOD - VERSION 21112  ***   *** C:\Users\shalterman\Desktop\HRAs\Modera
Melrose\Spane_Con_HRA\Spane_ ***        10/25/22
 *** AERMET - VERSION  16216 ***   ***
                      ***       19:36:07

                                  PAGE  31
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL       ***
                                   INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                  L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                  L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
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L0000022 , L0000023 , L0000024 , L0000025 , L0000026
, L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS
***

** CONC OF PM_10 IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
391185.00	3751900.00	34.99431	391195.00	3751900.00	38.54066
391205.00	3751900.00	42.61428	391215.00	3751900.00	47.21576
391225.00	3751900.00	52.50326	391235.00	3751900.00	58.46758
391245.00	3751900.00	65.20815	391255.00	3751900.00	72.34897
391275.00	3751900.00	85.88351	391285.00	3751900.00	89.99651
391295.00	3751900.00	91.31868	391305.00	3751900.00	90.07490
391315.00	3751900.00	86.81949	391325.00	3751900.00	81.84294
391335.00	3751900.00	75.63260	391345.00	3751900.00	68.81779
391355.00	3751900.00	61.94126	391365.00	3751900.00	55.42597
391375.00	3751900.00	49.58814	391385.00	3751900.00	44.44319
391395.00	3751900.00	39.99583	391405.00	3751900.00	36.11556
391415.00	3751900.00	32.69252	391425.00	3751900.00	29.73525
391075.00	3751910.00	14.92197	391085.00	3751910.00	15.99344
391095.00	3751910.00	17.19569	391105.00	3751910.00	18.52622
391115.00	3751910.00	19.99733	391135.00	3751910.00	23.52611
391145.00	3751910.00	25.69590	391155.00	3751910.00	28.11439
391165.00	3751910.00	30.88454	391175.00	3751910.00	34.05658
391185.00	3751910.00	37.70536	391195.00	3751910.00	41.90973
391205.00	3751910.00	46.81864	391215.00		

3751910.00   52.52830
         391225.00   3751910.00   59.28275   391235.00
3751910.00   67.23135
         391245.00   3751910.00   76.68042   391275.00
3751910.00   111.47537
         391285.00   3751910.00   118.29637   391295.00
3751910.00   119.80877
         391305.00   3751910.00   117.24549   391315.00
3751910.00   111.70527
         391325.00   3751910.00   103.66267   391335.00
3751910.00   93.68987
         391345.00   3751910.00   83.06715   391355.00
3751910.00   72.78916
         391365.00   3751910.00   63.63556   391375.00
3751910.00   55.81550
         391385.00   3751910.00   49.24026   391395.00
3751910.00   43.77215
         391405.00   3751910.00   39.09402   391415.00
3751910.00   35.06469
         391425.00   3751910.00   31.67627   391325.00
3751920.00   138.44991
         391335.00   3751920.00   120.82521   391345.00
3751920.00   102.77926
         391355.00   3751920.00   86.40873   391365.00
3751920.00   73.16738
         391375.00   3751920.00   62.75505   391385.00
3751920.00   54.39495
         391395.00   3751920.00   47.71211   391405.00
3751920.00   42.21389
         391415.00   3751920.00   37.54432   391425.00
3751920.00   33.67842
         391075.00   3751930.00   15.63187   391085.00
3751930.00   16.81837
         391095.00   3751930.00   18.16017   391105.00
3751930.00   19.66736
         391115.00   3751930.00   21.35129   391135.00
3751930.00   25.48662
         391145.00   3751930.00   28.07455   391155.00
3751930.00   31.02323
         391165.00   3751930.00   34.48192   391175.00
3751930.00   38.55891
         391185.00   3751930.00   43.38048   391195.00
3751930.00   49.16334

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
391205.00	3751930.00	56.14555	391215.00	3751930.00	64.75728
391225.00	3751930.00	75.55780	391235.00	3751930.00	89.21066
391075.00	3751940.00	15.95791	391085.00	3751940.00	17.19949
391095.00	3751940.00	18.60964	391105.00	3751940.00	20.19935
391115.00	3751940.00	21.98891	391135.00	3751940.00	26.39328
391145.00	3751940.00	29.21230	391155.00	3751940.00	32.44541
391165.00	3751940.00	36.25404	391175.00	3751940.00	40.81163
391185.00	3751940.00	46.28002	391195.00	3751940.00	52.92392
391205.00	3751940.00	61.16694	391215.00	3751940.00	71.54495
391225.00	3751940.00	84.92870	391235.00	3751940.00	102.34322
391075.00	3751950.00	16.23047	391085.00	3751950.00	17.52069
391095.00	3751950.00	18.98487	391105.00	3751950.00	20.64330
391115.00	3751950.00	22.52979	391135.00	3751950.00	27.20609
391145.00	3751950.00	30.22803	391155.00	3751950.00	33.73550

391165.00 3751950.00 37.90648 391175.00
3751950.00 42.94291
391185.00 3751950.00 49.04847 391195.00
3751950.00 56.59166
391205.00 3751950.00 66.15210 391215.00
3751950.00 78.44411
391225.00 3751950.00 94.71686 391235.00
3751950.00 116.36583
391075.00 3751960.00 16.45419 391085.00
3751960.00 17.78586
391095.00 3751960.00 19.29936 391105.00
3751960.00 21.02334
391115.00 3751960.00 22.99206 391135.00
3751960.00 27.90553
391145.00 3751960.00 31.10149 391155.00
3751960.00 34.86664
391165.00 3751960.00 39.35678 391175.00
3751960.00 44.83475
391185.00 3751960.00 51.55834 391195.00
3751960.00 60.05228
391205.00 3751960.00 70.87655 391215.00
3751960.00 85.24165
391225.00 3751960.00 104.62588 391075.00
3751970.00 16.62587
391085.00 3751970.00 17.99155 391095.00
3751970.00 19.54778
391105.00 3751970.00 21.32694 391115.00
3751970.00 23.36280
391135.00 3751970.00 28.47539 391145.00
3751970.00 31.81843
391155.00 3751970.00 35.79559 391165.00
3751970.00 40.57382
391175.00 3751970.00 46.44605 391185.00
3751970.00 53.78376
391195.00 3751970.00 63.20689 391205.00
3751970.00 75.42321
391215.00 3751970.00 91.98934 391225.00
3751970.00 114.68300
391075.00 3751980.00 16.75176 391085.00
3751980.00 18.13964
391095.00 3751980.00 19.72512 391105.00
3751980.00 21.54138
391115.00 3751980.00 23.62093 391135.00
3751980.00 28.89149
391145.00 3751980.00 32.35316 391155.00
3751980.00 36.48866
391165.00 3751980.00 41.49282 391175.00
3751980.00 47.70733
391185.00 3751980.00 55.57856 391195.00
3751980.00 65.78328

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                           *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL ***
                           INCLUDING SOURCE(S): L0000001 , L0000002
, L0000003 , L0000004 , L0000005 ,
              L0000006 , L0000007 , L0000008 , L0000009 , L0000010
, L0000011 , L0000012 , L0000013 ,
              L0000014 , L0000015 , L0000016 , L0000017 , L0000018
, L0000019 , L0000020 , L0000021 ,
              L0000022 , L0000023 , L0000024 , L0000025 , L0000026
, L0000027 , L0000028 , . . . ,

                                 *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                 ** CONC OF PM_10 IN MICROGRAMS/M**3
              **

      X-COORD (M) Y-COORD (M) CONC X-COORD (M)
Y-COORD (M) CONC
 - - -

3752000.00 23.80622
391135.00 3752000.00 29.20787 391145.00
3752000.00 32.73973
391155.00 3752000.00 36.99179 391165.00
3752000.00 42.18137
391175.00 3752000.00 48.69961 391185.00
3752000.00 57.05570
391195.00 3752000.00 68.06707 391205.00
3752000.00 83.27183
391215.00 3752000.00 105.42780 391135.00
3752010.00 29.08945
391075.00 3752020.00 16.68554 391085.00
3752020.00 18.06323
391095.00 3752020.00 19.63582 391105.00
3752020.00 21.45016
391115.00 3752020.00 23.53201 391135.00
3752020.00 28.81631
391145.00 3752020.00 32.22663 391155.00
3752020.00 36.33055
391165.00 3752020.00 41.34238 391175.00
3752020.00 47.55720
391185.00 3752020.00 55.44392 391075.00
3752030.00 16.55951
391085.00 3752030.00 17.91292 391095.00
3752030.00 19.45475
391105.00 3752030.00 21.22245 391115.00
3752030.00 23.25142
391135.00 3752030.00 28.38572 391145.00
3752030.00 31.70672
391155.00 3752030.00 35.66043 391165.00
3752030.00 40.44913
391175.00 3752030.00 46.35372 391185.00
3752030.00 53.72751
391075.00 3752040.00 16.37204 391085.00
3752040.00 17.69209
391095.00 3752040.00 19.19079 391105.00
3752040.00 20.89691
391115.00 3752040.00 22.84975 391135.00
3752040.00 27.77929
391145.00 3752040.00 30.94128 391155.00
3752040.00 34.68682
391165.00 3752040.00 39.18542 391175.00
3752040.00 44.67827
391185.00 3752040.00 51.42993 391075.00
3752050.00 16.13243
391085.00 3752050.00 17.41191 391095.00
3752050.00 18.85933
391105.00 3752050.00 20.50330 391115.00
3752050.00 22.37396
391135.00 3752050.00 27.04558 391145.00

3752050.00   30.03152
         391155.00   3752050.00   33.53895   391165.00
3752050.00   37.70276
         391175.00   3752050.00   42.72100   391185.00
3752050.00   48.79341
         391135.00   3752060.00   26.21488   391145.00
3752060.00   29.01477
         391155.00   3752060.00   32.25913   391165.00
3752060.00   36.07393
         391175.00   3752060.00   40.59098   391185.00
3752060.00   45.98907

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                             *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL   ***
                                INCLUDING SOURCE(S):   L0000001   , L0000002
, L0000003   , L0000004   , L0000005   ,
                 L0000006   , L0000007   , L0000008   , L0000009   , L0000010
, L0000011   , L0000012   , L0000013   ,
                 L0000014   , L0000015   , L0000016   , L0000017   , L0000018
, L0000019   , L0000020   , L0000021   ,
                 L0000022   , L0000023   , L0000024   , L0000025   , L0000026
, L0000027   , L0000028   , . . .   ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 -
- -
         391135.00   3752070.00   25.30291   391145.00
3752070.00   27.88848
         391155.00   3752070.00   30.85921   391135.00
3752080.00   24.33644
         391145.00   3752080.00   26.67296   391155.00
3752080.00   29.35458
         391235.00   3752120.00   46.15334   391245.00
3752120.00   50.08679
         391255.00   3752120.00   54.08644   391265.00
3752120.00   58.06188

391275.00 3752120.00 61.68765 391285.00
3752120.00 64.60337
391295.00 3752120.00 66.58547 391305.00
3752120.00 67.40049
391315.00 3752120.00 66.97853 391325.00
3752120.00 65.40848
391335.00 3752120.00 62.76053 391345.00
3752120.00 59.36045
391355.00 3752120.00 55.45941 391365.00
3752120.00 51.35581
391375.00 3752120.00 47.28323 391385.00
3752120.00 43.41180
391395.00 3752120.00 39.80330 391405.00
3752120.00 36.48295
391415.00 3752120.00 33.48715 391425.00
3752120.00 30.78624
391235.00 3752130.00 41.08178 391245.00
3752130.00 44.10931
391255.00 3752130.00 47.11674 391265.00
3752130.00 50.04170
391275.00 3752130.00 52.67494 391285.00
3752130.00 54.76681
391295.00 3752130.00 56.23157 391305.00
3752130.00 56.85746
391315.00 3752130.00 56.61946 391325.00
3752130.00 55.58493
391335.00 3752130.00 53.75675 391345.00
3752130.00 51.41163
391355.00 3752130.00 48.59350 391365.00
3752130.00 45.55730
391375.00 3752130.00 42.43652 391385.00
3752130.00 39.41838
391395.00 3752130.00 36.50832 391405.00
3752130.00 33.74569
391415.00 3752130.00 31.22192 391425.00
3752130.00 28.90370
391235.00 3752140.00 36.76734 391245.00
3752140.00 39.14643
391255.00 3752140.00 41.45737 391265.00
3752140.00 43.65066
391275.00 3752140.00 45.62709 391285.00
3752140.00 47.19992
391295.00 3752140.00 48.28750 391305.00
3752140.00 48.78229
391315.00 3752140.00 48.64231 391325.00
3752140.00 47.93129
391335.00 3752140.00 46.64554 391345.00
3752140.00 45.00533
391355.00 3752140.00 42.90424 391365.00
3752140.00 40.62999

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         391375.00    3752140.00       38.21291                      391385.00
3752140.00       35.84048
         391395.00    3752140.00       33.48576                      391405.00
3752140.00       31.20252
         391415.00    3752140.00       29.08175                      391425.00
3752140.00       27.09680
         391235.00    3752150.00       33.08831                      391245.00
3752150.00       34.98025
         391255.00    3752150.00       36.79300                      391265.00
3752150.00       38.48136
         391275.00    3752150.00       39.99079                      391285.00
3752150.00       41.19567
         391295.00    3752150.00       42.02895                      391305.00
3752150.00       42.42610
         391315.00    3752150.00       42.35840                      391325.00
3752150.00       41.86001
         391335.00    3752150.00       40.92865                      391345.00
3752150.00       39.73165
         391355.00    3752150.00       38.15428                      391365.00
3752150.00       36.42911
 *** AERMOD - VERSION 21112  ***   *** C:\Users\shalterman\Desktop\HRAs\Modera
Melrose\Spane_Con_HRA\Spane_ ***        10/25/22
 *** AERMET - VERSION  16216 ***   ***
                      ***       19:36:07

                                  PAGE  35
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL       ***
                                  INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                  L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                  L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                  L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,

                                              *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                           ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                          X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         391375.00    3752150.00       34.54256                      391385.00
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3752150.00 32.64856
391395.00 3752150.00 30.74704 391405.00
3752150.00 28.85659
391415.00 3752150.00 27.07622 391425.00
3752150.00 25.38212
391235.00 3752160.00 29.92521 391245.00
3752160.00 31.44852
391255.00 3752160.00 32.88514 391265.00
3752160.00 34.21338
391275.00 3752160.00 35.38148 391285.00
3752160.00 36.32929
391295.00 3752160.00 36.97572 391305.00
3752160.00 37.31474
391315.00 3752160.00 37.30224 391325.00
3752160.00 36.95342
391335.00 3752160.00 36.25879 391345.00
3752160.00 35.34527
391355.00 3752160.00 34.15921 391365.00
3752160.00 32.82472
391375.00 3752160.00 31.35600 391385.00
3752160.00 29.83026
391395.00 3752160.00 28.28185 391405.00
3752160.00 26.70790
391415.00 3752160.00 25.20950 391425.00
3752160.00 23.76507
391245.00 3752170.00 28.43260 391255.00
3752170.00 29.59740
391265.00 3752170.00 30.65104 391275.00
3752170.00 31.58189
391285.00 3752170.00 32.34302 391295.00
3752170.00 32.84847
391305.00 3752170.00 33.12052 391315.00
3752170.00 33.14373
391325.00 3752170.00 32.89289 391335.00
3752170.00 32.36811
391345.00 3752170.00 31.66486 391355.00
3752170.00 30.77004
391365.00 3752170.00 29.72940 391375.00
3752170.00 28.56756
391385.00 3752170.00 27.32997 391395.00
3752170.00 26.06439
391405.00 3752170.00 24.74827 391415.00
3752170.00 23.48487
391425.00 3752170.00 22.25282 391245.00
3752180.00 25.84509
391255.00 3752180.00 26.79399 391265.00
3752180.00 27.64581
391275.00 3752180.00 28.40147 391285.00
3752180.00 29.01189
391295.00 3752180.00 29.39044 391305.00

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
391405.00	3752190.00	21.34966	391415.00	3752190.00	20.44615
391425.00	3752190.00	19.54215	391245.00	3752200.00	21.65092
391255.00	3752200.00	22.30501	391265.00	3752200.00	22.88701
391275.00	3752200.00	23.38869	391285.00	3752200.00	23.80389
391295.00	3752200.00	24.06379	391305.00	3752200.00	24.22177
391315.00	3752200.00	24.25103	391325.00	3752200.00	24.17934
391335.00	3752200.00	23.96324	391345.00	3752200.00	23.63869
391355.00	3752200.00	23.19483	391365.00	3752200.00	22.66291
391375.00	3752200.00	22.02884	391385.00	3752200.00	21.35454
391395.00	3752200.00	20.64287	391405.00	3752200.00	19.87738
391415.00	3752200.00	19.10978	391425.00	3752200.00	18.33477
391255.00	3752210.00	20.48748	391265.00	3752210.00	20.97693
391275.00	3752210.00	21.39423	391285.00	3752210.00	21.73586
391295.00	3752210.00	21.96354	391305.00	3752210.00	22.09902
391315.00	3752210.00	22.13535	391325.00	3752210.00	22.08251
391335.00	3752210.00	21.91474	391345.00	3752210.00	21.65883
391355.00	3752210.00	21.29515	391365.00	3752210.00	20.86301
391375.00	3752210.00	20.34493	391385.00	3752210.00	19.78452
391395.00	3752210.00	19.18688	391405.00	3752210.00	18.53734
391415.00	3752210.00	17.88311	391425.00	3752210.00	17.21761
391255.00	3752220.00	18.89556	391265.00	3752220.00	19.30820

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         391275.00    3752220.00       19.65785                      391285.00
3752220.00       19.95192
         391295.00    3752220.00       20.14804                      391305.00
3752220.00       20.26463
         391315.00    3752220.00       20.30009                      391325.00
3752220.00       20.26171
         391335.00    3752220.00       20.12843                      391345.00
3752220.00       19.92269
         391355.00    3752220.00       19.62475                      391365.00
3752220.00       19.26672
         391375.00    3752220.00       18.84376                      391385.00
3752220.00       18.37456
         391395.00    3752220.00       17.86857                      391405.00
3752220.00       17.31928
         391415.00    3752220.00       16.76092                      391425.00
3752220.00       16.18571
         391255.00    3752230.00       17.48992                      391265.00
3752230.00       17.84172
         391275.00    3752230.00       18.14033                      391285.00
3752230.00       18.37964
         391295.00    3752230.00       18.55421                      391305.00
3752230.00       18.66164
         391315.00    3752230.00       18.69815                      391325.00
3752230.00       18.66664
         391335.00    3752230.00       18.56474                      391345.00
3752230.00       18.39198
         391355.00    3752230.00       18.15445                      391365.00
3752230.00       17.85608
         391375.00    3752230.00       17.50208                      391385.00
3752230.00       17.10580
         391395.00    3752230.00       16.67500                      391405.00
3752230.00       16.21316
         391415.00    3752230.00       15.73189                      391425.00
3752230.00       15.23391
 *** AERMOD - VERSION 21112  ***   *** C:\Users\shalterman\Desktop\HRAs\Modera
Melrose\Spane_Con_HRA\Spane_ ***        10/25/22
 *** AERMET - VERSION  16216 ***   ***
                      ***       19:36:07

                                  PAGE  37
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                  INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                  L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                  L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
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L0000022 , L0000023 , L0000024 , L0000025 , L0000026
, L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS
***

** CONC OF PM_10 IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
390780.00	3751525.00	8.76854	(10020516)	390830.00	3751525.00	8.40856	(10020516)
390880.00	3751525.00	9.46299	(16050618)	390930.00	3751525.00	11.34255	(16050618)
390980.00	3751525.00	12.58115	(16050618)	391030.00	3751525.00	12.68467	(16050618)
391080.00	3751525.00	11.37020	(16050618)	391130.00	3751525.00	11.09430	(15092707)
391180.00	3751525.00	11.65917	(15092707)	391230.00	3751525.00	12.05810	(15092707)
391280.00	3751525.00	12.25208	(15092707)	391330.00	3751525.00	12.21207	(15092707)
391380.00	3751525.00	11.95194	(15092707)	391430.00	3751525.00	11.49492	(15092707)
391480.00	3751525.00	10.89260	(15092707)	391530.00	3751525.00	10.19305	(15092707)
391580.00	3751525.00	9.45534	(15092707)	391630.00	3751525.00	9.24675	(11111016)
391680.00	3751525.00	9.18990	(11111016)	391730.00	3751525.00	8.23960	(11111016)
391780.00	3751525.00	6.79023	(11111016)	390780.00	3751575.00	10.64626	(10020516)
390830.00	3751575.00	10.95328	(10020516)	390880.00	3751575.00	10.61144	(10020516)
390930.00	3751575.00	11.82228	(16050618)	390980.00	3751575.00	14.15400	(16050618)
391030.00	3751575.00	15.42264	(16050618)	391080.00	3751575.00	14.91972	(16050618)
391130.00	3751575.00	13.09328	(15092707)	391180.00	3751575.00	13.91747	(15092707)
391230.00	3751575.00	14.51414	(15092707)	391280.00	3751575.00	14.80602	(15092707)
391330.00	3751575.00	14.74705	(15092707)	391380.00	3751575.00	14.35491	(15092707)
391430.00	3751575.00	13.67618	(15092707)	391480.00	3751575.00	12.80072	(15092707)
391530.00	3751575.00	11.81819	(15092707)	391580.00			

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3751575.00       10.98401  (11111016)
        391630.00   3751575.00       11.17951  (11111016)                391680.00
3751575.00       10.06447  (11111016)
        391730.00   3751575.00        8.29957  (12101115)                391780.00
3751575.00        8.73395  (12101115)
        390780.00   3751625.00       12.93231  (11032317)                390830.00
3751625.00       13.29517  (10020516)
        390880.00   3751625.00       13.96336  (10020516)                390930.00
3751625.00       13.72197  (10020516)
        390980.00   3751625.00       15.14459  (16050618)                391030.00
3751625.00       18.06584  (16050618)
        391080.00   3751625.00       19.15069  (16050618)                391130.00
3751625.00       17.39335  (16050618)
        391180.00   3751625.00       16.93901  (15092707)                391230.00
3751625.00       17.87496  (15092707)
        391280.00   3751625.00       18.34103  (15092707)                391330.00
3751625.00       18.25102  (15092707)
        391380.00   3751625.00       17.62406  (15092707)                391430.00
3751625.00       16.57114  (15092707)
        391480.00   3751625.00       15.25886  (15092707)                391530.00
3751625.00       13.83914  (15092707)
        391580.00   3751625.00       13.87333  (11111016)                391630.00
3751625.00       12.57110  (11111016)
        391680.00   3751625.00       10.45756  (12101115)                391730.00
3751625.00       10.83030  (12101115)
        391780.00   3751625.00       10.50030  (12101115)                390780.00
3751675.00       15.91123  (11032317)
        390830.00   3751675.00       16.56469  (11032317)                390880.00
3751675.00       16.91306  (10020516)
        390930.00   3751675.00       18.26735  (10020516)                390980.00
3751675.00       18.28085  (10020516)
        391030.00   3751675.00       20.03232  (16050618)                391080.00
3751675.00       23.69874  (16050618)
        391130.00   3751675.00       24.01205  (16050618)                391180.00
3751675.00       21.11384  (15092707)
        391230.00   3751675.00       22.66659  (15092707)                391280.00
3751675.00       23.46954  (15092707)
        391330.00   3751675.00       23.31997  (15092707)                391380.00
3751675.00       22.25709  (15092707)
        391430.00   3751675.00       20.53276  (11010516)                391480.00
3751675.00       18.46253  (15092707)
        391530.00   3751675.00       17.66914  (11111016)                391580.00
3751675.00       16.17399  (11111016)
 *** AERMOD - VERSION 21112  ***   *** C:\Users\shalterman\Desktop\HRAs\Modera
Melrose\Spane_Con_HRA\Spane_ ***        10/25/22
 *** AERMET - VERSION  16216 ***   ***
                       ***        19:36:07

                                  PAGE  38
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
391630.00	3751675.00	13.55550	(12101115)	391680.00	3751675.00	13.73543	(12101115)
391730.00	3751675.00	12.93114	(12101115)	391780.00	3751675.00	11.53866	(12101115)
390780.00	3751725.00	17.46597	(11032317)	390830.00	3751725.00	19.74435	(11032317)
390880.00	3751725.00	21.47728	(11032317)	390930.00	3751725.00	22.14536	(11032317)
390980.00	3751725.00	24.66482	(10020516)	391030.00	3751725.00	25.35955	(10020516)
391080.00	3751725.00	27.63831	(16050618)	391130.00	3751725.00	32.11772	(16050618)
391180.00	3751725.00	30.12364	(16050618)	391230.00	3751725.00	29.87931	(15092707)
391280.00	3751725.00	31.39398	(15092707)	391330.00	3751725.00	31.10300	(15092707)
391380.00	3751725.00	29.51443	(11010516)	391430.00	3751725.00	26.07974	(15092707)
391530.00	3751725.00	21.63969	(11111016)	391580.00	3751725.00	18.25979	(12101115)
391630.00	3751725.00	17.93048	(12101115)	391680.00	3751725.00	16.22184	(12101115)
391730.00	3751725.00	14.49018	(12122216)	391780.00	3751725.00	13.01421	(12122216)
390780.00	3751775.00	16.80905	(11032317)	390830.00	3751775.00	20.53010	(11032317)
390880.00	3751775.00	24.48361	(11032317)	390930.00	3751775.00	28.18056	(11032317)

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        390980.00   3751775.00       30.80981  (11032317)                391030.00
3751775.00       34.73700  (10020516)
        391080.00   3751775.00       37.18151  (10020516)                391130.00
3751775.00       40.41177  (16050618)
        391180.00   3751775.00       45.31563  (16050618)                391230.00
3751775.00       41.51813  (15092707)
        391280.00   3751775.00       44.76849  (15092707)                391330.00
3751775.00       44.15910  (15092707)
        391380.00   3751775.00       41.60127  (11010516)                391430.00
3751775.00       35.17592  (10031908)
        391580.00   3751775.00       24.28728  (12101115)                391630.00
3751775.00       21.27269  (12122216)
        391680.00   3751775.00       18.89646  (12122216)                391730.00
3751775.00       16.04201  (12122216)
        391780.00   3751775.00       13.20581  (12122216)                390780.00
3751825.00       13.90272  (11032317)
        390830.00   3751825.00       18.20249  (11032317)                390880.00
3751825.00       23.60081  (11032317)
        390930.00   3751825.00       30.09163  (11032317)                390980.00
3751825.00       37.32853  (11032317)
        391030.00   3751825.00       44.19166  (11032317)                391080.00
3751825.00       51.78865  (10020516)
        391180.00   3751825.00       64.55693  (16050618)                391230.00
3751825.00       66.58306  (16050618)
        391280.00   3751825.00       70.86580  (15092707)                391330.00
3751825.00       69.21488  (15092707)
        391380.00   3751825.00       59.90931  (11010516)                391580.00
3751825.00       30.05880  (12122216)
        391630.00   3751825.00       24.66095  (12122216)                391680.00
3751825.00       19.47747  (12122216)
        391730.00   3751825.00       16.07192  (11102516)                391780.00
3751825.00       14.18567  (11102516)
        390780.00   3751875.00       10.03312  (15092707)                390830.00
3751875.00       13.40963  (11032317)
        390880.00   3751875.00       18.66181  (11032317)                390930.00
3751875.00       25.98549  (11032317)
        390980.00   3751875.00       36.08585  (11032317)                391030.00
3751875.00       49.42304  (11032317)
        391080.00   3751875.00       65.67050  (11032317)                391180.00
3751875.00      107.51147  (10020516)
        391230.00   3751875.00      120.34950  (16050618)                391330.00
3751875.00      129.86649  (15092707)
        391380.00   3751875.00       95.50795  (10031908)                391430.00
3751875.00       69.52434  (12101115)
        391580.00   3751875.00       34.28806  (11102516)                391630.00
3751875.00       28.39208  (11102516)
        391680.00   3751875.00       23.63651  (11102516)                391730.00
3751875.00       19.82281  (11102516)
        391780.00   3751875.00       16.76388  (11102516)                390780.00
3751925.00       10.33190  (15092707)
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
390930.00	3751925.00	18.88056	(11061908)	390980.00	3751925.00	26.33894	(11032317)
391080.00	3751925.00	63.58458	(11032317)	391380.00	3751925.00	175.05086	(11102516)
391580.00	3751925.00	43.96811	(11102516)	391630.00	3751925.00	34.01272	(11102516)
391680.00	3751925.00	26.86741	(11102516)	391730.00	3751925.00	21.70817	(11102516)
391780.00	3751925.00	17.83455	(11102516)	390780.00	3751975.00	14.77648	(15122816)
390830.00	3751975.00	18.04993	(15122816)	390880.00	3751975.00	22.45244	(15122816)
390930.00	3751975.00	28.57342	(15122816)	390980.00	3751975.00	37.37383	(15122816)
391030.00	3751975.00	50.75539	(15122816)	391080.00	3751975.00	72.50041	(15122816)
391180.00	3751975.00	191.19374	(15122816)	391580.00	3751975.00	45.79200	(11102516)
391630.00	3751975.00	35.05161	(16020517)	391680.00			

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3751975.00       27.84121  (16020517)
        391730.00   3751975.00       22.67796  (16020517)                391780.00
3751975.00       18.83169  (16020517)
        390780.00   3752025.00       19.91541  (15122816)                390830.00
3752025.00       24.49452  (15122816)
        390880.00   3752025.00       30.68856  (15122816)                390930.00
3752025.00       39.34615  (15122816)
        390980.00   3752025.00       51.85490  (15122816)                391030.00
3752025.00       70.89327  (15122816)
        391080.00   3752025.00      101.74913  (15122816)                391180.00
3752025.00      266.61422  (15122816)
        391530.00   3752025.00       64.10803  (16020517)                391580.00
3752025.00       47.40705  (16020517)
        391630.00   3752025.00       36.50353  (16020517)                391680.00
3752025.00       28.98088  (16020517)
        391730.00   3752025.00       23.58025  (16020517)                391780.00
3752025.00       19.57272  (16020517)
        390780.00   3752075.00       24.21183  (15122816)                390830.00
3752075.00       28.36046  (15122816)
        390880.00   3752075.00       34.99775  (15122816)                390930.00
3752075.00       43.89498  (15122816)
        390980.00   3752075.00       56.00531  (15122816)                391030.00
3752075.00       73.00344  (15122816)
        391580.00   3752075.00       46.16240  (12101116)                391630.00
3752075.00       34.12981  (12101116)
        391680.00   3752075.00       25.67104  (12101116)                391730.00
3752075.00       21.10333  (16020517)
        391780.00   3752075.00       17.83968  (16020517)                390780.00
3752125.00       24.12130  (15122816)
        390830.00   3752125.00       29.21160  (15122816)                390880.00
3752125.00       33.99264  (15122816)
        390930.00   3752125.00       40.41712  (15122816)                390980.00
3752125.00       48.40163  (15122816)
        391030.00   3752125.00       57.63437  (15122816)                391230.00
3752125.00      176.79040  (16121116)
        391280.00   3752125.00      391.13931  (10011716)                391330.00
3752125.00      351.49023  (10011716)
        391380.00   3752125.00      174.79948  (11091107)                391430.00
3752125.00      153.16256  (11091107)
        391530.00   3752125.00       66.48816  (11091107)                391580.00
3752125.00       45.54265  (12101116)
        391630.00   3752125.00       36.95909  (12101116)                391680.00
3752125.00       29.79409  (12101116)
        391730.00   3752125.00       24.00153  (12101116)                391780.00
3752125.00       19.39224  (12101116)
        390780.00   3752175.00       22.14357  (15122816)                390830.00
3752175.00       25.00473  (15122816)
        390880.00   3752175.00       28.23606  (15122816)                390930.00
3752175.00       31.49502  (15122816)
        390980.00   3752175.00       44.42599  (11112015)                391030.00
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391530.00 3752225.00 61.41655 (11091107) 391580.00
3752225.00 53.61659 (11091107)
391630.00 3752225.00 41.90566 (11091107) 391680.00
3752225.00 30.81813 (11091107)
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3752225.00 18.89606 (12101116)
390780.00 3752275.00 17.94392 (11112015) 390830.00
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390880.00 3752275.00 30.47776 (11112015) 390930.00
3752275.00 36.69214 (11112015)
390980.00 3752275.00 40.60932 (11112015) 391030.00
3752275.00 40.20858 (11112015)
391080.00 3752275.00 33.99105 (11112015) 391130.00
3752275.00 43.62863 (15090407)
391180.00 3752275.00 57.48515 (16121116) 391230.00
3752275.00 77.11200 (10022717)
391280.00 3752275.00 116.46618 (10011716) 391330.00
3752275.00 113.10246 (10011716)
391380.00 3752275.00 68.28631 (11121816) 391430.00
3752275.00 48.33812 (12120216)
391480.00 3752275.00 41.02224 (10020916) 391530.00
3752275.00 41.81374 (11091107)
391580.00 3752275.00 44.36535 (11091107) 391630.00
3752275.00 40.72937 (11091107)
391680.00 3752275.00 34.00636 (11091107) 391730.00
3752275.00 26.23524 (11091107)
391780.00 3752275.00 19.23646 (11091107) 390780.00
3752325.00 22.40207 (11112015)
390830.00 3752325.00 25.48198 (11112015) 390880.00
3752325.00 29.18446 (11112015)
390930.00 3752325.00 32.36936 (11112015) 390980.00
3752325.00 29.88405 (11112015)
391030.00 3752325.00 25.15484 (11112015) 391080.00
3752325.00 30.42493 (15090407)
391130.00 3752325.00 37.70063 (16121116) 391180.00
3752325.00 45.64498 (16121116)
391230.00 3752325.00 61.93158 (10022717) 391280.00
3752325.00 89.48226 (10011716)
391330.00 3752325.00 87.85319 (10011716) 391380.00
3752325.00 56.77262 (10011716)
391430.00 3752325.00 41.49417 (12120216) 391480.00
3752325.00 35.15220 (10020916)
391530.00 3752325.00 28.76750 (10032918) 391580.00
3752325.00 31.43471 (11091107)
391630.00 3752325.00 34.16341 (11091107) 391680.00
3752325.00 31.96600 (11091107)
391730.00 3752325.00 27.83867 (11091107) 391780.00
3752325.00 22.63530 (11091107)
390780.00 3752375.00 21.47574 (11112015) 390830.00
3752375.00 23.74747 (11112015)

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        390880.00   3752375.00       24.41086  (11112015)               390930.00
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        390980.00   3752375.00       19.37264  (11112015)               391030.00
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3752375.00       33.11032  (16121116)
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3752375.00       50.80072  (10011716)
        391280.00   3752375.00       72.05439  (10011716)               391330.00
3752375.00       70.50673  (10011716)
        391380.00   3752375.00       49.13563  (10011716)               391430.00
3752375.00       34.52086  (12120216)
        391480.00   3752375.00       28.56341  (12120216)               391530.00
3752375.00       26.34637  (10020916)
        391580.00   3752375.00       21.98233  (10122915)               391630.00
3752375.00       24.18823  (11091107)
        391680.00   3752375.00       26.25845  (11091107)               391730.00
3752375.00       25.70960  (11091107)
        391780.00   3752375.00       23.17301  (11091107)               390780.00
3752425.00       19.55322  (11112015)
 *** AERMOD - VERSION 21112  ***   *** C:\Users\shalterman\Desktop\HRAs\Modera
Melrose\Spane_Con_HRA\Spane_ ***        10/25/22
 *** AERMET - VERSION  16216 ***   ***
                      ***        19:36:07

                                   PAGE  41
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                   INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                  L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                  L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                  L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                              ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -
        390830.00   3752425.00       20.65661  (11112015)               390880.00
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3752425.00 18.25343 (11112015)
390930.00 3752425.00 15.33498 (11112015) 390980.00
3752425.00 18.52731 (10082907)
391030.00 3752425.00 20.57175 (10122316) 391080.00
3752425.00 23.51931 (16121116)
391130.00 3752425.00 28.27087 (16121116) 391180.00
3752425.00 35.07568 (10022717)
391230.00 3752425.00 43.45030 (10011716) 391280.00
3752425.00 58.65458 (10011716)
391330.00 3752425.00 58.00151 (10011716) 391380.00
3752425.00 42.74810 (10011716)
391430.00 3752425.00 31.11097 (11121816) 391480.00
3752425.00 26.06316 (12120216)
391530.00 3752425.00 22.77238 (10020916) 391580.00
3752425.00 19.92289 (10032918)
391630.00 3752425.00 17.59514 (10122915) 391680.00
3752425.00 19.32618 (11091107)
391730.00 3752425.00 21.20336 (11091107) 391780.00
3752425.00 21.12769 (11091107)
390780.00 3752475.00 16.41951 (11112015) 390830.00
3752475.00 14.81423 (11112015)
390880.00 3752475.00 12.44916 (11112015) 390930.00
3752475.00 13.59693 (10082907)
390980.00 3752475.00 15.76765 (10122316) 391030.00
3752475.00 18.59764 (10122316)
391080.00 3752475.00 21.47171 (16121116) 391130.00
3752475.00 23.73585 (16121116)
391180.00 3752475.00 31.29715 (10022717) 391230.00
3752475.00 37.37895 (10011716)
391280.00 3752475.00 48.96147 (10011716) 391330.00
3752475.00 48.65324 (10011716)
391380.00 3752475.00 37.43143 (10011716) 391430.00
3752475.00 28.02992 (11121816)
391480.00 3752475.00 23.10810 (12120216) 391530.00
3752475.00 18.99938 (12120216)
391580.00 3752475.00 18.20201 (10020916) 391630.00
3752475.00 15.51728 (10032918)
391680.00 3752475.00 14.33296 (10122915) 391730.00
3752475.00 15.75141 (11091107)
391780.00 3752475.00 17.34620 (11091107) 390780.00
3752525.00 12.52349 (11112015)
390830.00 3752525.00 10.28073 (11112015) 390880.00
3752525.00 11.74001 (10082907)
390930.00 3752525.00 12.90120 (10082907) 390980.00
3752525.00 14.94667 (10122316)
391030.00 3752525.00 16.12670 (10122316) 391080.00
3752525.00 19.13157 (16121116)
391130.00 3752525.00 20.94395 (10022717) 391180.00
3752525.00 27.60705 (10022717)
391230.00 3752525.00 32.57525 (10011716) 391280.00

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3752525.00       41.55637  (10011716)
        391330.00   3752525.00       41.45502  (10011716)                391380.00
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        391430.00   3752525.00       25.15827  (11121816)                391480.00
3752525.00       20.09473  (12120216)
        391530.00   3752525.00       17.95231  (12120216)                391580.00
3752525.00       15.92331  (10020916)
        391630.00   3752525.00       14.57054  (10020916)                391680.00
3752525.00       12.81822  (10122915)
        391730.00   3752525.00       11.89255  (10122915)                391780.00
3752525.00       13.11576  (11091107)
        391075.00   3751820.00       49.59885  (10020516)                391085.00
3751820.00       51.39827  (10020516)
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3751820.00       55.70086  (10020516)
        391165.00   3751820.00       58.26727  (16050618)                391175.00
3751820.00       61.29715  (16050618)
        391185.00   3751820.00       63.73017  (16050618)                391195.00
3751820.00       65.36542  (16050618)
        391205.00   3751820.00       66.08830  (16050618)                391215.00
3751820.00       65.66981  (16050618)
        391225.00   3751820.00       63.98710  (16050618)                391235.00
3751820.00       61.01312  (16050618)
        391245.00   3751820.00       62.49101  (15092707)                391255.00
3751820.00       64.22904  (15092707)
♠ *** AERMOD - VERSION 21112  ***   *** C:\Users\shalterman\Desktop\HRAs\Modera
Melrose\Spane_Con_HRA\Spane_ ***        10/25/22
 *** AERMET - VERSION  16216 ***   ***
                      ***        19:36:07

                                   PAGE  42
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                   INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***
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** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
391265.00	3751820.00	65.68302	(15092707)	391275.00	3751820.00	66.83003	(15092707)
391285.00	3751820.00	67.58324	(15092707)	391315.00	3751820.00	67.28549	(15092707)
391325.00	3751820.00	66.38234	(15092707)	391335.00	3751820.00	65.09224	(15092707)
391345.00	3751820.00	65.05736	(11010516)	391355.00	3751820.00	64.07666	(11010516)
391365.00	3751820.00	62.11937	(11010516)	391375.00	3751820.00	59.35930	(11010516)
391385.00	3751820.00	55.98131	(11010516)	391395.00	3751820.00	54.38068	(10031908)
391405.00	3751820.00	52.52148	(10031908)	391415.00	3751820.00	50.19704	(10031908)
391425.00	3751820.00	47.51220	(10031908)	391305.00	3751830.00	75.53020	(15092707)
391315.00	3751830.00	74.89575	(15092707)	391325.00	3751830.00	73.71344	(15092707)
391335.00	3751830.00	72.38087	(11010516)	391345.00	3751830.00	72.07903	(11010516)
391355.00	3751830.00	70.47845	(11010516)	391365.00	3751830.00	67.77538	(11010516)
391375.00	3751830.00	64.19880	(11010516)	391385.00	3751830.00	61.23619	(10031908)
391395.00	3751830.00	59.25036	(10031908)	391405.00	3751830.00	56.63174	(10031908)
391415.00	3751830.00	53.56647	(10031908)	391425.00	3751830.00	50.19524	(10031908)
391075.00	3751840.00	54.07715	(11032317)	391085.00	3751840.00	56.44978	(10020516)
391095.00	3751840.00	59.21711	(10020516)	391105.00	3751840.00	61.84435	(10020516)
391115.00	3751840.00	64.27208	(10020516)	391135.00	3751840.00	68.21477	(10020516)
391145.00	3751840.00	69.55769	(10020516)	391155.00	3751840.00	70.35768	(10020516)
391165.00	3751840.00	70.51685	(10020516)	391175.00	3751840.00	69.93562	(10020516)
391185.00	3751840.00	72.43322	(16050618)	391195.00	3751840.00	76.19154	(16050618)
391205.00	3751840.00	79.01198	(16050618)	391215.00	3751840.00	80.55582	(16050618)

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        391225.00   3751840.00       80.54613  (16050618)               391235.00
3751840.00       78.75763  (16050618)
        391245.00   3751840.00       76.23869  (15092707)               391255.00
3751840.00       79.00163  (15092707)
        391265.00   3751840.00       81.38142  (15092707)               391275.00
3751840.00       83.22345  (15092707)
        391305.00   3751840.00       84.86145  (15092707)               391315.00
3751840.00       84.02598  (15092707)
        391325.00   3751840.00       82.47066  (15092707)               391335.00
3751840.00       81.03961  (11010516)
        391345.00   3751840.00       80.12502  (11010516)               391355.00
3751840.00       77.69502  (11010516)
        391365.00   3751840.00       74.02802  (11010516)               391375.00
3751840.00       69.43087  (11010516)
        391385.00   3751840.00       67.32036  (10031908)               391395.00
3751840.00       64.41751  (10031908)
        391405.00   3751840.00       60.87432  (10031908)               391415.00
3751840.00       56.93233  (10031908)
        391425.00   3751840.00       52.85734  (11111016)               391075.00
3751850.00       57.58381  (11032317)
        391085.00   3751850.00       59.36083  (11032317)               391095.00
3751850.00       61.70739  (10020516)
        391105.00   3751850.00       65.02297  (10020516)               391115.00
3751850.00       68.22348  (10020516)
        391135.00   3751850.00       73.92618  (10020516)               391145.00
3751850.00       76.24325  (10020516)
        391155.00   3751850.00       78.05980  (10020516)               391165.00
3751850.00       79.25220  (10020516)
        391175.00   3751850.00       79.68932  (10020516)               391185.00
3751850.00       79.23275  (10020516)
        391195.00   3751850.00       81.63541  (16050618)               391205.00
3751850.00       85.87305  (16050618)
        391215.00   3751850.00       88.83957  (16050618)               391225.00
3751850.00       90.20320  (16050618)
        391235.00   3751850.00       89.53920  (16050618)               391245.00
3751850.00       86.61673  (16050618)
        391255.00   3751850.00       88.60981  (15092707)               391265.00
3751850.00       91.70222  (15092707)
 *** AERMOD - VERSION 21112  ***   *** C:\Users\shalterman\Desktop\HRAs\Modera
Melrose\Spane_Con_HRA\Spane_ ***        10/25/22
 *** AERMET - VERSION  16216 ***   ***
                      ***        19:36:07

                                 PAGE  43
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                             *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                 INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
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                L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                      ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        391275.00   3751850.00       94.13885  (15092707)               391295.00
3751850.00       96.50014  (15092707)
        391305.00   3751850.00       96.27993  (15092707)               391315.00
3751850.00       95.11829  (15092707)
        391325.00   3751850.00       93.09081  (15092707)               391335.00
3751850.00       91.14356  (11010516)
        391345.00   3751850.00       89.36942  (11010516)               391355.00
3751850.00       85.83064  (11010516)
        391365.00   3751850.00       80.91637  (11010516)               391375.00
3751850.00       77.05074  (10031908)
        391385.00   3751850.00       73.85003  (10031908)               391395.00
3751850.00       69.78525  (10031908)
        391405.00   3751850.00       65.15012  (10031908)               391415.00
3751850.00       60.20688  (10031908)
        391425.00   3751850.00       55.67894  (15092707)               391075.00
3751860.00       60.61674  (11032317)
        391085.00   3751860.00       63.04250  (11032317)               391095.00
3751860.00       65.32619  (11032317)
        391105.00   3751860.00       67.67374  (10020516)               391115.00
3751860.00       71.68372  (10020516)
        391135.00   3751860.00       79.30612  (10020516)               391145.00
3751860.00       82.73468  (10020516)
        391155.00   3751860.00       85.74528  (10020516)               391165.00
3751860.00       88.20048  (10020516)
        391175.00   3751860.00       89.94145  (10020516)               391185.00
3751860.00       90.78898  (10020516)
        391195.00   3751860.00       90.56957  (10020516)               391205.00
3751860.00       92.74018  (16050618)
        391215.00   3751860.00       97.53464  (16050618)               391225.00
3751860.00      100.68374  (16050618)
        391235.00   3751860.00      101.69951  (16050618)               391245.00
3751860.00      100.09312  (16050618)
        391255.00   3751860.00      100.21370  (15092707)               391265.00
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3751860.00      104.33695  (15092707)
        391275.00   3751860.00      107.61958  (15092707)                391295.00
3751860.00      110.84448  (15092707)
        391305.00   3751860.00      110.50844  (15092707)                391315.00
3751860.00      108.93046  (15092707)
        391325.00   3751860.00      106.21161  (15092707)                391335.00
3751860.00      103.00175  (11010516)
        391345.00   3751860.00      100.02157  (11010516)                391355.00
3751860.00       94.99226  (11010516)
        391365.00   3751860.00       88.93214  (10031908)                391375.00
3751860.00       85.45431  (10031908)
        391385.00   3751860.00       80.76446  (10031908)                391395.00
3751860.00       75.27860  (10031908)
        391405.00   3751860.00       69.35147  (10031908)                391415.00
3751860.00       63.67076  (15092707)
        391425.00   3751860.00       60.44631  (12101115)                391075.00
3751870.00       63.03109  (11032317)
        391085.00   3751870.00       66.12030  (11032317)                391095.00
3751870.00       69.15739  (11032317)
        391105.00   3751870.00       72.09788  (11032317)                391115.00
3751870.00       74.84049  (11032317)
        391135.00   3751870.00       84.14153  (10020516)                391145.00
3751870.00       88.79279  (10020516)
        391155.00   3751870.00       93.15754  (10020516)                391165.00
3751870.00       97.08919  (10020516)
        391175.00   3751870.00      100.42189  (10020516)                391185.00
3751870.00      102.94761  (10020516)
        391195.00   3751870.00      104.43632  (10020516)                391205.00
3751870.00      104.67800  (10020516)
        391215.00   3751870.00      106.37808  (16050618)                391225.00
3751870.00      111.81957  (16050618)
        391235.00   3751870.00      115.23170  (16050618)                391245.00
3751870.00      115.64809  (16050618)
        391255.00   3751870.00      114.49425  (15092707)                391265.00
3751870.00      120.11374  (15092707)
        391285.00   3751870.00      127.85342  (15092707)                391295.00
3751870.00      129.24014  (15092707)
        391305.00   3751870.00      128.73436  (15092707)                391315.00
3751870.00      126.50299  (15092707)
        391325.00   3751870.00      122.74206  (15092707)                391335.00
3751870.00      117.73139  (15092707)
        391345.00   3751870.00      112.30785  (11010516)                391355.00
3751870.00      105.32693  (15092707)
        391365.00   3751870.00       99.94059  (10031908)                391375.00
3751870.00       94.51822  (10031908)
        391385.00   3751870.00       87.94023  (10031908)                391395.00
3751870.00       80.73468  (10031908)
 *** AERMOD - VERSION 21112  ***   *** C:\Users\shalterman\Desktop\HRAs\Modera
Melrose\Spane_Con_HRA\Spane_ ***        10/25/22
 *** AERMET - VERSION  16216 ***   ***
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
391405.00	3751870.00	73.68807	(15092707)	391415.00	3751870.00	69.16353	(12101115)
391425.00	3751870.00	67.52084	(12101115)	391075.00	3751880.00	64.69678	(11032317)
391085.00	3751880.00	68.44340	(11032317)	391095.00	3751880.00	72.24119	(11032317)
391105.00	3751880.00	76.05181	(11032317)	391115.00	3751880.00	79.77808	(11032317)
391135.00	3751880.00	88.20353	(10020516)	391145.00	3751880.00	94.15066	(10020516)
391155.00	3751880.00	100.00052	(10020516)	391165.00	3751880.00	105.61213	(10020516)
391175.00	3751880.00	110.80633	(10020516)	391185.00	3751880.00	115.35430	(10020516)
391195.00	3751880.00	119.03505	(10020516)	391205.00	3751880.00	121.54345	(10020516)
391215.00	3751880.00	122.47025	(10020516)	391225.00	3751880.00	123.39651	(16050618)
391235.00	3751880.00	129.86368	(16050618)	391245.00	3751880.00	133.33518	(16050618)
391255.00	3751880.00	132.30046	(16050618)	391265.00	3751880.00	140.29926	(15092707)
391285.00	3751880.00	151.54172	(15092707)	391295.00	3751880.00	153.48296	(15092707)

391305.00 3751880.00 152.70904 (15092707) 391315.00
3751880.00 149.44138 (15092707)
391325.00 3751880.00 144.04105 (15092707) 391335.00
3751880.00 136.95480 (15092707)
391345.00 3751880.00 128.71109 (15092707) 391355.00
3751880.00 119.90815 (15092707)
391365.00 3751880.00 112.08132 (10031908) 391375.00
3751880.00 104.10244 (10031908)
391385.00 3751880.00 95.17760 (10031908) 391395.00
3751880.00 86.72061 (15092707)
391405.00 3751880.00 80.10129 (12101115) 391415.00
3751880.00 77.48647 (12101115)
391425.00 3751880.00 74.24770 (12101115) 391075.00
3751890.00 65.52268 (11032317)
391085.00 3751890.00 69.90121 (11032317) 391095.00
3751890.00 74.42113 (11032317)
391105.00 3751890.00 79.08152 (11032317) 391115.00
3751890.00 83.80031 (11032317)
391135.00 3751890.00 93.20837 (11032317) 391145.00
3751890.00 98.53737 (10020516)
391155.00 3751890.00 105.93898 (10020516) 391165.00
3751890.00 113.35806 (10020516)
391175.00 3751890.00 120.61663 (10020516) 391185.00
3751890.00 127.50592 (10020516)
391195.00 3751890.00 133.79344 (10020516) 391205.00
3751890.00 139.21521 (10020516)
391215.00 3751890.00 143.29636 (10020516) 391225.00
3751890.00 145.71476 (10020516)
391235.00 3751890.00 145.63136 (10020516) 391245.00
3751890.00 153.10028 (16050618)
391255.00 3751890.00 156.18819 (16050618) 391285.00
3751890.00 184.08101 (15092707)
391295.00 3751890.00 186.79144 (15092707) 391305.00
3751890.00 185.49991 (15092707)
391315.00 3751890.00 180.42091 (15092707) 391325.00
3751890.00 172.35579 (15092707)
391335.00 3751890.00 161.96221 (15092707) 391345.00
3751890.00 150.13880 (15092707)
391355.00 3751890.00 137.79206 (15092707) 391365.00
3751890.00 125.71023 (15092707)
391375.00 3751890.00 114.38849 (15092707) 391385.00
3751890.00 104.04432 (15092707)
391395.00 3751890.00 94.78450 (15092707) 391405.00
3751890.00 90.01588 (12101115)
391415.00 3751890.00 85.26475 (12101115) 391425.00
3751890.00 80.61316 (12122216)
391075.00 3751900.00 65.41438 (11032317) 391085.00
3751900.00 70.34357 (11032317)
391095.00 3751900.00 75.55029 (11032317) 391105.00
3751900.00 81.01831 (11032317)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
391185.00	3751900.00	138.87772	(10020516)	391195.00	3751900.00	148.14542	(10020516)
391205.00	3751900.00	157.02851	(10020516)	391215.00	3751900.00	165.06792	(10020516)
391225.00	3751900.00	172.00471	(10020516)	391235.00	3751900.00	176.97578	(10020516)
391245.00	3751900.00	178.99553	(10020516)	391255.00	3751900.00	184.75116	(15092707)
391275.00	3751900.00	220.32164	(15092707)	391285.00	3751900.00	231.30865	(15092707)
391295.00	3751900.00	235.09465	(15092707)	391305.00	3751900.00	232.24445	(15092707)
391315.00	3751900.00	224.05236	(15092707)	391325.00	3751900.00	211.39606	(15092707)
391335.00	3751900.00	195.48971	(15092707)	391345.00			

3751900.00 177.89447 (15092707)
391355.00 3751900.00 160.11025 (15092707) 391365.00
3751900.00 143.31823 (15092707)
391375.00 3751900.00 128.26237 (15092707) 391385.00
3751900.00 115.02489 (15092707)
391395.00 3751900.00 105.86478 (12101115) 391405.00
3751900.00 99.08384 (12101115)
391415.00 3751900.00 93.80666 (12122216) 391425.00
3751900.00 88.64258 (12122216)
391075.00 3751910.00 64.28525 (11032317) 391085.00
3751910.00 69.65323 (11032317)
391095.00 3751910.00 75.45208 (11032317) 391105.00
3751910.00 81.63294 (11032317)
391115.00 3751910.00 88.16555 (11032317) 391135.00
3751910.00 102.37794 (11032317)
391145.00 3751910.00 110.12506 (11032317) 391155.00
3751910.00 117.98826 (11032317)
391165.00 3751910.00 126.04092 (11032317) 391175.00
3751910.00 136.60904 (10020516)
391185.00 3751910.00 148.80086 (10020516) 391195.00
3751910.00 161.28772 (10020516)
391205.00 3751910.00 173.95352 (10020516) 391215.00
3751910.00 186.49659 (10020516)
391225.00 3751910.00 198.82627 (10020516) 391235.00
3751910.00 210.34248 (10020516)
391245.00 3751910.00 220.26646 (10020516) 391275.00
3751910.00 287.73569 (15092707)
391285.00 3751910.00 306.25458 (15092707) 391295.00
3751910.00 310.45644 (15092707)
391305.00 3751910.00 303.92157 (15092707) 391315.00
3751910.00 289.54548 (15092707)
391325.00 3751910.00 268.70684 (15092707) 391335.00
3751910.00 242.86847 (15092707)
391345.00 3751910.00 215.04965 (15092707) 391355.00
3751910.00 188.13979 (15092707)
391365.00 3751910.00 164.28976 (15092707) 391375.00
3751910.00 144.04346 (15092707)
391385.00 3751910.00 127.09781 (15092707) 391395.00
3751910.00 119.63845 (11102516)
391405.00 3751910.00 112.77830 (11102516) 391415.00
3751910.00 106.09286 (11102516)
391425.00 3751910.00 99.82670 (11102516) 391325.00
3751920.00 361.55280 (15092707)
391335.00 3751920.00 315.37008 (15092707) 391345.00
3751920.00 267.11287 (15092707)
391355.00 3751920.00 223.52372 (15092707) 391365.00
3751920.00 188.65561 (15092707)
391375.00 3751920.00 165.71079 (11102516) 391385.00
3751920.00 153.57600 (11102516)
391395.00 3751920.00 142.31687 (11102516) 391405.00

3751920.00   131.88523 (11102516)
        391415.00   3751920.00   122.22856 (11102516)   391425.00
3751920.00   113.54581 (11102516)
        391075.00   3751930.00   59.18234 (11032317)   391085.00
3751930.00   65.03144 (11032317)
        391095.00   3751930.00   71.52225 (11032317)   391105.00
3751930.00   78.67854 (11032317)
        391115.00   3751930.00   86.50818 (11032317)   391135.00
3751930.00   104.61158 (11032317)
        391145.00   3751930.00   115.07704 (11032317)   391155.00
3751930.00   126.29703 (11032317)
        391165.00   3751930.00   138.43976 (11032317)   391175.00
3751930.00   151.46067 (11032317)
        391185.00   3751930.00   165.24513 (11032317)   391195.00
3751930.00   181.18157 (10020516)

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL   ***
                                  INCLUDING SOURCE(S):   L0000001   , L0000002 , L0000003   , L0000004   , L0000005   ,
                 L0000006   , L0000007   , L0000008   , L0000009   , L0000010 , L0000011   , L0000012   , L0000013   ,
                 L0000014   , L0000015   , L0000016   , L0000017   , L0000018 , L0000019   , L0000020   , L0000021   ,
                 L0000022   , L0000023   , L0000024   , L0000025   , L0000026 , L0000027   , L0000028   , . . .   ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                           ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)
 - - -

391095.00 3751940.00 67.79906 (11032317) 391105.00
3751940.00 75.15433 (11032317)
391115.00 3751940.00 83.33634 (11032317) 391135.00
3751940.00 102.66543 (11032317)
391145.00 3751940.00 114.24040 (11032317) 391155.00
3751940.00 126.91786 (11032317)
391165.00 3751940.00 140.89272 (11032317) 391175.00
3751940.00 156.27604 (11032317)
391185.00 3751940.00 172.95159 (11032317) 391195.00
3751940.00 190.86623 (11032317)
391205.00 3751940.00 211.47374 (10020516) 391215.00
3751940.00 238.36622 (10020516)
391225.00 3751940.00 267.73211 (10020516) 391235.00
3751940.00 298.61094 (10020516)
391075.00 3751950.00 50.77496 (11032317) 391085.00
3751950.00 56.48215 (11032317)
391095.00 3751950.00 62.94915 (11032317) 391105.00
3751950.00 70.26324 (11032317)
391115.00 3751950.00 78.53619 (11032317) 391135.00
3751950.00 98.54974 (11032317)
391145.00 3751950.00 110.85106 (11032317) 391155.00
3751950.00 124.65949 (11032317)
391165.00 3751950.00 140.24586 (11032317) 391175.00
3751950.00 157.80180 (11032317)
391185.00 3751950.00 177.26039 (11032317) 391195.00
3751950.00 198.65400 (11032317)
391205.00 3751950.00 222.15051 (11032317) 391215.00
3751950.00 249.76276 (10020516)
391225.00 3751950.00 285.12686 (10020516) 391235.00
3751950.00 322.12593 (10020516)
391075.00 3751960.00 58.26559 (15122816) 391085.00
3751960.00 62.70186 (15122816)
391095.00 3751960.00 67.65728 (15122816) 391105.00
3751960.00 73.21620 (15122816)
391115.00 3751960.00 79.47273 (15122816) 391135.00
3751960.00 94.58008 (15122816)
391145.00 3751960.00 104.94301 (11032317) 391155.00
3751960.00 119.44259 (11032317)
391165.00 3751960.00 136.14184 (11032317) 391175.00
3751960.00 155.45374 (11032317)
391185.00 3751960.00 177.48611 (11032317) 391195.00
3751960.00 202.60230 (11032317)
391205.00 3751960.00 230.40830 (11032317) 391215.00
3751960.00 261.33379 (11032317)
391225.00 3751960.00 299.38100 (10020516) 391075.00
3751970.00 65.96798 (15122816)
391085.00 3751970.00 71.20522 (15122816) 391095.00
3751970.00 77.08146 (15122816)
391105.00 3751970.00 83.70540 (15122816) 391115.00
3751970.00 91.19786 (15122816)

```
        391135.00   3751970.00      109.43772  (15122816)                391145.00
3751970.00      120.77914  (15122816)
        391155.00   3751970.00      133.91565  (15122816)                391165.00
3751970.00      149.20099  (15122816)
        391175.00   3751970.00      167.21097  (15122816)                391185.00
3751970.00      188.65659  (15122816)
        391195.00   3751970.00      214.81180  (15122816)                391205.00
3751970.00      246.81888  (15122816)
        391215.00   3751970.00      287.48808  (15122816)                391225.00
3751970.00      337.95374  (15122816)
        391075.00   3751980.00       73.48217  (15122816)                391085.00
3751980.00       79.49298  (15122816)
        391095.00   3751980.00       86.25779  (15122816)                391105.00
3751980.00       93.90868  (15122816)
        391115.00   3751980.00      102.59112  (15122816)                391135.00
3751980.00      123.89616  (15122816)
        391145.00   3751980.00      137.22632  (15122816)                391155.00
3751980.00      152.74306  (15122816)
        391165.00   3751980.00      170.90789  (15122816)                391175.00
3751980.00      192.43901  (15122816)
        391185.00   3751980.00      218.17914  (15122816)                391195.00
3751980.00      249.24864  (15122816)
        391205.00   3751980.00      287.10115  (15122816)                391215.00
3751980.00      335.16659  (15122816)
 *** AERMOD - VERSION 21112  ***   *** C:\Users\shalterman\Desktop\HRAs\Modera
Melrose\Spane_Con_HRA\Spane_ ***        10/25/22
 *** AERMET - VERSION  16216 ***   ***
                      ***       19:36:07

                                  PAGE  47
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                  INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                  L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                  L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                  L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,

                                             *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF PM_10    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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3752030.00      181.21662  (15122816)
        391155.00   3752030.00      200.48676  (15122816)                391165.00
3752030.00      222.83824  (15122816)
        391175.00   3752030.00      248.93419  (15122816)                391185.00
3752030.00      279.38832  (15122816)
        391075.00   3752040.00      100.47451  (15122816)                391085.00
3752040.00      108.24106  (15122816)
        391095.00   3752040.00      116.87646  (15122816)                391105.00
3752040.00      126.51036  (15122816)
        391115.00   3752040.00      137.28795  (15122816)                391135.00
3752040.00      163.08566  (15122816)
        391145.00   3752040.00      178.64405  (15122816)                391155.00
3752040.00      196.32694  (15122816)
        391165.00   3752040.00      216.49865  (15122816)                391175.00
3752040.00      239.57815  (15122816)
        391185.00   3752040.00      265.76434  (15122816)                391075.00
3752050.00      100.41355  (15122816)
        391085.00   3752050.00      107.80512  (15122816)                391095.00
3752050.00      115.96495  (15122816)
        391105.00   3752050.00      124.99590  (15122816)                391115.00
3752050.00      135.00764  (15122816)
        391135.00   3752050.00      158.54264  (15122816)                391145.00
3752050.00      172.48240  (15122816)
        391155.00   3752050.00      188.06618  (15122816)                391165.00
3752050.00      205.48869  (15122816)
        391175.00   3752050.00      224.95137  (15122816)                391185.00
3752050.00      246.40417  (15122816)
        391135.00   3752060.00      151.28762  (15122816)                391145.00
3752060.00      163.32125  (15122816)
        391155.00   3752060.00      176.50459  (15122816)                391165.00
3752060.00      190.94028  (15122816)
        391175.00   3752060.00      206.63458  (15122816)                391185.00
3752060.00      223.95268  (11112015)
 *** AERMOD - VERSION 21112  ***   *** C:\Users\shalterman\Desktop\HRAs\Modera
Melrose\Spane_Con_HRA\Spane_ ***        10/25/22
 *** AERMET - VERSION  16216 ***   ***
                      ***       19:36:07

                                  PAGE  48
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                  INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                 L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                 L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                 L0000022    , L0000023    , L0000024    , L0000025    , L0000026
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, L0000027   , L0000028   , . . .   ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10   IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
391135.00	3752070.00	141.84374	(15122816)	391145.00	3752070.00	151.80603	(15122816)
391155.00	3752070.00	162.49142	(15122816)	391135.00	3752080.00	130.80490	(15122816)
391145.00	3752080.00	142.02133	(11112015)	391155.00	3752080.00	158.60981	(11112015)
391235.00	3752120.00	193.90990	(16121116)	391245.00	3752120.00	216.36337	(16121116)
391255.00	3752120.00	259.41064	(10011716)	391265.00	3752120.00	325.94924	(10011716)
391275.00	3752120.00	389.04540	(10011716)	391285.00	3752120.00	438.00016	(10011716)
391295.00	3752120.00	465.52269	(10011716)	391305.00	3752120.00	468.13042	(10011716)
391315.00	3752120.00	445.87698	(10011716)	391325.00	3752120.00	401.25923	(10011716)
391335.00	3752120.00	338.97189	(10011716)	391345.00	3752120.00	268.56532	(10011716)
391355.00	3752120.00	200.37302	(10011716)	391365.00	3752120.00	182.62837	(11091107)
391375.00	3752120.00	189.66310	(11091107)	391385.00	3752120.00	190.85641	(11091107)
391395.00	3752120.00	187.52523	(11091107)	391405.00	3752120.00	180.98504	(11091107)
391415.00	3752120.00	172.46879	(11091107)	391425.00	3752120.00	162.72023	(11091107)
391235.00	3752130.00	181.08423	(16121116)	391245.00	3752130.00	197.86102	(16121116)
391255.00	3752130.00	239.96613	(10011716)	391265.00	3752130.00	295.28541	(10011716)
391275.00	3752130.00	346.87804	(10011716)	391285.00	3752130.00	386.99289	(10011716)
391295.00	3752130.00	410.20052	(10011716)	391305.00	3752130.00	412.64540	(10011716)
391315.00	3752130.00	394.09838	(10011716)	391325.00	3752130.00	357.07572	(10011716)
391335.00	3752130.00	305.79776	(10011716)	391345.00	3752130.00	248.01284	(10011716)

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        391355.00   3752130.00      190.57126  (10011716)                391365.00
3752130.00      160.27388  (10020916)
        391375.00   3752130.00      155.94163  (11091107)                391385.00
3752130.00      161.90373  (11091107)
        391395.00   3752130.00      163.61418  (11091107)                391405.00
3752130.00      161.83366  (11091107)
        391415.00   3752130.00      157.66665  (11091107)                391425.00
3752130.00      151.67805  (11091107)
        391235.00   3752140.00      168.24749  (16121116)                391245.00
3752140.00      183.85735  (10022717)
        391255.00   3752140.00      222.42381  (10011716)                391265.00
3752140.00      268.93172  (10011716)
        391275.00   3752140.00      311.77262  (10011716)                391285.00
3752140.00      345.05644  (10011716)
        391295.00   3752140.00      364.26381  (10011716)                391305.00
3752140.00      366.40628  (10011716)
        391315.00   3752140.00      350.97589  (10011716)                391325.00
3752140.00      320.22812  (10011716)
        391335.00   3752140.00      277.76590  (10011716)                391345.00
3752140.00      229.75293  (10011716)
        391355.00   3752140.00      180.76152  (10011716)                391365.00
3752140.00      147.63720  (12120216)
        391375.00   3752140.00      137.81155  (10020916)                391385.00
3752140.00      135.27190  (11091107)
        391395.00   3752140.00      140.32814  (11091107)                391405.00
3752140.00      142.18968  (11091107)
        391415.00   3752140.00      141.58947  (11091107)                391425.00
3752140.00      138.89963  (11091107)
        391235.00   3752150.00      155.80549  (16121116)                391245.00
3752150.00      172.63779  (10022717)
        391255.00   3752150.00      206.62769  (10011716)                391265.00
3752150.00      246.19017  (10011716)
        391275.00   3752150.00      282.11436  (10011716)                391285.00
3752150.00      309.88417  (10011716)
        391295.00   3752150.00      325.85677  (10011716)                391305.00
3752150.00      327.68042  (10011716)
        391315.00   3752150.00      314.91819  (10011716)                391325.00
3752150.00      289.30307  (10011716)
        391335.00   3752150.00      253.80435  (10011716)                391345.00
3752150.00      213.30555  (10011716)
        391355.00   3752150.00      171.28120  (10011716)                391365.00
3752150.00      140.20564  (11121816)
↟ *** AERMOD - VERSION 21112  ***   *** C:\Users\shalterman\Desktop\HRAs\Modera
Melrose\Spane_Con_HRA\Spane_ ***        10/25/22
 *** AERMET - VERSION  16216 ***   ***
                      ***       19:36:07

                                  PAGE  49
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
391375.00	3752150.00	126.71982	(10020916)	391385.00	3752150.00	119.80235	(10020916)
391395.00	3752150.00	118.73587	(11091107)	391405.00	3752150.00	123.08871	(11091107)
391415.00	3752150.00	125.19212	(11091107)	391425.00	3752150.00	125.21358	(11091107)
391235.00	3752160.00	143.96033	(16121116)	391245.00	3752160.00	162.00285	(10022717)
391255.00	3752160.00	192.32841	(10011716)	391265.00	3752160.00	226.28602	(10011716)
391275.00	3752160.00	256.65340	(10011716)	391285.00	3752160.00	280.03971	(10011716)
391295.00	3752160.00	293.36382	(10011716)	391305.00	3752160.00	295.01202	(10011716)
391315.00	3752160.00	284.47317	(10011716)	391325.00	3752160.00	263.04814	(10011716)
391335.00	3752160.00	233.09122	(10011716)	391345.00	3752160.00	198.50188	(10011716)
391355.00	3752160.00	162.28250	(10011716)	391365.00	3752160.00	133.87168	(11121816)
391375.00	3752160.00	117.59182	(12120216)	391385.00	3752160.00	111.64819	(10020916)
391395.00	3752160.00	105.03778	(10020916)	391405.00	3752160.00	105.24636	(11091107)
391415.00	3752160.00	109.22195	(11091107)	391425.00	3752160.00	111.31511	(11091107)
391245.00	3752170.00	152.02033	(10022717)	391255.00	3752170.00	179.46676	(10011716)
391265.00	3752170.00	208.79200	(10011716)	391275.00			

3752170.00 234.75378 (10011716)
391285.00 3752170.00 254.62535 (10011716) 391295.00
3752170.00 265.80951 (10011716)
391305.00 3752170.00 267.16036 (10011716) 391315.00
3752170.00 258.40683 (10011716)
391325.00 3752170.00 240.33502 (10011716) 391335.00
3752170.00 214.89042 (10011716)
391345.00 3752170.00 185.18027 (10011716) 391355.00
3752170.00 153.80159 (10011716)
391365.00 3752170.00 127.55595 (11121816) 391375.00
3752170.00 111.25361 (12120216)
391385.00 3752170.00 103.42225 (10020916) 391395.00
3752170.00 98.98299 (10020916)
391405.00 3752170.00 92.68551 (10020916) 391415.00
3752170.00 94.21559 (11091107)
391425.00 3752170.00 97.77284 (11091107) 391245.00
3752180.00 142.73066 (10022717)
391255.00 3752180.00 167.81814 (10011716) 391265.00
3752180.00 193.33542 (10011716)
391275.00 3752180.00 215.71870 (10011716) 391285.00
3752180.00 232.68252 (10011716)
391295.00 3752180.00 242.00591 (10011716) 391305.00
3752180.00 243.12997 (10011716)
391315.00 3752180.00 235.74290 (10011716) 391325.00
3752180.00 220.49550 (10011716)
391335.00 3752180.00 198.87542 (10011716) 391345.00
3752180.00 173.32751 (10011716)
391355.00 3752180.00 145.82431 (10011716) 391365.00
3752180.00 121.32135 (11121816)
391375.00 3752180.00 104.87332 (11121816) 391385.00
3752180.00 96.44185 (12120216)
391395.00 3752180.00 92.68210 (10020916) 391405.00
3752180.00 88.15891 (10020916)
391415.00 3752180.00 82.40857 (10020916) 391425.00
3752180.00 84.98520 (11091107)
391245.00 3752190.00 134.10098 (10022717) 391255.00
3752190.00 157.26773 (10011716)
391265.00 3752190.00 179.60804 (10011716) 391275.00
3752190.00 199.01195 (10011716)
391285.00 3752190.00 213.63240 (10011716) 391295.00
3752190.00 221.65876 (10011716)
391305.00 3752190.00 222.62111 (10011716) 391315.00
3752190.00 216.27276 (10011716)
391325.00 3752190.00 203.29568 (10011716) 391335.00
3752190.00 184.71931 (10011716)
391345.00 3752190.00 162.49605 (10011716) 391355.00
3752190.00 138.35428 (10011716)
391365.00 3752190.00 115.31126 (11121816) 391375.00
3752190.00 101.00626 (11121816)
391385.00 3752190.00 91.96185 (12120216) 391395.00

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                             *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL   ***
                                 INCLUDING SOURCE(S):   L0000001   , L0000002
, L0000003   , L0000004   , L0000005   ,
                   L0000006   , L0000007   , L0000008   , L0000009   , L0000010
, L0000011   , L0000012   , L0000013   ,
                   L0000014   , L0000015   , L0000016   , L0000017   , L0000018
, L0000019   , L0000020   , L0000021   ,
                   L0000022   , L0000023   , L0000024   , L0000025   , L0000026
, L0000027   , L0000028   , . . .   ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                             ** CONC OF PM_10   IN MICROGRAMS/M**3
                   **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        391405.00   3752190.00   83.33426 (10020916)   391415.00
3752190.00   79.01300 (10020916)
        391425.00   3752190.00   73.67995 (10020916)   391245.00
3752200.00   126.67679 (10011716)
        391255.00   3752200.00   147.67395 (10011716)   391265.00
3752200.00   167.37063 (10011716)
        391275.00   3752200.00   184.27440 (10011716)   391285.00
3752200.00   196.97511 (10011716)
        391295.00   3752200.00   203.93583 (10011716)   391305.00
3752200.00   204.81034 (10011716)
        391315.00   3752200.00   199.33931 (10011716)   391325.00
3752200.00   188.19033 (10011716)
        391335.00   3752200.00   172.10333 (10011716)   391345.00
3752200.00   152.66764 (10011716)
        391355.00   3752200.00   131.35484 (10011716)   391365.00
3752200.00   109.79816 (10011716)
        391375.00   3752200.00   97.08614 (11121816)   391385.00
3752200.00   87.42560 (12120216)
        391395.00   3752200.00   80.82703 (12120216)   391405.00
3752200.00   78.35927 (10020916)

391415.00 3752200.00 75.28436 (10020916) 391425.00 3752200.00 71.12914 (10020916)
391255.00 3752210.00 138.92909 (10011716) 391265.00 3752210.00 156.37569 (10011716)
391275.00 3752210.00 171.22090 (10011716) 391285.00 3752210.00 182.29026 (10011716)
391295.00 3752210.00 188.42942 (10011716) 391305.00 3752210.00 189.21803 (10011716)
391315.00 3752210.00 184.53505 (10011716) 391325.00 3752210.00 174.84387 (10011716)
391335.00 3752210.00 160.81522 (10011716) 391345.00 3752210.00 143.74296 (10011716)
391355.00 3752210.00 124.80705 (10011716) 391365.00 3752210.00 105.46791 (10011716)
391375.00 3752210.00 93.23159 (11121816) 391385.00 3752210.00 82.94838 (12120216)
391395.00 3752210.00 77.59966 (12120216) 391405.00 3752210.00 73.35779 (10020916)
391415.00 3752210.00 71.35042 (10020916) 391425.00 3752210.00 68.24646 (10020916)
391255.00 3752220.00 130.95489 (10011716) 391265.00 3752220.00 146.47328 (10011716)
391275.00 3752220.00 159.58337 (10011716) 391285.00 3752220.00 169.35800 (10011716)
391295.00 3752220.00 174.77909 (10011716) 391305.00 3752220.00 175.49607 (10011716)
391315.00 3752220.00 171.43288 (10011716) 391325.00 3752220.00 162.96478 (10011716)
391335.00 3752220.00 150.64925 (10011716) 391345.00 3752220.00 135.56406 (10011716)
391355.00 3752220.00 118.68727 (10011716) 391365.00 3752220.00 101.26629 (10011716)
391375.00 3752220.00 89.43272 (11121816) 391385.00 3752220.00 79.31845 (11121816)
391395.00 3752220.00 74.27685 (12120216) 391405.00 3752220.00 68.88667 (12120216)
391415.00 3752220.00 67.32495 (10020916) 391425.00 3752220.00 65.13585 (10020916)
391255.00 3752230.00 123.65413 (10011716) 391265.00 3752230.00 137.52645 (10011716)
391275.00 3752230.00 149.18567 (10011716) 391285.00 3752230.00 157.77495 (10011716)
391295.00 3752230.00 162.61574 (10011716) 391305.00 3752230.00 163.31324 (10011716)
391315.00 3752230.00 159.78540 (10011716) 391325.00 3752230.00 152.32349 (10011716)
391335.00 3752230.00 141.48363 (10011716) 391345.00 3752230.00 128.05852 (10011716)
391355.00 3752230.00 113.00034 (10011716) 391365.00 3752230.00 97.26118 (10011716)

*** THE SUMMARY OF MAXIMUM PERIOD (43848 HRS) RESULTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

GROUP ID	NETWORK AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	GRID-ID
ALL	1ST HIGHEST VALUE IS	138.44991 AT (391325.00, 3751920.00, 23.17, 24.75, 0.00)	DC	
	2ND HIGHEST VALUE IS	124.60218 AT (391225.00, 3751980.00, 23.03, 23.03, 0.00)	DC	
	3RD HIGHEST VALUE IS	120.82521 AT (391335.00, 3751920.00, 22.91, 25.27, 0.00)	DC	
	4TH HIGHEST VALUE IS	119.80877 AT (391295.00, 3751910.00, 22.82, 22.82, 0.00)	DC	
	5TH HIGHEST VALUE IS	118.29637 AT (391285.00, 3751910.00, 22.87, 22.87, 0.00)	DC	
	6TH HIGHEST VALUE IS	117.24549 AT (391305.00, 3751910.00, 22.79, 22.79, 0.00)	DC	
	7TH HIGHEST VALUE IS	116.36583 AT (391235.00, 3751950.00, 23.09, 23.09, 0.00)	DC	
	8TH HIGHEST VALUE IS	114.68300 AT (391225.00, 3751970.00, 23.05, 23.05, 0.00)	DC	
	9TH HIGHEST VALUE IS	111.70527 AT (391315.00, 3751910.00, 22.82, 22.82, 0.00)	DC	
	10TH HIGHEST VALUE IS	111.47537 AT (391275.00, 3751910.00, 22.93, 22.93, 0.00)	DC	

*** THE SUMMARY OF HIGHEST 1-HR RESULTS ***

** CONC OF PM_10   IN MICROGRAMS/M**3 **

GROUP ID	AVERAGE CONC	DATE (YYMMDDHH)	NETWORK OF TYPE	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	GRID-ID
ALL	1ST HIGH VALUE IS	468.13042	ON 10011716:	AT (391305.00, 3752120.00, 23.11, 23.11, 0.00)	DC

*** Message Summary : AERMOD Model Execution ***

--------- Summary of Total Messages --------

A Total of   0 Fatal Error Message(s)
A Total of   4 Warning Message(s)
A Total of   1277 Informational Message(s)

```
 A Total of        43848 Hours Were Processed

 A Total of          152 Calm Hours Identified

 A Total of         1125 Missing Hours Identified (  2.57 Percent)


    ******** FATAL ERROR MESSAGES ********
               ***  NONE  ***


    ********   WARNING MESSAGES   ********
 ME W186     361       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used
     0.50
 ME W187     361       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

 MX W450   26305       CHKDAT: Record Out of Sequence in Meteorological File at:
 15010101
 MX W450   26305       CHKDAT: Record Out of Sequence in Meteorological File at:
2 year gap

    ************************************
    *** AERMOD Finishes Successfully ***
    ************************************
```

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN 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 URBAN Dispersion Algorithm for the SBL for   129 Source(s),
   for Total of   1 Urban Area(s):
   Urban Population =   9818605.0 ; Urban Roughness Length = 1.000 m

 **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.
        6. Urban Roughness Length of 1.0 Meter Assumed.

 **Other Options Specified:
        ADJ_U*   - Use ADJ_U* option for SBL in AERMET
        TEMP_Sub - Meteorological data includes TEMP substitutions

 **Model Assumes No FLAGPOLE Receptor Heights.

 **The User Specified a Pollutant Type of: PM_10

 **Model Calculates 1 Short Term Average(s) of: 1-HR
     and Calculates PERIOD Averages

 **This Run Includes: 129 Source(s);   1 Source Group(s); and   1116
Receptor(s)

                with: 0 POINT(s), including
                           0 POINTCAP(s) and   0 POINTHOR(s)
                 and: 129 VOLUME source(s)

```
                and:      0 AREA type source(s)
                and:      0 LINE source(s)
                and:      0 RLINE/RLINEXT source(s)
                and:      0 OPENPIT source(s)
                and:      0 BUOYANT LINE source(s) with a total of     0 line(s)


 **Model Set To Continue RUNning After the Setup Testing.

 **The AERMET Input Meteorological Data Version Date:  16216

 **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) =    58.00 ;  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 =      3.7 MB of RAM.

 **Input Runstream File:          aermod.inp

 **Output Print File:             aermod.out


 **Detailed Error/Message File:   Spane_Con_HRA.err

 **File for Summary of Results:   Spane_Con_HRA.sum

 *** AERMOD - VERSION 21112  ***   *** C:\Users\shalterman\Desktop\HRAs\Modera
Melrose\Spane_Con_HRA\Spane_ ***        10/25/22
 *** AERMET - VERSION  16216 ***   ***
                       ***        19:36:07

                                  PAGE   2
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
```

*** 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 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 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,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

Surface file: \\dudek.int\data\Projects\300.Environmental\14427_Craftwater_Spane_Park\02 Dudek
Met Version: 16216
Profile file: \\dudek.int\data\Projects\300.Environmental\14427_Craftwater_Spane_Park\02 Dudek
Surface format: FREE

Profile format: FREE

Surface station no.: 3166 Upper air station no.: 3190
Name: UNKNOWN Name: UNKNOWN

Year: 2010 Year: 2010

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
10	01	01	1	01	-38.6	0.384	-9.000	-9.000	-999.	572.	162.4	0.34	0.73	1.00	3.10	321.	9.1	283.8	5.5
10	01	01	1	02	-33.5	0.333	-9.000	-9.000	-999.	462.	121.8	0.34	0.73	1.00	2.70	217.	9.1	282.5	5.5
10	01	01	1	03	-21.9	0.218	-9.000	-9.000	-999.	251.	52.2	0.34	0.73	1.00	1.80	290.	9.1	282.5	5.5
10	01	01	1	04	-27.1	0.269	-9.000	-9.000	-999.	334.	79.5	0.34	0.73	1.00	2.20	255.	9.1	282.0	5.5
10	01	01	1	05	-21.9	0.218	-9.000	-9.000	-999.	245.	52.2	0.34	0.73	1.00	1.80	234.	9.1	282.0	5.5
10	01	01	1	06	-27.1	0.269	-9.000	-9.000	-999.	334.	79.5	0.34	0.73	1.00	2.20	258.	9.1	282.0	5.5
10	01	01	1	07	-27.2	0.269	-9.000	-9.000	-999.	334.	79.5	0.34	0.73	1.00	2.20	213.	9.1	281.4	5.5
10	01	01	1	08	-22.6	0.335	-9.000	-9.000	-999.	466.	151.7	0.34	0.73	0.54	2.70	215.	9.1	282.0	5.5
10	01	01	1	09	26.9	0.249	0.347	0.008	56.	302.	-51.9	0.34	0.73	0.32	1.80	199.	9.1	284.2	5.5
10	01	01	1	10	65.3	0.365	0.593	0.008	116.	529.	-67.5	0.34	0.73	0.24	2.70	117.	9.1	288.1	5.5
10	01	01	1	11	94.5	0.374	0.933	0.008	311.	550.	-50.3	0.34	0.73	0.21	2.70	243.	9.1	290.4	5.5
10	01	01	1	12	103.9	0.279	1.087	0.008	448.	359.	-19.0	0.34	0.73	0.20	1.80	130.	9.1	293.1	5.5
10	01	01	1	13	83.7	0.273	1.073	0.008	533.	343.	-22.0	0.34	0.73	0.20	1.80	282.	9.1	294.9	5.5
10	01	01	1	14	82.0	0.218	1.112	0.008	606.	245.	-11.4	0.34	0.73	0.21	1.30	290.	9.1	295.9	5.5
10	01	01	1	15	38.9	0.202	0.881	0.008	636.	217.	-19.0	0.34	0.73	0.25	1.30	192.	9.1	294.9	5.5
10	01	01	1	16	11.4	0.181	0.588	0.008	643.	185.	-47.4	0.34	0.73	0.33	1.30	218.	9.1	293.8	5.5
10	01	01	1	17	-10.7	0.155	-9.000	-9.000	-999.	147.	31.4	0.34	0.73	0.60	1.30	255.	9.1	292.0	5.5
10	01	01	1	18	-5.5	0.104	-9.000	-9.000	-999.	81.	18.6	0.34	0.73	1.00	0.90	129.	9.1	289.2	5.5
10	01	01	1	19	-11.8	0.154	-9.000	-9.000	-999.	145.	27.8	0.34	0.73	1.00	1.30	264.	9.1	287.5	5.5
10	01	01	1	20	-11.8	0.154	-9.000	-9.000	-999.	144.	27.8	0.34	0.73						

```
1.00    1.30   25.    9.1  287.0    5.5
 10 01 01   1 21  -21.6  0.218 -9.000 -9.000 -999.  244.     52.2  0.34   0.73
1.00    1.80  343.    9.1  285.9    5.5
 10 01 01   1 22  -21.7  0.218 -9.000 -9.000 -999.  244.     52.2  0.34   0.73
1.00    1.80  332.    9.1  284.9    5.5
 10 01 01   1 23  -21.7  0.218 -9.000 -9.000 -999.  244.     52.2  0.34   0.73
1.00    1.80  178.    9.1  284.2    5.5
 10 01 01   1 24  -11.8  0.154 -9.000 -9.000 -999.  145.     27.6  0.34   0.73
1.00    1.30   28.    9.1  283.1    5.5


 First hour of profile data
 YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
 10 01 01 01    5.5 0 -999.  -99.00   283.8   99.0  -99.00  -99.00
 10 01 01 01    9.1 1  321.    3.10  -999.0   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)
 *** AERMOD - VERSION 21112  ***   *** C:\Users\shalterman\Desktop\HRAs\Modera
Melrose\Spane_Con_HRA\Spane_ ***        10/25/22
 *** AERMET - VERSION  16216 ***   ***
                       ***       19:36:07

                                  PAGE   4
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                       *** THE SUMMARY OF MAXIMUM PERIOD ( 43848
HRS) RESULTS ***


                                    ** CONC OF PM_10    IN MICROGRAMS/M**3
              **


                      NETWORK
GROUP ID                      AVERAGE CONC                RECEPTOR  (XR, YR, ZELEV,
ZHILL, ZFLAG)  OF TYPE  GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - -

ALL       1ST HIGHEST VALUE IS     138.44991 AT (  391325.00,  3751920.00,    23.17,
   24.75,    0.00)  DC
          2ND HIGHEST VALUE IS     124.60218 AT (  391225.00,  3751980.00,    23.03,
   23.03,    0.00)  DC
          3RD HIGHEST VALUE IS     120.82521 AT (  391335.00,  3751920.00,    22.91,
   25.27,    0.00)  DC
          4TH HIGHEST VALUE IS     119.80877 AT (  391295.00,  3751910.00,    22.82,
   22.82,    0.00)  DC
          5TH HIGHEST VALUE IS     118.29637 AT (  391285.00,  3751910.00,    22.87,
   22.87,    0.00)  DC
          6TH HIGHEST VALUE IS     117.24549 AT (  391305.00,  3751910.00,    22.79,
```

```
   22.79,    0.00)  DC
        7TH HIGHEST VALUE IS     116.36583 AT (  391235.00,  3751950.00,    23.09,
   23.09,    0.00)  DC
        8TH HIGHEST VALUE IS     114.68300 AT (  391225.00,  3751970.00,    23.05,
   23.05,    0.00)  DC
        9TH HIGHEST VALUE IS     111.70527 AT (  391315.00,  3751910.00,    22.82,
   22.82,    0.00)  DC
       10TH HIGHEST VALUE IS     111.47537 AT (  391275.00,  3751910.00,    22.93,
   22.93,    0.00)  DC


 *** RECEPTOR TYPES:  GC = GRIDCART
                      GP = GRIDPOLR
                      DC = DISCCART
                      DP = DISCPOLR
↑ *** AERMOD - VERSION 21112  ***   *** C:\Users\shalterman\Desktop\HRAs\Modera
Melrose\Spane_Con_HRA\Spane_ ***        10/25/22
 *** AERMET - VERSION  16216 ***   ***
                      ***        19:36:07

                                   PAGE   5
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                                *** THE SUMMARY OF HIGHEST  1-HR
RESULTS ***


                                    ** CONC OF PM_10    IN MICROGRAMS/M**3
             **

                                                        DATE
                                        NETWORK
GROUP ID                             AVERAGE CONC     (YYMMDDHH)             RECEPTOR
(XR, YR, ZELEV, ZHILL, ZFLAG)    OF TYPE  GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -

ALL      HIGH   1ST HIGH VALUE IS     468.13042  ON 10011716: AT (  391305.00,
3752120.00,    23.11,    23.11,    0.00)  DC


 *** RECEPTOR TYPES:  GC = GRIDCART
                      GP = GRIDPOLR
                      DC = DISCCART
                      DP = DISCPOLR
↑ *** AERMOD - VERSION 21112  ***   *** C:\Users\shalterman\Desktop\HRAs\Modera
Melrose\Spane_Con_HRA\Spane_ ***        10/25/22
 *** AERMET - VERSION  16216 ***   ***
                      ***        19:36:07
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** Message Summary : AERMOD Model Execution ***

--------- Summary of Total Messages --------

A Total of   0 Fatal Error Message(s)
A Total of   4 Warning Message(s)
A Total of   1277 Informational Message(s)

A Total of   43848 Hours Were Processed

A Total of   152 Calm Hours Identified

A Total of   1125 Missing Hours Identified (2.57 Percent)

******** FATAL ERROR MESSAGES ********
*** NONE ***

******** WARNING MESSAGES ********
ME W186   361   MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used
0.50
ME W187   361   MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

MX W450   26305   CHKDAT: Record Out of Sequence in Meteorological File at:
15010101
MX W450   26305   CHKDAT: Record Out of Sequence in Meteorological File at:
2 year gap

HARP2 - HRACalc (dated 22118) 10/26/2022 10:20:08 AM - Output Log

GLCs loaded successfully
Pollutants loaded successfully
Pathway receptors loaded successfully
****
RISK SCENARIO SETTINGS

Receptor Type: Resident
Scenario: All
Calculation Method: Derived

****
EXPOSURE DURATION PARAMETERS FOR CANCER

Start Age: -0.25
Total Exposure Duration: 1.76

Exposure Duration Bin Distribution
3rd Trimester Bin: 0.25
0<2 Years Bin: 1.76
2<9 Years Bin: 0
2<16 Years Bin: 0
16<30 Years Bin: 0
16 to 70 Years Bin: 0

****
PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: True
Dermal: True
Mother's milk: True
Water: False
Fish: False
Homegrown crops: True
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

****
INHALATION

Daily breathing rate: RMP

Worker Adjustment Factors
Worker adjustment factors enabled: NO

Fraction at time at home
3rd Trimester to 16 years: OFF
16 years to 70 years: OFF

****
SOIL & DERMAL PATHWAY SETTINGS

Deposition rate (m/s): 0.02
Soil mixing depth (m): 0.01
Dermal climate: Warm

****
HOMEGROWN CROP PATHWAY SETTINGS

Household type: HouseholdsthatGarden
Fraction leafy: 0.137
Fraction exposed: 0.137
Fraction protected: 0.137
Fraction root: 0.137

****
TIER 2 SETTINGS

Tier2 adjustments were used in this assessment. Please see the input file for details.
Tier2 - What was changed: ED or start age changed|
Calculating cancer risk
Cancer risk breakdown by pollutant and receptor saved to:
C:\Users\shalterman\Desktop\Spane HRA\SPANE CONSTRUCTION\hra\Residential-DefaultCancerRisk.csv
Cancer risk total by receptor saved to: C:\Users\shalterman\Desktop\Spane HRA\SPANE CONSTRUCTION\hra\Residential-DefaultCancerRiskSumByRec.csv
Calculating chronic risk
Chronic risk breakdown by pollutant and receptor saved to:
C:\Users\shalterman\Desktop\Spane HRA\SPANE CONSTRUCTION\hra\Residential-DefaultNCChronicRisk.csv
Chronic risk total by receptor saved to: C:\Users\shalterman\Desktop\Spane HRA\SPANE CONSTRUCTION\hra\Residential-DefaultNCChronicRiskSumByRec.csv
Calculating acute risk
Acute risk breakdown by pollutant and receptor saved to:
C:\Users\shalterman\Desktop\Spane HRA\SPANE CONSTRUCTION\hra\Residential-DefaultNCAcuteRisk.csv
Acute risk total by receptor saved to: C:\Users\shalterman\Desktop\Spane HRA\SPANE CONSTRUCTION\hra\Residential-DefaultNCAcuteRiskSumByRec.csv
HRA ran successfully

REC	GRP	NETID	X	Y	RISK_SUM	SCENARIO	INH_RISK	SOIL_RISK	DERMAL_R	MMILK_RI	WATER_RI	FISH_RISK	CROP_RISK	BEEF_RISK	DAIRY_RIS	PIG_RISK	CHICKEN_F	EGG_RISK
1	ALL		390780	3751525	9.12E-07	1.76YrCanc	9.12E-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
2	ALL		390830	3751525	9.98E-07	1.76YrCanc	9.98E-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
3	ALL		390880	3751525	1.09E-06	1.76YrCanc	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
4	ALL		390930	3751525	1.19E-06	1.76YrCanc	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
5	ALL		390980	3751525	1.29E-06	1.76YrCanc	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
6	ALL		391030	3751525	1.40E-06	1.76YrCanc	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
7	ALL		391080	3751525	1.50E-06	1.76YrCanc	1.50E-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
8	ALL		391130	3751525	1.59E-06	1.76YrCanc	1.59E-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
9	ALL		391180	3751525	1.67E-06	1.76YrCanc	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
10	ALL		391230	3751525	1.72E-06	1.76YrCanc	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
11	ALL		391280	3751525	1.75E-06	1.76YrCanc	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
12	ALL		391330	3751525	1.74E-06	1.76YrCanc	1.74E-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
13	ALL		391380	3751525	1.70E-06	1.76YrCanc	1.70E-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
14	ALL		391430	3751525	1.63E-06	1.76YrCanc	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
15	ALL		391480	3751525	1.55E-06	1.76YrCanc	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
16	ALL		391530	3751525	1.45E-06	1.76YrCanc	1.45E-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
17	ALL		391580	3751525	1.34E-06	1.76YrCanc	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
18	ALL		391630	3751525	1.24E-06	1.76YrCanc	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
19	ALL		391680	3751525	1.14E-06	1.76YrCanc	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
20	ALL		391730	3751525	1.04E-06	1.76YrCanc	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
21	ALL		391780	3751525	9.50E-07	1.76YrCanc	9.50E-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
22	ALL		390780	3751575	9.89E-07	1.76YrCanc	9.89E-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
23	ALL		390830	3751575	1.09E-06	1.76YrCanc	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
24	ALL		390880	3751575	1.21E-06	1.76YrCanc	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
25	ALL		390930	3751575	1.33E-06	1.76YrCanc	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
26	ALL		390980	3751575	1.47E-06	1.76YrCanc	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
27	ALL		391030	3751575	1.61E-06	1.76YrCanc	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
28	ALL		391080	3751575	1.75E-06	1.76YrCanc	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
29	ALL		391130	3751575	1.89E-06	1.76YrCanc	1.89E-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
30	ALL		391180	3751575	2.00E-06	1.76YrCanc	2.00E-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
31	ALL		391230	3751575	2.08E-06	1.76YrCanc	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
32	ALL		391280	3751575	2.12E-06	1.76YrCanc	2.12E-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
33	ALL		391330	3751575	2.10E-06	1.76YrCanc	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
34	ALL		391380	3751575	2.05E-06	1.76YrCanc	2.05E-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
35	ALL		391430	3751575	1.95E-06	1.76YrCanc	1.95E-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
36	ALL		391480	3751575	1.82E-06	1.76YrCanc	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
37	ALL		391530	3751575	1.68E-06	1.76YrCanc	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
38	ALL		391580	3751575	1.54E-06	1.76YrCanc	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
39	ALL		391630	3751575	1.40E-06	1.76YrCanc	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
40	ALL		391680	3751575	1.27E-06	1.76YrCanc	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
41	ALL		391730	3751575	1.15E-06	1.76YrCanc	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
42	ALL		391780	3751575	1.04E-06	1.76YrCanc	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
43	ALL		390780	3751625	1.07E-06	1.76YrCanc	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
44	ALL		390830	3751625	1.19E-06	1.76YrCanc	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
45	ALL		390880	3751625	1.34E-06	1.76YrCanc	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
46	ALL		390930	3751625	1.50E-06	1.76YrCanc	1.50E-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		390980	3751625	1.68E-06	1.76YrCanc	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
48	ALL		391030	3751625	1.87E-06	1.76YrCanc	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
49	ALL		391080	3751625	2.07E-06	1.76YrCanc	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
50	ALL		391130	3751625	2.27E-06	1.76YrCanc	2.27E-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
51	ALL		391180	3751625	2.45E-06	1.76YrCanc	2.45E-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
52	ALL		391230	3751625	2.57E-06	1.76YrCanc	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
53	ALL		391280	3751625	2.63E-06	1.76YrCanc	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
54	ALL		391330	3751625	2.61E-06	1.76YrCanc	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
55	ALL		391380	3751625	2.52E-06	1.76YrCanc	2.52E-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
56	ALL		391430	3751625	2.37E-06	1.76YrCanc	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
57	ALL		391480	3751625	2.18E-06	1.76YrCanc	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
58	ALL		391530	3751625	1.97E-06	1.76YrCanc	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
59	ALL		391580	3751625	1.77E-06	1.76YrCanc	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
60	ALL		391630	3751625	1.58E-06	1.76YrCanc	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
61	ALL		391680	3751625	1.41E-06	1.76YrCanc	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
62	ALL		391730	3751625	1.26E-06	1.76YrCanc	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
63	ALL		391780	3751625	1.13E-06	1.76YrCanc	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
64	ALL		390780	3751675	1.15E-06	1.76YrCanc	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
65	ALL		390830	3751675	1.30E-06	1.76YrCanc	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
66	ALL		390880	3751675	1.48E-06	1.76YrCanc	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
67	ALL		390930	3751675	1.68E-06	1.76YrCanc	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
68	ALL		390980	3751675	1.92E-06	1.76YrCanc	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
69	ALL		391030	3751675	2.19E-06	1.76YrCanc	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
70	ALL		391080	3751675	2.48E-06	1.76YrCanc	2.48E-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
71	ALL		391130	3751675	2.78E-06	1.76YrCanc	2.78E-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
72	ALL		391180	3751675	3.06E-06	1.76YrCanc	3.06E-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
73	ALL		391230	3751675	3.28E-06	1.76YrCanc	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
74	ALL		391280	3751675	3.38E-06	1.76YrCanc	3.38E-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
75	ALL		391330	3751675	3.35E-06	1.76YrCanc	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
76	ALL		391380	3751675	3.19E-06	1.76YrCanc	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
77	ALL		391430	3751675	2.94E-06	1.76YrCanc	2.94E-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
78	ALL		391480	3751675	2.64E-06	1.76YrCanc	2.64E-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
79	ALL		391530	3751675	2.34E-06	1.76YrCanc	2.34E-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
80	ALL		391580	3751675	2.05E-06	1.76YrCanc	2.05E-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
81	ALL		391630	3751675	1.80E-06	1.76YrCanc	1.80E-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
82	ALL		391680	3751675	1.58E-06	1.76YrCanc	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
83	ALL		391730	3751675	1.39E-06	1.76YrCanc	1.39E-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
84	ALL		391780	3751675	1.23E-06	1.76YrCanc	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
85	ALL		390780	3751725	1.23E-06	1.76YrCanc	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
86	ALL		390830	3751725	1.41E-06	1.76YrCanc	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
87	ALL		390880	3751725	1.62E-06	1.76YrCanc	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
88	ALL		390930	3751725	1.88E-06	1.76YrCanc	1.88E-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
89	ALL		390980	3751725	2.19E-06	1.76YrCanc	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
90	ALL		391030	3751725	2.57E-06	1.76YrCanc	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
91	ALL		391080	3751725	3.00E-06	1.76YrCanc	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
92	ALL		391130	3751725	3.48E-06	1.76YrCanc	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
93	ALL		391180	3751725	3.96E-06	1.76YrCanc	3.96E-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
94	ALL		391230	3751725	4.35E-06	1.76YrCanc	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
95	ALL		391280	3751725	4.55E-06	1.76YrCanc	4.55E-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
96	ALL		391330	3751725	4.49E-06	1.76YrCanc	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
97	ALL		391380	3751725	4.20E-06	1.76YrCanc	4.20E-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
98	ALL		391430	3751725	3.75E-06	1.76YrCanc	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
99	ALL		391530	3751725	2.80E-06	1.76YrCanc	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
100	ALL		391580	3751725	2.39E-06	1.76YrCanc	2.39E-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

101	ALL	391630	3751725	2.04E-06	1.76YrCanc	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
102	ALL	391680	3751725	1.76E-06	1.76YrCanc	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
103	ALL	391730	3751725	1.52E-06	1.76YrCanc	1.52E-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
104	ALL	391780	3751725	1.33E-06	1.76YrCanc	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
105	ALL	390780	3751775	1.31E-06	1.76YrCanc	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
106	ALL	390830	3751775	1.52E-06	1.76YrCanc	1.52E-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
107	ALL	390880	3751775	1.77E-06	1.76YrCanc	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
108	ALL	390930	3751775	2.09E-06	1.76YrCanc	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
109	ALL	390980	3751775	2.50E-06	1.76YrCanc	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
110	ALL	391030	3751775	3.01E-06	1.76YrCanc	3.01E-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
111	ALL	391080	3751775	3.65E-06	1.76YrCanc	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
112	ALL	391130	3751775	4.43E-06	1.76YrCanc	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
113	ALL	391180	3751775	5.29E-06	1.76YrCanc	5.29E-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
114	ALL	391230	3751775	6.09E-06	1.76YrCanc	6.09E-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
115	ALL	391280	3751775	6.53E-06	1.76YrCanc	6.53E-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
116	ALL	391330	3751775	6.42E-06	1.76YrCanc	6.42E-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
117	ALL	391380	3751775	5.80E-06	1.76YrCanc	5.80E-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
118	ALL	391430	3751775	4.93E-06	1.76YrCanc	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
119	ALL	391580	3751775	2.78E-06	1.76YrCanc	2.78E-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
120	ALL	391630	3751775	2.31E-06	1.76YrCanc	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
121	ALL	391680	3751775	1.95E-06	1.76YrCanc	1.95E-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
122	ALL	391730	3751775	1.66E-06	1.76YrCanc	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
123	ALL	391780	3751775	1.43E-06	1.76YrCanc	1.43E-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
124	ALL	390780	3751825	1.39E-06	1.76YrCanc	1.39E-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
125	ALL	390830	3751825	1.62E-06	1.76YrCanc	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
126	ALL	390880	3751825	1.91E-06	1.76YrCanc	1.91E-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
127	ALL	390930	3751825	2.30E-06	1.76YrCanc	2.30E-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
128	ALL	390980	3751825	2.81E-06	1.76YrCanc	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
129	ALL	391030	3751825	3.50E-06	1.76YrCanc	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
130	ALL	391080	3751825	4.44E-06	1.76YrCanc	4.44E-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
131	ALL	391180	3751825	7.37E-06	1.76YrCanc	7.37E-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
132	ALL	391230	3751825	9.20E-06	1.76YrCanc	9.20E-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
133	ALL	391280	3751825	1.04E-05	1.76YrCanc	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
134	ALL	391330	3751825	1.02E-05	1.76YrCanc	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
135	ALL	391380	3751825	8.55E-06	1.76YrCanc	8.55E-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
136	ALL	391580	3751825	3.20E-06	1.76YrCanc	3.20E-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
137	ALL	391630	3751825	2.59E-06	1.76YrCanc	2.59E-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
138	ALL	391680	3751825	2.13E-06	1.76YrCanc	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
139	ALL	391730	3751825	1.79E-06	1.76YrCanc	1.79E-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
140	ALL	391780	3751825	1.52E-06	1.76YrCanc	1.52E-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
141	ALL	390780	3751875	1.44E-06	1.76YrCanc	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
142	ALL	390830	3751875	1.70E-06	1.76YrCanc	1.70E-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
143	ALL	390880	3751875	2.04E-06	1.76YrCanc	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
144	ALL	390930	3751875	2.48E-06	1.76YrCanc	2.48E-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
145	ALL	390980	3751875	3.11E-06	1.76YrCanc	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	391030	3751875	4.00E-06	1.76YrCanc	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
147	ALL	391080	3751875	5.32E-06	1.76YrCanc	5.32E-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
148	ALL	391180	3751875	1.06E-05	1.76YrCanc	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
149	ALL	391230	3751875	1.55E-05	1.76YrCanc	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
150	ALL	391330	3751875	1.92E-05	1.76YrCanc	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
151	ALL	391380	3751875	1.37E-05	1.76YrCanc	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
152	ALL	391430	3751875	9.28E-06	1.76YrCanc	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
153	ALL	391580	3751875	3.62E-06	1.76YrCanc	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
154	ALL	391630	3751875	2.85E-06	1.76YrCanc	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
155	ALL	391680	3751875	2.31E-06	1.76YrCanc	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
156	ALL	391730	3751875	1.91E-06	1.76YrCanc	1.91E-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
157	ALL	391780	3751875	1.60E-06	1.76YrCanc	1.60E-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
158	ALL	390780	3751925	1.48E-06	1.76YrCanc	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
159	ALL	390830	3751925	1.76E-06	1.76YrCanc	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
160	ALL	390880	3751925	2.12E-06	1.76YrCanc	2.12E-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
161	ALL	390930	3751925	2.62E-06	1.76YrCanc	2.62E-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
162	ALL	390980	3751925	3.34E-06	1.76YrCanc	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
163	ALL	391080	3751925	6.13E-06	1.76YrCanc	6.13E-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
164	ALL	391380	3751925	2.35E-05	1.76YrCanc	2.35E-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
165	ALL	391580	3751925	4.00E-06	1.76YrCanc	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
166	ALL	391630	3751925	3.07E-06	1.76YrCanc	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
167	ALL	391680	3751925	2.45E-06	1.76YrCanc	2.45E-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
168	ALL	391730	3751925	2.00E-06	1.76YrCanc	2.00E-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
169	ALL	391780	3751925	1.67E-06	1.76YrCanc	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
170	ALL	390780	3751975	1.51E-06	1.76YrCanc	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
171	ALL	390830	3751975	1.79E-06	1.76YrCanc	1.79E-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
172	ALL	390880	3751975	2.17E-06	1.76YrCanc	2.17E-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
173	ALL	390930	3751975	2.70E-06	1.76YrCanc	2.70E-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
174	ALL	390980	3751975	3.47E-06	1.76YrCanc	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
175	ALL	391030	3751975	4.66E-06	1.76YrCanc	4.66E-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
176	ALL	391080	3751975	6.65E-06	1.76YrCanc	6.65E-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
177	ALL	391180	3751975	1.94E-05	1.76YrCanc	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
178	ALL	391580	3751975	4.27E-06	1.76YrCanc	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
179	ALL	391630	3751975	3.23E-06	1.76YrCanc	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
180	ALL	391680	3751975	2.55E-06	1.76YrCanc	2.55E-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
181	ALL	391730	3751975	2.06E-06	1.76YrCanc	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
182	ALL	391780	3751975	1.71E-06	1.76YrCanc	1.71E-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
183	ALL	390780	3752025	1.50E-06	1.76YrCanc	1.50E-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
184	ALL	390830	3752025	1.79E-06	1.76YrCanc	1.79E-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
185	ALL	390880	3752025	2.17E-06	1.76YrCanc	2.17E-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
186	ALL	390930	3752025	2.69E-06	1.76YrCanc	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
187	ALL	390980	3752025	3.46E-06	1.76YrCanc	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
188	ALL	391030	3752025	4.64E-06	1.76YrCanc	4.64E-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
189	ALL	391080	3752025	6.62E-06	1.76YrCanc	6.62E-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
190	ALL	391180	3752025	1.94E-05	1.76YrCanc	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
191	ALL	391530	3752025	6.13E-06	1.76YrCanc	6.13E-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
192	ALL	391580	3752025	4.38E-06	1.76YrCanc	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
193	ALL	391630	3752025	3.30E-06	1.76YrCanc	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
194	ALL	391680	3752025	2.59E-06	1.76YrCanc	2.59E-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
195	ALL	391730	3752025	2.09E-06	1.76YrCanc	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
196	ALL	391780	3752025	1.73E-06	1.76YrCanc	1.73E-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
197	ALL	390780	3752075	1.36E-06	1.76YrCanc	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
198	ALL	390830	3752075	1.75E-06	1.76YrCanc	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
199	ALL	390880	3752075	2.12E-06	1.76YrCanc	2.12E-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
200	ALL	390930	3752075	2.61E-06	1.76YrCanc	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
201	ALL	390980	3752075	3.32E-06	1.76YrCanc	3.32E-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

202	ALL	391030	3752075	4.38E-06	1.76YrCanc	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
203	ALL	391580	3752075	4.29E-06	1.76YrCanc	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
204	ALL	391630	3752075	3.26E-06	1.76YrCanc	3.26E-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
205	ALL	391680	3752075	2.57E-06	1.76YrCanc	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
206	ALL	391730	3752075	2.08E-06	1.76YrCanc	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
207	ALL	391780	3752075	1.73E-06	1.76YrCanc	1.73E-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
208	ALL	390780	3752125	1.43E-06	1.76YrCanc	1.43E-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
209	ALL	390830	3752125	1.69E-06	1.76YrCanc	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
210	ALL	390880	3752125	2.02E-06	1.76YrCanc	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
211	ALL	390930	3752125	2.47E-06	1.76YrCanc	2.47E-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
212	ALL	390980	3752125	3.08E-06	1.76YrCanc	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
213	ALL	391030	3752125	3.96E-06	1.76YrCanc	3.96E-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
214	ALL	391230	3752125	1.60E-05	1.76YrCanc	1.60E-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
215	ALL	391280	3752125	2.23E-05	1.76YrCanc	2.23E-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
216	ALL	391330	3752125	2.27E-05	1.76YrCanc	2.27E-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
217	ALL	391380	3752125	1.65E-05	1.76YrCanc	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
218	ALL	391430	3752125	1.10E-05	1.76YrCanc	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
219	ALL	391530	3752125	5.39E-06	1.76YrCanc	5.39E-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
220	ALL	391580	3752125	4.03E-06	1.76YrCanc	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
221	ALL	391630	3752125	3.13E-06	1.76YrCanc	3.13E-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
222	ALL	391680	3752125	2.49E-06	1.76YrCanc	2.49E-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
223	ALL	391730	3752125	2.04E-06	1.76YrCanc	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
224	ALL	391780	3752125	1.70E-06	1.76YrCanc	1.70E-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
225	ALL	390780	3752175	1.37E-06	1.76YrCanc	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
226	ALL	390830	3752175	1.61E-06	1.76YrCanc	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
227	ALL	390880	3752175	1.90E-06	1.76YrCanc	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
228	ALL	390930	3752175	2.28E-06	1.76YrCanc	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
229	ALL	390980	3752175	2.78E-06	1.76YrCanc	2.78E-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
230	ALL	391030	3752175	3.47E-06	1.76YrCanc	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
231	ALL	391280	3752175	1.16E-05	1.76YrCanc	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
232	ALL	391330	3752175	1.18E-05	1.76YrCanc	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
233	ALL	391380	3752175	1.02E-05	1.76YrCanc	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
234	ALL	391430	3752175	8.03E-06	1.76YrCanc	8.03E-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
235	ALL	391530	3752175	4.69E-06	1.76YrCanc	4.69E-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
236	ALL	391580	3752175	3.66E-06	1.76YrCanc	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
237	ALL	391630	3752175	2.91E-06	1.76YrCanc	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
238	ALL	391680	3752175	2.37E-06	1.76YrCanc	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
239	ALL	391730	3752175	1.96E-06	1.76YrCanc	1.96E-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
240	ALL	391780	3752175	1.65E-06	1.76YrCanc	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
241	ALL	390780	3752225	1.30E-06	1.76YrCanc	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
242	ALL	390830	3752225	1.50E-06	1.76YrCanc	1.50E-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
243	ALL	390880	3752225	1.75E-06	1.76YrCanc	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
244	ALL	390930	3752225	2.07E-06	1.76YrCanc	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
245	ALL	390980	3752225	2.47E-06	1.76YrCanc	2.47E-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
246	ALL	391030	3752225	3.00E-06	1.76YrCanc	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
247	ALL	391280	3752225	7.28E-06	1.76YrCanc	7.28E-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
248	ALL	391330	3752225	7.42E-06	1.76YrCanc	7.42E-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
249	ALL	391380	3752225	6.87E-06	1.76YrCanc	6.87E-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
250	ALL	391430	3752225	5.91E-06	1.76YrCanc	5.91E-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
251	ALL	391530	3752225	3.96E-06	1.76YrCanc	3.96E-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
252	ALL	391580	3752225	3.23E-06	1.76YrCanc	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
253	ALL	391630	3752225	2.65E-06	1.76YrCanc	2.65E-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
254	ALL	391680	3752225	2.20E-06	1.76YrCanc	2.20E-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
255	ALL	391730	3752225	1.85E-06	1.76YrCanc	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
256	ALL	391780	3752225	1.58E-06	1.76YrCanc	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
257	ALL	390780	3752275	1.22E-06	1.76YrCanc	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
258	ALL	390830	3752275	1.39E-06	1.76YrCanc	1.39E-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
259	ALL	390880	3752275	1.60E-06	1.76YrCanc	1.60E-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
260	ALL	390930	3752275	1.87E-06	1.76YrCanc	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	390980	3752275	2.18E-06	1.76YrCanc	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
262	ALL	391030	3752275	2.57E-06	1.76YrCanc	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
263	ALL	391080	3752275	3.03E-06	1.76YrCanc	3.03E-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
264	ALL	391130	3752275	3.56E-06	1.76YrCanc	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
265	ALL	391180	3752275	4.14E-06	1.76YrCanc	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
266	ALL	391230	3752275	4.69E-06	1.76YrCanc	4.69E-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
267	ALL	391280	3752275	5.07E-06	1.76YrCanc	5.07E-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
268	ALL	391330	3752275	5.17E-06	1.76YrCanc	5.17E-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
269	ALL	391380	3752275	4.93E-06	1.76YrCanc	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
270	ALL	391430	3752275	4.46E-06	1.76YrCanc	4.46E-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
271	ALL	391480	3752275	3.88E-06	1.76YrCanc	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
272	ALL	391530	3752275	3.31E-06	1.76YrCanc	3.31E-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
273	ALL	391580	3752275	2.80E-06	1.76YrCanc	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
274	ALL	391630	3752275	2.37E-06	1.76YrCanc	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
275	ALL	391680	3752275	2.02E-06	1.76YrCanc	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
276	ALL	391730	3752275	1.73E-06	1.76YrCanc	1.73E-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
277	ALL	391780	3752275	1.49E-06	1.76YrCanc	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
278	ALL	390780	3752325	1.14E-06	1.76YrCanc	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
279	ALL	390830	3752325	1.28E-06	1.76YrCanc	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
280	ALL	390880	3752325	1.46E-06	1.76YrCanc	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
281	ALL	390930	3752325	1.67E-06	1.76YrCanc	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
282	ALL	390980	3752325	1.92E-06	1.76YrCanc	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
283	ALL	391030	3752325	2.20E-06	1.76YrCanc	2.20E-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
284	ALL	391080	3752325	2.52E-06	1.76YrCanc	2.52E-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
285	ALL	391130	3752325	2.88E-06	1.76YrCanc	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
286	ALL	391180	3752325	3.23E-06	1.76YrCanc	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
287	ALL	391230	3752325	3.55E-06	1.76YrCanc	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
288	ALL	391280	3752325	3.77E-06	1.76YrCanc	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
289	ALL	391330	3752325	3.83E-06	1.76YrCanc	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
290	ALL	391380	3752325	3.72E-06	1.76YrCanc	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
291	ALL	391430	3752325	3.47E-06	1.76YrCanc	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
292	ALL	391480	3752325	3.13E-06	1.76YrCanc	3.13E-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
293	ALL	391530	3752325	2.77E-06	1.76YrCanc	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
294	ALL	391580	3752325	2.42E-06	1.76YrCanc	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
295	ALL	391630	3752325	2.10E-06	1.76YrCanc	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
296	ALL	391680	3752325	1.82E-06	1.76YrCanc	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
297	ALL	391730	3752325	1.59E-06	1.76YrCanc	1.59E-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
298	ALL	391780	3752325	1.39E-06	1.76YrCanc	1.39E-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
299	ALL	390780	3752375	1.06E-06	1.76YrCanc	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
300	ALL	390830	3752375	1.18E-06	1.76YrCanc	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
301	ALL	390880	3752375	1.32E-06	1.76YrCanc	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
302	ALL	390930	3752375	1.49E-06	1.76YrCanc	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

303	ALL	390980	3752375	1.68E-06	1.76YrCanc	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
304	ALL	391030	3752375	1.89E-06	1.76YrCanc	1.89E-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
305	ALL	391080	3752375	2.12E-06	1.76YrCanc	2.12E-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
306	ALL	391130	3752375	2.36E-06	1.76YrCanc	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
307	ALL	391180	3752375	2.59E-06	1.76YrCanc	2.59E-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
308	ALL	391230	3752375	2.79E-06	1.76YrCanc	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
309	ALL	391280	3752375	2.93E-06	1.76YrCanc	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
310	ALL	391330	3752375	2.97E-06	1.76YrCanc	2.97E-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
311	ALL	391380	3752375	2.91E-06	1.76YrCanc	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
312	ALL	391430	3752375	2.77E-06	1.76YrCanc	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
313	ALL	391480	3752375	2.56E-06	1.76YrCanc	2.56E-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
314	ALL	391530	3752375	2.32E-06	1.76YrCanc	2.32E-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
315	ALL	391580	3752375	2.08E-06	1.76YrCanc	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
316	ALL	391630	3752375	1.85E-06	1.76YrCanc	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
317	ALL	391680	3752375	1.64E-06	1.76YrCanc	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
318	ALL	391730	3752375	1.45E-06	1.76YrCanc	1.45E-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
319	ALL	391780	3752375	1.29E-06	1.76YrCanc	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
320	ALL	390780	3752425	9.78E-07	1.76YrCanc	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
321	ALL	390830	3752425	1.08E-06	1.76YrCanc	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
322	ALL	390880	3752425	1.20E-06	1.76YrCanc	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
323	ALL	390930	3752425	1.33E-06	1.76YrCanc	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
324	ALL	390980	3752425	1.48E-06	1.76YrCanc	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
325	ALL	391030	3752425	1.64E-06	1.76YrCanc	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
326	ALL	391080	3752425	1.81E-06	1.76YrCanc	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
327	ALL	391130	3752425	1.97E-06	1.76YrCanc	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
328	ALL	391180	3752425	2.13E-06	1.76YrCanc	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
329	ALL	391230	3752425	2.26E-06	1.76YrCanc	2.26E-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
330	ALL	391280	3752425	2.35E-06	1.76YrCanc	2.35E-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
331	ALL	391330	3752425	2.38E-06	1.76YrCanc	2.38E-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
332	ALL	391380	3752425	2.35E-06	1.76YrCanc	2.35E-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
333	ALL	391430	3752425	2.26E-06	1.76YrCanc	2.26E-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
334	ALL	391480	3752425	2.13E-06	1.76YrCanc	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
335	ALL	391530	3752425	1.97E-06	1.76YrCanc	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
336	ALL	391580	3752425	1.80E-06	1.76YrCanc	1.80E-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
337	ALL	391630	3752425	1.63E-06	1.76YrCanc	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
338	ALL	391680	3752425	1.47E-06	1.76YrCanc	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
339	ALL	391730	3752425	1.32E-06	1.76YrCanc	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
340	ALL	391780	3752425	1.19E-06	1.76YrCanc	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
341	ALL	390780	3752475	9.07E-07	1.76YrCanc	9.07E-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
342	ALL	390830	3752475	9.92E-07	1.76YrCanc	9.92E-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
343	ALL	390880	3752475	1.09E-06	1.76YrCanc	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
344	ALL	390930	3752475	1.19E-06	1.76YrCanc	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
345	ALL	390980	3752475	1.31E-06	1.76YrCanc	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
346	ALL	391030	3752475	1.43E-06	1.76YrCanc	1.43E-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
347	ALL	391080	3752475	1.55E-06	1.76YrCanc	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
348	ALL	391130	3752475	1.67E-06	1.76YrCanc	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
349	ALL	391180	3752475	1.78E-06	1.76YrCanc	1.78E-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
350	ALL	391230	3752475	1.87E-06	1.76YrCanc	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
351	ALL	391280	3752475	1.93E-06	1.76YrCanc	1.93E-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
352	ALL	391330	3752475	1.96E-06	1.76YrCanc	1.96E-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
353	ALL	391380	3752475	1.94E-06	1.76YrCanc	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
354	ALL	391430	3752475	1.88E-06	1.76YrCanc	1.88E-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
355	ALL	391480	3752475	1.80E-06	1.76YrCanc	1.80E-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
356	ALL	391530	3752475	1.68E-06	1.76YrCanc	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
357	ALL	391580	3752475	1.56E-06	1.76YrCanc	1.56E-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
358	ALL	391630	3752475	1.44E-06	1.76YrCanc	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
359	ALL	391680	3752475	1.31E-06	1.76YrCanc	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
360	ALL	391730	3752475	1.20E-06	1.76YrCanc	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
361	ALL	391780	3752475	1.09E-06	1.76YrCanc	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
362	ALL	390780	3752525	8.36E-07	1.76YrCanc	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
363	ALL	390830	3752525	9.10E-07	1.76YrCanc	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
364	ALL	390880	3752525	9.88E-07	1.76YrCanc	9.88E-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
365	ALL	390930	3752525	1.07E-06	1.76YrCanc	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
366	ALL	390980	3752525	1.16E-06	1.76YrCanc	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
367	ALL	391030	3752525	1.26E-06	1.76YrCanc	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
368	ALL	391080	3752525	1.35E-06	1.76YrCanc	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
369	ALL	391130	3752525	1.44E-06	1.76YrCanc	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
370	ALL	391180	3752525	1.52E-06	1.76YrCanc	1.52E-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
371	ALL	391230	3752525	1.58E-06	1.76YrCanc	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
372	ALL	391280	3752525	1.62E-06	1.76YrCanc	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
373	ALL	391330	3752525	1.64E-06	1.76YrCanc	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
374	ALL	391380	3752525	1.63E-06	1.76YrCanc	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
375	ALL	391430	3752525	1.59E-06	1.76YrCanc	1.59E-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
376	ALL	391480	3752525	1.53E-06	1.76YrCanc	1.53E-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
377	ALL	391530	3752525	1.46E-06	1.76YrCanc	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
378	ALL	391580	3752525	1.37E-06	1.76YrCanc	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
379	ALL	391630	3752525	1.27E-06	1.76YrCanc	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
380	ALL	391680	3752525	1.18E-06	1.76YrCanc	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
381	ALL	391730	3752525	1.09E-06	1.76YrCanc	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
382	ALL	391780	3752525	9.99E-07	1.76YrCanc	9.99E-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
383	ALL	391075	3751820	4.26E-06	1.76YrCanc	4.26E-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
384	ALL	391085	3751820	4.47E-06	1.76YrCanc	4.47E-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
385	ALL	391095	3751820	4.69E-06	1.76YrCanc	4.69E-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
386	ALL	391105	3751820	4.93E-06	1.76YrCanc	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
387	ALL	391115	3751820	5.17E-06	1.76YrCanc	5.17E-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
388	ALL	391135	3751820	5.71E-06	1.76YrCanc	5.71E-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
389	ALL	391145	3751820	6.01E-06	1.76YrCanc	6.01E-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
390	ALL	391155	3751820	6.31E-06	1.76YrCanc	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
391	ALL	391165	3751820	6.63E-06	1.76YrCanc	6.63E-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
392	ALL	391175	3751820	6.96E-06	1.76YrCanc	6.96E-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
393	ALL	391185	3751820	7.29E-06	1.76YrCanc	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
394	ALL	391195	3751820	7.63E-06	1.76YrCanc	7.63E-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
395	ALL	391205	3751820	7.97E-06	1.76YrCanc	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
396	ALL	391215	3751820	8.31E-06	1.76YrCanc	8.31E-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
397	ALL	391225	3751820	8.63E-06	1.76YrCanc	8.63E-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
398	ALL	391235	3751820	8.94E-06	1.76YrCanc	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
399	ALL	391245	3751820	9.23E-06	1.76YrCanc	9.23E-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
400	ALL	391255	3751820	9.48E-06	1.76YrCanc	9.48E-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
401	ALL	391265	3751820	9.68E-06	1.76YrCanc	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
402	ALL	391275	3751820	9.85E-06	1.76YrCanc	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
403	ALL	391285	3751820	9.95E-06	1.76YrCanc	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	391315	3751820	9.88E-06	1.76YrCanc	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
405	ALL	391325	3751820	9.74E-06	1.76YrCanc	9.74E-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
406	ALL	391335	3751820	9.54E-06	1.76YrCanc	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
407	ALL	391345	3751820	9.29E-06	1.76YrCanc	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
408	ALL	391355	3751820	9.01E-06	1.76YrCanc	9.01E-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
409	ALL	391365	3751820	8.70E-06	1.76YrCanc	8.70E-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
410	ALL	391375	3751820	8.37E-06	1.76YrCanc	8.37E-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
411	ALL	391385	3751820	8.03E-06	1.76YrCanc	8.03E-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
412	ALL	391395	3751820	7.69E-06	1.76YrCanc	7.69E-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
413	ALL	391405	3751820	7.34E-06	1.76YrCanc	7.34E-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
414	ALL	391415	3751820	6.99E-06	1.76YrCanc	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
415	ALL	391425	3751820	6.65E-06	1.76YrCanc	6.65E-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
416	ALL	391305	3751830	1.11E-05	1.76YrCanc	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
417	ALL	391315	3751830	1.10E-05	1.76YrCanc	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
418	ALL	391325	3751830	1.08E-05	1.76YrCanc	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
419	ALL	391335	3751830	1.06E-05	1.76YrCanc	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
420	ALL	391345	3751830	1.03E-05	1.76YrCanc	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
421	ALL	391355	3751830	9.92E-06	1.76YrCanc	9.92E-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
422	ALL	391365	3751830	9.54E-06	1.76YrCanc	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
423	ALL	391375	3751830	9.14E-06	1.76YrCanc	9.14E-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
424	ALL	391385	3751830	8.72E-06	1.76YrCanc	8.72E-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
425	ALL	391395	3751830	8.32E-06	1.76YrCanc	8.32E-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
426	ALL	391405	3751830	7.91E-06	1.76YrCanc	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
427	ALL	391415	3751830	7.50E-06	1.76YrCanc	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
428	ALL	391425	3751830	7.10E-06	1.76YrCanc	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
429	ALL	391075	3751840	4.58E-06	1.76YrCanc	4.58E-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
430	ALL	391085	3751840	4.83E-06	1.76YrCanc	4.83E-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
431	ALL	391095	3751840	5.09E-06	1.76YrCanc	5.09E-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
432	ALL	391105	3751840	5.38E-06	1.76YrCanc	5.38E-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
433	ALL	391115	3751840	5.68E-06	1.76YrCanc	5.68E-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
434	ALL	391135	3751840	6.35E-06	1.76YrCanc	6.35E-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
435	ALL	391145	3751840	6.73E-06	1.76YrCanc	6.73E-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
436	ALL	391155	3751840	7.12E-06	1.76YrCanc	7.12E-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
437	ALL	391165	3751840	7.55E-06	1.76YrCanc	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
438	ALL	391175	3751840	7.99E-06	1.76YrCanc	7.99E-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
439	ALL	391185	3751840	8.44E-06	1.76YrCanc	8.44E-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
440	ALL	391195	3751840	8.91E-06	1.76YrCanc	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
441	ALL	391205	3751840	9.40E-06	1.76YrCanc	9.40E-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
442	ALL	391215	3751840	9.89E-06	1.76YrCanc	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
443	ALL	391225	3751840	1.04E-05	1.76YrCanc	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
444	ALL	391235	3751840	1.09E-05	1.76YrCanc	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
445	ALL	391245	3751840	1.13E-05	1.76YrCanc	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
446	ALL	391255	3751840	1.17E-05	1.76YrCanc	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
447	ALL	391265	3751840	1.21E-05	1.76YrCanc	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
448	ALL	391275	3751840	1.23E-05	1.76YrCanc	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
449	ALL	391305	3751840	1.25E-05	1.76YrCanc	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
450	ALL	391315	3751840	1.24E-05	1.76YrCanc	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
451	ALL	391325	3751840	1.21E-05	1.76YrCanc	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
452	ALL	391335	3751840	1.18E-05	1.76YrCanc	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
453	ALL	391345	3751840	1.14E-05	1.76YrCanc	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
454	ALL	391355	3751840	1.10E-05	1.76YrCanc	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
455	ALL	391365	3751840	1.05E-05	1.76YrCanc	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
456	ALL	391375	3751840	1.00E-05	1.76YrCanc	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
457	ALL	391385	3751840	9.51E-06	1.76YrCanc	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
458	ALL	391395	3751840	9.01E-06	1.76YrCanc	9.01E-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
459	ALL	391405	3751840	8.53E-06	1.76YrCanc	8.53E-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
460	ALL	391415	3751840	8.06E-06	1.76YrCanc	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
461	ALL	391425	3751840	7.60E-06	1.76YrCanc	7.60E-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
462	ALL	391075	3751850	4.75E-06	1.76YrCanc	4.75E-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
463	ALL	391085	3751850	5.02E-06	1.76YrCanc	5.02E-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
464	ALL	391095	3751850	5.31E-06	1.76YrCanc	5.31E-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
465	ALL	391105	3751850	5.62E-06	1.76YrCanc	5.62E-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
466	ALL	391115	3751850	5.95E-06	1.76YrCanc	5.95E-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
467	ALL	391135	3751850	6.70E-06	1.76YrCanc	6.70E-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
468	ALL	391145	3751850	7.13E-06	1.76YrCanc	7.13E-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
469	ALL	391155	3751850	7.58E-06	1.76YrCanc	7.58E-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
470	ALL	391165	3751850	8.06E-06	1.76YrCanc	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
471	ALL	391175	3751850	8.57E-06	1.76YrCanc	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
472	ALL	391185	3751850	9.11E-06	1.76YrCanc	9.11E-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
473	ALL	391195	3751850	9.67E-06	1.76YrCanc	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
474	ALL	391205	3751850	1.03E-05	1.76YrCanc	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
475	ALL	391215	3751850	1.09E-05	1.76YrCanc	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
476	ALL	391225	3751850	1.15E-05	1.76YrCanc	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
477	ALL	391235	3751850	1.21E-05	1.76YrCanc	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
478	ALL	391245	3751850	1.26E-05	1.76YrCanc	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
479	ALL	391255	3751850	1.32E-05	1.76YrCanc	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
480	ALL	391265	3751850	1.36E-05	1.76YrCanc	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
481	ALL	391275	3751850	1.40E-05	1.76YrCanc	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
482	ALL	391295	3751850	1.43E-05	1.76YrCanc	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
483	ALL	391305	3751850	1.42E-05	1.76YrCanc	1.42E-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
484	ALL	391315	3751850	1.40E-05	1.76YrCanc	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
485	ALL	391325	3751850	1.37E-05	1.76YrCanc	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
486	ALL	391335	3751850	1.33E-05	1.76YrCanc	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
487	ALL	391345	3751850	1.28E-05	1.76YrCanc	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
488	ALL	391355	3751850	1.22E-05	1.76YrCanc	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
489	ALL	391365	3751850	1.16E-05	1.76YrCanc	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
490	ALL	391375	3751850	1.10E-05	1.76YrCanc	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
491	ALL	391385	3751850	1.04E-05	1.76YrCanc	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
492	ALL	391395	3751850	9.80E-06	1.76YrCanc	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
493	ALL	391405	3751850	9.22E-06	1.76YrCanc	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
494	ALL	391415	3751850	8.66E-06	1.76YrCanc	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
495	ALL	391425	3751850	8.13E-06	1.76YrCanc	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
496	ALL	391075	3751860	4.92E-06	1.76YrCanc	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
497	ALL	391085	3751860	5.21E-06	1.76YrCanc	5.21E-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
498	ALL	391095	3751860	5.52E-06	1.76YrCanc	5.52E-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
499	ALL	391105	3751860	5.87E-06	1.76YrCanc	5.87E-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
500	ALL	391115	3751860	6.23E-06	1.76YrCanc	6.23E-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
501	ALL	391135	3751860	7.06E-06	1.76YrCanc	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
502	ALL	391145	3751860	7.54E-06	1.76YrCanc	7.54E-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
503	ALL	391155	3751860	8.05E-06	1.76YrCanc	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
504	ALL	391165	3751860	8.61E-06	1.76YrCanc	8.61E-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

505	ALL	391175	3751860	9.20E-06	1.76YrCanc	9.20E-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
506	ALL	391185	3751860	9.83E-06	1.76YrCanc	9.83E-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
507	ALL	391195	3751860	1.05E-05	1.76YrCanc	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
508	ALL	391205	3751860	1.12E-05	1.76YrCanc	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
509	ALL	391215	3751860	1.20E-05	1.76YrCanc	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
510	ALL	391225	3751860	1.27E-05	1.76YrCanc	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
511	ALL	391235	3751860	1.35E-05	1.76YrCanc	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
512	ALL	391245	3751860	1.42E-05	1.76YrCanc	1.42E-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
513	ALL	391255	3751860	1.49E-05	1.76YrCanc	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
514	ALL	391265	3751860	1.55E-05	1.76YrCanc	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
515	ALL	391275	3751860	1.60E-05	1.76YrCanc	1.60E-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
516	ALL	391295	3751860	1.64E-05	1.76YrCanc	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
517	ALL	391305	3751860	1.64E-05	1.76YrCanc	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
518	ALL	391315	3751860	1.61E-05	1.76YrCanc	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
519	ALL	391325	3751860	1.57E-05	1.76YrCanc	1.57E-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
520	ALL	391335	3751860	1.51E-05	1.76YrCanc	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
521	ALL	391345	3751860	1.45E-05	1.76YrCanc	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
522	ALL	391355	3751860	1.37E-05	1.76YrCanc	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
523	ALL	391365	3751860	1.30E-05	1.76YrCanc	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
524	ALL	391375	3751860	1.22E-05	1.76YrCanc	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
525	ALL	391385	3751860	1.14E-05	1.76YrCanc	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
526	ALL	391395	3751860	1.07E-05	1.76YrCanc	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
527	ALL	391405	3751860	9.98E-06	1.76YrCanc	9.98E-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
528	ALL	391415	3751860	9.32E-06	1.76YrCanc	9.32E-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
529	ALL	391425	3751860	8.71E-06	1.76YrCanc	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
530	ALL	391075	3751870	5.08E-06	1.76YrCanc	5.08E-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
531	ALL	391085	3751870	5.40E-06	1.76YrCanc	5.40E-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
532	ALL	391095	3751870	5.74E-06	1.76YrCanc	5.74E-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
533	ALL	391105	3751870	6.11E-06	1.76YrCanc	6.11E-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
534	ALL	391115	3751870	6.51E-06	1.76YrCanc	6.51E-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
535	ALL	391135	3751870	7.44E-06	1.76YrCanc	7.44E-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
536	ALL	391145	3751870	7.98E-06	1.76YrCanc	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
537	ALL	391155	3751870	8.56E-06	1.76YrCanc	8.56E-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
538	ALL	391165	3751870	9.19E-06	1.76YrCanc	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
539	ALL	391175	3751870	9.88E-06	1.76YrCanc	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
540	ALL	391185	3751870	1.06E-05	1.76YrCanc	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
541	ALL	391195	3751870	1.14E-05	1.76YrCanc	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
542	ALL	391205	3751870	1.23E-05	1.76YrCanc	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
543	ALL	391215	3751870	1.32E-05	1.76YrCanc	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
544	ALL	391225	3751870	1.42E-05	1.76YrCanc	1.42E-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
545	ALL	391235	3751870	1.52E-05	1.76YrCanc	1.52E-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
546	ALL	391245	3751870	1.62E-05	1.76YrCanc	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
547	ALL	391255	3751870	1.71E-05	1.76YrCanc	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
548	ALL	391265	3751870	1.79E-05	1.76YrCanc	1.79E-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
549	ALL	391285	3751870	1.90E-05	1.76YrCanc	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
550	ALL	391295	3751870	1.92E-05	1.76YrCanc	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
551	ALL	391305	3751870	1.91E-05	1.76YrCanc	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
552	ALL	391315	3751870	1.87E-05	1.76YrCanc	1.87E-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
553	ALL	391325	3751870	1.82E-05	1.76YrCanc	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
554	ALL	391335	3751870	1.74E-05	1.76YrCanc	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
555	ALL	391345	3751870	1.65E-05	1.76YrCanc	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
556	ALL	391355	3751870	1.55E-05	1.76YrCanc	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
557	ALL	391365	3751870	1.45E-05	1.76YrCanc	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
558	ALL	391375	3751870	1.35E-05	1.76YrCanc	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
559	ALL	391385	3751870	1.26E-05	1.76YrCanc	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
560	ALL	391395	3751870	1.17E-05	1.76YrCanc	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
561	ALL	391405	3751870	1.08E-05	1.76YrCanc	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
562	ALL	391415	3751870	1.00E-05	1.76YrCanc	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
563	ALL	391425	3751870	9.32E-06	1.76YrCanc	9.32E-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
564	ALL	391075	3751880	5.25E-06	1.76YrCanc	5.25E-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
565	ALL	391085	3751880	5.58E-06	1.76YrCanc	5.58E-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
566	ALL	391095	3751880	5.95E-06	1.76YrCanc	5.95E-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
567	ALL	391105	3751880	6.36E-06	1.76YrCanc	6.36E-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
568	ALL	391115	3751880	6.80E-06	1.76YrCanc	6.80E-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
569	ALL	391135	3751880	7.82E-06	1.76YrCanc	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
570	ALL	391145	3751880	8.43E-06	1.76YrCanc	8.43E-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
571	ALL	391155	3751880	9.09E-06	1.76YrCanc	9.09E-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
572	ALL	391165	3751880	9.81E-06	1.76YrCanc	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
573	ALL	391175	3751880	1.06E-05	1.76YrCanc	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
574	ALL	391185	3751880	1.15E-05	1.76YrCanc	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
575	ALL	391195	3751880	1.24E-05	1.76YrCanc	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
576	ALL	391205	3751880	1.35E-05	1.76YrCanc	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
577	ALL	391215	3751880	1.46E-05	1.76YrCanc	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
578	ALL	391225	3751880	1.59E-05	1.76YrCanc	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
579	ALL	391235	3751880	1.71E-05	1.76YrCanc	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
580	ALL	391245	3751880	1.85E-05	1.76YrCanc	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
581	ALL	391255	3751880	1.98E-05	1.76YrCanc	1.98E-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	391265	3751880	2.10E-05	1.76YrCanc	2.10E-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
583	ALL	391285	3751880	2.26E-05	1.76YrCanc	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
584	ALL	391295	3751880	2.29E-05	1.76YrCanc	2.29E-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
585	ALL	391305	3751880	2.27E-05	1.76YrCanc	2.27E-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
586	ALL	391315	3751880	2.22E-05	1.76YrCanc	2.22E-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
587	ALL	391325	3751880	2.14E-05	1.76YrCanc	2.14E-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
588	ALL	391335	3751880	2.03E-05	1.76YrCanc	2.03E-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
589	ALL	391345	3751880	1.90E-05	1.76YrCanc	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
590	ALL	391355	3751880	1.77E-05	1.76YrCanc	1.77E-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
591	ALL	391365	3751880	1.64E-05	1.76YrCanc	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
592	ALL	391375	3751880	1.51E-05	1.76YrCanc	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
593	ALL	391385	3751880	1.39E-05	1.76YrCanc	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
594	ALL	391395	3751880	1.28E-05	1.76YrCanc	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
595	ALL	391405	3751880	1.18E-05	1.76YrCanc	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
596	ALL	391415	3751880	1.08E-05	1.76YrCanc	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
597	ALL	391425	3751880	9.98E-06	1.76YrCanc	9.98E-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
598	ALL	391075	3751890	5.41E-06	1.76YrCanc	5.41E-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
599	ALL	391085	3751890	5.77E-06	1.76YrCanc	5.77E-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
600	ALL	391095	3751890	6.17E-06	1.76YrCanc	6.17E-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
601	ALL	391105	3751890	6.61E-06	1.76YrCanc	6.61E-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
602	ALL	391115	3751890	7.09E-06	1.76YrCanc	7.09E-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
603	ALL	391135	3751890	8.22E-06	1.76YrCanc	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
604	ALL	391145	3751890	8.90E-06	1.76YrCanc	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
605	ALL	391155	3751890	9.64E-06	1.76YrCanc	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

606	ALL	391165	3751890	1.05E-05	1.76YrCanc	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
607	ALL	391175	3751890	1.14E-05	1.76YrCanc	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
608	ALL	391185	3751890	1.24E-05	1.76YrCanc	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
609	ALL	391195	3751890	1.36E-05	1.76YrCanc	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
610	ALL	391205	3751890	1.48E-05	1.76YrCanc	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
611	ALL	391215	3751890	1.62E-05	1.76YrCanc	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
612	ALL	391225	3751890	1.78E-05	1.76YrCanc	1.78E-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	391235	3751890	1.95E-05	1.76YrCanc	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
614	ALL	391245	3751890	2.14E-05	1.76YrCanc	2.14E-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
615	ALL	391255	3751890	2.32E-05	1.76YrCanc	2.32E-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
616	ALL	391285	3751890	2.75E-05	1.76YrCanc	2.75E-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
617	ALL	391295	3751890	2.78E-05	1.76YrCanc	2.78E-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	391305	3751890	2.76E-05	1.76YrCanc	2.76E-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
619	ALL	391315	3751890	2.68E-05	1.76YrCanc	2.68E-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	391325	3751890	2.56E-05	1.76YrCanc	2.56E-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
621	ALL	391335	3751890	2.40E-05	1.76YrCanc	2.40E-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
622	ALL	391345	3751890	2.22E-05	1.76YrCanc	2.22E-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
623	ALL	391355	3751890	2.04E-05	1.76YrCanc	2.04E-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
624	ALL	391365	3751890	1.86E-05	1.76YrCanc	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
625	ALL	391375	3751890	1.69E-05	1.76YrCanc	1.69E-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	391385	3751890	1.54E-05	1.76YrCanc	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
627	ALL	391395	3751890	1.40E-05	1.76YrCanc	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
628	ALL	391405	3751890	1.28E-05	1.76YrCanc	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
629	ALL	391415	3751890	1.16E-05	1.76YrCanc	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
630	ALL	391425	3751890	1.07E-05	1.76YrCanc	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
631	ALL	391075	3751900	5.57E-06	1.76YrCanc	5.57E-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
632	ALL	391085	3751900	5.96E-06	1.76YrCanc	5.96E-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
633	ALL	391095	3751900	6.38E-06	1.76YrCanc	6.38E-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
634	ALL	391105	3751900	6.86E-06	1.76YrCanc	6.86E-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
635	ALL	391115	3751900	7.38E-06	1.76YrCanc	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
636	ALL	391135	3751900	8.62E-06	1.76YrCanc	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
637	ALL	391145	3751900	9.37E-06	1.76YrCanc	9.37E-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
638	ALL	391155	3751900	1.02E-05	1.76YrCanc	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
639	ALL	391165	3751900	1.11E-05	1.76YrCanc	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
640	ALL	391175	3751900	1.22E-05	1.76YrCanc	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
641	ALL	391185	3751900	1.34E-05	1.76YrCanc	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
642	ALL	391195	3751900	1.48E-05	1.76YrCanc	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
643	ALL	391205	3751900	1.63E-05	1.76YrCanc	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
644	ALL	391215	3751900	1.81E-05	1.76YrCanc	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
645	ALL	391225	3751900	2.01E-05	1.76YrCanc	2.01E-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
646	ALL	391235	3751900	2.24E-05	1.76YrCanc	2.24E-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
647	ALL	391245	3751900	2.50E-05	1.76YrCanc	2.50E-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
648	ALL	391255	3751900	2.77E-05	1.76YrCanc	2.77E-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
649	ALL	391275	3751900	3.29E-05	1.76YrCanc	3.29E-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
650	ALL	391285	3751900	3.45E-05	1.76YrCanc	3.45E-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
651	ALL	391295	3751900	3.50E-05	1.76YrCanc	3.50E-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
652	ALL	391305	3751900	3.45E-05	1.76YrCanc	3.45E-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
653	ALL	391315	3751900	3.32E-05	1.76YrCanc	3.32E-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
654	ALL	391325	3751900	3.13E-05	1.76YrCanc	3.13E-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
655	ALL	391335	3751900	2.90E-05	1.76YrCanc	2.90E-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
656	ALL	391345	3751900	2.64E-05	1.76YrCanc	2.64E-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
657	ALL	391355	3751900	2.37E-05	1.76YrCanc	2.37E-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
658	ALL	391365	3751900	2.12E-05	1.76YrCanc	2.12E-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
659	ALL	391375	3751900	1.90E-05	1.76YrCanc	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
660	ALL	391385	3751900	1.70E-05	1.76YrCanc	1.70E-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
661	ALL	391395	3751900	1.53E-05	1.76YrCanc	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
662	ALL	391405	3751900	1.38E-05	1.76YrCanc	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
663	ALL	391415	3751900	1.25E-05	1.76YrCanc	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
664	ALL	391425	3751900	1.14E-05	1.76YrCanc	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
665	ALL	391075	3751910	5.71E-06	1.76YrCanc	5.71E-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
666	ALL	391085	3751910	6.12E-06	1.76YrCanc	6.12E-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
667	ALL	391095	3751910	6.58E-06	1.76YrCanc	6.58E-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
668	ALL	391105	3751910	7.09E-06	1.76YrCanc	7.09E-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
669	ALL	391115	3751910	7.66E-06	1.76YrCanc	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
670	ALL	391135	3751910	9.01E-06	1.76YrCanc	9.01E-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
671	ALL	391145	3751910	9.84E-06	1.76YrCanc	9.84E-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
672	ALL	391155	3751910	1.08E-05	1.76YrCanc	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
673	ALL	391165	3751910	1.18E-05	1.76YrCanc	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
674	ALL	391175	3751910	1.30E-05	1.76YrCanc	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
675	ALL	391185	3751910	1.44E-05	1.76YrCanc	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
676	ALL	391195	3751910	1.60E-05	1.76YrCanc	1.60E-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
677	ALL	391205	3751910	1.79E-05	1.76YrCanc	1.79E-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
678	ALL	391215	3751910	2.01E-05	1.76YrCanc	2.01E-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
679	ALL	391225	3751910	2.27E-05	1.76YrCanc	2.27E-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
680	ALL	391235	3751910	2.57E-05	1.76YrCanc	2.57E-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
681	ALL	391245	3751910	2.94E-05	1.76YrCanc	2.94E-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
682	ALL	391275	3751910	4.27E-05	1.76YrCanc	4.27E-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
683	ALL	391285	3751910	4.53E-05	1.76YrCanc	4.53E-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
684	ALL	391295	3751910	4.59E-05	1.76YrCanc	4.59E-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
685	ALL	391305	3751910	4.49E-05	1.76YrCanc	4.49E-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
686	ALL	391315	3751910	4.28E-05	1.76YrCanc	4.28E-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
687	ALL	391325	3751910	3.97E-05	1.76YrCanc	3.97E-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
688	ALL	391335	3751910	3.59E-05	1.76YrCanc	3.59E-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
689	ALL	391345	3751910	3.18E-05	1.76YrCanc	3.18E-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
690	ALL	391355	3751910	2.79E-05	1.76YrCanc	2.79E-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
691	ALL	391365	3751910	2.44E-05	1.76YrCanc	2.44E-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
692	ALL	391375	3751910	2.14E-05	1.76YrCanc	2.14E-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
693	ALL	391385	3751910	1.89E-05	1.76YrCanc	1.89E-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
694	ALL	391395	3751910	1.68E-05	1.76YrCanc	1.68E-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
695	ALL	391405	3751910	1.50E-05	1.76YrCanc	1.50E-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
696	ALL	391415	3751910	1.34E-05	1.76YrCanc	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
697	ALL	391425	3751910	1.21E-05	1.76YrCanc	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
698	ALL	391325	3751920	5.30E-05	1.76YrCanc	5.30E-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
699	ALL	391335	3751920	4.63E-05	1.76YrCanc	4.63E-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
700	ALL	391345	3751920	3.94E-05	1.76YrCanc	3.94E-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
701	ALL	391355	3751920	3.31E-05	1.76YrCanc	3.31E-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
702	ALL	391365	3751920	2.80E-05	1.76YrCanc	2.80E-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
703	ALL	391375	3751920	2.40E-05	1.76YrCanc	2.40E-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
704	ALL	391385	3751920	2.08E-05	1.76YrCanc	2.08E-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
705	ALL	391395	3751920	1.83E-05	1.76YrCanc	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
706	ALL	391405	3751920	1.62E-05	1.76YrCanc	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

707	ALL	391415	3751920	1.44E-05	1.76YrCanc	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
708	ALL	391425	3751920	1.29E-05	1.76YrCanc	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
709	ALL	391075	3751930	5.99E-06	1.76YrCanc	5.99E-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
710	ALL	391085	3751930	6.44E-06	1.76YrCanc	6.44E-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
711	ALL	391095	3751930	6.95E-06	1.76YrCanc	6.95E-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
712	ALL	391105	3751930	7.53E-06	1.76YrCanc	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
713	ALL	391115	3751930	8.18E-06	1.76YrCanc	8.18E-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
714	ALL	391135	3751930	9.76E-06	1.76YrCanc	9.76E-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
715	ALL	391145	3751930	1.08E-05	1.76YrCanc	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
716	ALL	391155	3751930	1.19E-05	1.76YrCanc	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
717	ALL	391165	3751930	1.32E-05	1.76YrCanc	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
718	ALL	391175	3751930	1.48E-05	1.76YrCanc	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
719	ALL	391185	3751930	1.66E-05	1.76YrCanc	1.66E-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
720	ALL	391195	3751930	1.88E-05	1.76YrCanc	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
721	ALL	391205	3751930	2.15E-05	1.76YrCanc	2.15E-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
722	ALL	391215	3751930	2.48E-05	1.76YrCanc	2.48E-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
723	ALL	391225	3751930	2.89E-05	1.76YrCanc	2.89E-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
724	ALL	391235	3751930	3.42E-05	1.76YrCanc	3.42E-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
725	ALL	391075	3751940	6.11E-06	1.76YrCanc	6.11E-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
726	ALL	391085	3751940	6.59E-06	1.76YrCanc	6.59E-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
727	ALL	391095	3751940	7.13E-06	1.76YrCanc	7.13E-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
728	ALL	391105	3751940	7.73E-06	1.76YrCanc	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
729	ALL	391115	3751940	8.42E-06	1.76YrCanc	8.42E-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
730	ALL	391135	3751940	1.01E-05	1.76YrCanc	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
731	ALL	391145	3751940	1.12E-05	1.76YrCanc	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
732	ALL	391155	3751940	1.24E-05	1.76YrCanc	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
733	ALL	391165	3751940	1.39E-05	1.76YrCanc	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
734	ALL	391175	3751940	1.56E-05	1.76YrCanc	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
735	ALL	391185	3751940	1.77E-05	1.76YrCanc	1.77E-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
736	ALL	391195	3751940	2.03E-05	1.76YrCanc	2.03E-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
737	ALL	391205	3751940	2.34E-05	1.76YrCanc	2.34E-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
738	ALL	391215	3751940	2.74E-05	1.76YrCanc	2.74E-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
739	ALL	391225	3751940	3.25E-05	1.76YrCanc	3.25E-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
740	ALL	391235	3751940	3.92E-05	1.76YrCanc	3.92E-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
741	ALL	391075	3751950	6.22E-06	1.76YrCanc	6.22E-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
742	ALL	391085	3751950	6.71E-06	1.76YrCanc	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
743	ALL	391095	3751950	7.27E-06	1.76YrCanc	7.27E-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
744	ALL	391105	3751950	7.90E-06	1.76YrCanc	7.90E-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
745	ALL	391115	3751950	8.63E-06	1.76YrCanc	8.63E-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
746	ALL	391135	3751950	1.04E-05	1.76YrCanc	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
747	ALL	391145	3751950	1.16E-05	1.76YrCanc	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
748	ALL	391155	3751950	1.29E-05	1.76YrCanc	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
749	ALL	391165	3751950	1.45E-05	1.76YrCanc	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
750	ALL	391175	3751950	1.64E-05	1.76YrCanc	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
751	ALL	391185	3751950	1.88E-05	1.76YrCanc	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
752	ALL	391195	3751950	2.17E-05	1.76YrCanc	2.17E-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
753	ALL	391205	3751950	2.53E-05	1.76YrCanc	2.53E-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
754	ALL	391215	3751950	3.00E-05	1.76YrCanc	3.00E-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
755	ALL	391225	3751950	3.63E-05	1.76YrCanc	3.63E-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
756	ALL	391235	3751950	4.46E-05	1.76YrCanc	4.46E-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
757	ALL	391075	3751960	6.30E-06	1.76YrCanc	6.30E-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
758	ALL	391085	3751960	6.81E-06	1.76YrCanc	6.81E-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
759	ALL	391095	3751960	7.39E-06	1.76YrCanc	7.39E-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
760	ALL	391105	3751960	8.05E-06	1.76YrCanc	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
761	ALL	391115	3751960	8.80E-06	1.76YrCanc	8.80E-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
762	ALL	391135	3751960	1.07E-05	1.76YrCanc	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
763	ALL	391145	3751960	1.19E-05	1.76YrCanc	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
764	ALL	391155	3751960	1.34E-05	1.76YrCanc	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
765	ALL	391165	3751960	1.51E-05	1.76YrCanc	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
766	ALL	391175	3751960	1.72E-05	1.76YrCanc	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
767	ALL	391185	3751960	1.97E-05	1.76YrCanc	1.97E-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
768	ALL	391195	3751960	2.30E-05	1.76YrCanc	2.30E-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
769	ALL	391205	3751960	2.71E-05	1.76YrCanc	2.71E-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
770	ALL	391215	3751960	3.26E-05	1.76YrCanc	3.26E-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
771	ALL	391225	3751960	4.01E-05	1.76YrCanc	4.01E-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
772	ALL	391075	3751970	6.37E-06	1.76YrCanc	6.37E-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
773	ALL	391085	3751970	6.89E-06	1.76YrCanc	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
774	ALL	391095	3751970	7.49E-06	1.76YrCanc	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
775	ALL	391105	3751970	8.17E-06	1.76YrCanc	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
776	ALL	391115	3751970	8.95E-06	1.76YrCanc	8.95E-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
777	ALL	391135	3751970	1.09E-05	1.76YrCanc	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
778	ALL	391145	3751970	1.22E-05	1.76YrCanc	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
779	ALL	391155	3751970	1.37E-05	1.76YrCanc	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
780	ALL	391165	3751970	1.55E-05	1.76YrCanc	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
781	ALL	391175	3751970	1.78E-05	1.76YrCanc	1.78E-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
782	ALL	391185	3751970	2.06E-05	1.76YrCanc	2.06E-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
783	ALL	391195	3751970	2.42E-05	1.76YrCanc	2.42E-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
784	ALL	391205	3751970	2.89E-05	1.76YrCanc	2.89E-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
785	ALL	391215	3751970	3.52E-05	1.76YrCanc	3.52E-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
786	ALL	391225	3751970	4.39E-05	1.76YrCanc	4.39E-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
787	ALL	391075	3751980	6.41E-06	1.76YrCanc	6.41E-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
788	ALL	391085	3751980	6.95E-06	1.76YrCanc	6.95E-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
789	ALL	391095	3751980	7.55E-06	1.76YrCanc	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
790	ALL	391105	3751980	8.25E-06	1.76YrCanc	8.25E-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
791	ALL	391115	3751980	9.05E-06	1.76YrCanc	9.05E-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
792	ALL	391135	3751980	1.11E-05	1.76YrCanc	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
793	ALL	391145	3751980	1.24E-05	1.76YrCanc	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
794	ALL	391155	3751980	1.40E-05	1.76YrCanc	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
795	ALL	391165	3751980	1.59E-05	1.76YrCanc	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
796	ALL	391175	3751980	1.83E-05	1.76YrCanc	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
797	ALL	391185	3751980	2.13E-05	1.76YrCanc	2.13E-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
798	ALL	391195	3751980	2.52E-05	1.76YrCanc	2.52E-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
799	ALL	391205	3751980	3.04E-05	1.76YrCanc	3.04E-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
800	ALL	391215	3751980	3.76E-05	1.76YrCanc	3.76E-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
801	ALL	391225	3751980	4.77E-05	1.76YrCanc	4.77E-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
802	ALL	391075	3751990	6.44E-06	1.76YrCanc	6.44E-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
803	ALL	391085	3751990	6.98E-06	1.76YrCanc	6.98E-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
804	ALL	391095	3751990	7.59E-06	1.76YrCanc	7.59E-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
805	ALL	391105	3751990	8.30E-06	1.76YrCanc	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
806	ALL	391115	3751990	9.10E-06	1.76YrCanc	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
807	ALL	391135	3751990	1.12E-05	1.76YrCanc	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

808	ALL	391145	3751990	1.25E-05	1.76YrCanc	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
809	ALL	391155	3751990	1.41E-05	1.76YrCanc	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
810	ALL	391165	3751990	1.61E-05	1.76YrCanc	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
811	ALL	391175	3751990	1.86E-05	1.76YrCanc	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
812	ALL	391185	3751990	2.17E-05	1.76YrCanc	2.17E-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
813	ALL	391195	3751990	2.58E-05	1.76YrCanc	2.58E-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
814	ALL	391205	3751990	3.15E-05	1.76YrCanc	3.15E-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
815	ALL	391215	3751990	3.94E-05	1.76YrCanc	3.94E-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
816	ALL	391075	3752000	6.44E-06	1.76YrCanc	6.44E-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
817	ALL	391085	3752000	6.98E-06	1.76YrCanc	6.98E-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
818	ALL	391095	3752000	7.60E-06	1.76YrCanc	7.60E-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
819	ALL	391105	3752000	8.30E-06	1.76YrCanc	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
820	ALL	391115	3752000	9.12E-06	1.76YrCanc	9.12E-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
821	ALL	391135	3752000	1.12E-05	1.76YrCanc	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
822	ALL	391145	3752000	1.25E-05	1.76YrCanc	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
823	ALL	391155	3752000	1.42E-05	1.76YrCanc	1.42E-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
824	ALL	391165	3752000	1.62E-05	1.76YrCanc	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
825	ALL	391175	3752000	1.86E-05	1.76YrCanc	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
826	ALL	391185	3752000	2.18E-05	1.76YrCanc	2.18E-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
827	ALL	391195	3752000	2.61E-05	1.76YrCanc	2.61E-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
828	ALL	391205	3752000	3.19E-05	1.76YrCanc	3.19E-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
829	ALL	391215	3752000	4.04E-05	1.76YrCanc	4.04E-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
830	ALL	391135	3752010	1.11E-05	1.76YrCanc	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
831	ALL	391075	3752020	6.39E-06	1.76YrCanc	6.39E-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
832	ALL	391085	3752020	6.92E-06	1.76YrCanc	6.92E-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
833	ALL	391095	3752020	7.52E-06	1.76YrCanc	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
834	ALL	391105	3752020	8.21E-06	1.76YrCanc	8.21E-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
835	ALL	391115	3752020	9.01E-06	1.76YrCanc	9.01E-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
836	ALL	391135	3752020	1.10E-05	1.76YrCanc	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
837	ALL	391145	3752020	1.23E-05	1.76YrCanc	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
838	ALL	391155	3752020	1.39E-05	1.76YrCanc	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
839	ALL	391165	3752020	1.58E-05	1.76YrCanc	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
840	ALL	391175	3752020	1.82E-05	1.76YrCanc	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
841	ALL	391185	3752020	2.12E-05	1.76YrCanc	2.12E-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
842	ALL	391075	3752030	6.34E-06	1.76YrCanc	6.34E-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
843	ALL	391085	3752030	6.86E-06	1.76YrCanc	6.86E-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
844	ALL	391095	3752030	7.45E-06	1.76YrCanc	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
845	ALL	391105	3752030	8.13E-06	1.76YrCanc	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
846	ALL	391115	3752030	8.90E-06	1.76YrCanc	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
847	ALL	391135	3752030	1.09E-05	1.76YrCanc	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
848	ALL	391145	3752030	1.21E-05	1.76YrCanc	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
849	ALL	391155	3752030	1.37E-05	1.76YrCanc	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
850	ALL	391165	3752030	1.55E-05	1.76YrCanc	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
851	ALL	391175	3752030	1.78E-05	1.76YrCanc	1.78E-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
852	ALL	391185	3752030	2.06E-05	1.76YrCanc	2.06E-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
853	ALL	391075	3752040	6.27E-06	1.76YrCanc	6.27E-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
854	ALL	391085	3752040	6.77E-06	1.76YrCanc	6.77E-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
855	ALL	391095	3752040	7.35E-06	1.76YrCanc	7.35E-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
856	ALL	391105	3752040	8.00E-06	1.76YrCanc	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
857	ALL	391115	3752040	8.75E-06	1.76YrCanc	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
858	ALL	391135	3752040	1.06E-05	1.76YrCanc	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
859	ALL	391145	3752040	1.18E-05	1.76YrCanc	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
860	ALL	391155	3752040	1.33E-05	1.76YrCanc	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
861	ALL	391165	3752040	1.50E-05	1.76YrCanc	1.50E-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
862	ALL	391175	3752040	1.71E-05	1.76YrCanc	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
863	ALL	391185	3752040	1.97E-05	1.76YrCanc	1.97E-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
864	ALL	391075	3752050	6.18E-06	1.76YrCanc	6.18E-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
865	ALL	391085	3752050	6.67E-06	1.76YrCanc	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
866	ALL	391095	3752050	7.22E-06	1.76YrCanc	7.22E-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
867	ALL	391105	3752050	7.85E-06	1.76YrCanc	7.85E-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
868	ALL	391115	3752050	8.57E-06	1.76YrCanc	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
869	ALL	391135	3752050	1.04E-05	1.76YrCanc	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
870	ALL	391145	3752050	1.15E-05	1.76YrCanc	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
871	ALL	391155	3752050	1.28E-05	1.76YrCanc	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
872	ALL	391165	3752050	1.44E-05	1.76YrCanc	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
873	ALL	391175	3752050	1.64E-05	1.76YrCanc	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
874	ALL	391185	3752050	1.87E-05	1.76YrCanc	1.87E-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
875	ALL	391135	3752060	1.00E-05	1.76YrCanc	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
876	ALL	391145	3752060	1.11E-05	1.76YrCanc	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
877	ALL	391155	3752060	1.24E-05	1.76YrCanc	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
878	ALL	391165	3752060	1.38E-05	1.76YrCanc	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
879	ALL	391175	3752060	1.55E-05	1.76YrCanc	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
880	ALL	391185	3752060	1.76E-05	1.76YrCanc	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
881	ALL	391135	3752070	9.69E-06	1.76YrCanc	9.69E-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
882	ALL	391145	3752070	1.07E-05	1.76YrCanc	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
883	ALL	391155	3752070	1.18E-05	1.76YrCanc	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
884	ALL	391135	3752080	9.32E-06	1.76YrCanc	9.32E-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
885	ALL	391145	3752080	1.02E-05	1.76YrCanc	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
886	ALL	391155	3752080	1.12E-05	1.76YrCanc	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
887	ALL	391235	3752120	1.77E-05	1.76YrCanc	1.77E-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
888	ALL	391245	3752120	1.92E-05	1.76YrCanc	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
889	ALL	391255	3752120	2.07E-05	1.76YrCanc	2.07E-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
890	ALL	391265	3752120	2.22E-05	1.76YrCanc	2.22E-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
891	ALL	391275	3752120	2.36E-05	1.76YrCanc	2.36E-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
892	ALL	391285	3752120	2.47E-05	1.76YrCanc	2.47E-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
893	ALL	391295	3752120	2.55E-05	1.76YrCanc	2.55E-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
894	ALL	391305	3752120	2.58E-05	1.76YrCanc	2.58E-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
895	ALL	391315	3752120	2.56E-05	1.76YrCanc	2.56E-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
896	ALL	391325	3752120	2.50E-05	1.76YrCanc	2.50E-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
897	ALL	391335	3752120	2.40E-05	1.76YrCanc	2.40E-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
898	ALL	391345	3752120	2.27E-05	1.76YrCanc	2.27E-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
899	ALL	391355	3752120	2.12E-05	1.76YrCanc	2.12E-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
900	ALL	391365	3752120	1.97E-05	1.76YrCanc	1.97E-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
901	ALL	391375	3752120	1.81E-05	1.76YrCanc	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
902	ALL	391385	3752120	1.66E-05	1.76YrCanc	1.66E-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
903	ALL	391395	3752120	1.52E-05	1.76YrCanc	1.52E-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
904	ALL	391405	3752120	1.40E-05	1.76YrCanc	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
905	ALL	391415	3752120	1.28E-05	1.76YrCanc	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
906	ALL	391425	3752120	1.18E-05	1.76YrCanc	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
907	ALL	391235	3752130	1.57E-05	1.76YrCanc	1.57E-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
908	ALL	391245	3752130	1.69E-05	1.76YrCanc	1.69E-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

909	ALL	391255	3752130	1.80E-05	1.76YrCanc	1.80E-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
910	ALL	391265	3752130	1.92E-05	1.76YrCanc	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
911	ALL	391275	3752130	2.02E-05	1.76YrCanc	2.02E-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
912	ALL	391285	3752130	2.10E-05	1.76YrCanc	2.10E-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
913	ALL	391295	3752130	2.15E-05	1.76YrCanc	2.15E-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
914	ALL	391305	3752130	2.18E-05	1.76YrCanc	2.18E-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
915	ALL	391315	3752130	2.17E-05	1.76YrCanc	2.17E-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
916	ALL	391325	3752130	2.13E-05	1.76YrCanc	2.13E-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
917	ALL	391335	3752130	2.06E-05	1.76YrCanc	2.06E-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
918	ALL	391345	3752130	1.97E-05	1.76YrCanc	1.97E-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
919	ALL	391355	3752130	1.86E-05	1.76YrCanc	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
920	ALL	391365	3752130	1.74E-05	1.76YrCanc	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
921	ALL	391375	3752130	1.63E-05	1.76YrCanc	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
922	ALL	391385	3752130	1.51E-05	1.76YrCanc	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
923	ALL	391395	3752130	1.40E-05	1.76YrCanc	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
924	ALL	391405	3752130	1.29E-05	1.76YrCanc	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
925	ALL	391415	3752130	1.20E-05	1.76YrCanc	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
926	ALL	391425	3752130	1.11E-05	1.76YrCanc	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
927	ALL	391235	3752140	1.41E-05	1.76YrCanc	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
928	ALL	391245	3752140	1.50E-05	1.76YrCanc	1.50E-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
929	ALL	391255	3752140	1.59E-05	1.76YrCanc	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
930	ALL	391265	3752140	1.67E-05	1.76YrCanc	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
931	ALL	391275	3752140	1.75E-05	1.76YrCanc	1.75E-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
932	ALL	391285	3752140	1.81E-05	1.76YrCanc	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
933	ALL	391295	3752140	1.85E-05	1.76YrCanc	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
934	ALL	391305	3752140	1.87E-05	1.76YrCanc	1.87E-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
935	ALL	391315	3752140	1.86E-05	1.76YrCanc	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
936	ALL	391325	3752140	1.84E-05	1.76YrCanc	1.84E-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
937	ALL	391335	3752140	1.79E-05	1.76YrCanc	1.79E-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
938	ALL	391345	3752140	1.72E-05	1.76YrCanc	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
939	ALL	391355	3752140	1.64E-05	1.76YrCanc	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
940	ALL	391365	3752140	1.56E-05	1.76YrCanc	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
941	ALL	391375	3752140	1.46E-05	1.76YrCanc	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
942	ALL	391385	3752140	1.37E-05	1.76YrCanc	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
943	ALL	391395	3752140	1.28E-05	1.76YrCanc	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
944	ALL	391405	3752140	1.19E-05	1.76YrCanc	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
945	ALL	391415	3752140	1.11E-05	1.76YrCanc	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
946	ALL	391425	3752140	1.04E-05	1.76YrCanc	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
947	ALL	391235	3752150	1.27E-05	1.76YrCanc	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
948	ALL	391245	3752150	1.34E-05	1.76YrCanc	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
949	ALL	391255	3752150	1.41E-05	1.76YrCanc	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
950	ALL	391265	3752150	1.47E-05	1.76YrCanc	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
951	ALL	391275	3752150	1.53E-05	1.76YrCanc	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
952	ALL	391285	3752150	1.58E-05	1.76YrCanc	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
953	ALL	391295	3752150	1.61E-05	1.76YrCanc	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
954	ALL	391305	3752150	1.62E-05	1.76YrCanc	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
955	ALL	391315	3752150	1.62E-05	1.76YrCanc	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
956	ALL	391325	3752150	1.60E-05	1.76YrCanc	1.60E-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
957	ALL	391335	3752150	1.57E-05	1.76YrCanc	1.57E-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
958	ALL	391345	3752150	1.52E-05	1.76YrCanc	1.52E-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
959	ALL	391355	3752150	1.46E-05	1.76YrCanc	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
960	ALL	391365	3752150	1.40E-05	1.76YrCanc	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
961	ALL	391375	3752150	1.32E-05	1.76YrCanc	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
962	ALL	391385	3752150	1.25E-05	1.76YrCanc	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
963	ALL	391395	3752150	1.18E-05	1.76YrCanc	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
964	ALL	391405	3752150	1.11E-05	1.76YrCanc	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
965	ALL	391415	3752150	1.04E-05	1.76YrCanc	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
966	ALL	391425	3752150	9.72E-06	1.76YrCanc	9.72E-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
967	ALL	391235	3752160	1.15E-05	1.76YrCanc	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
968	ALL	391245	3752160	1.20E-05	1.76YrCanc	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
969	ALL	391255	3752160	1.26E-05	1.76YrCanc	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
970	ALL	391265	3752160	1.31E-05	1.76YrCanc	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
971	ALL	391275	3752160	1.35E-05	1.76YrCanc	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
972	ALL	391285	3752160	1.39E-05	1.76YrCanc	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
973	ALL	391295	3752160	1.42E-05	1.76YrCanc	1.42E-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
974	ALL	391305	3752160	1.43E-05	1.76YrCanc	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
975	ALL	391315	3752160	1.43E-05	1.76YrCanc	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
976	ALL	391325	3752160	1.42E-05	1.76YrCanc	1.42E-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
977	ALL	391335	3752160	1.39E-05	1.76YrCanc	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
978	ALL	391345	3752160	1.35E-05	1.76YrCanc	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
979	ALL	391355	3752160	1.31E-05	1.76YrCanc	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
980	ALL	391365	3752160	1.26E-05	1.76YrCanc	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
981	ALL	391375	3752160	1.20E-05	1.76YrCanc	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
982	ALL	391385	3752160	1.14E-05	1.76YrCanc	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
983	ALL	391395	3752160	1.08E-05	1.76YrCanc	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
984	ALL	391405	3752160	1.02E-05	1.76YrCanc	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
985	ALL	391415	3752160	9.65E-06	1.76YrCanc	9.65E-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
986	ALL	391425	3752160	9.10E-06	1.76YrCanc	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
987	ALL	391245	3752170	1.09E-05	1.76YrCanc	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
988	ALL	391255	3752170	1.13E-05	1.76YrCanc	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
989	ALL	391265	3752170	1.17E-05	1.76YrCanc	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
990	ALL	391275	3752170	1.21E-05	1.76YrCanc	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
991	ALL	391285	3752170	1.24E-05	1.76YrCanc	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
992	ALL	391295	3752170	1.26E-05	1.76YrCanc	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
993	ALL	391305	3752170	1.27E-05	1.76YrCanc	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
994	ALL	391315	3752170	1.27E-05	1.76YrCanc	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
995	ALL	391325	3752170	1.26E-05	1.76YrCanc	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
996	ALL	391335	3752170	1.24E-05	1.76YrCanc	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
997	ALL	391345	3752170	1.21E-05	1.76YrCanc	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
998	ALL	391355	3752170	1.18E-05	1.76YrCanc	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
999	ALL	391365	3752170	1.14E-05	1.76YrCanc	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
1000	ALL	391375	3752170	1.09E-05	1.76YrCanc	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
1001	ALL	391385	3752170	1.05E-05	1.76YrCanc	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
1002	ALL	391395	3752170	9.98E-06	1.76YrCanc	9.98E-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
1003	ALL	391405	3752170	9.48E-06	1.76YrCanc	9.48E-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
1004	ALL	391415	3752170	8.99E-06	1.76YrCanc	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
1005	ALL	391425	3752170	8.52E-06	1.76YrCanc	8.52E-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
1006	ALL	391245	3752180	9.90E-06	1.76YrCanc	9.90E-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
1007	ALL	391255	3752180	1.03E-05	1.76YrCanc	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
1008	ALL	391265	3752180	1.06E-05	1.76YrCanc	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
1009	ALL	391275	3752180	1.09E-05	1.76YrCanc	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

1010	ALL	391285	3752180	1.11E-05	1.76YrCanc	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
1011	ALL	391295	3752180	1.13E-05	1.76YrCanc	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
1012	ALL	391305	3752180	1.13E-05	1.76YrCanc	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
1013	ALL	391315	3752180	1.14E-05	1.76YrCanc	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
1014	ALL	391325	3752180	1.13E-05	1.76YrCanc	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
1015	ALL	391335	3752180	1.11E-05	1.76YrCanc	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
1016	ALL	391345	3752180	1.09E-05	1.76YrCanc	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
1017	ALL	391355	3752180	1.07E-05	1.76YrCanc	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
1018	ALL	391365	3752180	1.04E-05	1.76YrCanc	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
1019	ALL	391375	3752180	1.00E-05	1.76YrCanc	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
1020	ALL	391385	3752180	9.61E-06	1.76YrCanc	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
1021	ALL	391395	3752180	9.21E-06	1.76YrCanc	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
1022	ALL	391405	3752180	8.79E-06	1.76YrCanc	8.79E-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
1023	ALL	391415	3752180	8.39E-06	1.76YrCanc	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
1024	ALL	391425	3752180	7.98E-06	1.76YrCanc	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
1025	ALL	391245	3752190	9.04E-06	1.76YrCanc	9.04E-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
1026	ALL	391255	3752190	9.34E-06	1.76YrCanc	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
1027	ALL	391265	3752190	9.61E-06	1.76YrCanc	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
1028	ALL	391275	3752190	9.84E-06	1.76YrCanc	9.84E-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
1029	ALL	391285	3752190	1.00E-05	1.76YrCanc	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
1030	ALL	391295	3752190	1.02E-05	1.76YrCanc	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
1031	ALL	391305	3752190	1.02E-05	1.76YrCanc	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
1032	ALL	391315	3752190	1.02E-05	1.76YrCanc	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
1033	ALL	391325	3752190	1.02E-05	1.76YrCanc	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
1034	ALL	391335	3752190	1.01E-05	1.76YrCanc	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
1035	ALL	391345	3752190	9.93E-06	1.76YrCanc	9.93E-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
1036	ALL	391355	3752190	9.71E-06	1.76YrCanc	9.71E-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
1037	ALL	391365	3752190	9.46E-06	1.76YrCanc	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
1038	ALL	391375	3752190	9.17E-06	1.76YrCanc	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
1039	ALL	391385	3752190	8.85E-06	1.76YrCanc	8.85E-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
1040	ALL	391395	3752190	8.53E-06	1.76YrCanc	8.53E-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
1041	ALL	391405	3752190	8.18E-06	1.76YrCanc	8.18E-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
1042	ALL	391415	3752190	7.83E-06	1.76YrCanc	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
1043	ALL	391425	3752190	7.48E-06	1.76YrCanc	7.48E-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
1044	ALL	391245	3752200	8.29E-06	1.76YrCanc	8.29E-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
1045	ALL	391255	3752200	8.54E-06	1.76YrCanc	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
1046	ALL	391265	3752200	8.76E-06	1.76YrCanc	8.76E-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
1047	ALL	391275	3752200	8.96E-06	1.76YrCanc	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
1048	ALL	391285	3752200	9.12E-06	1.76YrCanc	9.12E-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
1049	ALL	391295	3752200	9.21E-06	1.76YrCanc	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
1050	ALL	391305	3752200	9.28E-06	1.76YrCanc	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
1051	ALL	391315	3752200	9.29E-06	1.76YrCanc	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
1052	ALL	391325	3752200	9.26E-06	1.76YrCanc	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
1053	ALL	391335	3752200	9.18E-06	1.76YrCanc	9.18E-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
1054	ALL	391345	3752200	9.05E-06	1.76YrCanc	9.05E-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
1055	ALL	391355	3752200	8.88E-06	1.76YrCanc	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
1056	ALL	391365	3752200	8.68E-06	1.76YrCanc	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
1057	ALL	391375	3752200	8.44E-06	1.76YrCanc	8.44E-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
1058	ALL	391385	3752200	8.18E-06	1.76YrCanc	8.18E-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
1059	ALL	391395	3752200	7.90E-06	1.76YrCanc	7.90E-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
1060	ALL	391405	3752200	7.61E-06	1.76YrCanc	7.61E-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
1061	ALL	391415	3752200	7.32E-06	1.76YrCanc	7.32E-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
1062	ALL	391425	3752200	7.02E-06	1.76YrCanc	7.02E-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
1063	ALL	391255	3752210	7.85E-06	1.76YrCanc	7.85E-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
1064	ALL	391265	3752210	8.03E-06	1.76YrCanc	8.03E-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
1065	ALL	391275	3752210	8.19E-06	1.76YrCanc	8.19E-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
1066	ALL	391285	3752210	8.32E-06	1.76YrCanc	8.32E-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
1067	ALL	391295	3752210	8.41E-06	1.76YrCanc	8.41E-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
1068	ALL	391305	3752210	8.46E-06	1.76YrCanc	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
1069	ALL	391315	3752210	8.48E-06	1.76YrCanc	8.48E-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
1070	ALL	391325	3752210	8.46E-06	1.76YrCanc	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
1071	ALL	391335	3752210	8.39E-06	1.76YrCanc	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
1072	ALL	391345	3752210	8.29E-06	1.76YrCanc	8.29E-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
1073	ALL	391355	3752210	8.15E-06	1.76YrCanc	8.15E-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
1074	ALL	391365	3752210	7.99E-06	1.76YrCanc	7.99E-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
1075	ALL	391375	3752210	7.79E-06	1.76YrCanc	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
1076	ALL	391385	3752210	7.58E-06	1.76YrCanc	7.58E-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
1077	ALL	391395	3752210	7.35E-06	1.76YrCanc	7.35E-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
1078	ALL	391405	3752210	7.10E-06	1.76YrCanc	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
1079	ALL	391415	3752210	6.85E-06	1.76YrCanc	6.85E-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
1080	ALL	391425	3752210	6.59E-06	1.76YrCanc	6.59E-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
1081	ALL	391255	3752220	7.24E-06	1.76YrCanc	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
1082	ALL	391265	3752220	7.39E-06	1.76YrCanc	7.39E-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
1083	ALL	391275	3752220	7.53E-06	1.76YrCanc	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
1084	ALL	391285	3752220	7.64E-06	1.76YrCanc	7.64E-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
1085	ALL	391295	3752220	7.72E-06	1.76YrCanc	7.72E-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
1086	ALL	391305	3752220	7.76E-06	1.76YrCanc	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
1087	ALL	391315	3752220	7.77E-06	1.76YrCanc	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
1088	ALL	391325	3752220	7.76E-06	1.76YrCanc	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
1089	ALL	391335	3752220	7.71E-06	1.76YrCanc	7.71E-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
1090	ALL	391345	3752220	7.63E-06	1.76YrCanc	7.63E-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
1091	ALL	391355	3752220	7.51E-06	1.76YrCanc	7.51E-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
1092	ALL	391365	3752220	7.38E-06	1.76YrCanc	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
1093	ALL	391375	3752220	7.22E-06	1.76YrCanc	7.22E-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
1094	ALL	391385	3752220	7.04E-06	1.76YrCanc	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
1095	ALL	391395	3752220	6.84E-06	1.76YrCanc	6.84E-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
1096	ALL	391405	3752220	6.63E-06	1.76YrCanc	6.63E-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
1097	ALL	391415	3752220	6.42E-06	1.76YrCanc	6.42E-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
1098	ALL	391425	3752220	6.20E-06	1.76YrCanc	6.20E-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
1099	ALL	391255	3752230	6.70E-06	1.76YrCanc	6.70E-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
1100	ALL	391265	3752230	6.83E-06	1.76YrCanc	6.83E-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
1101	ALL	391275	3752230	6.95E-06	1.76YrCanc	6.95E-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
1102	ALL	391285	3752230	7.04E-06	1.76YrCanc	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
1103	ALL	391295	3752230	7.10E-06	1.76YrCanc	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
1104	ALL	391305	3752230	7.15E-06	1.76YrCanc	7.15E-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
1105	ALL	391315	3752230	7.16E-06	1.76YrCanc	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
1106	ALL	391325	3752230	7.15E-06	1.76YrCanc	7.15E-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
1107	ALL	391335	3752230	7.11E-06	1.76YrCanc	7.11E-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
1108	ALL	391345	3752230	7.04E-06	1.76YrCanc	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
1109	ALL	391355	3752230	6.95E-06	1.76YrCanc	6.95E-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
1110	ALL	391365	3752230	6.84E-06	1.76YrCanc	6.84E-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

1111	ALL	391375	3752230	6.70E-06	1.76YrCanc	6.70E-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
1112	ALL	391385	3752230	6.55E-06	1.76YrCanc	6.55E-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
1113	ALL	391395	3752230	6.39E-06	1.76YrCanc	6.39E-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
1114	ALL	391405	3752230	6.21E-06	1.76YrCanc	6.21E-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
1115	ALL	391415	3752230	6.02E-06	1.76YrCanc	6.02E-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
1116	ALL	391425	3752230	5.83E-06	1.76YrCanc	5.83E-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

REC	GRP	NETID	X	Y	SCENARIO	CV	CNS	IMMUN	KIDNEY	GILV	REPRO/DE	RESP	SKIN	EYE	BONE/TEE	ENDO	BLOOD	ODOR	GENERAL	MAXHI
1	ALL		390780	3751525	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.03E-04
2	ALL		390830	3751525	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.59E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.59E-04
3	ALL		390880	3751525	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.21E-04
4	ALL		390930	3751525	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.86E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.86E-04
5	ALL		390980	3751525	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.55E-04
6	ALL		391030	3751525	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.25E-04
7	ALL		391080	3751525	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.92E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.92E-04
8	ALL		391130	3751525	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-03
9	ALL		391180	3751525	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-03
10	ALL		391230	3751525	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-03
11	ALL		391280	3751525	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-03
12	ALL		391330	3751525	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-03
13	ALL		391380	3751525	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-03
14	ALL		391430	3751525	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-03
15	ALL		391480	3751525	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-03
16	ALL		391530	3751525	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.56E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.56E-04
17	ALL		391580	3751525	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.87E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.87E-04
18	ALL		391630	3751525	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.17E-04
19	ALL		391680	3751525	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.50E-04
20	ALL		391730	3751525	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.87E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.87E-04
21	ALL		391780	3751525	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.28E-04
22	ALL		390780	3751575	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.53E-04
23	ALL		390830	3751575	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.22E-04
24	ALL		390880	3751575	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.98E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.98E-04
25	ALL		390930	3751575	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.81E-04
26	ALL		390980	3751575	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.71E-04
27	ALL		391030	3751575	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-03
28	ALL		391080	3751575	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-03
29	ALL		391130	3751575	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-03
30	ALL		391180	3751575	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-03
31	ALL		391230	3751575	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-03
32	ALL		391280	3751575	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-03
33	ALL		391330	3751575	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-03
34	ALL		391380	3751575	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-03
35	ALL		391430	3751575	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-03
36	ALL		391480	3751575	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-03
37	ALL		391530	3751575	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-03
38	ALL		391580	3751575	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-03
39	ALL		391630	3751575	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.24E-04
40	ALL		391680	3751575	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.37E-04
41	ALL		391730	3751575	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.57E-04
42	ALL		391780	3751575	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.86E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.86E-04
43	ALL		390780	3751625	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.06E-04
44	ALL		390830	3751625	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.89E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.89E-04
45	ALL		390880	3751625	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.83E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.83E-04
46	ALL		390930	3751625	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.89E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.89E-04
47	ALL		390980	3751625	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-03
48	ALL		391030	3751625	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-03
49	ALL		391080	3751625	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-03
50	ALL		391130	3751625	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-03
51	ALL		391180	3751625	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-03
52	ALL		391230	3751625	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-03
53	ALL		391280	3751625	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-03
54	ALL		391330	3751625	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-03
55	ALL		391380	3751625	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-03
56	ALL		391430	3751625	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-03
57	ALL		391480	3751625	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-03
58	ALL		391530	3751625	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-03
59	ALL		391580	3751625	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-03
60	ALL		391630	3751625	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-03
61	ALL		391680	3751625	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.35E-04
62	ALL		391730	3751625	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.35E-04
63	ALL		391780	3751625	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.47E-04
64	ALL		390780	3751675	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.61E-04
65	ALL		390830	3751675	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.60E-04
66	ALL		390880	3751675	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.75E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.75E-04
67	ALL		390930	3751675	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-03
68	ALL		390980	3751675	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-03
69	ALL		391030	3751675	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-03
70	ALL		391080	3751675	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-03
71	ALL		391130	3751675	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-03
72	ALL		391180	3751675	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-03
73	ALL		391230	3751675	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-03
74	ALL		391280	3751675	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-03
75	ALL		391330	3751675	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-03
76	ALL		391380	3751675	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-03
77	ALL		391430	3751675	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-03
78	ALL		391480	3751675	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-03
79	ALL		391530	3751675	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-03
80	ALL		391580	3751675	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-03
81	ALL		391630	3751675	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-03
82	ALL		391680	3751675	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-03
83	ALL		391730	3751675	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.19E-04
84	ALL		391780	3751675	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.12E-04
85	ALL		390780	3751725	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.16E-04
86	ALL		390830	3751725	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.32E-04
87	ALL		390880	3751725	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-03
88	ALL		390930	3751725	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-03
89	ALL		390980	3751725	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-03
90	ALL		391030	3751725	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-03
91	ALL		391080	3751725	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-03
92	ALL		391130	3751725	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-03
93	ALL		391180	3751725	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-03
94	ALL		391230	3751725	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.87E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.87E-03
95	ALL		391280	3751725	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.01E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.01E-03
96	ALL		391330	3751725	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.97E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.97E-03
97	ALL		391380	3751725	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.78E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.78E-03
98	ALL		391430	3751725	NonCancer	0.00E+00	0.

113	ALL	391180	3751775	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.50E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.50E-03
114	ALL	391230	3751775	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.02E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.02E-03
115	ALL	391280	3751775	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.32E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.32E-03
116	ALL	391330	3751775	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.24E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.24E-03
117	ALL	391380	3751775	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.83E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.83E-03
118	ALL	391430	3751775	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.26E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.26E-03
119	ALL	391580	3751775	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-03
120	ALL	391630	3751775	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-03
121	ALL	391680	3751775	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-03
122	ALL	391730	3751775	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-03
123	ALL	391780	3751775	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.44E-04
124	ALL	390780	3751825	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.15E-04
125	ALL	390830	3751825	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-03
126	ALL	390880	3751825	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-03
127	ALL	390930	3751825	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-03
128	ALL	390980	3751825	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-03
129	ALL	391030	3751825	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-03
130	ALL	391080	3751825	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.93E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.93E-03
131	ALL	391180	3751825	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.87E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.87E-03
132	ALL	391230	3751825	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.08E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.08E-03
133	ALL	391280	3751825	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.90E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.90E-03
134	ALL	391330	3751825	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.71E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.71E-03
135	ALL	391380	3751825	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.65E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.65E-03
136	ALL	391580	3751825	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-03
137	ALL	391630	3751825	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-03
138	ALL	391680	3751825	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-03
139	ALL	391730	3751825	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-03
140	ALL	391780	3751825	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-03
141	ALL	390780	3751875	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.55E-04
142	ALL	390830	3751875	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-03
143	ALL	390880	3751875	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-03
144	ALL	390930	3751875	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-03
145	ALL	390980	3751875	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-03
146	ALL	391030	3751875	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-03
147	ALL	391080	3751875	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.52E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.52E-03
148	ALL	391180	3751875	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.03E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.03E-03
149	ALL	391230	3751875	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-02
150	ALL	391330	3751875	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-02
151	ALL	391380	3751875	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.07E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.07E-03
152	ALL	391430	3751875	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.13E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.13E-03
153	ALL	391580	3751875	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-03
154	ALL	391630	3751875	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-03
155	ALL	391680	3751875	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-03
156	ALL	391730	3751875	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-03
157	ALL	391780	3751875	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-03
158	ALL	390780	3751925	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.81E-04
159	ALL	390830	3751925	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-03
160	ALL	390880	3751925	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-03
161	ALL	390930	3751925	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-03
162	ALL	390980	3751925	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-03
163	ALL	391080	3751925	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.05E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.05E-03
164	ALL	391380	3751925	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-02
165	ALL	391580	3751925	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-03
166	ALL	391630	3751925	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-03
167	ALL	391680	3751925	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-03
168	ALL	391730	3751925	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-03
169	ALL	391780	3751925	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-03
170	ALL	390780	3751975	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.95E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.95E-04
171	ALL	390830	3751975	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-03
172	ALL	390880	3751975	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-03
173	ALL	390930	3751975	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-03
174	ALL	390980	3751975	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-03
175	ALL	391030	3751975	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.08E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.08E-03
176	ALL	391080	3751975	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.39E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.39E-03
177	ALL	391180	3751975	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-02
178	ALL	391580	3751975	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.82E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.82E-03
179	ALL	391630	3751975	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-03
180	ALL	391680	3751975	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-03
181	ALL	391730	3751975	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-03
182	ALL	391780	3751975	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-03
183	ALL	390780	3752025	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.93E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.93E-04
184	ALL	390830	3752025	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-03
185	ALL	390880	3752025	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-03
186	ALL	390930	3752025	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-03
187	ALL	390980	3752025	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-03
188	ALL	391030	3752025	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.07E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.07E-03
189	ALL	391080	3752025	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.38E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.38E-03
190	ALL	391180	3752025	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-02
191	ALL	391530	3752025	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.05E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.05E-03
192	ALL	391580	3752025	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.89E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.89E-03
193	ALL	391630	3752025	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-03
194	ALL	391680	3752025	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-03
195	ALL	391730	3752025	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-03
196	ALL	391780	3752025	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-03
197	ALL	390780	3752075	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.01E-04
198	ALL	390830	3752075	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-03
199	ALL	390880	3752075	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-03
200	ALL	390930	3752075	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-03
201	ALL	390980	3752075	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-03
202	ALL	391030	3752075	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.89E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.89E-03
203	ALL	391580	3752075	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-03
204	ALL	391630	3752075	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-03
205	ALL	391680	3752075	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-03
206	ALL	391730	3752075	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-03
207	ALL	391780	3752075	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-03
208	ALL	390780	3752125	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.47E-04
209	ALL	390830	3752125	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-03
210	ALL	390880	3752125	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-03
211	ALL	390930	3752125	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00

226	ALL	390830	3752175	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-03
227	ALL	390880	3752175	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-03
228	ALL	390930	3752175	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-03
229	ALL	390980	3752175	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-03
230	ALL	391030	3752175	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-03
231	ALL	391280	3752175	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.66E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.66E-03
232	ALL	391330	3752175	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.82E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.82E-03
233	ALL	391380	3752175	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.77E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.77E-03
234	ALL	391430	3752175	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.31E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.31E-03
235	ALL	391530	3752175	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E-03
236	ALL	391580	3752175	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-03
237	ALL	391630	3752175	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-03
238	ALL	391680	3752175	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-03
239	ALL	391730	3752175	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-03
240	ALL	391780	3752175	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-03
241	ALL	390780	3752225	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.57E-04
242	ALL	390830	3752225	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.89E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.89E-04
243	ALL	390880	3752225	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-03
244	ALL	390930	3752225	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-03
245	ALL	390980	3752225	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-03
246	ALL	391030	3752225	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-03
247	ALL	391280	3752225	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.81E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.81E-03
248	ALL	391330	3752225	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.91E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.91E-03
249	ALL	391380	3752225	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.54E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.54E-03
250	ALL	391430	3752225	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.90E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.90E-03
251	ALL	391530	3752225	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-03
252	ALL	391580	3752225	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-03
253	ALL	391630	3752225	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-03
254	ALL	391680	3752225	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-03
255	ALL	391730	3752225	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-03
256	ALL	391780	3752225	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-03
257	ALL	390780	3752275	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.06E-04
258	ALL	390830	3752275	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.19E-04
259	ALL	390880	3752275	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-03
260	ALL	390930	3752275	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-03
261	ALL	390980	3752275	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-03
262	ALL	391030	3752275	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-03
263	ALL	391080	3752275	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-03
264	ALL	391130	3752275	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.35E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.35E-03
265	ALL	391180	3752275	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-03
266	ALL	391230	3752275	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E-03
267	ALL	391280	3752275	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.35E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.35E-03
268	ALL	391330	3752275	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.41E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.41E-03
269	ALL	391380	3752275	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.26E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.26E-03
270	ALL	391430	3752275	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.95E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.95E-03
271	ALL	391480	3752275	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-03
272	ALL	391530	3752275	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-03
273	ALL	391580	3752275	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-03
274	ALL	391630	3752275	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-03
275	ALL	391680	3752275	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-03
276	ALL	391730	3752275	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-03
277	ALL	391780	3752275	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.84E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.84E-04
278	ALL	390780	3752325	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.53E-04
279	ALL	390830	3752325	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.48E-04
280	ALL	390880	3752325	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.63E-04
281	ALL	390930	3752325	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-03
282	ALL	390980	3752325	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-03
283	ALL	391030	3752325	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-03
284	ALL	391080	3752325	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-03
285	ALL	391130	3752325	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-03
286	ALL	391180	3752325	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-03
287	ALL	391230	3752325	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.35E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.35E-03
288	ALL	391280	3752325	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-03
289	ALL	391330	3752325	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-03
290	ALL	391380	3752325	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-03
291	ALL	391430	3752325	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-03
292	ALL	391480	3752325	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-03
293	ALL	391530	3752325	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-03
294	ALL	391580	3752325	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-03
295	ALL	391630	3752325	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-03
296	ALL	391680	3752325	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-03
297	ALL	391730	3752325	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-03
298	ALL	391780	3752325	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.20E-04
299	ALL	390780	3752375	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.99E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.99E-04
300	ALL	390830	3752375	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.83E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.83E-04
301	ALL	390880	3752375	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.74E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.74E-04
302	ALL	390930	3752375	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.83E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.83E-04
303	ALL	390980	3752375	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-03
304	ALL	391030	3752375	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-03
305	ALL	391080	3752375	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-03
306	ALL	391130	3752375	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-03
307	ALL	391180	3752375	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-03
308	ALL	391230	3752375	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-03
309	ALL	391280	3752375	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-03
310	ALL	391330	3752375	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-03
311	ALL	391380	3752375	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-03
312	ALL	391430	3752375	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-03
313	ALL	391480	3752375	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-03
314	ALL	391530	3752375	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-03
315	ALL	391580	3752375	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-03
316	ALL	391630	3752375	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-03
317	ALL	391680	3752375	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-03
318	ALL	391730	3752375	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.60E-04
319	ALL	391780	3752375	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.52E-04
320	ALL	390780	3752425	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.47E-04
321	ALL	390830	3752425	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.17E-04
322	ALL	390880	3752425	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.92E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.92E-04
323	ALL	390930	3752425	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.79E-04
324	ALL	390980	3752425	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00

339	ALL	391730	3752425	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.73E-04
340	ALL	391780	3752425	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.85E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.85E-04
341	ALL	390780	3752475	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.99E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.99E-04
342	ALL	390830	3752475	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.56E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.56E-04
343	ALL	390880	3752475	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.19E-04
344	ALL	390930	3752475	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.87E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.87E-04
345	ALL	390980	3752475	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.64E-04
346	ALL	391030	3752475	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.45E-04
347	ALL	391080	3752475	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-03
348	ALL	391130	3752475	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-03
349	ALL	391180	3752475	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-03
350	ALL	391230	3752475	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-03
351	ALL	391280	3752475	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-03
352	ALL	391330	3752475	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-03
353	ALL	391380	3752475	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-03
354	ALL	391430	3752475	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-03
355	ALL	391480	3752475	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-03
356	ALL	391530	3752475	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-03
357	ALL	391580	3752475	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-03
358	ALL	391630	3752475	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.49E-04
359	ALL	391680	3752475	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.68E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.68E-04
360	ALL	391730	3752475	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.91E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.91E-04
361	ALL	391780	3752475	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.20E-04
362	ALL	390780	3752525	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.53E-04
363	ALL	390830	3752525	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.01E-04
364	ALL	390880	3752525	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.53E-04
365	ALL	390930	3752525	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.07E-04
366	ALL	390980	3752525	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.66E-04
367	ALL	391030	3752525	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.30E-04
368	ALL	391080	3752525	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.91E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.91E-04
369	ALL	391130	3752525	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.49E-04
370	ALL	391180	3752525	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-03
371	ALL	391230	3752525	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-03
372	ALL	391280	3752525	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-03
373	ALL	391330	3752525	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-03
374	ALL	391380	3752525	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-03
375	ALL	391430	3752525	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-03
376	ALL	391480	3752525	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-03
377	ALL	391530	3752525	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.62E-04
378	ALL	391580	3752525	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.03E-04
379	ALL	391630	3752525	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.41E-04
380	ALL	391680	3752525	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.78E-04
381	ALL	391730	3752525	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.17E-04
382	ALL	391780	3752525	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.60E-04
383	ALL	391075	3751820	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-03
384	ALL	391085	3751820	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.95E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.95E-03
385	ALL	391095	3751820	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E-03
386	ALL	391105	3751820	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.25E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.25E-03
387	ALL	391115	3751820	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.42E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.42E-03
388	ALL	391135	3751820	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.77E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.77E-03
389	ALL	391145	3751820	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.97E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.97E-03
390	ALL	391155	3751820	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.17E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.17E-03
391	ALL	391165	3751820	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.38E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.38E-03
392	ALL	391175	3751820	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.60E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.60E-03
393	ALL	391185	3751820	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.82E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.82E-03
394	ALL	391195	3751820	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.04E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.04E-03
395	ALL	391205	3751820	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.27E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.27E-03
396	ALL	391215	3751820	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.49E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.49E-03
397	ALL	391225	3751820	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.70E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.70E-03
398	ALL	391235	3751820	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.91E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.91E-03
399	ALL	391245	3751820	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.10E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.10E-03
400	ALL	391255	3751820	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.26E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.26E-03
401	ALL	391265	3751820	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.40E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.40E-03
402	ALL	391275	3751820	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.51E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.51E-03
403	ALL	391285	3751820	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.57E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.57E-03
404	ALL	391315	3751820	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.53E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.53E-03
405	ALL	391325	3751820	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.43E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.43E-03
406	ALL	391335	3751820	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.30E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.30E-03
407	ALL	391345	3751820	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.14E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.14E-03
408	ALL	391355	3751820	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.95E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.95E-03
409	ALL	391365	3751820	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.75E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.75E-03
410	ALL	391375	3751820	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.53E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.53E-03
411	ALL	391385	3751820	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.30E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.30E-03
412	ALL	391395	3751820	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.08E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.08E-03
413	ALL	391405	3751820	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.85E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.85E-03
414	ALL	391415	3751820	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.62E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.62E-03
415	ALL	391425	3751820	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.39E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.39E-03
416	ALL	391305	3751830	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.35E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.35E-03
417	ALL	391315	3751830	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.28E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.28E-03
418	ALL	391325	3751830	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.16E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.16E-03
419	ALL	391335	3751830	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.99E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.99E-03
420	ALL	391345	3751830	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.79E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.79E-03
421	ALL	391355	3751830	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.55E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.55E-03
422	ALL	391365	3751830	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.30E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.30E-03
423	ALL	391375	3751830	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.04E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.04E-03
424	ALL	391385	3751830	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.76E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.76E-03
425	ALL	391395	3751830	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.50E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.50E-03
426	ALL	391405	3751830	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.22E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.22E-03
427	ALL	391415	3751830	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.96E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.96E-03
428	ALL	391425	3751830	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.69E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.69E-03
429	ALL	391075	3751840	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.03E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.03E-03
430	ALL	391085	3751840	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.19E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.19E-03
431	ALL	391095	3751840	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.36E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.36E-03
432	ALL	391105	3751840	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.55E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.55E-03
433	ALL	391115	3751840	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.75E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.75E-03
434	ALL	391135	3751840	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.20E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.20E-03
435	ALL	391145	3751840	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.45E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.45E-03
436	ALL	391155	3751840	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.71E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.71E-03
437	ALL	391165	3751840	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00

452	ALL	391335	3751840	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.81E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.81E-03
453	ALL	391345	3751840	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.55E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.55E-03
454	ALL	391355	3751840	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.26E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.26E-03
455	ALL	391365	3751840	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.94E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.94E-03
456	ALL	391375	3751840	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.62E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.62E-03
457	ALL	391385	3751840	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.28E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.28E-03
458	ALL	391395	3751840	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.95E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.95E-03
459	ALL	391405	3751840	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.64E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.64E-03
460	ALL	391415	3751840	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.32E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.32E-03
461	ALL	391425	3751840	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.02E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.02E-03
462	ALL	391075	3751850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.14E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.14E-03
463	ALL	391085	3751850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.31E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.31E-03
464	ALL	391095	3751850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.51E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.51E-03
465	ALL	391105	3751850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.71E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.71E-03
466	ALL	391115	3751850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.93E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.93E-03
467	ALL	391135	3751850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.43E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.43E-03
468	ALL	391145	3751850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.71E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.71E-03
469	ALL	391155	3751850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.01E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.01E-03
470	ALL	391165	3751850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.33E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.33E-03
471	ALL	391175	3751850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.66E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.66E-03
472	ALL	391185	3751850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.02E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.02E-03
473	ALL	391195	3751850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.39E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.39E-03
474	ALL	391205	3751850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.78E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.78E-03
475	ALL	391215	3751850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.17E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.17E-03
476	ALL	391225	3751850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.58E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.58E-03
477	ALL	391235	3751850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.97E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.97E-03
478	ALL	391245	3751850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.35E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.35E-03
479	ALL	391255	3751850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.70E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.70E-03
480	ALL	391265	3751850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.00E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.00E-03
481	ALL	391275	3751850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.23E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.23E-03
482	ALL	391295	3751850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.44E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.44E-03
483	ALL	391305	3751850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.40E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.40E-03
484	ALL	391315	3751850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.28E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.28E-03
485	ALL	391325	3751850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.07E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.07E-03
486	ALL	391335	3751850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.79E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.79E-03
487	ALL	391345	3751850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.46E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.46E-03
488	ALL	391355	3751850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.09E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.09E-03
489	ALL	391365	3751850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.69E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.69E-03
490	ALL	391375	3751850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.28E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.28E-03
491	ALL	391385	3751850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.87E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.87E-03
492	ALL	391395	3751850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.47E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.47E-03
493	ALL	391405	3751850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.09E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.09E-03
494	ALL	391415	3751850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.72E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.72E-03
495	ALL	391425	3751850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.37E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.37E-03
496	ALL	391075	3751860	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.25E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.25E-03
497	ALL	391085	3751860	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.44E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.44E-03
498	ALL	391095	3751860	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.65E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.65E-03
499	ALL	391105	3751860	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.88E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.88E-03
500	ALL	391115	3751860	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.12E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.12E-03
501	ALL	391135	3751860	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.67E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.67E-03
502	ALL	391145	3751860	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.98E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.98E-03
503	ALL	391155	3751860	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.32E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.32E-03
504	ALL	391165	3751860	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.69E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.69E-03
505	ALL	391175	3751860	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.08E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.08E-03
506	ALL	391185	3751860	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.50E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.50E-03
507	ALL	391195	3751860	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.94E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.94E-03
508	ALL	391205	3751860	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.41E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.41E-03
509	ALL	391215	3751860	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.90E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.90E-03
510	ALL	391225	3751860	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.40E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.40E-03
511	ALL	391235	3751860	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.91E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.91E-03
512	ALL	391245	3751860	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.41E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.41E-03
513	ALL	391255	3751860	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.86E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.86E-03
514	ALL	391265	3751860	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-02
515	ALL	391275	3751860	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-02
516	ALL	391295	3751860	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-02
517	ALL	391305	3751860	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-02
518	ALL	391315	3751860	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-02
519	ALL	391325	3751860	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-02
520	ALL	391335	3751860	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-02
521	ALL	391345	3751860	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.56E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.56E-03
522	ALL	391355	3751860	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.08E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.08E-03
523	ALL	391365	3751860	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.57E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.57E-03
524	ALL	391375	3751860	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.05E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.05E-03
525	ALL	391385	3751860	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.54E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.54E-03
526	ALL	391395	3751860	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.05E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.05E-03
527	ALL	391405	3751860	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.59E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.59E-03
528	ALL	391415	3751860	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.16E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.16E-03
529	ALL	391425	3751860	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.75E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.75E-03
530	ALL	391075	3751870	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.36E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.36E-03
531	ALL	391085	3751870	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.57E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.57E-03
532	ALL	391095	3751870	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.79E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.79E-03
533	ALL	391105	3751870	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.04E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.04E-03
534	ALL	391115	3751870	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.30E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.30E-03
535	ALL	391135	3751870	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.91E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.91E-03
536	ALL	391145	3751870	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.27E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.27E-03
537	ALL	391155	3751870	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.65E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.65E-03
538	ALL	391165	3751870	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.07E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.07E-03
539	ALL	391175	3751870	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.53E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.53E-03
540	ALL	391185	3751870	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.02E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.02E-03
541	ALL	391195	3751870	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.55E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.55E-03
542	ALL	391205	3751870	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.13E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.13E-03
543	ALL	391215	3751870	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.73E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.73E-03
544	ALL	391225	3751870	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.36E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.36E-03
545	ALL	391235	3751870	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-02
546	ALL	391245	3751870	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-02
547	ALL	391255	3751870	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-02
548	ALL	391265	3751870	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-02
549	ALL	391285	3751870	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-02
550	ALL	391295	3751870	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00

565	ALL	391085	3751880	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.69E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.69E-03
566	ALL	391095	3751880	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.93E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.93E-03
567	ALL	391105	3751880	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.20E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.20E-03
568	ALL	391115	3751880	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.50E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.50E-03
569	ALL	391135	3751880	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.17E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.17E-03
570	ALL	391145	3751880	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.57E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.57E-03
571	ALL	391155	3751880	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.00E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.00E-03
572	ALL	391165	3751880	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.48E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.48E-03
573	ALL	391175	3751880	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.01E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.01E-03
574	ALL	391185	3751880	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.59E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.59E-03
575	ALL	391195	3751880	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.23E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.23E-03
576	ALL	391205	3751880	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.92E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.92E-03
577	ALL	391215	3751880	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.67E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.67E-03
578	ALL	391225	3751880	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-02
579	ALL	391235	3751880	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-02
580	ALL	391245	3751880	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-02
581	ALL	391255	3751880	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-02
582	ALL	391265	3751880	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-02
583	ALL	391285	3751880	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-02
584	ALL	391295	3751880	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-02
585	ALL	391305	3751880	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-02
586	ALL	391315	3751880	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-02
587	ALL	391325	3751880	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-02
588	ALL	391335	3751880	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-02
589	ALL	391345	3751880	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-02
590	ALL	391355	3751880	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-02
591	ALL	391365	3751880	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-02
592	ALL	391375	3751880	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.97E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.97E-03
593	ALL	391385	3751880	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.17E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.17E-03
594	ALL	391395	3751880	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.44E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.44E-03
595	ALL	391405	3751880	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.77E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.77E-03
596	ALL	391415	3751880	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.15E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.15E-03
597	ALL	391425	3751880	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.59E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.59E-03
598	ALL	391075	3751890	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.58E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.58E-03
599	ALL	391085	3751890	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.82E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.82E-03
600	ALL	391095	3751890	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.08E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.08E-03
601	ALL	391105	3751890	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.37E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.37E-03
602	ALL	391115	3751890	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.69E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.69E-03
603	ALL	391135	3751890	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.43E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.43E-03
604	ALL	391145	3751890	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.88E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.88E-03
605	ALL	391155	3751890	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.37E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.37E-03
606	ALL	391165	3751890	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.92E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.92E-03
607	ALL	391175	3751890	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.52E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.52E-03
608	ALL	391185	3751890	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.20E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.20E-03
609	ALL	391195	3751890	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.95E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.95E-03
610	ALL	391205	3751890	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.80E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.80E-03
611	ALL	391215	3751890	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-02
612	ALL	391225	3751890	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-02
613	ALL	391235	3751890	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-02
614	ALL	391245	3751890	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-02
615	ALL	391255	3751890	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-02
616	ALL	391285	3751890	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-02
617	ALL	391295	3751890	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-02
618	ALL	391305	3751890	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-02
619	ALL	391315	3751890	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-02
620	ALL	391325	3751890	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-02
621	ALL	391335	3751890	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-02
622	ALL	391345	3751890	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-02
623	ALL	391355	3751890	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-02
624	ALL	391365	3751890	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-02
625	ALL	391375	3751890	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-02
626	ALL	391385	3751890	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-02
627	ALL	391395	3751890	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.24E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.24E-03
628	ALL	391405	3751890	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.43E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.43E-03
629	ALL	391415	3751890	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.69E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.69E-03
630	ALL	391425	3751890	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.05E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.05E-03
631	ALL	391075	3751900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.68E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.68E-03
632	ALL	391085	3751900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.94E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.94E-03
633	ALL	391095	3751900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.22E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.22E-03
634	ALL	391105	3751900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.53E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.53E-03
635	ALL	391115	3751900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.88E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.88E-03
636	ALL	391135	3751900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.69E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.69E-03
637	ALL	391145	3751900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.19E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.19E-03
638	ALL	391155	3751900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.74E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.74E-03
639	ALL	391165	3751900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.36E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.36E-03
640	ALL	391175	3751900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.06E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.06E-03
641	ALL	391185	3751900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.85E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.85E-03
642	ALL	391195	3751900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.75E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.75E-03
643	ALL	391205	3751900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-02
644	ALL	391215	3751900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-02
645	ALL	391225	3751900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-02
646	ALL	391235	3751900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-02
647	ALL	391245	3751900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-02
648	ALL	391255	3751900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-02
649	ALL	391275	3751900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-02
650	ALL	391285	3751900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-02
651	ALL	391295	3751900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-02
652	ALL	391305	3751900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-02
653	ALL	391315	3751900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-02
654	ALL	391325	3751900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-02
655	ALL	391335	3751900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-02
656	ALL	391345	3751900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-02
657	ALL	391355	3751900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-02
658	ALL	391365	3751900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-02
659	ALL	391375	3751900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-02
660	ALL	391385	3751900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-02
661	ALL	391395	3751900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-02
662	ALL	391405	3751900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.14E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.14E-03
663	ALL	391415	3751900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00

678	ALL	391215	3751910	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-02
679	ALL	391225	3751910	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-02
680	ALL	391235	3751910	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-02
681	ALL	391245	3751910	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-02
682	ALL	391275	3751910	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.82E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.82E-02
683	ALL	391285	3751910	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.99E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.99E-02
684	ALL	391295	3751910	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.03E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.03E-02
685	ALL	391305	3751910	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.97E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.97E-02
686	ALL	391315	3751910	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-02
687	ALL	391325	3751910	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-02
688	ALL	391335	3751910	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-02
689	ALL	391345	3751910	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-02
690	ALL	391355	3751910	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-02
691	ALL	391365	3751910	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-02
692	ALL	391375	3751910	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-02
693	ALL	391385	3751910	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-02
694	ALL	391395	3751910	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-02
695	ALL	391405	3751910	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.89E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.89E-03
696	ALL	391415	3751910	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.87E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.87E-03
697	ALL	391425	3751910	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.02E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.02E-03
698	ALL	391325	3751920	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.50E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.50E-02
699	ALL	391335	3751920	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.06E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.06E-02
700	ALL	391345	3751920	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-02
701	ALL	391355	3751920	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-02
702	ALL	391365	3751920	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-02
703	ALL	391375	3751920	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-02
704	ALL	391385	3751920	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-02
705	ALL	391395	3751920	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-02
706	ALL	391405	3751920	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-02
707	ALL	391415	3751920	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.50E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.50E-03
708	ALL	391425	3751920	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.52E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.52E-03
709	ALL	391075	3751930	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.96E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.96E-03
710	ALL	391085	3751930	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.26E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.26E-03
711	ALL	391095	3751930	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.60E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.60E-03
712	ALL	391105	3751930	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.98E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.98E-03
713	ALL	391115	3751930	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.40E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.40E-03
714	ALL	391135	3751930	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.45E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.45E-03
715	ALL	391145	3751930	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.10E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.10E-03
716	ALL	391155	3751930	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.85E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.85E-03
717	ALL	391165	3751930	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.73E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.73E-03
718	ALL	391175	3751930	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.76E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.76E-03
719	ALL	391185	3751930	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-02
720	ALL	391195	3751930	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-02
721	ALL	391205	3751930	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-02
722	ALL	391215	3751930	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-02
723	ALL	391225	3751930	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-02
724	ALL	391235	3751930	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-02
725	ALL	391075	3751940	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.04E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.04E-03
726	ALL	391085	3751940	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.35E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.35E-03
727	ALL	391095	3751940	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.71E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.71E-03
728	ALL	391105	3751940	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.11E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.11E-03
729	ALL	391115	3751940	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.56E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.56E-03
730	ALL	391135	3751940	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.68E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.68E-03
731	ALL	391145	3751940	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.39E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.39E-03
732	ALL	391155	3751940	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.21E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.21E-03
733	ALL	391165	3751940	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.17E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.17E-03
734	ALL	391175	3751940	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-02
735	ALL	391185	3751940	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-02
736	ALL	391195	3751940	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-02
737	ALL	391205	3751940	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-02
738	ALL	391215	3751940	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-02
739	ALL	391225	3751940	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-02
740	ALL	391235	3751940	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E-02
741	ALL	391075	3751950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.11E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.11E-03
742	ALL	391085	3751950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.43E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.43E-03
743	ALL	391095	3751950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.80E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.80E-03
744	ALL	391105	3751950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.22E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.22E-03
745	ALL	391115	3751950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.70E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.70E-03
746	ALL	391135	3751950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.88E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.88E-03
747	ALL	391145	3751950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.65E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.65E-03
748	ALL	391155	3751950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.54E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.54E-03
749	ALL	391165	3751950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.59E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.59E-03
750	ALL	391175	3751950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-02
751	ALL	391185	3751950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-02
752	ALL	391195	3751950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-02
753	ALL	391205	3751950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-02
754	ALL	391215	3751950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-02
755	ALL	391225	3751950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-02
756	ALL	391235	3751950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.94E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.94E-02
757	ALL	391075	3751960	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.16E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.16E-03
758	ALL	391085	3751960	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.50E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.50E-03
759	ALL	391095	3751960	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.88E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.88E-03
760	ALL	391105	3751960	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.32E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.32E-03
761	ALL	391115	3751960	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.82E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.82E-03
762	ALL	391135	3751960	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.06E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.06E-03
763	ALL	391145	3751960	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.87E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.87E-03
764	ALL	391155	3751960	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.82E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.82E-03
765	ALL	391165	3751960	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.96E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.96E-03
766	ALL	391175	3751960	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-02
767	ALL	391185	3751960	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-02
768	ALL	391195	3751960	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-02
769	ALL	391205	3751960	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-02
770	ALL	391215	3751960	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-02
771	ALL	391225	3751960	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.65E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.65E-02
772	ALL	391075	3751970	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.21E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.21E-03
773	ALL	391085	3751970	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.55E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.55E-03
774	ALL	391095	3751970	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.95E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.95E-03
775	ALL	391105	3751970	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.40E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.40E-03
776	ALL	391115	3751970	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00

791	ALL	391115	3751980	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.98E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.98E-03
792	ALL	391135	3751980	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.31E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.31E-03
793	ALL	391145	3751980	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.19E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.19E-03
794	ALL	391155	3751980	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.23E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.23E-03
795	ALL	391165	3751980	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-02
796	ALL	391175	3751980	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-02
797	ALL	391185	3751980	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-02
798	ALL	391195	3751980	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-02
799	ALL	391205	3751980	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-02
800	ALL	391215	3751980	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-02
801	ALL	391225	3751980	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.15E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.15E-02
802	ALL	391075	3751990	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.26E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.26E-03
803	ALL	391085	3751990	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.61E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.61E-03
804	ALL	391095	3751990	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.02E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.02E-03
805	ALL	391105	3751990	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.48E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.48E-03
806	ALL	391115	3751990	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.02E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.02E-03
807	ALL	391135	3751990	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.37E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.37E-03
808	ALL	391145	3751990	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.27E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.27E-03
809	ALL	391155	3751990	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.34E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.34E-03
810	ALL	391165	3751990	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-02
811	ALL	391175	3751990	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-02
812	ALL	391185	3751990	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-02
813	ALL	391195	3751990	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-02
814	ALL	391205	3751990	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-02
815	ALL	391215	3751990	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-02
816	ALL	391075	3752000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.26E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.26E-03
817	ALL	391085	3752000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.61E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.61E-03
818	ALL	391095	3752000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.02E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.02E-03
819	ALL	391105	3752000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.49E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.49E-03
820	ALL	391115	3752000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.02E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.02E-03
821	ALL	391135	3752000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.39E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.39E-03
822	ALL	391145	3752000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.28E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.28E-03
823	ALL	391155	3752000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.36E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.36E-03
824	ALL	391165	3752000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-02
825	ALL	391175	3752000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-02
826	ALL	391185	3752000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-02
827	ALL	391195	3752000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-02
828	ALL	391205	3752000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-02
829	ALL	391215	3752000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-02
830	ALL	391135	3752010	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.36E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.36E-03
831	ALL	391075	3752020	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.22E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.22E-03
832	ALL	391085	3752020	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.57E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.57E-03
833	ALL	391095	3752020	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.97E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.97E-03
834	ALL	391105	3752020	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.43E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.43E-03
835	ALL	391115	3752020	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.95E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.95E-03
836	ALL	391135	3752020	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.29E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.29E-03
837	ALL	391145	3752020	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.15E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.15E-03
838	ALL	391155	3752020	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.19E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.19E-03
839	ALL	391165	3752020	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-02
840	ALL	391175	3752020	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-02
841	ALL	391185	3752020	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-02
842	ALL	391075	3752030	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.19E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.19E-03
843	ALL	391085	3752030	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.53E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.53E-03
844	ALL	391095	3752030	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.92E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.92E-03
845	ALL	391105	3752030	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.37E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.37E-03
846	ALL	391115	3752030	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.88E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.88E-03
847	ALL	391135	3752030	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.18E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.18E-03
848	ALL	391145	3752030	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.02E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.02E-03
849	ALL	391155	3752030	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.02E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.02E-03
850	ALL	391165	3752030	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-02
851	ALL	391175	3752030	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-02
852	ALL	391185	3752030	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-02
853	ALL	391075	3752040	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.14E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.14E-03
854	ALL	391085	3752040	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.48E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.48E-03
855	ALL	391095	3752040	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.86E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.86E-03
856	ALL	391105	3752040	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.29E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.29E-03
857	ALL	391115	3752040	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.78E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.78E-03
858	ALL	391135	3752040	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.03E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.03E-03
859	ALL	391145	3752040	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.83E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.83E-03
860	ALL	391155	3752040	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.78E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.78E-03
861	ALL	391165	3752040	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.92E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.92E-03
862	ALL	391175	3752040	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-02
863	ALL	391185	3752040	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-02
864	ALL	391075	3752050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.08E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.08E-03
865	ALL	391085	3752050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.41E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.41E-03
866	ALL	391095	3752050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.77E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.77E-03
867	ALL	391105	3752050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.19E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.19E-03
868	ALL	391115	3752050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.66E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.66E-03
869	ALL	391135	3752050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.84E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.84E-03
870	ALL	391145	3752050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.60E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.60E-03
871	ALL	391155	3752050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.49E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.49E-03
872	ALL	391165	3752050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.54E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.54E-03
873	ALL	391175	3752050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-02
874	ALL	391185	3752050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-02
875	ALL	391135	3752060	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.63E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.63E-03
876	ALL	391145	3752060	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.34E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.34E-03
877	ALL	391155	3752060	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.16E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.16E-03
878	ALL	391165	3752060	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.13E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.13E-03
879	ALL	391175	3752060	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-02
880	ALL	391185	3752060	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-02
881	ALL	391135	3752070	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.40E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.40E-03
882	ALL	391145	3752070	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.06E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.06E-03
883	ALL	391155	3752070	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.81E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.81E-03
884	ALL	391135	3752080	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.16E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.16E-03
885	ALL	391145	3752080	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.75E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.75E-03
886	ALL	391155	3752080	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.43E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.43E-03
887	ALL	391235	3752120	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-02
888	ALL	391245	3752120	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-02
889	ALL	391255	3752120	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00

904	ALL	391405	3752120	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.23E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.23E-03
905	ALL	391415	3752120	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.47E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.47E-03
906	ALL	391425	3752120	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.79E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.79E-03
907	ALL	391235	3752130	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-02
908	ALL	391245	3752130	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-02
909	ALL	391255	3752130	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-02
910	ALL	391265	3752130	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-02
911	ALL	391275	3752130	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-02
912	ALL	391285	3752130	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-02
913	ALL	391295	3752130	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-02
914	ALL	391305	3752130	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-02
915	ALL	391315	3752130	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-02
916	ALL	391325	3752130	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-02
917	ALL	391335	3752130	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-02
918	ALL	391345	3752130	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-02
919	ALL	391355	3752130	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-02
920	ALL	391365	3752130	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-02
921	ALL	391375	3752130	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-02
922	ALL	391385	3752130	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.97E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.97E-03
923	ALL	391395	3752130	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.24E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.24E-03
924	ALL	391405	3752130	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.54E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.54E-03
925	ALL	391415	3752130	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.90E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.90E-03
926	ALL	391425	3752130	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.31E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.31E-03
927	ALL	391235	3752140	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.30E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.30E-03
928	ALL	391245	3752140	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.91E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.91E-03
929	ALL	391255	3752140	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-02
930	ALL	391265	3752140	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-02
931	ALL	391275	3752140	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-02
932	ALL	391285	3752140	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-02
933	ALL	391295	3752140	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-02
934	ALL	391305	3752140	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-02
935	ALL	391315	3752140	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-02
936	ALL	391325	3752140	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-02
937	ALL	391335	3752140	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-02
938	ALL	391345	3752140	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-02
939	ALL	391355	3752140	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-02
940	ALL	391365	3752140	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-02
941	ALL	391375	3752140	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.67E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.67E-03
942	ALL	391385	3752140	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.07E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.07E-03
943	ALL	391395	3752140	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.47E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.47E-03
944	ALL	391405	3752140	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.90E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.90E-03
945	ALL	391415	3752140	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.36E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.36E-03
946	ALL	391425	3752140	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.86E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.86E-03
947	ALL	391235	3752150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.37E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.37E-03
948	ALL	391245	3752150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.85E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.85E-03
949	ALL	391255	3752150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.31E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.31E-03
950	ALL	391265	3752150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.74E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.74E-03
951	ALL	391275	3752150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-02
952	ALL	391285	3752150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-02
953	ALL	391295	3752150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-02
954	ALL	391305	3752150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-02
955	ALL	391315	3752150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-02
956	ALL	391325	3752150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-02
957	ALL	391335	3752150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-02
958	ALL	391345	3752150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-02
959	ALL	391355	3752150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.65E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.65E-03
960	ALL	391365	3752150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.22E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.22E-03
961	ALL	391375	3752150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.74E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.74E-03
962	ALL	391385	3752150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.26E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.26E-03
963	ALL	391395	3752150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.78E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.78E-03
964	ALL	391405	3752150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.30E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.30E-03
965	ALL	391415	3752150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.85E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.85E-03
966	ALL	391425	3752150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.42E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.42E-03
967	ALL	391235	3752160	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.57E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.57E-03
968	ALL	391245	3752160	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.96E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.96E-03
969	ALL	391255	3752160	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.32E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.32E-03
970	ALL	391265	3752160	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.66E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.66E-03
971	ALL	391275	3752160	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.95E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.95E-03
972	ALL	391285	3752160	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.19E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.19E-03
973	ALL	391295	3752160	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.36E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.36E-03
974	ALL	391305	3752160	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.44E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.44E-03
975	ALL	391315	3752160	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.44E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.44E-03
976	ALL	391325	3752160	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.35E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.35E-03
977	ALL	391335	3752160	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.17E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.17E-03
978	ALL	391345	3752160	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.94E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.94E-03
979	ALL	391355	3752160	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.64E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.64E-03
980	ALL	391365	3752160	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.31E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.31E-03
981	ALL	391375	3752160	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.93E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.93E-03
982	ALL	391385	3752160	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.55E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.55E-03
983	ALL	391395	3752160	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.16E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.16E-03
984	ALL	391405	3752160	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.76E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.76E-03
985	ALL	391415	3752160	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.38E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.38E-03
986	ALL	391425	3752160	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.01E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.01E-03
987	ALL	391245	3752170	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.19E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.19E-03
988	ALL	391255	3752170	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.49E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.49E-03
989	ALL	391265	3752170	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.76E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.76E-03
990	ALL	391275	3752170	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.99E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.99E-03
991	ALL	391285	3752170	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.18E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.18E-03
992	ALL	391295	3752170	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.31E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.31E-03
993	ALL	391305	3752170	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.38E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.38E-03
994	ALL	391315	3752170	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.39E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.39E-03
995	ALL	391325	3752170	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.32E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.32E-03
996	ALL	391335	3752170	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.19E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.19E-03
997	ALL	391345	3752170	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.01E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.01E-03
998	ALL	391355	3752170	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.79E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.79E-03
999	ALL	391365	3752170	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.52E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.52E-03
1000	ALL	391375	3752170	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.23E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.23E-03
1001	ALL	391385	3752170	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.92E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.92E-03
1002	ALL	391395	3752170	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00

1017	ALL	391355	3752180	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.05E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.05E-03
1018	ALL	391365	3752180	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.84E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.84E-03
1019	ALL	391375	3752180	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.61E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.61E-03
1020	ALL	391385	3752180	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.35E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.35E-03
1021	ALL	391395	3752180	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.09E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.09E-03
1022	ALL	391405	3752180	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.81E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.81E-03
1023	ALL	391415	3752180	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.54E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.54E-03
1024	ALL	391425	3752180	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.27E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.27E-03
1025	ALL	391245	3752190	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.97E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.97E-03
1026	ALL	391255	3752190	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.17E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.17E-03
1027	ALL	391265	3752190	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.35E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.35E-03
1028	ALL	391275	3752190	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.50E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.50E-03
1029	ALL	391285	3752190	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.63E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.63E-03
1030	ALL	391295	3752190	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.71E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.71E-03
1031	ALL	391305	3752190	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.75E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.75E-03
1032	ALL	391315	3752190	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.76E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.76E-03
1033	ALL	391325	3752190	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.74E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.74E-03
1034	ALL	391335	3752190	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.66E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.66E-03
1035	ALL	391345	3752190	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.56E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.56E-03
1036	ALL	391355	3752190	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.42E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.42E-03
1037	ALL	391365	3752190	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.25E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.25E-03
1038	ALL	391375	3752190	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.06E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.06E-03
1039	ALL	391385	3752190	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.85E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.85E-03
1040	ALL	391395	3752190	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.63E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.63E-03
1041	ALL	391405	3752190	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.40E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.40E-03
1042	ALL	391415	3752190	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.17E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.17E-03
1043	ALL	391425	3752190	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.94E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.94E-03
1044	ALL	391245	3752200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.48E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.48E-03
1045	ALL	391255	3752200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.64E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.64E-03
1046	ALL	391265	3752200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.79E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.79E-03
1047	ALL	391275	3752200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.92E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.92E-03
1048	ALL	391285	3752200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.02E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.02E-03
1049	ALL	391295	3752200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.09E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.09E-03
1050	ALL	391305	3752200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.13E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.13E-03
1051	ALL	391315	3752200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.14E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.14E-03
1052	ALL	391325	3752200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.12E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.12E-03
1053	ALL	391335	3752200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.06E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.06E-03
1054	ALL	391345	3752200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.98E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.98E-03
1055	ALL	391355	3752200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.87E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.87E-03
1056	ALL	391365	3752200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.73E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.73E-03
1057	ALL	391375	3752200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.57E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.57E-03
1058	ALL	391385	3752200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.40E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.40E-03
1059	ALL	391395	3752200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.22E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.22E-03
1060	ALL	391405	3752200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.03E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.03E-03
1061	ALL	391415	3752200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.84E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.84E-03
1062	ALL	391425	3752200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.64E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.64E-03
1063	ALL	391255	3752210	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.18E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.18E-03
1064	ALL	391265	3752210	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.31E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.31E-03
1065	ALL	391275	3752210	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.41E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.41E-03
1066	ALL	391285	3752210	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.50E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.50E-03
1067	ALL	391295	3752210	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.56E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.56E-03
1068	ALL	391305	3752210	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.59E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.59E-03
1069	ALL	391315	3752210	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.60E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.60E-03
1070	ALL	391325	3752210	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.59E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.59E-03
1071	ALL	391335	3752210	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.55E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.55E-03
1072	ALL	391345	3752210	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.48E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.48E-03
1073	ALL	391355	3752210	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.39E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.39E-03
1074	ALL	391365	3752210	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.28E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.28E-03
1075	ALL	391375	3752210	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.15E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.15E-03
1076	ALL	391385	3752210	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.01E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.01E-03
1077	ALL	391395	3752210	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.85E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.85E-03
1078	ALL	391405	3752210	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.69E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.69E-03
1079	ALL	391415	3752210	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.53E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.53E-03
1080	ALL	391425	3752210	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.36E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.36E-03
1081	ALL	391255	3752220	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.78E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.78E-03
1082	ALL	391265	3752220	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.89E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.89E-03
1083	ALL	391275	3752220	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.97E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.97E-03
1084	ALL	391285	3752220	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.05E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.05E-03
1085	ALL	391295	3752220	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.10E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.10E-03
1086	ALL	391305	3752220	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.13E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.13E-03
1087	ALL	391315	3752220	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.14E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.14E-03
1088	ALL	391325	3752220	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.13E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.13E-03
1089	ALL	391335	3752220	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.09E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.09E-03
1090	ALL	391345	3752220	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.04E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.04E-03
1091	ALL	391355	3752220	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.97E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.97E-03
1092	ALL	391365	3752220	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.88E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.88E-03
1093	ALL	391375	3752220	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.77E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.77E-03
1094	ALL	391385	3752220	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.65E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.65E-03
1095	ALL	391395	3752220	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.52E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.52E-03
1096	ALL	391405	3752220	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.38E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.38E-03
1097	ALL	391415	3752220	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.24E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.24E-03
1098	ALL	391425	3752220	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.10E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.10E-03
1099	ALL	391255	3752230	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.43E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.43E-03
1100	ALL	391265	3752230	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.51E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.51E-03
1101	ALL	391275	3752230	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.59E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.59E-03
1102	ALL	391285	3752230	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.65E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.65E-03
1103	ALL	391295	3752230	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.69E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.69E-03
1104	ALL	391305	3752230	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.72E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.72E-03
1105	ALL	391315	3752230	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.73E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.73E-03
1106	ALL	391325	3752230	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.72E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.72E-03
1107	ALL	391335	3752230	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.70E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.70E-03
1108	ALL	391345	3752230	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.65E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.65E-03
1109	ALL	391355	3752230	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.59E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.59E-03
1110	ALL	391365	3752230	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.52E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.52E-03
1111	ALL	391375	3752230	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.43E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.43E-03
1112	ALL	391385	3752230	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.33E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.33E-03
1113	ALL	391395	3752230	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.22E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.22E-03
1114	ALL	391405	3752230	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.10E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00

HARP2 - HRACalc (dated 22118) 10/26/2022 10:59:03 AM - Output Log

GLCs loaded successfully
Pollutants loaded successfully
Pathway receptors loaded successfully
****
RISK SCENARIO SETTINGS

Receptor Type: Resident
Scenario: All
Calculation Method: Derived

****
EXPOSURE DURATION PARAMETERS FOR CANCER

Start Age: -0.25
Total Exposure Duration: 1.76

Exposure Duration Bin Distribution
3rd Trimester Bin: 0.25
0<2 Years Bin: 1.76
2<9 Years Bin: 0
2<16 Years Bin: 0
16<30 Years Bin: 0
16 to 70 Years Bin: 0

****
PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: True
Dermal: True
Mother's milk: True
Water: False
Fish: False
Homegrown crops: True
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

****
INHALATION

Daily breathing rate: RMP

Worker Adjustment Factors
Worker adjustment factors enabled: NO

Fraction at time at home
3rd Trimester to 16 years: OFF
16 years to 70 years: OFF

****
SOIL & DERMAL PATHWAY SETTINGS

Deposition rate (m/s): 0.02
Soil mixing depth (m): 0.01
Dermal climate: Warm

****
HOMEGROWN CROP PATHWAY SETTINGS

Household type: HouseholdsthatGarden
Fraction leafy: 0.137
Fraction exposed: 0.137
Fraction protected: 0.137
Fraction root: 0.137

****
TIER 2 SETTINGS

Tier2 adjustments were used in this assessment. Please see the input file for details.
Tier2 - What was changed: ED or start age changed|
Calculating cancer risk
Cancer risk breakdown by pollutant and receptor saved to: C:\Users\shalterman\Desktop\Spane HRA\SPANE CONSTRUCTION\hra\Residential-Tier 4CancerRisk.csv
Cancer risk total by receptor saved to: C:\Users\shalterman\Desktop\Spane HRA\SPANE CONSTRUCTION\hra\Residential-Tier 4CancerRiskSumByRec.csv
Calculating chronic risk
Chronic risk breakdown by pollutant and receptor saved to: C:\Users\shalterman\Desktop\Spane HRA\SPANE CONSTRUCTION\hra\Residential-Tier 4NCChronicRisk.csv
Chronic risk total by receptor saved to: C:\Users\shalterman\Desktop\Spane HRA\SPANE CONSTRUCTION\hra\Residential-Tier 4NCChronicRiskSumByRec.csv
Calculating acute risk
Acute risk breakdown by pollutant and receptor saved to: C:\Users\shalterman\Desktop\Spane HRA\SPANE CONSTRUCTION\hra\Residential-Tier 4NCAcuteRisk.csv
Acute risk total by receptor saved to: C:\Users\shalterman\Desktop\Spane HRA\SPANE CONSTRUCTION\hra\Residential-Tier 4NCAcuteRiskSumByRec.csv
HRA ran successfully

REC	GRP	NETID	X	Y	RISK_SUM	SCENARIO	INH_RISK	SOIL_RISK	DERMAL_R	MMILK_RI	WATER_RI	FISH_RISK	CROP_RISK	BEEF_RISK	DAIRY_RIS	PIG_RISK	CHICKEN_F	EGG_RISK
1	ALL		390780	3751525	1.40E-07	1.76YrCanc	1.40E-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
2	ALL		390830	3751525	1.54E-07	1.76YrCanc	1.54E-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
3	ALL		390880	3751525	1.68E-07	1.76YrCanc	1.68E-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
4	ALL		390930	3751525	1.83E-07	1.76YrCanc	1.83E-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
5	ALL		390980	3751525	1.99E-07	1.76YrCanc	1.99E-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
6	ALL		391030	3751525	2.15E-07	1.76YrCanc	2.15E-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
7	ALL		391080	3751525	2.31E-07	1.76YrCanc	2.31E-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
8	ALL		391130	3751525	2.45E-07	1.76YrCanc	2.45E-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
9	ALL		391180	3751525	2.57E-07	1.76YrCanc	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
10	ALL		391230	3751525	2.65E-07	1.76YrCanc	2.65E-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
11	ALL		391280	3751525	2.69E-07	1.76YrCanc	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
12	ALL		391330	3751525	2.68E-07	1.76YrCanc	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
13	ALL		391380	3751525	2.62E-07	1.76YrCanc	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
14	ALL		391430	3751525	2.51E-07	1.76YrCanc	2.51E-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
15	ALL		391480	3751525	2.38E-07	1.76YrCanc	2.38E-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
16	ALL		391530	3751525	2.23E-07	1.76YrCanc	2.23E-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
17	ALL		391580	3751525	2.07E-07	1.76YrCanc	2.07E-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
18	ALL		391630	3751525	1.90E-07	1.76YrCanc	1.90E-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
19	ALL		391680	3751525	1.75E-07	1.76YrCanc	1.75E-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
20	ALL		391730	3751525	1.60E-07	1.76YrCanc	1.60E-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
21	ALL		391780	3751525	1.46E-07	1.76YrCanc	1.46E-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
22	ALL		390780	3751575	1.52E-07	1.76YrCanc	1.52E-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
23	ALL		390830	3751575	1.68E-07	1.76YrCanc	1.68E-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
24	ALL		390880	3751575	1.86E-07	1.76YrCanc	1.86E-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
25	ALL		390930	3751575	2.05E-07	1.76YrCanc	2.05E-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
26	ALL		390980	3751575	2.26E-07	1.76YrCanc	2.26E-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
27	ALL		391030	3751575	2.48E-07	1.76YrCanc	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
28	ALL		391080	3751575	2.70E-07	1.76YrCanc	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
29	ALL		391130	3751575	2.91E-07	1.76YrCanc	2.91E-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
30	ALL		391180	3751575	3.08E-07	1.76YrCanc	3.08E-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
31	ALL		391230	3751575	3.20E-07	1.76YrCanc	3.20E-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
32	ALL		391280	3751575	3.26E-07	1.76YrCanc	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
33	ALL		391330	3751575	3.24E-07	1.76YrCanc	3.24E-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
34	ALL		391380	3751575	3.15E-07	1.76YrCanc	3.15E-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
35	ALL		391430	3751575	3.00E-07	1.76YrCanc	3.00E-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
36	ALL		391480	3751575	2.80E-07	1.76YrCanc	2.80E-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
37	ALL		391530	3751575	2.59E-07	1.76YrCanc	2.59E-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
38	ALL		391580	3751575	2.37E-07	1.76YrCanc	2.37E-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
39	ALL		391630	3751575	2.15E-07	1.76YrCanc	2.15E-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
40	ALL		391680	3751575	1.95E-07	1.76YrCanc	1.95E-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
41	ALL		391730	3751575	1.76E-07	1.76YrCanc	1.76E-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
42	ALL		391780	3751575	1.60E-07	1.76YrCanc	1.60E-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
43	ALL		390780	3751625	1.65E-07	1.76YrCanc	1.65E-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
44	ALL		390830	3751625	1.84E-07	1.76YrCanc	1.84E-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
45	ALL		390880	3751625	2.06E-07	1.76YrCanc	2.06E-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
46	ALL		390930	3751625	2.30E-07	1.76YrCanc	2.30E-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
47	ALL		390980	3751625	2.58E-07	1.76YrCanc	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
48	ALL		391030	3751625	2.88E-07	1.76YrCanc	2.88E-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
49	ALL		391080	3751625	3.19E-07	1.76YrCanc	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
50	ALL		391130	3751625	3.50E-07	1.76YrCanc	3.50E-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
51	ALL		391180	3751625	3.76E-07	1.76YrCanc	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
52	ALL		391230	3751625	3.96E-07	1.76YrCanc	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
53	ALL		391280	3751625	4.05E-07	1.76YrCanc	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
54	ALL		391330	3751625	4.02E-07	1.76YrCanc	4.02E-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
55	ALL		391380	3751625	3.88E-07	1.76YrCanc	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
56	ALL		391430	3751625	3.64E-07	1.76YrCanc	3.64E-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
57	ALL		391480	3751625	3.35E-07	1.76YrCanc	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
58	ALL		391530	3751625	3.04E-07	1.76YrCanc	3.04E-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
59	ALL		391580	3751625	2.73E-07	1.76YrCanc	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
60	ALL		391630	3751625	2.44E-07	1.76YrCanc	2.44E-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
61	ALL		391680	3751625	2.18E-07	1.76YrCanc	2.18E-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
62	ALL		391730	3751625	1.95E-07	1.76YrCanc	1.95E-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
63	ALL		391780	3751625	1.74E-07	1.76YrCanc	1.74E-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
64	ALL		390780	3751675	1.77E-07	1.76YrCanc	1.77E-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
65	ALL		390830	3751675	2.00E-07	1.76YrCanc	2.00E-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
66	ALL		390880	3751675	2.27E-07	1.76YrCanc	2.27E-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
67	ALL		390930	3751675	2.59E-07	1.76YrCanc	2.59E-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
68	ALL		390980	3751675	2.95E-07	1.76YrCanc	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
69	ALL		391030	3751675	3.37E-07	1.76YrCanc	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
70	ALL		391080	3751675	3.82E-07	1.76YrCanc	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
71	ALL		391130	3751675	4.28E-07	1.76YrCanc	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
72	ALL		391180	3751675	4.72E-07	1.76YrCanc	4.72E-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
73	ALL		391230	3751675	5.05E-07	1.76YrCanc	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
74	ALL		391280	3751675	5.21E-07	1.76YrCanc	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
75	ALL		391330	3751675	5.16E-07	1.76YrCanc	5.16E-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
76	ALL		391380	3751675	4.92E-07	1.76YrCanc	4.92E-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
77	ALL		391430	3751675	4.53E-07	1.76YrCanc	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
78	ALL		391480	3751675	4.07E-07	1.76YrCanc	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
79	ALL		391530	3751675	3.60E-07	1.76YrCanc	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
80	ALL		391580	3751675	3.16E-07	1.76YrCanc	3.16E-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
81	ALL		391630	3751675	2.77E-07	1.76YrCanc	2.77E-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
82	ALL		391680	3751675	2.43E-07	1.76YrCanc	2.43E-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
83	ALL		391730	3751675	2.14E-07	1.76YrCanc	2.14E-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
84	ALL		391780	3751675	1.89E-07	1.76YrCanc	1.89E-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
85	ALL		390780	3751725	1.90E-07	1.76YrCanc	1.90E-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
86	ALL		390830	3751725	2.17E-07	1.76YrCanc	2.17E-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
87	ALL		390880	3751725	2.50E-07	1.76YrCanc	2.50E-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
88	ALL		390930	3751725	2.89E-07	1.76YrCanc	2.89E-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
89	ALL		390980	3751725	3.38E-07	1.76YrCanc	3.38E-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
90	ALL		391030	3751725	3.95E-07	1.76YrCanc	3.95E-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
91	ALL		391080	3751725	4.62E-07	1.76YrCanc	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
92	ALL		391130	3751725	5.35E-07	1.76YrCanc	5.35E-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
93	ALL		391180	3751725	6.09E-07	1.76YrCanc	6.09E-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
94	ALL		391230	3751725	6.69E-07	1.76YrCanc	6.69E-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
95	ALL		391280	3751725	7.00E-07	1.76YrCanc	7.00E-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
96	ALL		391330	3751725	6.92E-07	1.76YrCanc	6.92E-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
97	ALL		391380	3751725	6.46E-07	1.76YrCanc	6.46E-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
98	ALL		391430	3751725	5.77E-07	1.76YrCanc	5.77E-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
99	ALL		391530	3751725	4.30E-07	1.76YrCanc	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
100	ALL		391580	3751725	3.68E-07	1.76YrCanc	3.68E-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

101	ALL	391630	3751725	3.15E-07	1.76YrCanc	3.15E-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
102	ALL	391680	3751725	2.71E-07	1.76YrCanc	2.71E-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
103	ALL	391730	3751725	2.35E-07	1.76YrCanc	2.35E-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
104	ALL	391780	3751725	2.05E-07	1.76YrCanc	2.05E-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
105	ALL	390780	3751775	2.02E-07	1.76YrCanc	2.02E-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
106	ALL	390830	3751775	2.34E-07	1.76YrCanc	2.34E-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
107	ALL	390880	3751775	2.73E-07	1.76YrCanc	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
108	ALL	390930	3751775	3.22E-07	1.76YrCanc	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
109	ALL	390980	3751775	3.84E-07	1.76YrCanc	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
110	ALL	391030	3751775	4.63E-07	1.76YrCanc	4.63E-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
111	ALL	391080	3751775	5.62E-07	1.76YrCanc	5.62E-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
112	ALL	391130	3751775	6.81E-07	1.76YrCanc	6.81E-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
113	ALL	391180	3751775	8.15E-07	1.76YrCanc	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
114	ALL	391230	3751775	9.37E-07	1.76YrCanc	9.37E-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
115	ALL	391280	3751775	1.01E-06	1.76YrCanc	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
116	ALL	391330	3751775	9.88E-07	1.76YrCanc	9.88E-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
117	ALL	391380	3751775	8.92E-07	1.76YrCanc	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
118	ALL	391430	3751775	7.60E-07	1.76YrCanc	7.60E-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
119	ALL	391580	3751775	4.27E-07	1.76YrCanc	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
120	ALL	391630	3751775	3.56E-07	1.76YrCanc	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
121	ALL	391680	3751775	3.00E-07	1.76YrCanc	3.00E-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
122	ALL	391730	3751775	2.56E-07	1.76YrCanc	2.56E-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
123	ALL	391780	3751775	2.20E-07	1.76YrCanc	2.20E-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
124	ALL	390780	3751825	2.13E-07	1.76YrCanc	2.13E-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
125	ALL	390830	3751825	2.49E-07	1.76YrCanc	2.49E-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
126	ALL	390880	3751825	2.94E-07	1.76YrCanc	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
127	ALL	390930	3751825	3.54E-07	1.76YrCanc	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
128	ALL	390980	3751825	4.32E-07	1.76YrCanc	4.32E-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
129	ALL	391030	3751825	5.38E-07	1.76YrCanc	5.38E-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
130	ALL	391080	3751825	6.84E-07	1.76YrCanc	6.84E-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
131	ALL	391180	3751825	1.13E-06	1.76YrCanc	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
132	ALL	391230	3751825	1.42E-06	1.76YrCanc	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
133	ALL	391280	3751825	1.61E-06	1.76YrCanc	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
134	ALL	391330	3751825	1.56E-06	1.76YrCanc	1.56E-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
135	ALL	391380	3751825	1.32E-06	1.76YrCanc	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
136	ALL	391580	3751825	4.92E-07	1.76YrCanc	4.92E-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
137	ALL	391630	3751825	3.99E-07	1.76YrCanc	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
138	ALL	391680	3751825	3.29E-07	1.76YrCanc	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
139	ALL	391730	3751825	2.76E-07	1.76YrCanc	2.76E-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
140	ALL	391780	3751825	2.34E-07	1.76YrCanc	2.34E-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
141	ALL	390780	3751875	2.22E-07	1.76YrCanc	2.22E-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
142	ALL	390830	3751875	2.62E-07	1.76YrCanc	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
143	ALL	390880	3751875	3.13E-07	1.76YrCanc	3.13E-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
144	ALL	390930	3751875	3.82E-07	1.76YrCanc	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
145	ALL	390980	3751875	4.78E-07	1.76YrCanc	4.78E-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
146	ALL	391030	3751875	6.16E-07	1.76YrCanc	6.16E-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
147	ALL	391080	3751875	8.20E-07	1.76YrCanc	8.20E-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
148	ALL	391180	3751875	1.64E-06	1.76YrCanc	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
149	ALL	391230	3751875	2.39E-06	1.76YrCanc	2.39E-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
150	ALL	391330	3751875	2.96E-06	1.76YrCanc	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
151	ALL	391380	3751875	2.11E-06	1.76YrCanc	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
152	ALL	391430	3751875	1.43E-06	1.76YrCanc	1.43E-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
153	ALL	391580	3751875	5.58E-07	1.76YrCanc	5.58E-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
154	ALL	391630	3751875	4.39E-07	1.76YrCanc	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
155	ALL	391680	3751875	3.55E-07	1.76YrCanc	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
156	ALL	391730	3751875	2.93E-07	1.76YrCanc	2.93E-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
157	ALL	391780	3751875	2.47E-07	1.76YrCanc	2.47E-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
158	ALL	390780	3751925	2.29E-07	1.76YrCanc	2.29E-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
159	ALL	390830	3751925	2.71E-07	1.76YrCanc	2.71E-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
160	ALL	390880	3751925	3.27E-07	1.76YrCanc	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
161	ALL	390930	3751925	4.04E-07	1.76YrCanc	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
162	ALL	390980	3751925	5.13E-07	1.76YrCanc	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
163	ALL	391080	3751925	9.44E-07	1.76YrCanc	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
164	ALL	391380	3751925	3.62E-06	1.76YrCanc	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
165	ALL	391580	3751925	6.16E-07	1.76YrCanc	6.16E-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
166	ALL	391630	3751925	4.73E-07	1.76YrCanc	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
167	ALL	391680	3751925	3.77E-07	1.76YrCanc	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
168	ALL	391730	3751925	3.08E-07	1.76YrCanc	3.08E-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
169	ALL	391780	3751925	2.57E-07	1.76YrCanc	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
170	ALL	390780	3751975	2.32E-07	1.76YrCanc	2.32E-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
171	ALL	390830	3751975	2.75E-07	1.76YrCanc	2.75E-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
172	ALL	390880	3751975	3.34E-07	1.76YrCanc	3.34E-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
173	ALL	390930	3751975	4.15E-07	1.76YrCanc	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
174	ALL	390980	3751975	5.34E-07	1.76YrCanc	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
175	ALL	391030	3751975	7.17E-07	1.76YrCanc	7.17E-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
176	ALL	391080	3751975	1.02E-06	1.76YrCanc	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
177	ALL	391180	3751975	2.99E-06	1.76YrCanc	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
178	ALL	391580	3751975	6.58E-07	1.76YrCanc	6.58E-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
179	ALL	391630	3751975	4.97E-07	1.76YrCanc	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
180	ALL	391680	3751975	3.92E-07	1.76YrCanc	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
181	ALL	391730	3751975	3.18E-07	1.76YrCanc	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
182	ALL	391780	3751975	2.63E-07	1.76YrCanc	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
183	ALL	390780	3752025	2.31E-07	1.76YrCanc	2.31E-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
184	ALL	390830	3752025	2.75E-07	1.76YrCanc	2.75E-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
185	ALL	390880	3752025	3.33E-07	1.76YrCanc	3.33E-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
186	ALL	390930	3752025	4.14E-07	1.76YrCanc	4.14E-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
187	ALL	390980	3752025	5.32E-07	1.76YrCanc	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
188	ALL	391030	3752025	7.15E-07	1.76YrCanc	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
189	ALL	391080	3752025	1.02E-06	1.76YrCanc	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
190	ALL	391180	3752025	2.99E-06	1.76YrCanc	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
191	ALL	391530	3752025	9.44E-07	1.76YrCanc	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
192	ALL	391580	3752025	6.74E-07	1.76YrCanc	6.74E-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
193	ALL	391630	3752025	5.08E-07	1.76YrCanc	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
194	ALL	391680	3752025	3.98E-07	1.76YrCanc	3.98E-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
195	ALL	391730	3752025	3.22E-07	1.76YrCanc	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
196	ALL	391780	3752025	2.66E-07	1.76YrCanc	2.66E-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
197	ALL	390780	3752075	2.10E-07	1.76YrCanc	2.10E-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
198	ALL	390830	3752075	2.70E-07	1.76YrCanc	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
199	ALL	390880	3752075	3.26E-07	1.76YrCanc	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
200	ALL	390930	3752075	4.01E-07	1.76YrCanc	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
201	ALL	390980	3752075	5.11E-07	1.76YrCanc	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

202	ALL	391030	3752075	6.74E-07	1.76YrCanc	6.74E-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
203	ALL	391580	3752075	6.60E-07	1.76YrCanc	6.60E-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
204	ALL	391630	3752075	5.02E-07	1.76YrCanc	5.02E-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
205	ALL	391680	3752075	3.95E-07	1.76YrCanc	3.95E-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
206	ALL	391730	3752075	3.21E-07	1.76YrCanc	3.21E-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
207	ALL	391780	3752075	2.66E-07	1.76YrCanc	2.66E-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
208	ALL	390780	3752125	2.21E-07	1.76YrCanc	2.21E-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
209	ALL	390830	3752125	2.60E-07	1.76YrCanc	2.60E-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
210	ALL	390880	3752125	3.11E-07	1.76YrCanc	3.11E-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
211	ALL	390930	3752125	3.80E-07	1.76YrCanc	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
212	ALL	390980	3752125	4.74E-07	1.76YrCanc	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
213	ALL	391030	3752125	6.09E-07	1.76YrCanc	6.09E-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
214	ALL	391230	3752125	2.46E-06	1.76YrCanc	2.46E-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
215	ALL	391280	3752125	3.43E-06	1.76YrCanc	3.43E-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
216	ALL	391330	3752125	3.49E-06	1.76YrCanc	3.49E-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
217	ALL	391380	3752125	2.54E-06	1.76YrCanc	2.54E-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
218	ALL	391430	3752125	1.69E-06	1.76YrCanc	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
219	ALL	391530	3752125	8.30E-07	1.76YrCanc	8.30E-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
220	ALL	391580	3752125	6.21E-07	1.76YrCanc	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
221	ALL	391630	3752125	4.81E-07	1.76YrCanc	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
222	ALL	391680	3752125	3.84E-07	1.76YrCanc	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
223	ALL	391730	3752125	3.14E-07	1.76YrCanc	3.14E-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
224	ALL	391780	3752125	2.62E-07	1.76YrCanc	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
225	ALL	390780	3752175	2.11E-07	1.76YrCanc	2.11E-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
226	ALL	390830	3752175	2.47E-07	1.76YrCanc	2.47E-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
227	ALL	390880	3752175	2.92E-07	1.76YrCanc	2.92E-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
228	ALL	390930	3752175	3.51E-07	1.76YrCanc	3.51E-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
229	ALL	390980	3752175	4.29E-07	1.76YrCanc	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
230	ALL	391030	3752175	5.35E-07	1.76YrCanc	5.35E-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
231	ALL	391280	3752175	1.79E-06	1.76YrCanc	1.79E-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
232	ALL	391330	3752175	1.82E-06	1.76YrCanc	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
233	ALL	391380	3752175	1.58E-06	1.76YrCanc	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
234	ALL	391430	3752175	1.24E-06	1.76YrCanc	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
235	ALL	391530	3752175	7.22E-07	1.76YrCanc	7.22E-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
236	ALL	391580	3752175	5.63E-07	1.76YrCanc	5.63E-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
237	ALL	391630	3752175	4.48E-07	1.76YrCanc	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
238	ALL	391680	3752175	3.64E-07	1.76YrCanc	3.64E-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
239	ALL	391730	3752175	3.02E-07	1.76YrCanc	3.02E-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
240	ALL	391780	3752175	2.54E-07	1.76YrCanc	2.54E-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
241	ALL	390780	3752225	2.00E-07	1.76YrCanc	2.00E-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
242	ALL	390830	3752225	2.30E-07	1.76YrCanc	2.30E-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
243	ALL	390880	3752225	2.70E-07	1.76YrCanc	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
244	ALL	390930	3752225	3.19E-07	1.76YrCanc	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
245	ALL	390980	3752225	3.81E-07	1.76YrCanc	3.81E-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
246	ALL	391030	3752225	4.61E-07	1.76YrCanc	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
247	ALL	391280	3752225	1.12E-06	1.76YrCanc	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
248	ALL	391330	3752225	1.14E-06	1.76YrCanc	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
249	ALL	391380	3752225	1.06E-06	1.76YrCanc	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
250	ALL	391430	3752225	9.09E-07	1.76YrCanc	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
251	ALL	391530	3752225	6.10E-07	1.76YrCanc	6.10E-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
252	ALL	391580	3752225	4.97E-07	1.76YrCanc	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
253	ALL	391630	3752225	4.08E-07	1.76YrCanc	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
254	ALL	391680	3752225	3.39E-07	1.76YrCanc	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
255	ALL	391730	3752225	2.85E-07	1.76YrCanc	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
256	ALL	391780	3752225	2.43E-07	1.76YrCanc	2.43E-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
257	ALL	390780	3752275	1.88E-07	1.76YrCanc	1.88E-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
258	ALL	390830	3752275	2.14E-07	1.76YrCanc	2.14E-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
259	ALL	390880	3752275	2.46E-07	1.76YrCanc	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
260	ALL	390930	3752275	2.87E-07	1.76YrCanc	2.87E-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
261	ALL	390980	3752275	3.36E-07	1.76YrCanc	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
262	ALL	391030	3752275	3.95E-07	1.76YrCanc	3.95E-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
263	ALL	391080	3752275	4.66E-07	1.76YrCanc	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
264	ALL	391130	3752275	5.49E-07	1.76YrCanc	5.49E-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
265	ALL	391180	3752275	6.38E-07	1.76YrCanc	6.38E-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
266	ALL	391230	3752275	7.22E-07	1.76YrCanc	7.22E-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
267	ALL	391280	3752275	7.81E-07	1.76YrCanc	7.81E-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
268	ALL	391330	3752275	7.95E-07	1.76YrCanc	7.95E-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
269	ALL	391380	3752275	7.59E-07	1.76YrCanc	7.59E-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
270	ALL	391430	3752275	6.86E-07	1.76YrCanc	6.86E-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
271	ALL	391480	3752275	5.98E-07	1.76YrCanc	5.98E-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
272	ALL	391530	3752275	5.10E-07	1.76YrCanc	5.10E-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
273	ALL	391580	3752275	4.31E-07	1.76YrCanc	4.31E-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
274	ALL	391630	3752275	3.65E-07	1.76YrCanc	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
275	ALL	391680	3752275	3.10E-07	1.76YrCanc	3.10E-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
276	ALL	391730	3752275	2.66E-07	1.76YrCanc	2.66E-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
277	ALL	391780	3752275	2.29E-07	1.76YrCanc	2.29E-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
278	ALL	390780	3752325	1.75E-07	1.76YrCanc	1.75E-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
279	ALL	390830	3752325	1.98E-07	1.76YrCanc	1.98E-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
280	ALL	390880	3752325	2.24E-07	1.76YrCanc	2.24E-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
281	ALL	390930	3752325	2.57E-07	1.76YrCanc	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
282	ALL	390980	3752325	2.95E-07	1.76YrCanc	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
283	ALL	391030	3752325	3.38E-07	1.76YrCanc	3.38E-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
284	ALL	391080	3752325	3.89E-07	1.76YrCanc	3.89E-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
285	ALL	391130	3752325	4.43E-07	1.76YrCanc	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
286	ALL	391180	3752325	4.98E-07	1.76YrCanc	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
287	ALL	391230	3752325	5.46E-07	1.76YrCanc	5.46E-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
288	ALL	391280	3752325	5.80E-07	1.76YrCanc	5.80E-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
289	ALL	391330	3752325	5.89E-07	1.76YrCanc	5.89E-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
290	ALL	391380	3752325	5.72E-07	1.76YrCanc	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
291	ALL	391430	3752325	5.34E-07	1.76YrCanc	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
292	ALL	391480	3752325	4.82E-07	1.76YrCanc	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
293	ALL	391530	3752325	4.26E-07	1.76YrCanc	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
294	ALL	391580	3752325	3.72E-07	1.76YrCanc	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
295	ALL	391630	3752325	3.23E-07	1.76YrCanc	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
296	ALL	391680	3752325	2.81E-07	1.76YrCanc	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
297	ALL	391730	3752325	2.45E-07	1.76YrCanc	2.45E-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
298	ALL	391780	3752325	2.14E-07	1.76YrCanc	2.14E-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
299	ALL	390780	3752375	1.63E-07	1.76YrCanc	1.63E-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
300	ALL	390830	3752375	1.82E-07	1.76YrCanc	1.82E-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
301	ALL	390880	3752375	2.04E-07	1.76YrCanc	2.04E-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
302	ALL	390930	3752375	2.29E-07	1.76YrCanc	2.29E-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

303	ALL	390980	3752375	2.59E-07	1.76YrCanc	2.59E-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
304	ALL	391030	3752375	2.92E-07	1.76YrCanc	2.92E-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
305	ALL	391080	3752375	3.27E-07	1.76YrCanc	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
306	ALL	391130	3752375	3.64E-07	1.76YrCanc	3.64E-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
307	ALL	391180	3752375	3.99E-07	1.76YrCanc	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
308	ALL	391230	3752375	4.30E-07	1.76YrCanc	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
309	ALL	391280	3752375	4.50E-07	1.76YrCanc	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
310	ALL	391330	3752375	4.57E-07	1.76YrCanc	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
311	ALL	391380	3752375	4.48E-07	1.76YrCanc	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
312	ALL	391430	3752375	4.26E-07	1.76YrCanc	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
313	ALL	391480	3752375	3.94E-07	1.76YrCanc	3.94E-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
314	ALL	391530	3752375	3.58E-07	1.76YrCanc	3.58E-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
315	ALL	391580	3752375	3.20E-07	1.76YrCanc	3.20E-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
316	ALL	391630	3752375	2.85E-07	1.76YrCanc	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
317	ALL	391680	3752375	2.52E-07	1.76YrCanc	2.52E-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
318	ALL	391730	3752375	2.24E-07	1.76YrCanc	2.24E-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
319	ALL	391780	3752375	1.99E-07	1.76YrCanc	1.99E-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
320	ALL	390780	3752425	1.51E-07	1.76YrCanc	1.51E-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
321	ALL	390830	3752425	1.67E-07	1.76YrCanc	1.67E-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
322	ALL	390880	3752425	1.85E-07	1.76YrCanc	1.85E-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
323	ALL	390930	3752425	2.05E-07	1.76YrCanc	2.05E-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
324	ALL	390980	3752425	2.28E-07	1.76YrCanc	2.28E-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
325	ALL	391030	3752425	2.53E-07	1.76YrCanc	2.53E-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
326	ALL	391080	3752425	2.78E-07	1.76YrCanc	2.78E-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
327	ALL	391130	3752425	3.04E-07	1.76YrCanc	3.04E-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
328	ALL	391180	3752425	3.28E-07	1.76YrCanc	3.28E-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
329	ALL	391230	3752425	3.48E-07	1.76YrCanc	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
330	ALL	391280	3752425	3.61E-07	1.76YrCanc	3.61E-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
331	ALL	391330	3752425	3.66E-07	1.76YrCanc	3.66E-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
332	ALL	391380	3752425	3.61E-07	1.76YrCanc	3.61E-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
333	ALL	391430	3752425	3.48E-07	1.76YrCanc	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
334	ALL	391480	3752425	3.28E-07	1.76YrCanc	3.28E-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
335	ALL	391530	3752425	3.03E-07	1.76YrCanc	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
336	ALL	391580	3752425	2.77E-07	1.76YrCanc	2.77E-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
337	ALL	391630	3752425	2.51E-07	1.76YrCanc	2.51E-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
338	ALL	391680	3752425	2.26E-07	1.76YrCanc	2.26E-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
339	ALL	391730	3752425	2.03E-07	1.76YrCanc	2.03E-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
340	ALL	391780	3752425	1.83E-07	1.76YrCanc	1.83E-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
341	ALL	390780	3752475	1.40E-07	1.76YrCanc	1.40E-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
342	ALL	390830	3752475	1.53E-07	1.76YrCanc	1.53E-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
343	ALL	390880	3752475	1.68E-07	1.76YrCanc	1.68E-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
344	ALL	390930	3752475	1.83E-07	1.76YrCanc	1.83E-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
345	ALL	390980	3752475	2.01E-07	1.76YrCanc	2.01E-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
346	ALL	391030	3752475	2.20E-07	1.76YrCanc	2.20E-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
347	ALL	391080	3752475	2.39E-07	1.76YrCanc	2.39E-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
348	ALL	391130	3752475	2.58E-07	1.76YrCanc	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
349	ALL	391180	3752475	2.74E-07	1.76YrCanc	2.74E-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
350	ALL	391230	3752475	2.88E-07	1.76YrCanc	2.88E-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
351	ALL	391280	3752475	2.97E-07	1.76YrCanc	2.97E-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
352	ALL	391330	3752475	3.01E-07	1.76YrCanc	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
353	ALL	391380	3752475	2.98E-07	1.76YrCanc	2.98E-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
354	ALL	391430	3752475	2.90E-07	1.76YrCanc	2.90E-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
355	ALL	391480	3752475	2.76E-07	1.76YrCanc	2.76E-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
356	ALL	391530	3752475	2.59E-07	1.76YrCanc	2.59E-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
357	ALL	391580	3752475	2.40E-07	1.76YrCanc	2.40E-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
358	ALL	391630	3752475	2.21E-07	1.76YrCanc	2.21E-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
359	ALL	391680	3752475	2.02E-07	1.76YrCanc	2.02E-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
360	ALL	391730	3752475	1.84E-07	1.76YrCanc	1.84E-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
361	ALL	391780	3752475	1.68E-07	1.76YrCanc	1.68E-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
362	ALL	390780	3752525	1.29E-07	1.76YrCanc	1.29E-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
363	ALL	390830	3752525	1.40E-07	1.76YrCanc	1.40E-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
364	ALL	390880	3752525	1.52E-07	1.76YrCanc	1.52E-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
365	ALL	390930	3752525	1.65E-07	1.76YrCanc	1.65E-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
366	ALL	390980	3752525	1.79E-07	1.76YrCanc	1.79E-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
367	ALL	391030	3752525	1.93E-07	1.76YrCanc	1.93E-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
368	ALL	391080	3752525	2.08E-07	1.76YrCanc	2.08E-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
369	ALL	391130	3752525	2.21E-07	1.76YrCanc	2.21E-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
370	ALL	391180	3752525	2.33E-07	1.76YrCanc	2.33E-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
371	ALL	391230	3752525	2.43E-07	1.76YrCanc	2.43E-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
372	ALL	391280	3752525	2.50E-07	1.76YrCanc	2.50E-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
373	ALL	391330	3752525	2.53E-07	1.76YrCanc	2.53E-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
374	ALL	391380	3752525	2.51E-07	1.76YrCanc	2.51E-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
375	ALL	391430	3752525	2.45E-07	1.76YrCanc	2.45E-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
376	ALL	391480	3752525	2.36E-07	1.76YrCanc	2.36E-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
377	ALL	391530	3752525	2.24E-07	1.76YrCanc	2.24E-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
378	ALL	391580	3752525	2.10E-07	1.76YrCanc	2.10E-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
379	ALL	391630	3752525	1.96E-07	1.76YrCanc	1.96E-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
380	ALL	391680	3752525	1.81E-07	1.76YrCanc	1.81E-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
381	ALL	391730	3752525	1.67E-07	1.76YrCanc	1.67E-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
382	ALL	391780	3752525	1.54E-07	1.76YrCanc	1.54E-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
383	ALL	391075	3751820	6.55E-07	1.76YrCanc	6.55E-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
384	ALL	391085	3751820	6.88E-07	1.76YrCanc	6.88E-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
385	ALL	391095	3751820	7.22E-07	1.76YrCanc	7.22E-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
386	ALL	391105	3751820	7.58E-07	1.76YrCanc	7.58E-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
387	ALL	391115	3751820	7.96E-07	1.76YrCanc	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
388	ALL	391135	3751820	8.79E-07	1.76YrCanc	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
389	ALL	391145	3751820	9.25E-07	1.76YrCanc	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
390	ALL	391155	3751820	9.72E-07	1.76YrCanc	9.72E-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
391	ALL	391165	3751820	1.02E-06	1.76YrCanc	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
392	ALL	391175	3751820	1.07E-06	1.76YrCanc	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
393	ALL	391185	3751820	1.12E-06	1.76YrCanc	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
394	ALL	391195	3751820	1.17E-06	1.76YrCanc	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
395	ALL	391205	3751820	1.23E-06	1.76YrCanc	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
396	ALL	391215	3751820	1.28E-06	1.76YrCanc	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
397	ALL	391225	3751820	1.33E-06	1.76YrCanc	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
398	ALL	391235	3751820	1.38E-06	1.76YrCanc	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
399	ALL	391245	3751820	1.42E-06	1.76YrCanc	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
400	ALL	391255	3751820	1.46E-06	1.76YrCanc	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
401	ALL	391265	3751820	1.49E-06	1.76YrCanc	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
402	ALL	391275	3751820	1.52E-06	1.76YrCanc	1.52E-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
403	ALL	391285	3751820	1.53E-06	1.76YrCanc	1.53E-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

404	ALL	391315	3751820	1.52E-06	1.76YrCanc	1.52E-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
405	ALL	391325	3751820	1.50E-06	1.76YrCanc	1.50E-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
406	ALL	391335	3751820	1.47E-06	1.76YrCanc	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
407	ALL	391345	3751820	1.43E-06	1.76YrCanc	1.43E-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
408	ALL	391355	3751820	1.39E-06	1.76YrCanc	1.39E-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
409	ALL	391365	3751820	1.34E-06	1.76YrCanc	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
410	ALL	391375	3751820	1.29E-06	1.76YrCanc	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
411	ALL	391385	3751820	1.24E-06	1.76YrCanc	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
412	ALL	391395	3751820	1.18E-06	1.76YrCanc	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
413	ALL	391405	3751820	1.13E-06	1.76YrCanc	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
414	ALL	391415	3751820	1.08E-06	1.76YrCanc	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
415	ALL	391425	3751820	1.02E-06	1.76YrCanc	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
416	ALL	391305	3751830	1.71E-06	1.76YrCanc	1.71E-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
417	ALL	391315	3751830	1.70E-06	1.76YrCanc	1.70E-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
418	ALL	391325	3751830	1.67E-06	1.76YrCanc	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
419	ALL	391335	3751830	1.63E-06	1.76YrCanc	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
420	ALL	391345	3751830	1.58E-06	1.76YrCanc	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
421	ALL	391355	3751830	1.53E-06	1.76YrCanc	1.53E-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
422	ALL	391365	3751830	1.47E-06	1.76YrCanc	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
423	ALL	391375	3751830	1.41E-06	1.76YrCanc	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
424	ALL	391385	3751830	1.34E-06	1.76YrCanc	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
425	ALL	391395	3751830	1.28E-06	1.76YrCanc	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
426	ALL	391405	3751830	1.22E-06	1.76YrCanc	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
427	ALL	391415	3751830	1.15E-06	1.76YrCanc	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
428	ALL	391425	3751830	1.09E-06	1.76YrCanc	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
429	ALL	391075	3751840	7.05E-07	1.76YrCanc	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
430	ALL	391085	3751840	7.43E-07	1.76YrCanc	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
431	ALL	391095	3751840	7.84E-07	1.76YrCanc	7.84E-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
432	ALL	391105	3751840	8.28E-07	1.76YrCanc	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
433	ALL	391115	3751840	8.75E-07	1.76YrCanc	8.75E-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
434	ALL	391135	3751840	9.78E-07	1.76YrCanc	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
435	ALL	391145	3751840	1.04E-06	1.76YrCanc	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
436	ALL	391155	3751840	1.10E-06	1.76YrCanc	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
437	ALL	391165	3751840	1.16E-06	1.76YrCanc	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
438	ALL	391175	3751840	1.23E-06	1.76YrCanc	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
439	ALL	391185	3751840	1.30E-06	1.76YrCanc	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
440	ALL	391195	3751840	1.37E-06	1.76YrCanc	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
441	ALL	391205	3751840	1.45E-06	1.76YrCanc	1.45E-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
442	ALL	391215	3751840	1.52E-06	1.76YrCanc	1.52E-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
443	ALL	391225	3751840	1.60E-06	1.76YrCanc	1.60E-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
444	ALL	391235	3751840	1.67E-06	1.76YrCanc	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
445	ALL	391245	3751840	1.74E-06	1.76YrCanc	1.74E-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
446	ALL	391255	3751840	1.80E-06	1.76YrCanc	1.80E-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
447	ALL	391265	3751840	1.86E-06	1.76YrCanc	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
448	ALL	391275	3751840	1.90E-06	1.76YrCanc	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
449	ALL	391305	3751840	1.93E-06	1.76YrCanc	1.93E-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
450	ALL	391315	3751840	1.91E-06	1.76YrCanc	1.91E-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
451	ALL	391325	3751840	1.87E-06	1.76YrCanc	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
452	ALL	391335	3751840	1.82E-06	1.76YrCanc	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
453	ALL	391345	3751840	1.76E-06	1.76YrCanc	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
454	ALL	391355	3751840	1.69E-06	1.76YrCanc	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
455	ALL	391365	3751840	1.62E-06	1.76YrCanc	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
456	ALL	391375	3751840	1.54E-06	1.76YrCanc	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
457	ALL	391385	3751840	1.46E-06	1.76YrCanc	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
458	ALL	391395	3751840	1.39E-06	1.76YrCanc	1.39E-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
459	ALL	391405	3751840	1.31E-06	1.76YrCanc	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
460	ALL	391415	3751840	1.24E-06	1.76YrCanc	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
461	ALL	391425	3751840	1.17E-06	1.76YrCanc	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
462	ALL	391075	3751850	7.31E-07	1.76YrCanc	7.31E-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
463	ALL	391085	3751850	7.72E-07	1.76YrCanc	7.72E-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
464	ALL	391095	3751850	8.17E-07	1.76YrCanc	8.17E-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
465	ALL	391105	3751850	8.65E-07	1.76YrCanc	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
466	ALL	391115	3751850	9.16E-07	1.76YrCanc	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
467	ALL	391135	3751850	1.03E-06	1.76YrCanc	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
468	ALL	391145	3751850	1.10E-06	1.76YrCanc	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
469	ALL	391155	3751850	1.17E-06	1.76YrCanc	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	391165	3751850	1.24E-06	1.76YrCanc	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
471	ALL	391175	3751850	1.32E-06	1.76YrCanc	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
472	ALL	391185	3751850	1.40E-06	1.76YrCanc	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
473	ALL	391195	3751850	1.49E-06	1.76YrCanc	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
474	ALL	391205	3751850	1.58E-06	1.76YrCanc	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
475	ALL	391215	3751850	1.67E-06	1.76YrCanc	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
476	ALL	391225	3751850	1.76E-06	1.76YrCanc	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
477	ALL	391235	3751850	1.86E-06	1.76YrCanc	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
478	ALL	391245	3751850	1.95E-06	1.76YrCanc	1.95E-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
479	ALL	391255	3751850	2.03E-06	1.76YrCanc	2.03E-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
480	ALL	391265	3751850	2.10E-06	1.76YrCanc	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
481	ALL	391275	3751850	2.15E-06	1.76YrCanc	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
482	ALL	391295	3751850	2.20E-06	1.76YrCanc	2.20E-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
483	ALL	391305	3751850	2.19E-06	1.76YrCanc	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
484	ALL	391315	3751850	2.16E-06	1.76YrCanc	2.16E-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
485	ALL	391325	3751850	2.11E-06	1.76YrCanc	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
486	ALL	391335	3751850	2.05E-06	1.76YrCanc	2.05E-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
487	ALL	391345	3751850	1.97E-06	1.76YrCanc	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
488	ALL	391355	3751850	1.88E-06	1.76YrCanc	1.88E-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
489	ALL	391365	3751850	1.79E-06	1.76YrCanc	1.79E-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
490	ALL	391375	3751850	1.70E-06	1.76YrCanc	1.70E-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
491	ALL	391385	3751850	1.60E-06	1.76YrCanc	1.60E-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
492	ALL	391395	3751850	1.51E-06	1.76YrCanc	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
493	ALL	391405	3751850	1.42E-06	1.76YrCanc	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
494	ALL	391415	3751850	1.33E-06	1.76YrCanc	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
495	ALL	391425	3751850	1.25E-06	1.76YrCanc	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
496	ALL	391075	3751860	7.57E-07	1.76YrCanc	7.57E-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
497	ALL	391085	3751860	8.02E-07	1.76YrCanc	8.02E-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
498	ALL	391095	3751860	8.50E-07	1.76YrCanc	8.50E-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
499	ALL	391105	3751860	9.03E-07	1.76YrCanc	9.03E-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
500	ALL	391115	3751860	9.59E-07	1.76YrCanc	9.59E-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
501	ALL	391135	3751860	1.09E-06	1.76YrCanc	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
502	ALL	391145	3751860	1.16E-06	1.76YrCanc	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
503	ALL	391155	3751860	1.24E-06	1.76YrCanc	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
504	ALL	391165	3751860	1.32E-06	1.76YrCanc	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

505	ALL	391175	3751860	1.42E-06	1.76YrCanc	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
506	ALL	391185	3751860	1.51E-06	1.76YrCanc	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
507	ALL	391195	3751860	1.62E-06	1.76YrCanc	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
508	ALL	391205	3751860	1.73E-06	1.76YrCanc	1.73E-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
509	ALL	391215	3751860	1.84E-06	1.76YrCanc	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
510	ALL	391225	3751860	1.96E-06	1.76YrCanc	1.96E-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
511	ALL	391235	3751860	2.07E-06	1.76YrCanc	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
512	ALL	391245	3751860	2.19E-06	1.76YrCanc	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
513	ALL	391255	3751860	2.30E-06	1.76YrCanc	2.30E-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
514	ALL	391265	3751860	2.39E-06	1.76YrCanc	2.39E-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
515	ALL	391275	3751860	2.46E-06	1.76YrCanc	2.46E-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
516	ALL	391295	3751860	2.53E-06	1.76YrCanc	2.53E-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
517	ALL	391305	3751860	2.52E-06	1.76YrCanc	2.52E-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
518	ALL	391315	3751860	2.48E-06	1.76YrCanc	2.48E-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
519	ALL	391325	3751860	2.41E-06	1.76YrCanc	2.41E-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
520	ALL	391335	3751860	2.33E-06	1.76YrCanc	2.33E-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
521	ALL	391345	3751860	2.23E-06	1.76YrCanc	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
522	ALL	391355	3751860	2.11E-06	1.76YrCanc	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
523	ALL	391365	3751860	2.00E-06	1.76YrCanc	2.00E-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
524	ALL	391375	3751860	1.88E-06	1.76YrCanc	1.88E-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
525	ALL	391385	3751860	1.76E-06	1.76YrCanc	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
526	ALL	391395	3751860	1.64E-06	1.76YrCanc	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
527	ALL	391405	3751860	1.54E-06	1.76YrCanc	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
528	ALL	391415	3751860	1.44E-06	1.76YrCanc	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
529	ALL	391425	3751860	1.34E-06	1.76YrCanc	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
530	ALL	391075	3751870	7.82E-07	1.76YrCanc	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
531	ALL	391085	3751870	8.31E-07	1.76YrCanc	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
532	ALL	391095	3751870	8.83E-07	1.76YrCanc	8.83E-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
533	ALL	391105	3751870	9.41E-07	1.76YrCanc	9.41E-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
534	ALL	391115	3751870	1.00E-06	1.76YrCanc	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
535	ALL	391135	3751870	1.14E-06	1.76YrCanc	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
536	ALL	391145	3751870	1.23E-06	1.76YrCanc	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
537	ALL	391155	3751870	1.32E-06	1.76YrCanc	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
538	ALL	391165	3751870	1.41E-06	1.76YrCanc	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
539	ALL	391175	3751870	1.52E-06	1.76YrCanc	1.52E-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
540	ALL	391185	3751870	1.64E-06	1.76YrCanc	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
541	ALL	391195	3751870	1.76E-06	1.76YrCanc	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
542	ALL	391205	3751870	1.89E-06	1.76YrCanc	1.89E-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
543	ALL	391215	3751870	2.03E-06	1.76YrCanc	2.03E-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
544	ALL	391225	3751870	2.18E-06	1.76YrCanc	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
545	ALL	391235	3751870	2.33E-06	1.76YrCanc	2.33E-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
546	ALL	391245	3751870	2.49E-06	1.76YrCanc	2.49E-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
547	ALL	391255	3751870	2.63E-06	1.76YrCanc	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
548	ALL	391265	3751870	2.76E-06	1.76YrCanc	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
549	ALL	391285	3751870	2.93E-06	1.76YrCanc	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
550	ALL	391295	3751870	2.96E-06	1.76YrCanc	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
551	ALL	391305	3751870	2.94E-06	1.76YrCanc	2.94E-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
552	ALL	391315	3751870	2.89E-06	1.76YrCanc	2.89E-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
553	ALL	391325	3751870	2.80E-06	1.76YrCanc	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
554	ALL	391335	3751870	2.68E-06	1.76YrCanc	2.68E-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
555	ALL	391345	3751870	2.54E-06	1.76YrCanc	2.54E-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
556	ALL	391355	3751870	2.39E-06	1.76YrCanc	2.39E-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
557	ALL	391365	3751870	2.24E-06	1.76YrCanc	2.24E-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
558	ALL	391375	3751870	2.08E-06	1.76YrCanc	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
559	ALL	391385	3751870	1.93E-06	1.76YrCanc	1.93E-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
560	ALL	391395	3751870	1.79E-06	1.76YrCanc	1.79E-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
561	ALL	391405	3751870	1.66E-06	1.76YrCanc	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
562	ALL	391415	3751870	1.55E-06	1.76YrCanc	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
563	ALL	391425	3751870	1.44E-06	1.76YrCanc	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
564	ALL	391075	3751880	8.08E-07	1.76YrCanc	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
565	ALL	391085	3751880	8.60E-07	1.76YrCanc	8.60E-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
566	ALL	391095	3751880	9.17E-07	1.76YrCanc	9.17E-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
567	ALL	391105	3751880	9.79E-07	1.76YrCanc	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
568	ALL	391115	3751880	1.05E-06	1.76YrCanc	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
569	ALL	391135	3751880	1.20E-06	1.76YrCanc	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
570	ALL	391145	3751880	1.30E-06	1.76YrCanc	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
571	ALL	391155	3751880	1.40E-06	1.76YrCanc	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
572	ALL	391165	3751880	1.51E-06	1.76YrCanc	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
573	ALL	391175	3751880	1.63E-06	1.76YrCanc	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
574	ALL	391185	3751880	1.77E-06	1.76YrCanc	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
575	ALL	391195	3751880	1.92E-06	1.76YrCanc	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
576	ALL	391205	3751880	2.08E-06	1.76YrCanc	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
577	ALL	391215	3751880	2.25E-06	1.76YrCanc	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
578	ALL	391225	3751880	2.44E-06	1.76YrCanc	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
579	ALL	391235	3751880	2.64E-06	1.76YrCanc	2.64E-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
580	ALL	391245	3751880	2.85E-06	1.76YrCanc	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
581	ALL	391255	3751880	3.05E-06	1.76YrCanc	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
582	ALL	391265	3751880	3.23E-06	1.76YrCanc	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
583	ALL	391285	3751880	3.48E-06	1.76YrCanc	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
584	ALL	391295	3751880	3.52E-06	1.76YrCanc	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
585	ALL	391305	3751880	3.49E-06	1.76YrCanc	3.49E-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
586	ALL	391315	3751880	3.41E-06	1.76YrCanc	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
587	ALL	391325	3751880	3.29E-06	1.76YrCanc	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
588	ALL	391335	3751880	3.12E-06	1.76YrCanc	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
589	ALL	391345	3751880	2.93E-06	1.76YrCanc	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
590	ALL	391355	3751880	2.73E-06	1.76YrCanc	2.73E-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
591	ALL	391365	3751880	2.52E-06	1.76YrCanc	2.52E-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
592	ALL	391375	3751880	2.32E-06	1.76YrCanc	2.32E-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
593	ALL	391385	3751880	2.14E-06	1.76YrCanc	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
594	ALL	391395	3751880	1.97E-06	1.76YrCanc	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
595	ALL	391405	3751880	1.81E-06	1.76YrCanc	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
596	ALL	391415	3751880	1.66E-06	1.76YrCanc	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
597	ALL	391425	3751880	1.54E-06	1.76YrCanc	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
598	ALL	391075	3751890	8.33E-07	1.76YrCanc	8.33E-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
599	ALL	391085	3751890	8.89E-07	1.76YrCanc	8.89E-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
600	ALL	391095	3751890	9.50E-07	1.76YrCanc	9.50E-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
601	ALL	391105	3751890	1.02E-06	1.76YrCanc	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
602	ALL	391115	3751890	1.09E-06	1.76YrCanc	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
603	ALL	391135	3751890	1.27E-06	1.76YrCanc	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
604	ALL	391145	3751890	1.37E-06	1.76YrCanc	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
605	ALL	391155	3751890	1.48E-06	1.76YrCanc	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

606	ALL	391165	3751890	1.61E-06	1.76YrCanc	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
607	ALL	391175	3751890	1.75E-06	1.76YrCanc	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
608	ALL	391185	3751890	1.91E-06	1.76YrCanc	1.91E-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
609	ALL	391195	3751890	2.09E-06	1.76YrCanc	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
610	ALL	391205	3751890	2.28E-06	1.76YrCanc	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
611	ALL	391215	3751890	2.50E-06	1.76YrCanc	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
612	ALL	391225	3751890	2.74E-06	1.76YrCanc	2.74E-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
613	ALL	391235	3751890	3.01E-06	1.76YrCanc	3.01E-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
614	ALL	391245	3751890	3.29E-06	1.76YrCanc	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
615	ALL	391255	3751890	3.58E-06	1.76YrCanc	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
616	ALL	391285	3751890	4.23E-06	1.76YrCanc	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
617	ALL	391295	3751890	4.28E-06	1.76YrCanc	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
618	ALL	391305	3751890	4.25E-06	1.76YrCanc	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
619	ALL	391315	3751890	4.13E-06	1.76YrCanc	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
620	ALL	391325	3751890	3.94E-06	1.76YrCanc	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
621	ALL	391335	3751890	3.70E-06	1.76YrCanc	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
622	ALL	391345	3751890	3.42E-06	1.76YrCanc	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
623	ALL	391355	3751890	3.14E-06	1.76YrCanc	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
624	ALL	391365	3751890	2.86E-06	1.76YrCanc	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
625	ALL	391375	3751890	2.60E-06	1.76YrCanc	2.60E-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
626	ALL	391385	3751890	2.36E-06	1.76YrCanc	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
627	ALL	391395	3751890	2.15E-06	1.76YrCanc	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
628	ALL	391405	3751890	1.96E-06	1.76YrCanc	1.96E-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
629	ALL	391415	3751890	1.79E-06	1.76YrCanc	1.79E-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
630	ALL	391425	3751890	1.64E-06	1.76YrCanc	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
631	ALL	391075	3751900	8.57E-07	1.76YrCanc	8.57E-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
632	ALL	391085	3751900	9.17E-07	1.76YrCanc	9.17E-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
633	ALL	391095	3751900	9.83E-07	1.76YrCanc	9.83E-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
634	ALL	391105	3751900	1.06E-06	1.76YrCanc	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
635	ALL	391115	3751900	1.14E-06	1.76YrCanc	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
636	ALL	391135	3751900	1.33E-06	1.76YrCanc	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
637	ALL	391145	3751900	1.44E-06	1.76YrCanc	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
638	ALL	391155	3751900	1.57E-06	1.76YrCanc	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
639	ALL	391165	3751900	1.72E-06	1.76YrCanc	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
640	ALL	391175	3751900	1.88E-06	1.76YrCanc	1.88E-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
641	ALL	391185	3751900	2.06E-06	1.76YrCanc	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
642	ALL	391195	3751900	2.27E-06	1.76YrCanc	2.27E-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
643	ALL	391205	3751900	2.51E-06	1.76YrCanc	2.51E-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
644	ALL	391215	3751900	2.78E-06	1.76YrCanc	2.78E-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
645	ALL	391225	3751900	3.09E-06	1.76YrCanc	3.09E-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
646	ALL	391235	3751900	3.45E-06	1.76YrCanc	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
647	ALL	391245	3751900	3.84E-06	1.76YrCanc	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
648	ALL	391255	3751900	4.26E-06	1.76YrCanc	4.26E-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
649	ALL	391275	3751900	5.06E-06	1.76YrCanc	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
650	ALL	391285	3751900	5.30E-06	1.76YrCanc	5.30E-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
651	ALL	391295	3751900	5.38E-06	1.76YrCanc	5.38E-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
652	ALL	391305	3751900	5.31E-06	1.76YrCanc	5.31E-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
653	ALL	391315	3751900	5.12E-06	1.76YrCanc	5.12E-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
654	ALL	391325	3751900	4.82E-06	1.76YrCanc	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
655	ALL	391335	3751900	4.46E-06	1.76YrCanc	4.46E-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
656	ALL	391345	3751900	4.06E-06	1.76YrCanc	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
657	ALL	391355	3751900	3.65E-06	1.76YrCanc	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
658	ALL	391365	3751900	3.27E-06	1.76YrCanc	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
659	ALL	391375	3751900	2.92E-06	1.76YrCanc	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
660	ALL	391385	3751900	2.62E-06	1.76YrCanc	2.62E-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
661	ALL	391395	3751900	2.36E-06	1.76YrCanc	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
662	ALL	391405	3751900	2.13E-06	1.76YrCanc	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
663	ALL	391415	3751900	1.93E-06	1.76YrCanc	1.93E-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
664	ALL	391425	3751900	1.75E-06	1.76YrCanc	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
665	ALL	391075	3751910	8.80E-07	1.76YrCanc	8.80E-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
666	ALL	391085	3751910	9.43E-07	1.76YrCanc	9.43E-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
667	ALL	391095	3751910	1.01E-06	1.76YrCanc	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
668	ALL	391105	3751910	1.09E-06	1.76YrCanc	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
669	ALL	391115	3751910	1.18E-06	1.76YrCanc	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
670	ALL	391135	3751910	1.39E-06	1.76YrCanc	1.39E-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
671	ALL	391145	3751910	1.51E-06	1.76YrCanc	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
672	ALL	391155	3751910	1.66E-06	1.76YrCanc	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
673	ALL	391165	3751910	1.82E-06	1.76YrCanc	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
674	ALL	391175	3751910	2.01E-06	1.76YrCanc	2.01E-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
675	ALL	391185	3751910	2.22E-06	1.76YrCanc	2.22E-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
676	ALL	391195	3751910	2.47E-06	1.76YrCanc	2.47E-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
677	ALL	391205	3751910	2.76E-06	1.76YrCanc	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
678	ALL	391215	3751910	3.10E-06	1.76YrCanc	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
679	ALL	391225	3751910	3.49E-06	1.76YrCanc	3.49E-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
680	ALL	391235	3751910	3.96E-06	1.76YrCanc	3.96E-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
681	ALL	391245	3751910	4.52E-06	1.76YrCanc	4.52E-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
682	ALL	391275	3751910	6.57E-06	1.76YrCanc	6.57E-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
683	ALL	391285	3751910	6.97E-06	1.76YrCanc	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
684	ALL	391295	3751910	7.06E-06	1.76YrCanc	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
685	ALL	391305	3751910	6.91E-06	1.76YrCanc	6.91E-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
686	ALL	391315	3751910	6.58E-06	1.76YrCanc	6.58E-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
687	ALL	391325	3751910	6.11E-06	1.76YrCanc	6.11E-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
688	ALL	391335	3751910	5.52E-06	1.76YrCanc	5.52E-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
689	ALL	391345	3751910	4.90E-06	1.76YrCanc	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
690	ALL	391355	3751910	4.29E-06	1.76YrCanc	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
691	ALL	391365	3751910	3.75E-06	1.76YrCanc	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
692	ALL	391375	3751910	3.29E-06	1.76YrCanc	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
693	ALL	391385	3751910	2.90E-06	1.76YrCanc	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
694	ALL	391395	3751910	2.58E-06	1.76YrCanc	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
695	ALL	391405	3751910	2.30E-06	1.76YrCanc	2.30E-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
696	ALL	391415	3751910	2.07E-06	1.76YrCanc	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
697	ALL	391425	3751910	1.87E-06	1.76YrCanc	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
698	ALL	391325	3751920	8.16E-06	1.76YrCanc	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
699	ALL	391335	3751920	7.12E-06	1.76YrCanc	7.12E-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
700	ALL	391345	3751920	6.06E-06	1.76YrCanc	6.06E-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
701	ALL	391355	3751920	5.09E-06	1.76YrCanc	5.09E-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
702	ALL	391365	3751920	4.31E-06	1.76YrCanc	4.31E-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
703	ALL	391375	3751920	3.70E-06	1.76YrCanc	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
704	ALL	391385	3751920	3.21E-06	1.76YrCanc	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
705	ALL	391395	3751920	2.81E-06	1.76YrCanc	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
706	ALL	391405	3751920	2.49E-06	1.76YrCanc	2.49E-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

707	ALL	391415	3751920	2.21E-06	1.76YrCanc	2.21E-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
708	ALL	391425	3751920	1.99E-06	1.76YrCanc	1.99E-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
709	ALL	391075	3751930	9.21E-07	1.76YrCanc	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
710	ALL	391085	3751930	9.91E-07	1.76YrCanc	9.91E-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
711	ALL	391095	3751930	1.07E-06	1.76YrCanc	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
712	ALL	391105	3751930	1.16E-06	1.76YrCanc	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
713	ALL	391115	3751930	1.26E-06	1.76YrCanc	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
714	ALL	391135	3751930	1.50E-06	1.76YrCanc	1.50E-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
715	ALL	391145	3751930	1.65E-06	1.76YrCanc	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
716	ALL	391155	3751930	1.83E-06	1.76YrCanc	1.83E-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
717	ALL	391165	3751930	2.03E-06	1.76YrCanc	2.03E-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
718	ALL	391175	3751930	2.27E-06	1.76YrCanc	2.27E-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
719	ALL	391185	3751930	2.56E-06	1.76YrCanc	2.56E-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
720	ALL	391195	3751930	2.90E-06	1.76YrCanc	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
721	ALL	391205	3751930	3.31E-06	1.76YrCanc	3.31E-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
722	ALL	391215	3751930	3.82E-06	1.76YrCanc	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
723	ALL	391225	3751930	4.45E-06	1.76YrCanc	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
724	ALL	391235	3751930	5.26E-06	1.76YrCanc	5.26E-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
725	ALL	391075	3751940	9.41E-07	1.76YrCanc	9.41E-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
726	ALL	391085	3751940	1.01E-06	1.76YrCanc	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
727	ALL	391095	3751940	1.10E-06	1.76YrCanc	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
728	ALL	391105	3751940	1.19E-06	1.76YrCanc	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
729	ALL	391115	3751940	1.30E-06	1.76YrCanc	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
730	ALL	391135	3751940	1.56E-06	1.76YrCanc	1.56E-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
731	ALL	391145	3751940	1.72E-06	1.76YrCanc	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
732	ALL	391155	3751940	1.91E-06	1.76YrCanc	1.91E-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
733	ALL	391165	3751940	2.14E-06	1.76YrCanc	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
734	ALL	391175	3751940	2.41E-06	1.76YrCanc	2.41E-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
735	ALL	391185	3751940	2.73E-06	1.76YrCanc	2.73E-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
736	ALL	391195	3751940	3.12E-06	1.76YrCanc	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
737	ALL	391205	3751940	3.61E-06	1.76YrCanc	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
738	ALL	391215	3751940	4.22E-06	1.76YrCanc	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
739	ALL	391225	3751940	5.01E-06	1.76YrCanc	5.01E-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
740	ALL	391235	3751940	6.03E-06	1.76YrCanc	6.03E-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
741	ALL	391075	3751950	9.57E-07	1.76YrCanc	9.57E-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
742	ALL	391085	3751950	1.03E-06	1.76YrCanc	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
743	ALL	391095	3751950	1.12E-06	1.76YrCanc	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
744	ALL	391105	3751950	1.22E-06	1.76YrCanc	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
745	ALL	391115	3751950	1.33E-06	1.76YrCanc	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
746	ALL	391135	3751950	1.60E-06	1.76YrCanc	1.60E-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
747	ALL	391145	3751950	1.78E-06	1.76YrCanc	1.78E-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
748	ALL	391155	3751950	1.99E-06	1.76YrCanc	1.99E-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
749	ALL	391165	3751950	2.23E-06	1.76YrCanc	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
750	ALL	391175	3751950	2.53E-06	1.76YrCanc	2.53E-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
751	ALL	391185	3751950	2.89E-06	1.76YrCanc	2.89E-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
752	ALL	391195	3751950	3.34E-06	1.76YrCanc	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
753	ALL	391205	3751950	3.90E-06	1.76YrCanc	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
754	ALL	391215	3751950	4.62E-06	1.76YrCanc	4.62E-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
755	ALL	391225	3751950	5.58E-06	1.76YrCanc	5.58E-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
756	ALL	391235	3751950	6.86E-06	1.76YrCanc	6.86E-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
757	ALL	391075	3751960	9.70E-07	1.76YrCanc	9.70E-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
758	ALL	391085	3751960	1.05E-06	1.76YrCanc	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
759	ALL	391095	3751960	1.14E-06	1.76YrCanc	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
760	ALL	391105	3751960	1.24E-06	1.76YrCanc	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
761	ALL	391115	3751960	1.36E-06	1.76YrCanc	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
762	ALL	391135	3751960	1.64E-06	1.76YrCanc	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
763	ALL	391145	3751960	1.83E-06	1.76YrCanc	1.83E-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
764	ALL	391155	3751960	2.06E-06	1.76YrCanc	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
765	ALL	391165	3751960	2.32E-06	1.76YrCanc	2.32E-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
766	ALL	391175	3751960	2.64E-06	1.76YrCanc	2.64E-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
767	ALL	391185	3751960	3.04E-06	1.76YrCanc	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
768	ALL	391195	3751960	3.54E-06	1.76YrCanc	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
769	ALL	391205	3751960	4.18E-06	1.76YrCanc	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
770	ALL	391215	3751960	5.02E-06	1.76YrCanc	5.02E-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
771	ALL	391225	3751960	6.17E-06	1.76YrCanc	6.17E-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
772	ALL	391075	3751970	9.80E-07	1.76YrCanc	9.80E-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
773	ALL	391085	3751970	1.06E-06	1.76YrCanc	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
774	ALL	391095	3751970	1.15E-06	1.76YrCanc	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
775	ALL	391105	3751970	1.26E-06	1.76YrCanc	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
776	ALL	391115	3751970	1.38E-06	1.76YrCanc	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
777	ALL	391135	3751970	1.68E-06	1.76YrCanc	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
778	ALL	391145	3751970	1.88E-06	1.76YrCanc	1.88E-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
779	ALL	391155	3751970	2.11E-06	1.76YrCanc	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
780	ALL	391165	3751970	2.39E-06	1.76YrCanc	2.39E-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
781	ALL	391175	3751970	2.74E-06	1.76YrCanc	2.74E-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
782	ALL	391185	3751970	3.17E-06	1.76YrCanc	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
783	ALL	391195	3751970	3.73E-06	1.76YrCanc	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
784	ALL	391205	3751970	4.45E-06	1.76YrCanc	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
785	ALL	391215	3751970	5.42E-06	1.76YrCanc	5.42E-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
786	ALL	391225	3751970	6.76E-06	1.76YrCanc	6.76E-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
787	ALL	391075	3751980	9.87E-07	1.76YrCanc	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
788	ALL	391085	3751980	1.07E-06	1.76YrCanc	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
789	ALL	391095	3751980	1.16E-06	1.76YrCanc	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
790	ALL	391105	3751980	1.27E-06	1.76YrCanc	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
791	ALL	391115	3751980	1.39E-06	1.76YrCanc	1.39E-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
792	ALL	391135	3751980	1.70E-06	1.76YrCanc	1.70E-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
793	ALL	391145	3751980	1.91E-06	1.76YrCanc	1.91E-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
794	ALL	391155	3751980	2.15E-06	1.76YrCanc	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
795	ALL	391165	3751980	2.45E-06	1.76YrCanc	2.45E-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
796	ALL	391175	3751980	2.81E-06	1.76YrCanc	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
797	ALL	391185	3751980	3.28E-06	1.76YrCanc	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
798	ALL	391195	3751980	3.88E-06	1.76YrCanc	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
799	ALL	391205	3751980	4.68E-06	1.76YrCanc	4.68E-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
800	ALL	391215	3751980	5.79E-06	1.76YrCanc	5.79E-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
801	ALL	391225	3751980	7.34E-06	1.76YrCanc	7.34E-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
802	ALL	391075	3751990	9.92E-07	1.76YrCanc	9.92E-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
803	ALL	391085	3751990	1.07E-06	1.76YrCanc	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
804	ALL	391095	3751990	1.17E-06	1.76YrCanc	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
805	ALL	391105	3751990	1.28E-06	1.76YrCanc	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
806	ALL	391115	3751990	1.40E-06	1.76YrCanc	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
807	ALL	391135	3751990	1.72E-06	1.76YrCanc	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

808	ALL	391145	3751990	1.93E-06	1.76YrCanc	1.93E-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
809	ALL	391155	3751990	2.18E-06	1.76YrCanc	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
810	ALL	391165	3751990	2.48E-06	1.76YrCanc	2.48E-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
811	ALL	391175	3751990	2.86E-06	1.76YrCanc	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
812	ALL	391185	3751990	3.34E-06	1.76YrCanc	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
813	ALL	391195	3751990	3.98E-06	1.76YrCanc	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
814	ALL	391205	3751990	4.84E-06	1.76YrCanc	4.84E-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
815	ALL	391215	3751990	6.07E-06	1.76YrCanc	6.07E-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
816	ALL	391075	3752000	9.92E-07	1.76YrCanc	9.92E-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
817	ALL	391085	3752000	1.07E-06	1.76YrCanc	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
818	ALL	391095	3752000	1.17E-06	1.76YrCanc	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
819	ALL	391105	3752000	1.28E-06	1.76YrCanc	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
820	ALL	391115	3752000	1.40E-06	1.76YrCanc	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
821	ALL	391135	3752000	1.72E-06	1.76YrCanc	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
822	ALL	391145	3752000	1.93E-06	1.76YrCanc	1.93E-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
823	ALL	391155	3752000	2.18E-06	1.76YrCanc	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
824	ALL	391165	3752000	2.49E-06	1.76YrCanc	2.49E-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
825	ALL	391175	3752000	2.87E-06	1.76YrCanc	2.87E-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
826	ALL	391185	3752000	3.36E-06	1.76YrCanc	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
827	ALL	391195	3752000	4.01E-06	1.76YrCanc	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
828	ALL	391205	3752000	4.91E-06	1.76YrCanc	4.91E-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
829	ALL	391215	3752000	6.21E-06	1.76YrCanc	6.21E-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
830	ALL	391135	3752010	1.71E-06	1.76YrCanc	1.71E-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
831	ALL	391075	3752020	9.84E-07	1.76YrCanc	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
832	ALL	391085	3752020	1.06E-06	1.76YrCanc	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
833	ALL	391095	3752020	1.16E-06	1.76YrCanc	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
834	ALL	391105	3752020	1.26E-06	1.76YrCanc	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
835	ALL	391115	3752020	1.39E-06	1.76YrCanc	1.39E-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
836	ALL	391135	3752020	1.70E-06	1.76YrCanc	1.70E-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
837	ALL	391145	3752020	1.90E-06	1.76YrCanc	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
838	ALL	391155	3752020	2.14E-06	1.76YrCanc	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
839	ALL	391165	3752020	2.44E-06	1.76YrCanc	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
840	ALL	391175	3752020	2.80E-06	1.76YrCanc	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
841	ALL	391185	3752020	3.27E-06	1.76YrCanc	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
842	ALL	391075	3752030	9.76E-07	1.76YrCanc	9.76E-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
843	ALL	391085	3752030	1.06E-06	1.76YrCanc	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
844	ALL	391095	3752030	1.15E-06	1.76YrCanc	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
845	ALL	391105	3752030	1.25E-06	1.76YrCanc	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
846	ALL	391115	3752030	1.37E-06	1.76YrCanc	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
847	ALL	391135	3752030	1.67E-06	1.76YrCanc	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
848	ALL	391145	3752030	1.87E-06	1.76YrCanc	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
849	ALL	391155	3752030	2.10E-06	1.76YrCanc	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
850	ALL	391165	3752030	2.38E-06	1.76YrCanc	2.38E-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
851	ALL	391175	3752030	2.73E-06	1.76YrCanc	2.73E-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
852	ALL	391185	3752030	3.17E-06	1.76YrCanc	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
853	ALL	391075	3752040	9.65E-07	1.76YrCanc	9.65E-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
854	ALL	391085	3752040	1.04E-06	1.76YrCanc	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
855	ALL	391095	3752040	1.13E-06	1.76YrCanc	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
856	ALL	391105	3752040	1.23E-06	1.76YrCanc	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
857	ALL	391115	3752040	1.35E-06	1.76YrCanc	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
858	ALL	391135	3752040	1.64E-06	1.76YrCanc	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
859	ALL	391145	3752040	1.82E-06	1.76YrCanc	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
860	ALL	391155	3752040	2.04E-06	1.76YrCanc	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
861	ALL	391165	3752040	2.31E-06	1.76YrCanc	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
862	ALL	391175	3752040	2.63E-06	1.76YrCanc	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
863	ALL	391185	3752040	3.03E-06	1.76YrCanc	3.03E-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
864	ALL	391075	3752050	9.51E-07	1.76YrCanc	9.51E-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
865	ALL	391085	3752050	1.03E-06	1.76YrCanc	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
866	ALL	391095	3752050	1.11E-06	1.76YrCanc	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
867	ALL	391105	3752050	1.21E-06	1.76YrCanc	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
868	ALL	391115	3752050	1.32E-06	1.76YrCanc	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
869	ALL	391135	3752050	1.59E-06	1.76YrCanc	1.59E-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
870	ALL	391145	3752050	1.77E-06	1.76YrCanc	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
871	ALL	391155	3752050	1.98E-06	1.76YrCanc	1.98E-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
872	ALL	391165	3752050	2.22E-06	1.76YrCanc	2.22E-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
873	ALL	391175	3752050	2.52E-06	1.76YrCanc	2.52E-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
874	ALL	391185	3752050	2.88E-06	1.76YrCanc	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
875	ALL	391135	3752060	1.55E-06	1.76YrCanc	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
876	ALL	391145	3752060	1.71E-06	1.76YrCanc	1.71E-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
877	ALL	391155	3752060	1.90E-06	1.76YrCanc	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
878	ALL	391165	3752060	2.13E-06	1.76YrCanc	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
879	ALL	391175	3752060	2.39E-06	1.76YrCanc	2.39E-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
880	ALL	391185	3752060	2.71E-06	1.76YrCanc	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
881	ALL	391135	3752070	1.49E-06	1.76YrCanc	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
882	ALL	391145	3752070	1.64E-06	1.76YrCanc	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
883	ALL	391155	3752070	1.82E-06	1.76YrCanc	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
884	ALL	391135	3752080	1.43E-06	1.76YrCanc	1.43E-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
885	ALL	391145	3752080	1.57E-06	1.76YrCanc	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
886	ALL	391155	3752080	1.73E-06	1.76YrCanc	1.73E-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
887	ALL	391235	3752120	2.72E-06	1.76YrCanc	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
888	ALL	391245	3752120	2.95E-06	1.76YrCanc	2.95E-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
889	ALL	391255	3752120	3.19E-06	1.76YrCanc	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
890	ALL	391265	3752120	3.42E-06	1.76YrCanc	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
891	ALL	391275	3752120	3.64E-06	1.76YrCanc	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
892	ALL	391285	3752120	3.81E-06	1.76YrCanc	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
893	ALL	391295	3752120	3.92E-06	1.76YrCanc	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
894	ALL	391305	3752120	3.97E-06	1.76YrCanc	3.97E-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
895	ALL	391315	3752120	3.95E-06	1.76YrCanc	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
896	ALL	391325	3752120	3.86E-06	1.76YrCanc	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
897	ALL	391335	3752120	3.70E-06	1.76YrCanc	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
898	ALL	391345	3752120	3.50E-06	1.76YrCanc	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
899	ALL	391355	3752120	3.27E-06	1.76YrCanc	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
900	ALL	391365	3752120	3.03E-06	1.76YrCanc	3.03E-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
901	ALL	391375	3752120	2.79E-06	1.76YrCanc	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
902	ALL	391385	3752120	2.56E-06	1.76YrCanc	2.56E-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
903	ALL	391395	3752120	2.35E-06	1.76YrCanc	2.35E-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
904	ALL	391405	3752120	2.15E-06	1.76YrCanc	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
905	ALL	391415	3752120	1.97E-06	1.76YrCanc	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
906	ALL	391425	3752120	1.81E-06	1.76YrCanc	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
907	ALL	391235	3752130	2.42E-06	1.76YrCanc	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
908	ALL	391245	3752130	2.60E-06	1.76YrCanc	2.60E-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

909	ALL	391255	3752130	2.78E-06	1.76YrCanc	2.78E-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
910	ALL	391265	3752130	2.95E-06	1.76YrCanc	2.95E-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
911	ALL	391275	3752130	3.10E-06	1.76YrCanc	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
912	ALL	391285	3752130	3.23E-06	1.76YrCanc	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
913	ALL	391295	3752130	3.31E-06	1.76YrCanc	3.31E-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
914	ALL	391305	3752130	3.35E-06	1.76YrCanc	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
915	ALL	391315	3752130	3.34E-06	1.76YrCanc	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
916	ALL	391325	3752130	3.28E-06	1.76YrCanc	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
917	ALL	391335	3752130	3.17E-06	1.76YrCanc	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
918	ALL	391345	3752130	3.03E-06	1.76YrCanc	3.03E-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
919	ALL	391355	3752130	2.86E-06	1.76YrCanc	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
920	ALL	391365	3752130	2.69E-06	1.76YrCanc	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
921	ALL	391375	3752130	2.50E-06	1.76YrCanc	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
922	ALL	391385	3752130	2.32E-06	1.76YrCanc	2.32E-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
923	ALL	391395	3752130	2.15E-06	1.76YrCanc	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
924	ALL	391405	3752130	1.99E-06	1.76YrCanc	1.99E-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
925	ALL	391415	3752130	1.84E-06	1.76YrCanc	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
926	ALL	391425	3752130	1.70E-06	1.76YrCanc	1.70E-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
927	ALL	391235	3752140	2.17E-06	1.76YrCanc	2.17E-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
928	ALL	391245	3752140	2.31E-06	1.76YrCanc	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
929	ALL	391255	3752140	2.44E-06	1.76YrCanc	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
930	ALL	391265	3752140	2.57E-06	1.76YrCanc	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
931	ALL	391275	3752140	2.69E-06	1.76YrCanc	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
932	ALL	391285	3752140	2.78E-06	1.76YrCanc	2.78E-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
933	ALL	391295	3752140	2.85E-06	1.76YrCanc	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
934	ALL	391305	3752140	2.88E-06	1.76YrCanc	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
935	ALL	391315	3752140	2.87E-06	1.76YrCanc	2.87E-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
936	ALL	391325	3752140	2.83E-06	1.76YrCanc	2.83E-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
937	ALL	391335	3752140	2.75E-06	1.76YrCanc	2.75E-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
938	ALL	391345	3752140	2.65E-06	1.76YrCanc	2.65E-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
939	ALL	391355	3752140	2.53E-06	1.76YrCanc	2.53E-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
940	ALL	391365	3752140	2.39E-06	1.76YrCanc	2.39E-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
941	ALL	391375	3752140	2.25E-06	1.76YrCanc	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
942	ALL	391385	3752140	2.11E-06	1.76YrCanc	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
943	ALL	391395	3752140	1.97E-06	1.76YrCanc	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
944	ALL	391405	3752140	1.84E-06	1.76YrCanc	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
945	ALL	391415	3752140	1.71E-06	1.76YrCanc	1.71E-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
946	ALL	391425	3752140	1.60E-06	1.76YrCanc	1.60E-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
947	ALL	391235	3752150	1.95E-06	1.76YrCanc	1.95E-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
948	ALL	391245	3752150	2.06E-06	1.76YrCanc	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
949	ALL	391255	3752150	2.17E-06	1.76YrCanc	2.17E-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
950	ALL	391265	3752150	2.27E-06	1.76YrCanc	2.27E-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
951	ALL	391275	3752150	2.36E-06	1.76YrCanc	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
952	ALL	391285	3752150	2.43E-06	1.76YrCanc	2.43E-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
953	ALL	391295	3752150	2.48E-06	1.76YrCanc	2.48E-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
954	ALL	391305	3752150	2.50E-06	1.76YrCanc	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
955	ALL	391315	3752150	2.50E-06	1.76YrCanc	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
956	ALL	391325	3752150	2.47E-06	1.76YrCanc	2.47E-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
957	ALL	391335	3752150	2.41E-06	1.76YrCanc	2.41E-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
958	ALL	391345	3752150	2.34E-06	1.76YrCanc	2.34E-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
959	ALL	391355	3752150	2.25E-06	1.76YrCanc	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
960	ALL	391365	3752150	2.15E-06	1.76YrCanc	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
961	ALL	391375	3752150	2.04E-06	1.76YrCanc	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
962	ALL	391385	3752150	1.92E-06	1.76YrCanc	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
963	ALL	391395	3752150	1.81E-06	1.76YrCanc	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
964	ALL	391405	3752150	1.70E-06	1.76YrCanc	1.70E-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
965	ALL	391415	3752150	1.60E-06	1.76YrCanc	1.60E-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
966	ALL	391425	3752150	1.50E-06	1.76YrCanc	1.50E-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
967	ALL	391235	3752160	1.76E-06	1.76YrCanc	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
968	ALL	391245	3752160	1.85E-06	1.76YrCanc	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
969	ALL	391255	3752160	1.94E-06	1.76YrCanc	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
970	ALL	391265	3752160	2.02E-06	1.76YrCanc	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
971	ALL	391275	3752160	2.09E-06	1.76YrCanc	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
972	ALL	391285	3752160	2.14E-06	1.76YrCanc	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
973	ALL	391295	3752160	2.18E-06	1.76YrCanc	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
974	ALL	391305	3752160	2.20E-06	1.76YrCanc	2.20E-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
975	ALL	391315	3752160	2.20E-06	1.76YrCanc	2.20E-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
976	ALL	391325	3752160	2.18E-06	1.76YrCanc	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
977	ALL	391335	3752160	2.14E-06	1.76YrCanc	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
978	ALL	391345	3752160	2.08E-06	1.76YrCanc	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
979	ALL	391355	3752160	2.01E-06	1.76YrCanc	2.01E-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
980	ALL	391365	3752160	1.93E-06	1.76YrCanc	1.93E-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
981	ALL	391375	3752160	1.85E-06	1.76YrCanc	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
982	ALL	391385	3752160	1.76E-06	1.76YrCanc	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
983	ALL	391395	3752160	1.67E-06	1.76YrCanc	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
984	ALL	391405	3752160	1.57E-06	1.76YrCanc	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
985	ALL	391415	3752160	1.49E-06	1.76YrCanc	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
986	ALL	391425	3752160	1.40E-06	1.76YrCanc	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
987	ALL	391245	3752170	1.68E-06	1.76YrCanc	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
988	ALL	391255	3752170	1.74E-06	1.76YrCanc	1.74E-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
989	ALL	391265	3752170	1.81E-06	1.76YrCanc	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
990	ALL	391275	3752170	1.86E-06	1.76YrCanc	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
991	ALL	391285	3752170	1.91E-06	1.76YrCanc	1.91E-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
992	ALL	391295	3752170	1.94E-06	1.76YrCanc	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
993	ALL	391305	3752170	1.95E-06	1.76YrCanc	1.95E-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
994	ALL	391315	3752170	1.95E-06	1.76YrCanc	1.95E-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
995	ALL	391325	3752170	1.94E-06	1.76YrCanc	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
996	ALL	391335	3752170	1.91E-06	1.76YrCanc	1.91E-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
997	ALL	391345	3752170	1.87E-06	1.76YrCanc	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
998	ALL	391355	3752170	1.81E-06	1.76YrCanc	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
999	ALL	391365	3752170	1.75E-06	1.76YrCanc	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
1000	ALL	391375	3752170	1.68E-06	1.76YrCanc	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
1001	ALL	391385	3752170	1.61E-06	1.76YrCanc	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
1002	ALL	391395	3752170	1.54E-06	1.76YrCanc	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
1003	ALL	391405	3752170	1.46E-06	1.76YrCanc	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
1004	ALL	391415	3752170	1.38E-06	1.76YrCanc	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
1005	ALL	391425	3752170	1.31E-06	1.76YrCanc	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
1006	ALL	391245	3752180	1.52E-06	1.76YrCanc	1.52E-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
1007	ALL	391255	3752180	1.58E-06	1.76YrCanc	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
1008	ALL	391265	3752180	1.63E-06	1.76YrCanc	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
1009	ALL	391275	3752180	1.67E-06	1.76YrCanc	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

1010	ALL	391285	3752180	1.71E-06	1.76YrCanc	1.71E-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
1011	ALL	391295	3752180	1.73E-06	1.76YrCanc	1.73E-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
1012	ALL	391305	3752180	1.75E-06	1.76YrCanc	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
1013	ALL	391315	3752180	1.75E-06	1.76YrCanc	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
1014	ALL	391325	3752180	1.74E-06	1.76YrCanc	1.74E-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
1015	ALL	391335	3752180	1.72E-06	1.76YrCanc	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
1016	ALL	391345	3752180	1.68E-06	1.76YrCanc	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
1017	ALL	391355	3752180	1.64E-06	1.76YrCanc	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
1018	ALL	391365	3752180	1.59E-06	1.76YrCanc	1.59E-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
1019	ALL	391375	3752180	1.54E-06	1.76YrCanc	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
1020	ALL	391385	3752180	1.48E-06	1.76YrCanc	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
1021	ALL	391395	3752180	1.42E-06	1.76YrCanc	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
1022	ALL	391405	3752180	1.35E-06	1.76YrCanc	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
1023	ALL	391415	3752180	1.29E-06	1.76YrCanc	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
1024	ALL	391425	3752180	1.23E-06	1.76YrCanc	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
1025	ALL	391245	3752190	1.39E-06	1.76YrCanc	1.39E-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
1026	ALL	391255	3752190	1.44E-06	1.76YrCanc	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
1027	ALL	391265	3752190	1.48E-06	1.76YrCanc	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
1028	ALL	391275	3752190	1.52E-06	1.76YrCanc	1.52E-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
1029	ALL	391285	3752190	1.54E-06	1.76YrCanc	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
1030	ALL	391295	3752190	1.56E-06	1.76YrCanc	1.56E-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
1031	ALL	391305	3752190	1.57E-06	1.76YrCanc	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
1032	ALL	391315	3752190	1.58E-06	1.76YrCanc	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
1033	ALL	391325	3752190	1.57E-06	1.76YrCanc	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
1034	ALL	391335	3752190	1.55E-06	1.76YrCanc	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
1035	ALL	391345	3752190	1.53E-06	1.76YrCanc	1.53E-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
1036	ALL	391355	3752190	1.50E-06	1.76YrCanc	1.50E-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
1037	ALL	391365	3752190	1.46E-06	1.76YrCanc	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
1038	ALL	391375	3752190	1.41E-06	1.76YrCanc	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
1039	ALL	391385	3752190	1.36E-06	1.76YrCanc	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
1040	ALL	391395	3752190	1.31E-06	1.76YrCanc	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
1041	ALL	391405	3752190	1.26E-06	1.76YrCanc	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
1042	ALL	391415	3752190	1.21E-06	1.76YrCanc	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
1043	ALL	391425	3752190	1.15E-06	1.76YrCanc	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
1044	ALL	391245	3752200	1.28E-06	1.76YrCanc	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
1045	ALL	391255	3752200	1.31E-06	1.76YrCanc	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
1046	ALL	391265	3752200	1.35E-06	1.76YrCanc	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
1047	ALL	391275	3752200	1.38E-06	1.76YrCanc	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
1048	ALL	391285	3752200	1.40E-06	1.76YrCanc	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
1049	ALL	391295	3752200	1.42E-06	1.76YrCanc	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
1050	ALL	391305	3752200	1.43E-06	1.76YrCanc	1.43E-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
1051	ALL	391315	3752200	1.43E-06	1.76YrCanc	1.43E-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
1052	ALL	391325	3752200	1.43E-06	1.76YrCanc	1.43E-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
1053	ALL	391335	3752200	1.41E-06	1.76YrCanc	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
1054	ALL	391345	3752200	1.39E-06	1.76YrCanc	1.39E-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
1055	ALL	391355	3752200	1.37E-06	1.76YrCanc	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
1056	ALL	391365	3752200	1.34E-06	1.76YrCanc	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
1057	ALL	391375	3752200	1.30E-06	1.76YrCanc	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
1058	ALL	391385	3752200	1.26E-06	1.76YrCanc	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
1059	ALL	391395	3752200	1.22E-06	1.76YrCanc	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
1060	ALL	391405	3752200	1.17E-06	1.76YrCanc	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
1061	ALL	391415	3752200	1.13E-06	1.76YrCanc	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
1062	ALL	391425	3752200	1.08E-06	1.76YrCanc	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
1063	ALL	391255	3752210	1.21E-06	1.76YrCanc	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
1064	ALL	391265	3752210	1.24E-06	1.76YrCanc	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
1065	ALL	391275	3752210	1.26E-06	1.76YrCanc	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
1066	ALL	391285	3752210	1.28E-06	1.76YrCanc	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
1067	ALL	391295	3752210	1.29E-06	1.76YrCanc	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
1068	ALL	391305	3752210	1.30E-06	1.76YrCanc	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
1069	ALL	391315	3752210	1.30E-06	1.76YrCanc	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
1070	ALL	391325	3752210	1.30E-06	1.76YrCanc	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
1071	ALL	391335	3752210	1.29E-06	1.76YrCanc	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
1072	ALL	391345	3752210	1.28E-06	1.76YrCanc	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
1073	ALL	391355	3752210	1.26E-06	1.76YrCanc	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
1074	ALL	391365	3752210	1.23E-06	1.76YrCanc	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
1075	ALL	391375	3752210	1.20E-06	1.76YrCanc	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
1076	ALL	391385	3752210	1.17E-06	1.76YrCanc	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
1077	ALL	391395	3752210	1.13E-06	1.76YrCanc	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
1078	ALL	391405	3752210	1.09E-06	1.76YrCanc	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
1079	ALL	391415	3752210	1.05E-06	1.76YrCanc	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
1080	ALL	391425	3752210	1.01E-06	1.76YrCanc	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
1081	ALL	391255	3752220	1.11E-06	1.76YrCanc	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
1082	ALL	391265	3752220	1.14E-06	1.76YrCanc	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
1083	ALL	391275	3752220	1.16E-06	1.76YrCanc	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
1084	ALL	391285	3752220	1.18E-06	1.76YrCanc	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
1085	ALL	391295	3752220	1.19E-06	1.76YrCanc	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
1086	ALL	391305	3752220	1.19E-06	1.76YrCanc	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
1087	ALL	391315	3752220	1.20E-06	1.76YrCanc	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
1088	ALL	391325	3752220	1.19E-06	1.76YrCanc	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
1089	ALL	391335	3752220	1.19E-06	1.76YrCanc	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
1090	ALL	391345	3752220	1.17E-06	1.76YrCanc	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
1091	ALL	391355	3752220	1.16E-06	1.76YrCanc	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
1092	ALL	391365	3752220	1.14E-06	1.76YrCanc	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
1093	ALL	391375	3752220	1.11E-06	1.76YrCanc	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
1094	ALL	391385	3752220	1.08E-06	1.76YrCanc	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
1095	ALL	391395	3752220	1.05E-06	1.76YrCanc	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
1096	ALL	391405	3752220	1.02E-06	1.76YrCanc	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
1097	ALL	391415	3752220	9.88E-07	1.76YrCanc	9.88E-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
1098	ALL	391425	3752220	9.54E-07	1.76YrCanc	9.54E-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
1099	ALL	391255	3752230	1.03E-06	1.76YrCanc	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
1100	ALL	391265	3752230	1.05E-06	1.76YrCanc	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
1101	ALL	391275	3752230	1.07E-06	1.76YrCanc	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
1102	ALL	391285	3752230	1.08E-06	1.76YrCanc	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
1103	ALL	391295	3752230	1.09E-06	1.76YrCanc	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
1104	ALL	391305	3752230	1.10E-06	1.76YrCanc	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
1105	ALL	391315	3752230	1.10E-06	1.76YrCanc	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
1106	ALL	391325	3752230	1.10E-06	1.76YrCanc	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
1107	ALL	391335	3752230	1.09E-06	1.76YrCanc	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
1108	ALL	391345	3752230	1.08E-06	1.76YrCanc	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
1109	ALL	391355	3752230	1.07E-06	1.76YrCanc	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
1110	ALL	391365	3752230	1.05E-06	1.76YrCanc	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

1111	ALL	391375	3752230	1.03E-06	1.76YrCanc	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
1112	ALL	391385	3752230	1.01E-06	1.76YrCanc	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
1113	ALL	391395	3752230	9.83E-07	1.76YrCanc	9.83E-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
1114	ALL	391405	3752230	9.56E-07	1.76YrCanc	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
1115	ALL	391415	3752230	9.27E-07	1.76YrCanc	9.27E-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
1116	ALL	391425	3752230	8.98E-07	1.76YrCanc	8.98E-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

REC	GRP	NETID	X	Y	SCENARIO	CV	CNS	IMMUN	KIDNEY	GILV	REPRO/DE	RESP	SKIN	EYE	BONE/TEE	ENDO	BLOOD	ODOR	GENERAL	MAXHI
1	ALL		390780	3751525	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.28E-05
2	ALL		390830	3751525	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04
3	ALL		390880	3751525	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-04
4	ALL		390930	3751525	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-04
5	ALL		390980	3751525	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-04
6	ALL		391030	3751525	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-04
7	ALL		391080	3751525	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-04
8	ALL		391130	3751525	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-04
9	ALL		391180	3751525	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-04
10	ALL		391230	3751525	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-04
11	ALL		391280	3751525	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-04
12	ALL		391330	3751525	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-04
13	ALL		391380	3751525	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-04
14	ALL		391430	3751525	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-04
15	ALL		391480	3751525	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-04
16	ALL		391530	3751525	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-04
17	ALL		391580	3751525	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-04
18	ALL		391630	3751525	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-04
19	ALL		391680	3751525	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-04
20	ALL		391730	3751525	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-04
21	ALL		391780	3751525	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.67E-05
22	ALL		390780	3751575	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04
23	ALL		390830	3751575	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-04
24	ALL		390880	3751575	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-04
25	ALL		390930	3751575	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-04
26	ALL		390980	3751575	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-04
27	ALL		391030	3751575	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-04
28	ALL		391080	3751575	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-04
29	ALL		391130	3751575	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-04
30	ALL		391180	3751575	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-04
31	ALL		391230	3751575	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-04
32	ALL		391280	3751575	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-04
33	ALL		391330	3751575	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-04
34	ALL		391380	3751575	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-04
35	ALL		391430	3751575	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-04
36	ALL		391480	3751575	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-04
37	ALL		391530	3751575	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-04
38	ALL		391580	3751575	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-04
39	ALL		391630	3751575	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-04
40	ALL		391680	3751575	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-04
41	ALL		391730	3751575	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-04
42	ALL		391780	3751575	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-04
43	ALL		390780	3751625	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-04
44	ALL		390830	3751625	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-04
45	ALL		390880	3751625	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-04
46	ALL		390930	3751625	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-04
47	ALL		390980	3751625	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-04
48	ALL		391030	3751625	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-04
49	ALL		391080	3751625	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-04
50	ALL		391130	3751625	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-04
51	ALL		391180	3751625	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-04
52	ALL		391230	3751625	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-04
53	ALL		391280	3751625	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E-04
54	ALL		391330	3751625	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-04
55	ALL		391380	3751625	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-04
56	ALL		391430	3751625	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-04
57	ALL		391480	3751625	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-04
58	ALL		391530	3751625	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-04
59	ALL		391580	3751625	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-04
60	ALL		391630	3751625	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-04
61	ALL		391680	3751625	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-04
62	ALL		391730	3751625	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-04
63	ALL		391780	3751625	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-04
64	ALL		390780	3751675	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-04
65	ALL		390830	3751675	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-04
66	ALL		390880	3751675	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-04
67	ALL		390930	3751675	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-04
68	ALL		390980	3751675	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-04
69	ALL		391030	3751675	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-04
70	ALL		391080	3751675	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-04
71	ALL		391130	3751675	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-04
72	ALL		391180	3751675	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-04
73	ALL		391230	3751675	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.33E-04
74	ALL		391280	3751675	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.44E-04
75	ALL		391330	3751675	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.41E-04
76	ALL		391380	3751675	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.25E-04
77	ALL		391430	3751675	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.99E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.99E-04
78	ALL		391480	3751675	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-04
79	ALL		391530	3751675	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-04
80	ALL		391580	3751675	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-04
81	ALL		391630	3751675	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-04
82	ALL		391680	3751675	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-04
83	ALL		391730	3751675	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-04
84	ALL		391780	3751675	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-04
85	ALL		390780	3751725	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-04
86	ALL		390830	3751725	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-04
87	ALL		390880	3751725	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-04
88	ALL		390930	3751725	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-04
89	ALL		390980	3751725	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-04
90	ALL		391030	3751725	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-04
91	ALL		391080	3751725	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.05E-04
92	ALL		391130	3751725	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.53E-04
93	ALL		391180	3751725	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.02E-04
94	ALL		391230	3751725	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.42E-04
95	ALL		391280	3751725	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.63E-04
96	ALL		391330	3751725	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.57E-04
97	ALL		391380	3751725	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.27E-04
98	ALL		391430	3751725	NonCancer	0.00E+00	0.

113	ALL	391180	3751775	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.38E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.38E-04
114	ALL	391230	3751775	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.19E-04
115	ALL	391280	3751775	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.65E-04
116	ALL	391330	3751775	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.53E-04
117	ALL	391380	3751775	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.90E-04
118	ALL	391430	3751775	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.02E-04
119	ALL	391580	3751775	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.82E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.82E-04
120	ALL	391630	3751775	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.35E-04
121	ALL	391680	3751775	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-04
122	ALL	391730	3751775	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-04
123	ALL	391780	3751775	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-04
124	ALL	390780	3751825	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-04
125	ALL	390830	3751825	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-04
126	ALL	390880	3751825	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-04
127	ALL	390930	3751825	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.34E-04
128	ALL	390980	3751825	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-04
129	ALL	391030	3751825	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.56E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.56E-04
130	ALL	391080	3751825	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.52E-04
131	ALL	391180	3751825	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.50E-04
132	ALL	391230	3751825	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.36E-04
133	ALL	391280	3751825	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-03
134	ALL	391330	3751825	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-03
135	ALL	391380	3751825	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.70E-04
136	ALL	391580	3751825	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.25E-04
137	ALL	391630	3751825	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-04
138	ALL	391680	3751825	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-04
139	ALL	391730	3751825	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-04
140	ALL	391780	3751825	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-04
141	ALL	390780	3751875	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-04
142	ALL	390830	3751875	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-04
143	ALL	390880	3751875	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-04
144	ALL	390930	3751875	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-04
145	ALL	390980	3751875	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.16E-04
146	ALL	391030	3751875	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.07E-04
147	ALL	391080	3751875	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.42E-04
148	ALL	391180	3751875	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-03
149	ALL	391230	3751875	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-03
150	ALL	391330	3751875	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-03
151	ALL	391380	3751875	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-03
152	ALL	391430	3751875	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.44E-04
153	ALL	391580	3751875	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.69E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.69E-04
154	ALL	391630	3751875	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.90E-04
155	ALL	391680	3751875	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.35E-04
156	ALL	391730	3751875	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-04
157	ALL	391780	3751875	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-04
158	ALL	390780	3751925	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-04
159	ALL	390830	3751925	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-04
160	ALL	390880	3751925	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-04
161	ALL	390930	3751925	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-04
162	ALL	390980	3751925	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.39E-04
163	ALL	391080	3751925	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.24E-04
164	ALL	391380	3751925	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-03
165	ALL	391580	3751925	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.07E-04
166	ALL	391630	3751925	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-04
167	ALL	391680	3751925	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-04
168	ALL	391730	3751925	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-04
169	ALL	391780	3751925	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-04
170	ALL	390780	3751975	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-04
171	ALL	390830	3751975	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-04
172	ALL	390880	3751975	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-04
173	ALL	390930	3751975	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-04
174	ALL	390980	3751975	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.53E-04
175	ALL	391030	3751975	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.74E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.74E-04
176	ALL	391080	3751975	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.76E-04
177	ALL	391180	3751975	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-03
178	ALL	391580	3751975	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.35E-04
179	ALL	391630	3751975	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.28E-04
180	ALL	391680	3751975	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E-04
181	ALL	391730	3751975	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-04
182	ALL	391780	3751975	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-04
183	ALL	390780	3752025	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-04
184	ALL	390830	3752025	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-04
185	ALL	390880	3752025	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-04
186	ALL	390930	3752025	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-04
187	ALL	390980	3752025	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.52E-04
188	ALL	391030	3752025	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.72E-04
189	ALL	391080	3752025	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.74E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.74E-04
190	ALL	391180	3752025	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-03
191	ALL	391530	3752025	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.24E-04
192	ALL	391580	3752025	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.45E-04
193	ALL	391630	3752025	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.35E-04
194	ALL	391680	3752025	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-04
195	ALL	391730	3752025	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-04
196	ALL	391780	3752025	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-04
197	ALL	390780	3752075	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-04
198	ALL	390830	3752075	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-04
199	ALL	390880	3752075	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-04
200	ALL	390930	3752075	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.65E-04
201	ALL	390980	3752075	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.37E-04
202	ALL	391030	3752075	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.46E-04
203	ALL	391580	3752075	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.36E-04
204	ALL	391630	3752075	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.32E-04
205	ALL	391680	3752075	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-04
206	ALL	391730	3752075	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-04
207	ALL	391780	3752075	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-04
208	ALL	390780	3752125	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-04
209	ALL	390830	3752125	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-04
210	ALL	390880	3752125	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-04
211	ALL	390930	3752125	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00

226	ALL	390830	3752175	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-04
227	ALL	390880	3752175	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-04
228	ALL	390930	3752175	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.32E-04
229	ALL	390980	3752175	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-04
230	ALL	391030	3752175	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.53E-04
231	ALL	391280	3752175	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-03
232	ALL	391330	3752175	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-03
233	ALL	391380	3752175	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-03
234	ALL	391430	3752175	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.17E-04
235	ALL	391530	3752175	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.77E-04
236	ALL	391580	3752175	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.72E-04
237	ALL	391630	3752175	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.96E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.96E-04
238	ALL	391680	3752175	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-04
239	ALL	391730	3752175	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-04
240	ALL	391780	3752175	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-04
241	ALL	390780	3752225	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-04
242	ALL	390830	3752225	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-04
243	ALL	390880	3752225	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-04
244	ALL	390930	3752225	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-04
245	ALL	390980	3752225	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-04
246	ALL	391030	3752225	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.05E-04
247	ALL	391280	3752225	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.41E-04
248	ALL	391330	3752225	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.55E-04
249	ALL	391380	3752225	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.99E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.99E-04
250	ALL	391430	3752225	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.01E-04
251	ALL	391530	3752225	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.03E-04
252	ALL	391580	3752225	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.28E-04
253	ALL	391630	3752225	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E-04
254	ALL	391680	3752225	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-04
255	ALL	391730	3752225	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-04
256	ALL	391780	3752225	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-04
257	ALL	390780	3752275	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-04
258	ALL	390830	3752275	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-04
259	ALL	390880	3752275	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-04
260	ALL	390930	3752275	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-04
261	ALL	390980	3752275	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-04
262	ALL	391030	3752275	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-04
263	ALL	391080	3752275	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.08E-04
264	ALL	391130	3752275	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.62E-04
265	ALL	391180	3752275	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.21E-04
266	ALL	391230	3752275	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.77E-04
267	ALL	391280	3752275	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.16E-04
268	ALL	391330	3752275	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.26E-04
269	ALL	391380	3752275	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.01E-04
270	ALL	391430	3752275	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.54E-04
271	ALL	391480	3752275	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.95E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.95E-04
272	ALL	391530	3752275	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.37E-04
273	ALL	391580	3752275	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-04
274	ALL	391630	3752275	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-04
275	ALL	391680	3752275	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-04
276	ALL	391730	3752275	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-04
277	ALL	391780	3752275	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-04
278	ALL	390780	3752325	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-04
279	ALL	390830	3752325	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-04
280	ALL	390880	3752325	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-04
281	ALL	390930	3752325	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-04
282	ALL	390980	3752325	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-04
283	ALL	391030	3752325	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-04
284	ALL	391080	3752325	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-04
285	ALL	391130	3752325	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.93E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.93E-04
286	ALL	391180	3752325	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.29E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.29E-04
287	ALL	391230	3752325	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.61E-04
288	ALL	391280	3752325	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.83E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.83E-04
289	ALL	391330	3752325	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.89E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.89E-04
290	ALL	391380	3752325	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.78E-04
291	ALL	391430	3752325	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.53E-04
292	ALL	391480	3752325	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.18E-04
293	ALL	391530	3752325	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-04
294	ALL	391580	3752325	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-04
295	ALL	391630	3752325	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-04
296	ALL	391680	3752325	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-04
297	ALL	391730	3752325	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-04
298	ALL	391780	3752325	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-04
299	ALL	390780	3752375	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-04
300	ALL	390830	3752375	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-04
301	ALL	390880	3752375	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-04
302	ALL	390930	3752375	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-04
303	ALL	390980	3752375	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-04
304	ALL	391030	3752375	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-04
305	ALL	391080	3752375	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-04
306	ALL	391130	3752375	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-04
307	ALL	391180	3752375	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-04
308	ALL	391230	3752375	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-04
309	ALL	391280	3752375	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.98E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.98E-04
310	ALL	391330	3752375	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.02E-04
311	ALL	391380	3752375	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.96E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.96E-04
312	ALL	391430	3752375	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-04
313	ALL	391480	3752375	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-04
314	ALL	391530	3752375	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-04
315	ALL	391580	3752375	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-04
316	ALL	391630	3752375	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-04
317	ALL	391680	3752375	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-04
318	ALL	391730	3752375	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-04
319	ALL	391780	3752375	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-04
320	ALL	390780	3752425	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.95E-05
321	ALL	390830	3752425	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-04
322	ALL	390880	3752425	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-04
323	ALL	390930	3752425	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-04
324	ALL	390980	3752425	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00

339	ALL	391730	3752425	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-04
340	ALL	391780	3752425	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-04
341	ALL	390780	3752475	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.22E-05
342	ALL	390830	3752475	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04
343	ALL	390880	3752475	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-04
344	ALL	390930	3752475	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-04
345	ALL	390980	3752475	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-04
346	ALL	391030	3752475	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-04
347	ALL	391080	3752475	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-04
348	ALL	391130	3752475	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-04
349	ALL	391180	3752475	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-04
350	ALL	391230	3752475	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-04
351	ALL	391280	3752475	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-04
352	ALL	391330	3752475	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-04
353	ALL	391380	3752475	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-04
354	ALL	391430	3752475	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-04
355	ALL	391480	3752475	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-04
356	ALL	391530	3752475	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-04
357	ALL	391580	3752475	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-04
358	ALL	391630	3752475	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-04
359	ALL	391680	3752475	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-04
360	ALL	391730	3752475	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-04
361	ALL	391780	3752475	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-04
362	ALL	390780	3752525	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.51E-05
363	ALL	390830	3752525	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.26E-05
364	ALL	390880	3752525	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-04
365	ALL	390930	3752525	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-04
366	ALL	390980	3752525	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-04
367	ALL	391030	3752525	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-04
368	ALL	391080	3752525	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-04
369	ALL	391130	3752525	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-04
370	ALL	391180	3752525	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-04
371	ALL	391230	3752525	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-04
372	ALL	391280	3752525	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-04
373	ALL	391330	3752525	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-04
374	ALL	391380	3752525	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-04
375	ALL	391430	3752525	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-04
376	ALL	391480	3752525	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-04
377	ALL	391530	3752525	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-04
378	ALL	391580	3752525	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-04
379	ALL	391630	3752525	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-04
380	ALL	391680	3752525	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-04
381	ALL	391730	3752525	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-04
382	ALL	391780	3752525	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-04
383	ALL	391075	3751820	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.33E-04
384	ALL	391085	3751820	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.54E-04
385	ALL	391095	3751820	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.77E-04
386	ALL	391105	3751820	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.01E-04
387	ALL	391115	3751820	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.26E-04
388	ALL	391135	3751820	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.81E-04
389	ALL	391145	3751820	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.11E-04
390	ALL	391155	3751820	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.42E-04
391	ALL	391165	3751820	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.74E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.74E-04
392	ALL	391175	3751820	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.07E-04
393	ALL	391185	3751820	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.41E-04
394	ALL	391195	3751820	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.76E-04
395	ALL	391205	3751820	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.11E-04
396	ALL	391215	3751820	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.45E-04
397	ALL	391225	3751820	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.78E-04
398	ALL	391235	3751820	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.10E-04
399	ALL	391245	3751820	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.39E-04
400	ALL	391255	3751820	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.64E-04
401	ALL	391265	3751820	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.85E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.85E-04
402	ALL	391275	3751820	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-03
403	ALL	391285	3751820	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-03
404	ALL	391315	3751820	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-03
405	ALL	391325	3751820	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.90E-04
406	ALL	391335	3751820	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.70E-04
407	ALL	391345	3751820	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.45E-04
408	ALL	391355	3751820	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.16E-04
409	ALL	391365	3751820	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.85E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.85E-04
410	ALL	391375	3751820	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.51E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.51E-04
411	ALL	391385	3751820	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.17E-04
412	ALL	391395	3751820	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.82E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.82E-04
413	ALL	391405	3751820	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.47E-04
414	ALL	391415	3751820	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.11E-04
415	ALL	391425	3751820	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.76E-04
416	ALL	391305	3751830	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-03
417	ALL	391315	3751830	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-03
418	ALL	391325	3751830	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-03
419	ALL	391335	3751830	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-03
420	ALL	391345	3751830	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-03
421	ALL	391355	3751830	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-03
422	ALL	391365	3751830	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.70E-04
423	ALL	391375	3751830	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.29E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.29E-04
424	ALL	391385	3751830	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.87E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.87E-04
425	ALL	391395	3751830	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.46E-04
426	ALL	391405	3751830	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.04E-04
427	ALL	391415	3751830	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.63E-04
428	ALL	391425	3751830	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.23E-04
429	ALL	391075	3751840	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.66E-04
430	ALL	391085	3751840	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.91E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.91E-04
431	ALL	391095	3751840	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.18E-04
432	ALL	391105	3751840	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.47E-04
433	ALL	391115	3751840	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.78E-04
434	ALL	391135	3751840	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.46E-04
435	ALL	391145	3751840	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.85E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.85E-04
436	ALL	391155	3751840	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.25E-04
437	ALL	391165	3751840	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00

452	ALL	391335	3751840	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-03
453	ALL	391345	3751840	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-03
454	ALL	391355	3751840	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-03
455	ALL	391365	3751840	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-03
456	ALL	391375	3751840	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-03
457	ALL	391385	3751840	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.67E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.67E-04
458	ALL	391395	3751840	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.17E-04
459	ALL	391405	3751840	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.68E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.68E-04
460	ALL	391415	3751840	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.19E-04
461	ALL	391425	3751840	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.73E-04
462	ALL	391075	3751850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.83E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.83E-04
463	ALL	391085	3751850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.10E-04
464	ALL	391095	3751850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.40E-04
465	ALL	391105	3751850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.72E-04
466	ALL	391115	3751850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.06E-04
467	ALL	391135	3751850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.81E-04
468	ALL	391145	3751850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.25E-04
469	ALL	391155	3751850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.71E-04
470	ALL	391165	3751850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.20E-04
471	ALL	391175	3751850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.72E-04
472	ALL	391185	3751850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.26E-04
473	ALL	391195	3751850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.84E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.84E-04
474	ALL	391205	3751850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-03
475	ALL	391215	3751850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-03
476	ALL	391225	3751850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-03
477	ALL	391235	3751850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-03
478	ALL	391245	3751850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-03
479	ALL	391255	3751850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-03
480	ALL	391265	3751850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-03
481	ALL	391275	3751850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-03
482	ALL	391295	3751850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-03
483	ALL	391305	3751850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-03
484	ALL	391315	3751850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-03
485	ALL	391325	3751850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-03
486	ALL	391335	3751850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-03
487	ALL	391345	3751850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-03
488	ALL	391355	3751850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-03
489	ALL	391365	3751850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-03
490	ALL	391375	3751850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-03
491	ALL	391385	3751850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-03
492	ALL	391395	3751850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.97E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.97E-04
493	ALL	391405	3751850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.38E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.38E-04
494	ALL	391415	3751850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.81E-04
495	ALL	391425	3751850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.27E-04
496	ALL	391075	3751860	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.00E-04
497	ALL	391085	3751860	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.30E-04
498	ALL	391095	3751860	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.62E-04
499	ALL	391105	3751860	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.97E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.97E-04
500	ALL	391115	3751860	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.34E-04
501	ALL	391135	3751860	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.18E-04
502	ALL	391145	3751860	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.67E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.67E-04
503	ALL	391155	3751860	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.19E-04
504	ALL	391165	3751860	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.75E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.75E-04
505	ALL	391175	3751860	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.36E-04
506	ALL	391185	3751860	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-03
507	ALL	391195	3751860	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-03
508	ALL	391205	3751860	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-03
509	ALL	391215	3751860	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-03
510	ALL	391225	3751860	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-03
511	ALL	391235	3751860	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-03
512	ALL	391245	3751860	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-03
513	ALL	391255	3751860	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-03
514	ALL	391265	3751860	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-03
515	ALL	391275	3751860	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-03
516	ALL	391295	3751860	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-03
517	ALL	391305	3751860	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-03
518	ALL	391315	3751860	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-03
519	ALL	391325	3751860	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-03
520	ALL	391335	3751860	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-03
521	ALL	391345	3751860	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-03
522	ALL	391355	3751860	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-03
523	ALL	391365	3751860	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-03
524	ALL	391375	3751860	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-03
525	ALL	391385	3751860	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-03
526	ALL	391395	3751860	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-03
527	ALL	391405	3751860	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-03
528	ALL	391415	3751860	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.48E-04
529	ALL	391425	3751860	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.86E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.86E-04
530	ALL	391075	3751870	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.17E-04
531	ALL	391085	3751870	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.49E-04
532	ALL	391095	3751870	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.84E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.84E-04
533	ALL	391105	3751870	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.22E-04
534	ALL	391115	3751870	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.63E-04
535	ALL	391135	3751870	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.57E-04
536	ALL	391145	3751870	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.12E-04
537	ALL	391155	3751870	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.70E-04
538	ALL	391165	3751870	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.34E-04
539	ALL	391175	3751870	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-03
540	ALL	391185	3751870	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-03
541	ALL	391195	3751870	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-03
542	ALL	391205	3751870	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-03
543	ALL	391215	3751870	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-03
544	ALL	391225	3751870	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-03
545	ALL	391235	3751870	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-03
546	ALL	391245	3751870	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-03
547	ALL	391255	3751870	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-03
548	ALL	391265	3751870	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-03
549	ALL	391285	3751870	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-03
550	ALL	391295	3751870	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00

565	ALL	391085	3751880	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.68E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.68E-04
566	ALL	391095	3751880	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.06E-04
567	ALL	391105	3751880	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.47E-04
568	ALL	391115	3751880	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.92E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.92E-04
569	ALL	391135	3751880	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.96E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.96E-04
570	ALL	391145	3751880	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.57E-04
571	ALL	391155	3751880	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.24E-04
572	ALL	391165	3751880	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.98E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.98E-04
573	ALL	391175	3751880	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-03
574	ALL	391185	3751880	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-03
575	ALL	391195	3751880	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-03
576	ALL	391205	3751880	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-03
577	ALL	391215	3751880	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-03
578	ALL	391225	3751880	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-03
579	ALL	391235	3751880	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-03
580	ALL	391245	3751880	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-03
581	ALL	391255	3751880	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-03
582	ALL	391265	3751880	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-03
583	ALL	391285	3751880	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-03
584	ALL	391295	3751880	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.32E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.32E-03
585	ALL	391305	3751880	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-03
586	ALL	391315	3751880	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-03
587	ALL	391325	3751880	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-03
588	ALL	391335	3751880	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-03
589	ALL	391345	3751880	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-03
590	ALL	391355	3751880	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-03
591	ALL	391365	3751880	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-03
592	ALL	391375	3751880	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-03
593	ALL	391385	3751880	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-03
594	ALL	391395	3751880	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-03
595	ALL	391405	3751880	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-03
596	ALL	391415	3751880	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-03
597	ALL	391425	3751880	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-03
598	ALL	391075	3751890	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.50E-04
599	ALL	391085	3751890	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.87E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.87E-04
600	ALL	391095	3751890	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.28E-04
601	ALL	391105	3751890	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.72E-04
602	ALL	391115	3751890	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.22E-04
603	ALL	391135	3751890	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.36E-04
604	ALL	391145	3751890	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.05E-04
605	ALL	391155	3751890	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.80E-04
606	ALL	391165	3751890	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-03
607	ALL	391175	3751890	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-03
608	ALL	391185	3751890	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-03
609	ALL	391195	3751890	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-03
610	ALL	391205	3751890	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-03
611	ALL	391215	3751890	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-03
612	ALL	391225	3751890	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-03
613	ALL	391235	3751890	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-03
614	ALL	391245	3751890	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-03
615	ALL	391255	3751890	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-03
616	ALL	391285	3751890	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.79E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.79E-03
617	ALL	391295	3751890	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-03
618	ALL	391305	3751890	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-03
619	ALL	391315	3751890	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-03
620	ALL	391325	3751890	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-03
621	ALL	391335	3751890	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-03
622	ALL	391345	3751890	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-03
623	ALL	391355	3751890	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-03
624	ALL	391365	3751890	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-03
625	ALL	391375	3751890	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-03
626	ALL	391385	3751890	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-03
627	ALL	391395	3751890	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-03
628	ALL	391405	3751890	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-03
629	ALL	391415	3751890	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-03
630	ALL	391425	3751890	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-03
631	ALL	391075	3751900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.66E-04
632	ALL	391085	3751900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.06E-04
633	ALL	391095	3751900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.49E-04
634	ALL	391105	3751900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.98E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.98E-04
635	ALL	391115	3751900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.51E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.51E-04
636	ALL	391135	3751900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.76E-04
637	ALL	391145	3751900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.53E-04
638	ALL	391155	3751900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-03
639	ALL	391165	3751900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-03
640	ALL	391175	3751900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-03
641	ALL	391185	3751900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-03
642	ALL	391195	3751900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-03
643	ALL	391205	3751900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-03
644	ALL	391215	3751900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-03
645	ALL	391225	3751900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-03
646	ALL	391235	3751900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-03
647	ALL	391245	3751900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-03
648	ALL	391255	3751900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.82E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.82E-03
649	ALL	391275	3751900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.35E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.35E-03
650	ALL	391285	3751900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.51E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.51E-03
651	ALL	391295	3751900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.56E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.56E-03
652	ALL	391305	3751900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.51E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.51E-03
653	ALL	391315	3751900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.38E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.38E-03
654	ALL	391325	3751900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.19E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.19E-03
655	ALL	391335	3751900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.95E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.95E-03
656	ALL	391345	3751900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E-03
657	ALL	391355	3751900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-03
658	ALL	391365	3751900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-03
659	ALL	391375	3751900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-03
660	ALL	391385	3751900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-03
661	ALL	391395	3751900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-03
662	ALL	391405	3751900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-03
663	ALL	391415	3751900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00

678	ALL	391215	3751910	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-03
679	ALL	391225	3751910	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-03
680	ALL	391235	3751910	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-03
681	ALL	391245	3751910	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.99E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.99E-03
682	ALL	391275	3751910	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.34E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.34E-03
683	ALL	391285	3751910	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.61E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.61E-03
684	ALL	391295	3751910	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.67E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.67E-03
685	ALL	391305	3751910	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.57E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.57E-03
686	ALL	391315	3751910	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.35E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.35E-03
687	ALL	391325	3751910	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.04E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.04E-03
688	ALL	391335	3751910	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.65E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.65E-03
689	ALL	391345	3751910	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.24E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.24E-03
690	ALL	391355	3751910	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-03
691	ALL	391365	3751910	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-03
692	ALL	391375	3751910	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-03
693	ALL	391385	3751910	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-03
694	ALL	391395	3751910	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-03
695	ALL	391405	3751910	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-03
696	ALL	391415	3751910	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-03
697	ALL	391425	3751910	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-03
698	ALL	391325	3751920	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.39E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.39E-03
699	ALL	391335	3751920	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.71E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.71E-03
700	ALL	391345	3751920	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.00E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.00E-03
701	ALL	391355	3751920	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.37E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.37E-03
702	ALL	391365	3751920	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-03
703	ALL	391375	3751920	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-03
704	ALL	391385	3751920	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-03
705	ALL	391395	3751920	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-03
706	ALL	391405	3751920	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-03
707	ALL	391415	3751920	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-03
708	ALL	391425	3751920	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-03
709	ALL	391075	3751930	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.09E-04
710	ALL	391085	3751930	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.55E-04
711	ALL	391095	3751930	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.07E-04
712	ALL	391105	3751930	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.66E-04
713	ALL	391115	3751930	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.32E-04
714	ALL	391135	3751930	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.93E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.93E-04
715	ALL	391145	3751930	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-03
716	ALL	391155	3751930	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-03
717	ALL	391165	3751930	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-03
718	ALL	391175	3751930	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-03
719	ALL	391185	3751930	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-03
720	ALL	391195	3751930	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-03
721	ALL	391205	3751930	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-03
722	ALL	391215	3751930	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-03
723	ALL	391225	3751930	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.94E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.94E-03
724	ALL	391235	3751930	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.47E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.47E-03
725	ALL	391075	3751940	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.22E-04
726	ALL	391085	3751940	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.70E-04
727	ALL	391095	3751940	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.25E-04
728	ALL	391105	3751940	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.87E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.87E-04
729	ALL	391115	3751940	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.56E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.56E-04
730	ALL	391135	3751940	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-03
731	ALL	391145	3751940	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-03
732	ALL	391155	3751940	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-03
733	ALL	391165	3751940	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-03
734	ALL	391175	3751940	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-03
735	ALL	391185	3751940	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-03
736	ALL	391195	3751940	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-03
737	ALL	391205	3751940	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-03
738	ALL	391215	3751940	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.79E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.79E-03
739	ALL	391225	3751940	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.31E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.31E-03
740	ALL	391235	3751940	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.99E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.99E-03
741	ALL	391075	3751950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.32E-04
742	ALL	391085	3751950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.82E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.82E-04
743	ALL	391095	3751950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.39E-04
744	ALL	391105	3751950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.04E-04
745	ALL	391115	3751950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.78E-04
746	ALL	391135	3751950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-03
747	ALL	391145	3751950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-03
748	ALL	391155	3751950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-03
749	ALL	391165	3751950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-03
750	ALL	391175	3751950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-03
751	ALL	391185	3751950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-03
752	ALL	391195	3751950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-03
753	ALL	391205	3751950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.58E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.58E-03
754	ALL	391215	3751950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.06E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.06E-03
755	ALL	391225	3751950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.69E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.69E-03
756	ALL	391235	3751950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.53E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.53E-03
757	ALL	391075	3751960	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.41E-04
758	ALL	391085	3751960	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.93E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.93E-04
759	ALL	391095	3751960	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.52E-04
760	ALL	391105	3751960	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.19E-04
761	ALL	391115	3751960	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.96E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.96E-04
762	ALL	391135	3751960	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-03
763	ALL	391145	3751960	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-03
764	ALL	391155	3751960	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-03
765	ALL	391165	3751960	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-03
766	ALL	391175	3751960	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-03
767	ALL	391185	3751960	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-03
768	ALL	391195	3751960	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.34E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.34E-03
769	ALL	391205	3751960	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-03
770	ALL	391215	3751960	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.32E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.32E-03
771	ALL	391225	3751960	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.08E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.08E-03
772	ALL	391075	3751970	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.48E-04
773	ALL	391085	3751970	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.01E-04
774	ALL	391095	3751970	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.61E-04
775	ALL	391105	3751970	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.31E-04
776	ALL	391115	3751970	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00

791	ALL	391115	3751980	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.20E-04
792	ALL	391135	3751980	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-03
793	ALL	391145	3751980	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-03
794	ALL	391155	3751980	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-03
795	ALL	391165	3751980	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-03
796	ALL	391175	3751980	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-03
797	ALL	391185	3751980	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-03
798	ALL	391195	3751980	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-03
799	ALL	391205	3751980	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.09E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.09E-03
800	ALL	391215	3751980	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.82E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.82E-03
801	ALL	391225	3751980	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.85E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.85E-03
802	ALL	391075	3751990	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.55E-04
803	ALL	391085	3751990	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.10E-04
804	ALL	391095	3751990	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.72E-04
805	ALL	391105	3751990	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.44E-04
806	ALL	391115	3751990	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.26E-04
807	ALL	391135	3751990	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-03
808	ALL	391145	3751990	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-03
809	ALL	391155	3751990	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-03
810	ALL	391165	3751990	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-03
811	ALL	391175	3751990	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-03
812	ALL	391185	3751990	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-03
813	ALL	391195	3751990	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-03
814	ALL	391205	3751990	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.20E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.20E-03
815	ALL	391215	3751990	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.01E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.01E-03
816	ALL	391075	3752000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.55E-04
817	ALL	391085	3752000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.10E-04
818	ALL	391095	3752000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.73E-04
819	ALL	391105	3752000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.45E-04
820	ALL	391115	3752000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.27E-04
821	ALL	391135	3752000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-03
822	ALL	391145	3752000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-03
823	ALL	391155	3752000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-03
824	ALL	391165	3752000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-03
825	ALL	391175	3752000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-03
826	ALL	391185	3752000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-03
827	ALL	391195	3752000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.65E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.65E-03
828	ALL	391205	3752000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.24E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.24E-03
829	ALL	391215	3752000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.11E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.11E-03
830	ALL	391135	3752010	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-03
831	ALL	391075	3752020	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.50E-04
832	ALL	391085	3752020	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.04E-04
833	ALL	391095	3752020	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.65E-04
834	ALL	391105	3752020	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.35E-04
835	ALL	391115	3752020	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.17E-04
836	ALL	391135	3752020	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-03
837	ALL	391145	3752020	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-03
838	ALL	391155	3752020	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-03
839	ALL	391165	3752020	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-03
840	ALL	391175	3752020	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-03
841	ALL	391185	3752020	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-03
842	ALL	391075	3752030	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.45E-04
843	ALL	391085	3752030	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.98E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.98E-04
844	ALL	391095	3752030	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.58E-04
845	ALL	391105	3752030	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.27E-04
846	ALL	391115	3752030	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.06E-04
847	ALL	391135	3752030	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-03
848	ALL	391145	3752030	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-03
849	ALL	391155	3752030	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-03
850	ALL	391165	3752030	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-03
851	ALL	391175	3752030	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-03
852	ALL	391185	3752030	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-03
853	ALL	391075	3752040	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.38E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.38E-04
854	ALL	391085	3752040	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.89E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.89E-04
855	ALL	391095	3752040	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.47E-04
856	ALL	391105	3752040	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.14E-04
857	ALL	391115	3752040	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.90E-04
858	ALL	391135	3752040	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-03
859	ALL	391145	3752040	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-03
860	ALL	391155	3752040	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-03
861	ALL	391165	3752040	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-03
862	ALL	391175	3752040	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-03
863	ALL	391185	3752040	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-03
864	ALL	391075	3752050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.28E-04
865	ALL	391085	3752050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.78E-04
866	ALL	391095	3752050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.35E-04
867	ALL	391105	3752050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.99E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.99E-04
868	ALL	391115	3752050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.71E-04
869	ALL	391135	3752050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-03
870	ALL	391145	3752050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-03
871	ALL	391155	3752050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-03
872	ALL	391165	3752050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-03
873	ALL	391175	3752050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-03
874	ALL	391185	3752050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-03
875	ALL	391135	3752060	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-03
876	ALL	391145	3752060	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-03
877	ALL	391155	3752060	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-03
878	ALL	391165	3752060	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-03
879	ALL	391175	3752060	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-03
880	ALL	391185	3752060	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-03
881	ALL	391135	3752070	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.86E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.86E-04
882	ALL	391145	3752070	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-03
883	ALL	391155	3752070	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-03
884	ALL	391135	3752080	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.48E-04
885	ALL	391145	3752080	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-03
886	ALL	391155	3752080	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-03
887	ALL	391235	3752120	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-03
888	ALL	391245	3752120	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-03
889	ALL	391255	3752120	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00

904	ALL	391405	3752120	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-03
905	ALL	391415	3752120	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-03
906	ALL	391425	3752120	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-03
907	ALL	391235	3752130	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-03
908	ALL	391245	3752130	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-03
909	ALL	391255	3752130	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-03
910	ALL	391265	3752130	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-03
911	ALL	391275	3752130	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-03
912	ALL	391285	3752130	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-03
913	ALL	391295	3752130	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-03
914	ALL	391305	3752130	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-03
915	ALL	391315	3752130	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-03
916	ALL	391325	3752130	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-03
917	ALL	391335	3752130	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-03
918	ALL	391345	3752130	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-03
919	ALL	391355	3752130	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-03
920	ALL	391365	3752130	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-03
921	ALL	391375	3752130	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-03
922	ALL	391385	3752130	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-03
923	ALL	391395	3752130	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-03
924	ALL	391405	3752130	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-03
925	ALL	391415	3752130	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-03
926	ALL	391425	3752130	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-03
927	ALL	391235	3752140	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-03
928	ALL	391245	3752140	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-03
929	ALL	391255	3752140	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-03
930	ALL	391265	3752140	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-03
931	ALL	391275	3752140	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-03
932	ALL	391285	3752140	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-03
933	ALL	391295	3752140	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-03
934	ALL	391305	3752140	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-03
935	ALL	391315	3752140	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-03
936	ALL	391325	3752140	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-03
937	ALL	391335	3752140	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-03
938	ALL	391345	3752140	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-03
939	ALL	391355	3752140	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-03
940	ALL	391365	3752140	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-03
941	ALL	391375	3752140	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-03
942	ALL	391385	3752140	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-03
943	ALL	391395	3752140	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-03
944	ALL	391405	3752140	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-03
945	ALL	391415	3752140	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-03
946	ALL	391425	3752140	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-03
947	ALL	391235	3752150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-03
948	ALL	391245	3752150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-03
949	ALL	391255	3752150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-03
950	ALL	391265	3752150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-03
951	ALL	391275	3752150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-03
952	ALL	391285	3752150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-03
953	ALL	391295	3752150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-03
954	ALL	391305	3752150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-03
955	ALL	391315	3752150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-03
956	ALL	391325	3752150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-03
957	ALL	391335	3752150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-03
958	ALL	391345	3752150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-03
959	ALL	391355	3752150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-03
960	ALL	391365	3752150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-03
961	ALL	391375	3752150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-03
962	ALL	391385	3752150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-03
963	ALL	391395	3752150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-03
964	ALL	391405	3752150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-03
965	ALL	391415	3752150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-03
966	ALL	391425	3752150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.89E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.89E-04
967	ALL	391235	3752160	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-03
968	ALL	391245	3752160	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-03
969	ALL	391255	3752160	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-03
970	ALL	391265	3752160	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-03
971	ALL	391275	3752160	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-03
972	ALL	391285	3752160	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-03
973	ALL	391295	3752160	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-03
974	ALL	391305	3752160	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-03
975	ALL	391315	3752160	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-03
976	ALL	391325	3752160	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-03
977	ALL	391335	3752160	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-03
978	ALL	391345	3752160	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-03
979	ALL	391355	3752160	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-03
980	ALL	391365	3752160	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-03
981	ALL	391375	3752160	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-03
982	ALL	391385	3752160	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-03
983	ALL	391395	3752160	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-03
984	ALL	391405	3752160	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-03
985	ALL	391415	3752160	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.82E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.82E-04
986	ALL	391425	3752160	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.26E-04
987	ALL	391245	3752170	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-03
988	ALL	391255	3752170	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-03
989	ALL	391265	3752170	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-03
990	ALL	391275	3752170	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-03
991	ALL	391285	3752170	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-03
992	ALL	391295	3752170	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-03
993	ALL	391305	3752170	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-03
994	ALL	391315	3752170	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-03
995	ALL	391325	3752170	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-03
996	ALL	391335	3752170	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-03
997	ALL	391345	3752170	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-03
998	ALL	391355	3752170	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-03
999	ALL	391365	3752170	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-03
1000	ALL	391375	3752170	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-03
1001	ALL	391385	3752170	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-03
1002	ALL	391395	3752170	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00

1017	ALL	391355	3752180	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-03
1018	ALL	391365	3752180	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-03
1019	ALL	391375	3752180	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-03
1020	ALL	391385	3752180	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.78E-04
1021	ALL	391395	3752180	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.37E-04
1022	ALL	391405	3752180	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.95E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.95E-04
1023	ALL	391415	3752180	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.53E-04
1024	ALL	391425	3752180	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.12E-04
1025	ALL	391245	3752190	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.19E-04
1026	ALL	391255	3752190	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.50E-04
1027	ALL	391265	3752190	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.77E-04
1028	ALL	391275	3752190	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-03
1029	ALL	391285	3752190	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-03
1030	ALL	391295	3752190	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-03
1031	ALL	391305	3752190	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-03
1032	ALL	391315	3752190	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-03
1033	ALL	391325	3752190	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-03
1034	ALL	391335	3752190	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-03
1035	ALL	391345	3752190	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-03
1036	ALL	391355	3752190	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.88E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.88E-04
1037	ALL	391365	3752190	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.62E-04
1038	ALL	391375	3752190	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.33E-04
1039	ALL	391385	3752190	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.01E-04
1040	ALL	391395	3752190	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.67E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.67E-04
1041	ALL	391405	3752190	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.32E-04
1042	ALL	391415	3752190	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.96E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.96E-04
1043	ALL	391425	3752190	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.61E-04
1044	ALL	391245	3752200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.43E-04
1045	ALL	391255	3752200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.69E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.69E-04
1046	ALL	391265	3752200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.91E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.91E-04
1047	ALL	391275	3752200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.11E-04
1048	ALL	391285	3752200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.27E-04
1049	ALL	391295	3752200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.37E-04
1050	ALL	391305	3752200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.43E-04
1051	ALL	391315	3752200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.45E-04
1052	ALL	391325	3752200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.42E-04
1053	ALL	391335	3752200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.33E-04
1054	ALL	391345	3752200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.21E-04
1055	ALL	391355	3752200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.03E-04
1056	ALL	391365	3752200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.83E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.83E-04
1057	ALL	391375	3752200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.58E-04
1058	ALL	391385	3752200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.32E-04
1059	ALL	391395	3752200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.04E-04
1060	ALL	391405	3752200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.74E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.74E-04
1061	ALL	391415	3752200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.44E-04
1062	ALL	391425	3752200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.14E-04
1063	ALL	391255	3752210	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.98E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.98E-04
1064	ALL	391265	3752210	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.17E-04
1065	ALL	391275	3752210	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.33E-04
1066	ALL	391285	3752210	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.47E-04
1067	ALL	391295	3752210	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.55E-04
1068	ALL	391305	3752210	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.61E-04
1069	ALL	391315	3752210	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.62E-04
1070	ALL	391325	3752210	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.60E-04
1071	ALL	391335	3752210	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.54E-04
1072	ALL	391345	3752210	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.44E-04
1073	ALL	391355	3752210	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.29E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.29E-04
1074	ALL	391365	3752210	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.13E-04
1075	ALL	391375	3752210	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.92E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.92E-04
1076	ALL	391385	3752210	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.71E-04
1077	ALL	391395	3752210	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.47E-04
1078	ALL	391405	3752210	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.22E-04
1079	ALL	391415	3752210	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.97E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.97E-04
1080	ALL	391425	3752210	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.71E-04
1081	ALL	391255	3752220	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.36E-04
1082	ALL	391265	3752220	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.52E-04
1083	ALL	391275	3752220	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.66E-04
1084	ALL	391285	3752220	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.77E-04
1085	ALL	391295	3752220	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.85E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.85E-04
1086	ALL	391305	3752220	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.89E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.89E-04
1087	ALL	391315	3752220	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.91E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.91E-04
1088	ALL	391325	3752220	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.89E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.89E-04
1089	ALL	391335	3752220	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.84E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.84E-04
1090	ALL	391345	3752220	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.76E-04
1091	ALL	391355	3752220	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.64E-04
1092	ALL	391365	3752220	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.50E-04
1093	ALL	391375	3752220	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.34E-04
1094	ALL	391385	3752220	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.16E-04
1095	ALL	391395	3752220	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.96E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.96E-04
1096	ALL	391405	3752220	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.75E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.75E-04
1097	ALL	391415	3752220	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.53E-04
1098	ALL	391425	3752220	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.30E-04
1099	ALL	391255	3752230	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.81E-04
1100	ALL	391265	3752230	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.95E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.95E-04
1101	ALL	391275	3752230	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.07E-04
1102	ALL	391285	3752230	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.16E-04
1103	ALL	391295	3752230	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.23E-04
1104	ALL	391305	3752230	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.27E-04
1105	ALL	391315	3752230	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.28E-04
1106	ALL	391325	3752230	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.27E-04
1107	ALL	391335	3752230	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.23E-04
1108	ALL	391345	3752230	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.16E-04
1109	ALL	391355	3752230	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.07E-04
1110	ALL	391365	3752230	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.95E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.95E-04
1111	ALL	391375	3752230	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.82E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.82E-04
1112	ALL	391385	3752230	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.66E-04
1113	ALL	391395	3752230	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.49E-04
1114	ALL	391405	3752230	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Appendix B
Biological Resources Species Lists

Table B-1. Assessment of Special-Status Plant Species Potentially Occurring in the Study Area

Scientific Name	Common Name	Status (Federal/State/CRPR)	Primary Habitat Associations/ Life Form/ Blooming Period/ Elevation Range (feet)	Potential to Occur*
Aphanisma blitoides	Aphanisma	None/None/1B.2	Coastal bluff scrub, Coastal dunes, Coastal scrub; Gravelly (sometimes), Sandy (sometimes)/annual herb/Feb–June/5–1,000	Not expected to occur. Suitable habitat for the species is not present in the study area.
Arenaria paludicola	marsh sandwort	FE/SE/1B.1	Marshes and swamps; Openings, Sandy/perennial stoloniferous herb/May–Aug/10–560	Not expected to occur. Suitable habitat for the species is not present in the study area.
Astragalus brauntonii	Braunton's milk-vetch	FE/None/1B.1	Chaparral, Coastal scrub, Valley and foothill grassland; recent burns or disturbed areas, usually sandstone with carbonate layers/perennial herb/Jan–Aug/10–2100	Not expected to occur. Suitable habitat for the species is not present in the study area.
Astragalus hornii var. *hornii*	Horn's milk-vetch	None/None/1B.1	Meadows and seeps, Playas; Alkaline, Lake Margins/annual herb/May–Oct/195–2,785	Not expected to occur. Suitable habitat for the species is not present in the study area.
Astragalus tener var. *titi*	coastal dunes milk-vetch	FE/SE/1B.1	Coastal bluff scrub, Coastal dunes, Coastal prairie/annual herb/ Mar–May/5–165	Not expected to occur. Suitable habitat for the species is not present in the study area.
Atriplex coulteri	Coulter's saltbush	None/None/1B.2	Coastal bluff scrub, Coastal dunes, Coastal scrub, Valley and foothill grassland; Alkaline (sometimes), Clay (sometimes)/perennial herb/ Mar–Oct/10–1,505	Not expected to occur. Suitable habitat for the species is not present in the study area.
Atriplex pacifica	south coast saltscale	None/None/1B.2	Coastal bluff scrub, Coastal dunes, Coastal scrub, Playas/annual herb/Mar–Oct/0–460	Not expected to occur. Suitable habitat for the species is not present in the study area.
Atriplex parishii	Parish's brittlescale	None/None/1B.1	Chenopod scrub, Playas, Vernal pools; Alkaline/annual herb/ June–Oct/80–6,230	Not expected to occur. Suitable habitat for the species is not present in the study area.
Atriplex serenana var. *davidsonii*	Davidson's saltscale	None/None/1B.2	Coastal bluff scrub, Coastal scrub; Alkaline/annual herb/Apr–Oct/ 35–655	Not expected to occur. Suitable habitat for the species is not present in the study area.

Table B-1. Assessment of Special-Status Plant Species Potentially Occurring in the Study Area

Scientific Name	Common Name	Status (Federal/State/CRPR)	Primary Habitat Associations/ Life Form/ Blooming Period/ Elevation Range (feet)	Potential to Occur*
Berberis nevinii	Nevin's barberry	FE/SE/1B.1	Chaparral, Cismontane woodland, Coastal scrub, Riparian scrub; Gravelly (sometimes), Sandy (sometimes)/perennial evergreen shrub/(Feb)Mar–June/230–2,705	Not expected to occur. The site is outside of the species' known elevation range. Additionally, this is a conspicuous shrub that would have been detected if present on site.
Calochortus catalinae	Catalina mariposa lily	None/None/4.2	Chaparral, Cismontane woodland, Coastal scrub, Valley and foothill grassland/perennial bulbiferous herb/(Feb)Mar–June/50–2,295	Not expected to occur. Suitable habitat for the species is not present in the study area.
Calochortus plummerae	Plummer's mariposa-lily	None/None/4.2	Chaparral, Cismontane woodland, Coastal scrub, Lower montane coniferous forest, Valley and foothill grassland; Granitic, Rocky/perennial bulbiferous herb/May–July/ 330–5,575	Not expected to occur. The site is outside of the species' known elevation range.
Calochortus weedii var. *intermedius*	intermediate mariposa-lily	None/None/1B.2	Chaparral, Coastal scrub, Valley and foothill grassland; Rocky/perennial bulbiferous herb/May–July/ 345–2,805	Not expected to occur. The site is outside of the species' known elevation range.
Calystegia felix	lucky morning-glory	None/None/1B.1	Meadows and seeps, Riparian scrub/annual rhizomatous herb/Mar–Sep/100–705	Not expected to occur. Suitable habitat for the species is not present in the study area.
Calystegia peirsonii	Peirson's morning-glory	None/None/4.2	Chaparral, Chenopod scrub, Cismontane woodland, Coastal scrub, Lower montane coniferous forest, Valley and foothill grassland/perennial rhizomatous herb/Apr–June/100–4,920	Not expected to occur. Suitable habitat for the species is not present in the study area.

Table B-1. Assessment of Special-Status Plant Species Potentially Occurring in the Study Area

Scientific Name	Common Name	Status (Federal/State/CRPR)	Primary Habitat Associations/ Life Form/ Blooming Period/ Elevation Range (feet)	Potential to Occur*
Camissoniopsis lewisii	Lewis' evening-primrose	None/None/3	Cismontane woodland, Coastal bluff scrub, Coastal dunes, Coastal scrub, Valley and foothill grassland; Clay (sometimes), Sandy (sometimes)/annual herb/ Mar–May(June)/0–985	Not expected to occur. Suitable habitat for the species is not present in the study area.
Centromadia parryi ssp. *australis*	southern tarplant	None/None/1B.1	Marshes and swamps, Valley and foothill grassland, Vernal pools/annual herb/May–Nov/ 0–1,570	Not expected to occur. Suitable habitat for the species is not present in the study area.
Centromadia pungens ssp. *laevis*	smooth tarplant	None/None/1B.1	Chenopod scrub, Meadows and seeps, Playas, Riparian woodland, Valley and foothill grassland; Alkaline/annual herb/Apr–Sep/ 0–2,095	Not expected to occur. Suitable habitat for the species is not present in the study area.
Chloropyron maritimum ssp. *maritimum*	salt marsh bird's-beak	FE/SE/1B.2	Coastal dunes, Marshes and swamps/annual herb (hemiparasitic)/May–Oct(Nov)/ 0–100	Not expected to occur. Suitable habitat for the species is not present in the study area.
Clinopodium mimuloides	monkey-flower savory	None/None/4.2	Chaparral, North Coast coniferous forest; Mesic, Streambanks/perennial herb/ June–Oct/1,000–5,905	Not expected to occur. Suitable habitat for the species is not present in the study area.
Convolvulus simulans	small-flowered morning-glory	None/None/4.2	Chaparral, Coastal scrub, Valley and foothill grassland; Clay, Seeps, Serpentinite/annual herb/ Mar–July/100–2,425	Not expected to occur. Suitable habitat for the species is not present in the study area.
Cuscuta obtusiflora var. *glandulosa*	Peruvian dodder	None/None/2B.2	Marshes and swamps/annual vine (parasitic)/July–Oct/50–920	Not expected to occur. Suitable habitat for the species is not present in the study area.

Table B-1. Assessment of Special-Status Plant Species Potentially Occurring in the Study Area

Scientific Name	Common Name	Status (Federal/State/CRPR)	Primary Habitat Associations/ Life Form/ Blooming Period/ Elevation Range (feet)	Potential to Occur*
Dodecahema leptoceras	slender-horned spineflower	FE/SE/1B.1	Chaparral, Cismontane woodland, Coastal scrub; sandy or gravelly/annual herb/ Apr–June/655–2,490	Not expected to occur. The site is outside of the species' known elevation range.
Dudleya multicaulis	many-stemmed dudleya	None/None/1B.2	Chaparral, Coastal scrub, Valley and foothill grassland; Clay (often)/perennial herb/Apr–July/ 50–2,590	Not expected to occur. Suitable habitat for the species is not present in the study area.
Eryngium aristulatum var. *parishii*	San Diego button-celery	FE/SE/1B.1	Coastal scrub, Valley and foothill grassland, Vernal pools; Mesic/annual/perennial herb/ Apr–June/65–2,030	Not expected to occur. Suitable habitat for the species is not present in the study area.
Erysimum suffrutescens	suffrutescent wallflower	None/None/4.2	Chaparral, Coastal bluff scrub, Coastal dunes, Coastal scrub/perennial herb/ Jan–July(Aug)/0–490	Not expected to occur. Suitable habitat for the species is not present in the study area.
Helianthus nuttallii ssp. *parishii*	Los Angeles sunflower	None/None/1A	Marshes and swamps/perennial rhizomatous herb/Aug–Oct/ 35–5,000	Not expected to occur. Suitable habitat for the species is not present in the study area.
Hordeum intercedens	vernal barley	None/None/3.2	Coastal dunes, Coastal scrub, Valley and foothill grassland, Vernal pools/annual herb/Mar–June/ 15–3,280	Not expected to occur. Suitable habitat for the species is not present in the study area.
Horkelia cuneata var. *puberula*	mesa horkelia	None/None/1B.1	Chaparral, Cismontane woodland, Coastal scrub; Gravelly (sometimes), Sandy (sometimes)/perennial herb/Feb–July (Sep)/230–2,655	Not expected to occur. Suitable habitat for the species is not present in the study area.
Isocoma menziesii var. *decumbens*	decumbent goldenbush	None/None/1B.2	Chaparral, Coastal scrub/perennial shrub/Apr–Nov/35–445	Not expected to occur. Suitable habitat for the species is not present in the study area. Additionally, this is a conspicuous shrub that would have been detected if present on site.

Table B-1. Assessment of Special-Status Plant Species Potentially Occurring in the Study Area

Scientific Name	Common Name	Status (Federal/State/CRPR)	Primary Habitat Associations/ Life Form/ Blooming Period/ Elevation Range (feet)	Potential to Occur*
Juglans californica	Southern California black walnut	None/None/4.2	Chaparral, Cismontane woodland, Coastal scrub, Riparian woodland/perennial deciduous tree/Mar–Aug/165–2,950	Not expected to occur. Suitable habitat for the species is not present in the study area. Additionally, this is a conspicuous tree that would have been detected if present on site.
Juncus acutus ssp. *leopoldii*	southwestern spiny rush	None/None/4.2	Coastal dunes, Marshes and swamps, Meadows and seeps/perennial rhizomatous herb/(Mar)May–June/10–2,950	Not expected to occur. Suitable habitat for the species is not present in the study area.
Lasthenia glabrata ssp. *coulteri*	Coulter's goldfields	None/None/1B.1	Marshes and swamps, Playas, Vernal pools/annual herb/Feb–June/ 5–4,000	Not expected to occur. Suitable habitat for the species is not present in the study area.
Lepidium virginicum var. *robinsonii*	Robinson's pepper-grass	None/None/4.3	Chaparral, Coastal scrub/annual herb/Jan–July/5–2,900	Not expected to occur. Suitable habitat for the species is not present in the study area.
Lycium californicum	California box-thorn	None/None/4.2	Coastal bluff scrub, Coastal scrub/perennial shrub/ Mar–Aug(Dec)/15–490	Not expected to occur. Suitable habitat for the species is not present in the study area. Additionally, this is a conspicuous shrub that would have been detected if present on site.
Nama stenocarpa	mud nama	None/None/2B.2	Marshes and swamps/annual/perennial herb/Jan–July/15–1,640	Not expected to occur. Suitable habitat for the species is not present in the study area.
Nasturtium gambelii	Gambel's water cress	FE/ST/1B.1	Marshes and swamps/perennial rhizomatous herb/Apr–Oct/ 15–1,080	Not expected to occur. Suitable habitat for the species is not present in the study area.
Navarretia fossalis	spreading navarretia	FT/None/1B.1	Chenopod scrub, Marshes and swamps, Playas, Vernal pools/annual herb/Apr–June/ 100–2,145	Not expected to occur. Suitable habitat for the species is not present in the study area.

Table B-1. Assessment of Special-Status Plant Species Potentially Occurring in the Study Area

Scientific Name	Common Name	Status (Federal/State/CRPR)	Primary Habitat Associations/ Life Form/ Blooming Period/ Elevation Range (feet)	Potential to Occur*
Navarretia prostrata	prostrate vernal pool navarretia	None/None/1B.2	Coastal scrub, Meadows and seeps, Valley and foothill grassland, Vernal pools/annual herb/Apr–July/ 10–3,965	Not expected to occur. Suitable habitat for the species is not present in the study area.
Nemacaulis denudata var. *denudata*	coast woolly-heads	None/None/1B.2	Coastal dunes/annual herb/ Apr–Sep/0–330	Not expected to occur. Suitable habitat for the species is not present in the study area.
Orcuttia californica	California Orcutt grass	FE/SE/1B.1	Vernal pools/annual herb/ Apr–Aug/50–2,165	Not expected to occur. Suitable habitat for the species is not present in the study area.
Pentachaeta lyonii	Lyon's pentachaeta	FE/SE/1B.1	Chaparral, Coastal scrub, Valley and foothill grassland/annual herb/(Feb)Mar–Aug/100–2,260	Not expected to occur. Suitable habitat for the species is not present in the study area.
Phacelia hubbyi	Hubby's phacelia	None/None/4.2	Chaparral, Coastal scrub, Valley and foothill grassland/annual herb/ Apr–July/0–3,280	Not expected to occur. Suitable habitat for the species is not present in the study area.
Phacelia stellaris	Brand's star phacelia	None/None/1B.1	Coastal dunes, Coastal scrub/annual herb/Mar–June/5–1,310	Not expected to occur. Suitable habitat for the species is not present in the study area.
Pseudognaphalium leucocephalum	white rabbit-tobacco	None/None/2B.2	Chaparral, Cismontane woodland, Coastal scrub, Riparian woodland; sandy, gravelly benches, dry stream bottoms, canyon bottoms/perennial herb/(July)Aug–Nov (Dec)/0–6,885	Not expected to occur. Suitable habitat for the species is not present in the study area.
Quercus dumosa	Nuttall's scrub oak	None/None/1B.1	Chaparral, Closed-cone coniferous forest, Coastal scrub/perennial evergreen shrub/ Feb–Apr(May–Aug)/50–1,310	Not expected to occur. Suitable habitat for the species is not present in the study area. Additionally, this is a conspicuous shrub that would have been detected if present on site.

Table B-1. Assessment of Special-Status Plant Species Potentially Occurring in the Study Area

Scientific Name	Common Name	Status (Federal/State/CRPR)	Primary Habitat Associations/ Life Form/ Blooming Period/ Elevation Range (feet)	Potential to Occur*
Ribes divaricatum var. *parishii*	Parish's gooseberry	None/None/1A	Riparian woodland/perennial deciduous shrub/Feb–Apr/215–985	Not expected to occur. Suitable habitat for the species is not present in the study area. Additionally, this is a conspicuous shrub that would have been detected if present on site.
Romneya coulteri	Coulter's matilija poppy	None/None/4.2	Chaparral, Coastal scrub/perennial rhizomatous herb/Mar–July (Aug)/65–3,935	Not expected to occur. Suitable habitat for the species is not present in the study area.
Sagittaria sanfordii	Sanford's arrowhead	None/None/1B.2	Marshes and swamps/perennial rhizomatous herb (emergent)/ May–Oct(Nov)/0–2,130	Not expected to occur. Suitable habitat for the species is not present in the study area.
Scutellaria bolanderi ssp. *austromontana*	southern mountains skullcap	None/None/1B.2	Chaparral, Cismontane woodland, Lower montane coniferous forest/perennial rhizomatous herb/June–Aug/1,390–6,560	Not expected to occur. The site is outside of the species' known elevation range.
Sidalcea neomexicana	salt spring checkerbloom	None/None/2B.2	Chaparral, Coastal scrub, Lower montane coniferous forest, Mojavean desert scrub, Playas/perennial herb/ Mar–June/50–5,015	Not expected to occur. Suitable habitat for the species is not present in the study area.
Suaeda esteroa	estuary seablite	None/None/1B.2	Marshes and swamps/perennial herb/(Jan–May)July–Oct/0–15	Not expected to occur. The site is outside of the species' known elevation range.
Suaeda taxifolia	woolly seablite	None/None/4.2	Coastal bluff scrub, Coastal dunes, Marshes and swamps/perennial evergreen shrub/Jan–Dec/0–165	Not expected to occur. Suitable habitat for the species is not present in the study area. Additionally, this is a conspicuous shrub that would have been detected if present on site.

Table B-1. Assessment of Special-Status Plant Species Potentially Occurring in the Study Area

Scientific Name	Common Name	Status (Federal/State/CRPR)	Primary Habitat Associations/ Life Form/ Blooming Period/ Elevation Range (feet)	Potential to Occur*
Symphyotrichum defoliatum	San Bernardino aster	None/None/1B.2	Cismontane woodland, Coastal scrub, Lower montane coniferous forest, Marshes and swamps, Meadows and seeps, Valley and foothill grassland/perennial rhizomatous herb/July–Nov/ 5–6,690	Not expected to occur. Suitable habitat for the species is not present in the study area.
Symphyotrichum greatae	Greata's aster	None/None/1B.3	Broadleafed upland forest, Chaparral, Cismontane woodland, Lower montane coniferous forest, Riparian woodland; mesic/perennial rhizomatous herb/June–Oct/ 980–6,590	Not expected to occur. The site is outside of the species' known elevation range.

* Refers to records within the South Gate U.S. Geological Survey (USGS) 7.5-minute quadrangle and surrounding eight quadrangles (i.e., Los Angeles, Inglewood, Torrance, Hollywood, Long Beach, Redondo Beach, Beverly Hills, Venice).

Status Abbreviations

Federal and State Statuses

FE: Federally listed as endangered
FT: Federally listed as threatened
SE: State listed as endangered
ST: State listed as threatened
SR: State designated as rare

CRPR: California Rare Plant Rank

1A: Plants presumed extirpated in California and either rare or extinct elsewhere
1B: Plants rare, threatened, or endangered in California and elsewhere
2A: Plants presumed extirpated in California but common elsewhere
2B: Plants rare, threatened, or endangered in California but more common elsewhere
3: Review List – Plants about which more information is needed
4: Watch List – Plants of limited distribution
0.1 – Seriously threatened in California (over 80% of occurrences threatened/high degree and immediacy of threat)
0.2 – Moderately threatened in California (20% - 80% of occurrences threatened/moderate degree and immediacy of threat)
0.3 – Not very threatened in California (less than 20% of occurrences threatened/low degree and immediacy of threat)

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Table B-2. Assessment of Special-Status Wildlife Species Potentially Occurring in the Study Area

Scientific Name	Common Name	Status (Federal/State)	Habitat	Potential to Occur*
Invertebrates				
Danaus plexippus pop. 1	monarch	FC/None	Wind-protected tree groves with nectar sources and nearby water sources	Not expected to occur. No monarchs or host plants were observed during the survey and the study area lacks suitable micro-habitat for the species (i.e., suitable roost trees sheltered within a larger grove). No known overwintering roost sites are present in the vicinity of the study area.
Glaucopsyche lygdamus palosverdesensis	Palos Verdes blue butterfly	FE, BCC/None	Cool, fog-shrouded, seaward side of Palos Verdes Hills, Los Angeles County	Not expected to occur. The site is located outside of the known geographic range for this species.
Streptocephalus woottoni	Riverside fairy shrimp	FE/None	Vernal pools, non-vegetated ephemeral pools	Not expected to occur. Suitable habitat for the species is not present in the study area.
Amphibians				
Spea hammondii	western spadefoot	None/SSC	Primarily grassland and vernal pools, but also in ephemeral wetlands that persist at least 3 weeks in chaparral, coastal scrub, valley–foothill woodlands, pastures, and other agriculture	Not expected to occur. Suitable habitat for the species is not present in the study area. One occurrence is located 0.8 miles northwest of the Study Area from 1956. However, it is likely extirpated due to heavy development in the area (CDFW 2023a).
Reptiles				
Anniella stebbinsi	southern California legless lizard	None/SSC	Coastal dunes, stabilized dunes, beaches, dry washes, valley–foothill, chaparral, and scrubs; pine, oak, and riparian woodlands; associated with sparse vegetation and moist sandy or loose, loamy soils	Not expected to occur. The study area is developed and vegetated with areas that are regularly maintained and lack moist sandy or loose, loamy soils and leaf litter associated with burrowing by the species.
Arizona elegans occidentalis	California glossy snake	None/SSC	Arid scrub, rocky washes, grasslands, chaparral, open areas with loose soil	Not expected to occur. Suitable habitat for the species is not present in the study area.
Aspidoscelis tigris stejnegeri	San Diegan tiger whiptail	None/SSC	Hot and dry areas with sparse foliage, including chaparral, woodland, and riparian areas.	Not expected to occur. The study area is too developed and regularly maintained to provide suitable habitat for this species.

Table B-2. Assessment of Special-Status Wildlife Species Potentially Occurring in the Study Area

Scientific Name	Common Name	Status (Federal/State)	Habitat	Potential to Occur*
Chelonia mydas	green sea turtle	FT/None	Shallow waters of lagoons, bays, estuaries, mangroves, eelgrass, and seaweed beds	Not expected to occur. Suitable marine habitat is not present in the study area.
Emys marmorata	western pond turtle	None/SSC	Slow-moving permanent or intermittent streams, ponds, small lakes, and reservoirs with emergent basking sites; adjacent uplands used for nesting and during winter	Not expected to occur. Suitable habitat is not present in the study area.
Phrynosoma blainvillii	Blainville's horned lizard	None/SSC	Open areas of sandy soil in valleys, foothills, and semi-arid mountains including coastal scrub, chaparral, valley–foothill hardwood, conifer, riparian, pine–cypress, juniper, and annual grassland habitats	Not expected to occur. The study area is developed with vegetated with areas that are regularly maintained and lack sandy or loose, loamy soils.
Birds				
Agelaius tricolor (nesting colony)	tricolored blackbird	None/SSC, ST	Nests near freshwater, emergent wetland with cattails or tules, but also in Himalayan blackberrry; forages in grasslands, woodland, and agriculture	Not expected to occur. Suitable habitat for the species is not present in the study area.
Aimophila ruficeps canescens	Southern California rufous-crowned sparrow	None/WL	Nests and forages in open coastal scrub and chaparral with low cover of scattered scrub interspersed with rocky and grassy patches	Not expected to occur. Suitable habitat for the species is not present in the study area.
Athene cunicularia (burrow sites and some wintering sites)	burrowing owl	None/SSC	Nests and forages in grassland, open scrub, and agriculture, particularly with ground squirrel burrows	Not expected to occur. Suitable habitat for the species is not present in the study area. The large open area in the eastern portion of the Study Area is a regularly maintained baseball field with no suitable habitat for this species to occur.
Buteo regalis (wintering)	ferruginous hawk	None/WL	Winters and forages in open, dry country, grasslands, open fields, agriculture	Not expected to occur. Suitable overwintering habitat for the species is not present in the study area.

Table B-2. Assessment of Special-Status Wildlife Species Potentially Occurring in the Study Area

Scientific Name	Common Name	Status (Federal/State)	Habitat	Potential to Occur*
Buteo swainsoni (nesting)	Swainson's hawk	None/ST	Nests in open woodland and savanna, riparian, and in isolated large trees; forages in nearby grasslands and agricultural areas such as wheat and alfalfa fields and pasture	Not expected to nest but may occur as a transient. This species is considered extirpated as a breeder from the Transverse Ranges region and the metropolitan Los Angeles area in general (Allen et al. 2016; CDFW 2023a).
Coccyzus americanus occidentalis (nesting)	western yellow-billed cuckoo	FT/SE	Nests in dense, wide riparian woodlands and forest with well-developed understories	Not expected to occur. Suitable habitat for the species is not present in the study area.
Coturnicops noveboracensis	yellow rail	None/SSC	Nesting requires wet marsh/sedge meadows or coastal marshes with wet soil and shallow, standing water	Not expected to occur. Suitable habitat for the species is not present in the study area.
Empidonax traillii extimus (nesting)	southwestern willow flycatcher	FE/SE	Nests in dense riparian habitats along streams, reservoirs, or wetlands; uses variety of riparian and shrubland habitats during migration	Not expected to occur. Suitable habitat for the species is not present in the study area.
Icteria virens (nesting)	yellow-breasted chat	None/SSC	Nests and forages in dense, relatively wide riparian woodlands and thickets of willows, vine tangles, and dense brush	Not expected to occur. Suitable habitat for the species is not present in the study area.
Passerculus sandwichensis beldingi	Belding's savannah sparrow	None/SE	Nests and forages in coastal saltmarsh dominated by pickleweed (Salicornia spp.)	Not expected to occur. Suitable habitat for the species is not present in the study area.
Pelecanus occidentalis californicus (nesting colonies and communal roosts)	California brown pelican	FPD/FP, SCD	Forages in warm coastal marine and estuarine environments; in California, nests on dry, rocky offshore islands	Not expected to nest or communally roost. Suitable habitat for the species is not present in the study area.

Table B-2. Assessment of Special-Status Wildlife Species Potentially Occurring in the Study Area

Scientific Name	Common Name	Status (Federal/State)	Habitat	Potential to Occur*
Polioptila californica californica	coastal California gnatcatcher	FT/SSC	Nests and forages in various sage scrub communities, often dominated by California sagebrush and buckwheat; generally avoids nesting in areas with a slope of greater than 40%; majority of nesting at less than 1,000 feet above mean sea level	Not expected to occur. Suitable habitat for the species is not present in the study area.
Riparia riparia (nesting)	bank swallow	None/ST	Nests in riparian, lacustrine, and coastal areas with vertical banks, bluffs, and cliffs with sandy soils; open country and water during migration	Not expected to occur. Suitable habitat for the species is not present in the study area.
Sternula antillarum browni (nesting colony)	California least tern	FE/FP, SE	Forages in shallow estuaries and lagoons; nests on sandy beaches or exposed tidal flats	Not expected to occur. Suitable habitat for the species is not present in the study area.
Vireo bellii pusillus (nesting)	least Bell's vireo	FE/SE	Nests and forages in low, dense riparian thickets along water or along dry parts of intermittent streams; forages in riparian and adjacent shrubland late in nesting season	Not expected to occur. Suitable habitat for the species is not present in the study area.
Mammals				
Antrozous pallidus	pallid bat	None/SSC	Grasslands, shrublands, woodlands, forests; most common in open, dry habitats with rocky outcrops for roosting, but also roosts in man-made structures and trees	Not expected to occur. This species is highly intolerant of urban development (Miner and Stokes 2005). Additionally, the study area lacks suitable habitat for maternity colonies.
Dasypterus xanthinus	western yellow bat	None/SSC	Valley–foothill riparian, desert riparian, desert wash, and palm oasis habitats; below 2,000 feet above mean sea level; roosts in riparian and palms	Not expected to occur. Suitable habitat for the species is not present in the study area.
Eumops perotis californicus	western mastiff bat	None/SSC	Chaparral, coastal and desert scrub, coniferous and deciduous forest and woodland; roosts in crevices in rocky canyons and cliffs where the canyon or cliff is vertical or nearly vertical, and tunnels	Not expected to occur. Suitable habitat for the species is not present in the study area.

Table B-2. Assessment of Special-Status Wildlife Species Potentially Occurring in the Study Area

Scientific Name	Common Name	Status (Federal/State)	Habitat	Potential to Occur*
Microtus californicus stephensi	south coast marsh vole	None/SSC	Tidal marshes	Not expected to occur. Suitable habitat for the species is not present in the study area.
Nyctinomops femorosaccus	pocketed free-tailed bat	None/SSC	Pinyon–juniper woodlands, desert scrub, desert succulent shrub, desert riparian, desert wash, alkali desert scrub, Joshua tree, and palm oases; roosts in high cliffs or rock outcrops with drop-offs, caverns, and buildings	Not expected to occur. Suitable habitat for the species is not present in the study area.
Nyctinomops macrotis	big free-tailed bat	None/SSC	Rocky areas; roosts in caves, holes in trees, buildings, and crevices on cliffs and rocky outcrops; forages over water	Not expected to occur. Suitable habitat for the species is not present in the study area.
Perognathus longimembris pacificus	Pacific pocket mouse	FE/SSC	fine-grained sandy substrates in open coastal strand, coastal dunes, and river alluvium	Not expected to occur. Suitable habitat for the species is not present in the study area.
Sorex ornatus salicornicus	southern California saltmarsh shrew	None/SSC	Saltmarsh, saltgrass, dense willow, bulrush	Not expected to occur. Suitable habitat for the species is not present in the study area.
Taxidea taxus	American badger	None/SSC	Dry, open, treeless areas; grasslands, coastal scrub, agriculture, and pastures, especially with friable soils	Not expected to occur. Suitable habitat for the species is not present in the study area.

* Refers to records within the South Gate U.S. Geological Survey (USGS) 7.5-minute quadrangle and eight surrounding quadrangles (i.e., Los Angeles, Inglewood, Torrance, Hollywood, Long Beach, Los Alamitos, Whittier, El Monte)

Status Abbreviations

FE: Federally listed as endangered
FT: Federally listed as threatened
FC: Federal candidate species
BCC: Bird of Conservation Concern (U.S. Fish and Wildlife Service)
SE: State listed as endangered
ST: State listed as threatened
FP: CDFW California Fully Protected Species
SSC: CDFW California Species of Special Concern
WL: CDFW California Watch List Species

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Appendix C
Cultural Resources Records Search Results (Confidential)

Appendix D
Geotechnical Evaluation

Geotechnical Evaluation

Spane Park Stormwater Capture Project

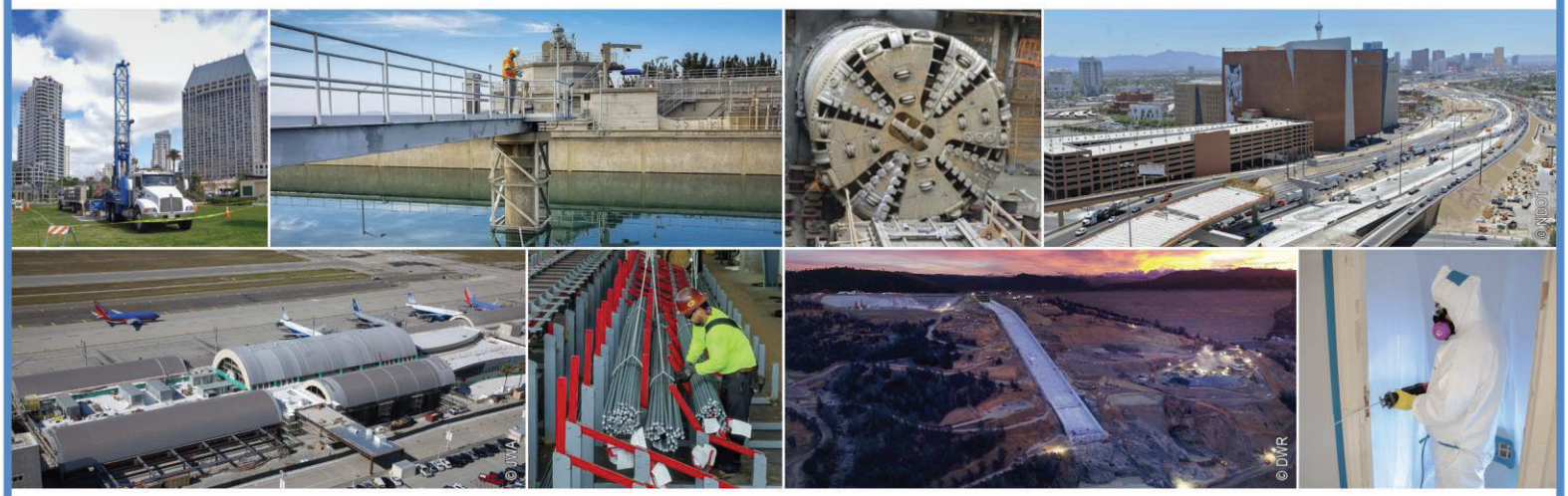
14400 Gundry Avenue

Paramount, California

Craftwater Engineering, Inc.

45 South Arroyo Parkway, B6 | Pasadena, California 91105

May 5, 2022 | Project No. 211892001



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Geotechnical & Environmental Sciences Consultants

CELEBRATING 35 YEARS

Geotechnical Evaluation
Spane Park Stormwater Capture Project
14400 Gundry Avenue
Paramount, California

Ms. Courtney Semlow
Craftwater Engineering, Inc.
45 South Arroyo Parkway, B6 | Pasadena, California 91105

May 5, 2022 | Project No. 211892001

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1 INTRODUCTION

In accordance with your request and authorization, we have performed a geotechnical evaluation for the Spane Park Stormwater Capture Project located at 14400 Gundry Avenue in Paramount, California (Figure 1). We understand that the project will generally consist of the installation of a regional stormwater capture and infiltration facility within Spane Park that will provide improved flood control, water treatment, infiltration of groundwater into the Central Basin aquifer, and recreational opportunities. The purpose of our study was to evaluate the subsurface soil and geologic conditions at the park, including the infiltration rates of the on-site soils, in order to provide geotechnical recommendations for the design and construction of the proposed improvements. Our evaluation was performed in general accordance with our referenced proposal dated February 3, 2022. This report presents our findings, conclusions, and geotechnical recommendations for the project.

2 SCOPE OF SERVICES

Our scope of services included the following:

- Project coordination and planning with subcontractors and personnel from Craftwater Engineering, Inc. and the City of Paramount, and attendance at a project kick-off meeting.
- Review of readily available background materials, including published topographic maps, geologic maps, fault and seismic hazard maps, groundwater data, stereoscopic aerial photographs, project related plans, in-house geotechnical information, and a previous soil infiltration study (feasibility) report prepared for the project by NorCal Engineering (2018).
- Acquisition of a Los Angeles County Environmental Health Department (LACEHD) well permit.
- Field reconnaissance to observe and document the site conditions, mark-out proposed hollow-stem-auger (HSA) boring and cone penetration test (CPT) sounding locations for underground utility clearance by Underground Service Alert.
- Subsurface exploration consisting of the drilling, sampling, and logging of five HSA borings, ranging in depths from approximately 10 feet to 46½ feet, and two CPTs to depths of approximately 60 feet.
- Field percolation testing in three of the HSA borings in general accordance with the 2021 Los Angeles County Public Work's (LACDPW) Guidelines for Geotechnical Investigation and Reporting Low Impact Development Stormwater Infiltration.
- Geotechnical laboratory testing of representative soil samples to evaluate in-situ moisture content and dry density, gradation, percentage of particles finer than the No. 200 sieve, Atterberg limits, consolidation, direct shear strength, R-value, and soil corrosivity.
- Data compilation and engineering analysis of the information obtained from our background review, subsurface evaluation, percolation testing, and laboratory testing.

- Preparation of this geotechnical report presenting our findings, conclusions, and recommendations pertaining to the design and construction of the proposed improvements.

3 SITE DESCRIPTION

Spane Park is situated in a mixed residential, industrial, and commercial neighborhood in the City of Paramount, approximately ½ mile east of Interstate 710 (I-710) and approximately ½ mile south of I-105 (Figure 1). The park consists of an irregular-shaped lot bounded by Rosecrans Avenue on the north, Gundry Avenue and residential properties on the west, Los Cerritos Elementary School on the south, and an industrial property on the east (Figures 1 and 2). The north approximately two-thirds of the park is a relatively flat area ranging from approximately 76 to 78 feet above mean sea level (MSL) that consists of a grass-covered soccer field, basketball court, a recreation center building with an outdoor Portland cement concrete (PCC) amphitheater, a maintenance and restroom building, asphalt concrete (AC) and brick-paved parking lots, a playground area, and PCC sidewalks (Figure 2). The south approximately third of the park consists of a raised mound area with an elevation up to approximately 89 feet MSL. The raised area includes a manufactured pond, meandering stream, walkways, several pedestrian bridge structures, and a perimeter a wrought iron fence. Relatively shallow slopes descend from the raised area to the northern portion of the park. The north and east sides of the park are elevated approximately 4 to 6 feet above a sidewalk along Rosecrans Avenue and the industrial property on the east with concrete masonry unit retaining walls. The Los Angeles River is located approximately 0.3 miles west of the park.

4 PROJECT DESCRIPTION AND PROPOSED CONSTRUCTION

Based on our review of the City of Paramount's Spane Park Infrastructure Program document, we understand that the project generally consists of the installation of regional stormwater capture, infiltration, and treatment facility (Best Management Practice [BMP]) within Spane Park to help the Lower Los Angeles River Watershed Management Program meet total maximum daily load (TMDL) compliance targets for zinc and bacteria. The BMP will allow onsite treatment/infiltration of stormwater collected from a 1,338-acre area within the cities of Paramount, Downey, and South Gate and conveyed in a buried storm drain along Rosecrans Avenue. In addition to treatment of the stormwater, the facility will provide improved flood control and allow replenishment of groundwater into the Central Basin aquifer.

According to the conceptual project plans (Craftwater, 2019), we understand that the BMP will consist of a new underground, pre-cast concrete storage/infiltration structure (gallery) within the northern end of the park that will connect to the existing storm drain within Rosecrans Avenue.

The project will include the installation of a new diversion structure along the existing storm drain and a new underground pipeline between the diversion structure and facility. The new pipeline will have an in-line actuated valve and a hydrodynamic separator. A second pipeline will allow stormwater to return to the storm drain from the facility. This second pipeline will have an in-line filtration unit, pump station, and stormwater harvesting unit. Based on our review of a project plan provided by Dake Landscaping (Dake, 2022) (Figure 3) and email correspondence with Craftwater, the facility will be approximately 163 feet in length, 121 feet in width, and 10 feet in height with an invert depth of approximately 25½ feet below the existing ground surface (i.e., invert elevation of approximately 51½ feet MSL. It is anticipated that the diversion structure, actuated valve, hydrodynamic separator, pump station, and infiltration unit will extend to depths on the order of 10 to 25 feet below existing ground surface. The actual dimensions and depths of the facility and in-line structures may change with the final design. According to Drake (2022), other site improvements will include: reconstruction and expansion of the existing parking lot with new AC pavement; construction of a new grass soccer over the underground gallery, basketball courts, picnic areas, and a restroom building; restoration of the existing pond, walkways, fences, and bridges; and installation of new landscaping, fitness stations, a habitat garden, and interpretive signs.

5 PREVIOUS SITE EVALUATION

As part of our evaluation, we reviewed a soil infiltration study report prepared by NorCal Engineering (NorCal, 2018). Their study was prepared to evaluate the feasibility of the project and included three HSA borings to depths of approximately 10, 25, and 41½ feet, and percolation testing in the two shallower borings. We used these borings and percolation test data to supplement our report. Data from their report is included in our discussions below. The approximate locations of the NorCal borings are shown on Figures 2 and 3. A copy of the report, including their boring logs, is provided in Appendix A.

6 SUBSURFACE EVALUATION AND LABORATORY TESTING

Our subsurface evaluation was conducted on March 16 and 17, 2022, and consisted of the drilling, logging, and sampling of five HSA borings (B-1, B-2, and P-1 through P-3) and two CPT soundings (CPT-1 and CPT-2). The borings were drilled using a truck-mounted drill rig with 8-inch diameter augers. Borings B-1, B-2, P-1, P-2, and P-3 were drilled to proposed depths of approximately 46½, 31½, 26½, 10, and 26½ feet, respectively. The borings were logged in the field by a representative of Ninyo & Moore and representative bulk and relatively undisturbed soil samples were collected from the borings at selected depths for laboratory testing. Percolation testing was performed in borings P-1 through P-3 as further discussed in Section 8 of this report. The CPT

soundings were performed using a 30-ton CPT rig to depths of approximately 60.3 feet. Continuous soil profiles, including cone tip resistance and sleeve friction, were recorded during the soundings. Shear wave measurements were recorded from CPT-2. A representative of Ninyo & Moore was on site to observe the CPT soundings. Logs of the exploratory borings and CPT soundings are provided in Appendices B and C, respectively. The approximate locations of the borings and CPTs are presented on Figures 2 and 3. The borings and CPTs were backfilled with cement-bentonite grout upon completion of the drilling and percolation testing in general accordance with the requirements of LACEHD.

Note that the borings and CPTs were located within the former limits of the proposed BMP facility that were provided in the conceptual project plans (Craftwater, 2019). Subsequent to our exploratory work, the facility limits and location were revised as shown on Figures 2 and 3. It is our opinion that the findings from our exploratory work and percolation testing remain applicable for the current design.

Geotechnical laboratory testing of representative soil samples included tests to evaluate in-situ moisture content and dry density, gradation, percentage of particles finer than the No. 200 sieve consolidation, direct shear strength, R-value, and soil corrosivity. Moisture and density test results are presented on the boring logs in Appendix B. The remaining test results are presented in Appendix D.

Soil cuttings from the borings and CPTs were placed in 55-gallon drums, and composite soil samples of the drummed soil were collected in 8-ounce jars for waste characterization. The samples were stored in a chilled cooler and picked at the site by Advanced Technology Laboratories for analytical testing under chain-of-custody protocol. The samples were tested for total petroleum hydrocarbons (gas and diesel range) per United Stated Environmental Protection Agency (EPA) Test Method 8015B, Title 22 metals per EPA Test Methods 6010B/7470/7471, and volatile organic compounds per EPA Test Method 8260B. Based on the characterization test results, the drums were disposed at an approved landfill (Soil Safe in Adelanto, California) by a licensed transportation subcontractor (Belshire) as non-hazardous material. The test results and a copy of the transportation manifest are provided in Appendix E.

7 GEOLOGIC AND SUBSURFACE CONDITIONS

The project site is located within the Los Angeles Basin of the Peninsular Ranges Geomorphic Province (Norris and Webb, 1990). The basin has been divided into four blocks, the northeastern, northwestern, southwestern, and central blocks that are separated by prominent fault systems. The project site is located within the central block, which is underlain by up to approximately

35,000 feet of Cretaceous to Pleistocene-age marine and non-marine sedimentary rock. The sedimentary rock is overlain by late Pleistocene to Holocene-age alluvial deposits associated with the ancestral Los Angeles and San Gabriel Rivers. According to Saucedo, et al. (2016), the project site is generally underlain by Holocene to late Pleistocene-age young alluvium consisting of poorly consolidated, poorly sorted, permeable floodplain deposits consisting of soft clay and silt, and loose to moderately dense sand and silty sand (Figure 4). The California Department of Mines and Geology (CDMG, 1998) has also mapped the site as being underlain by young alluvium deposits consisting of loose to medium dense, very coarse- to very fine-grained sand, gravel, and silt that interfinger and grade laterally to each other. Based on our site reconnaissance, review of historic topographic maps, and borings described below, the raised area at the southern approximate third of the site was interpreted to be a mound of fill placed during original park construction.

Materials encountered during our subsurface exploration generally consisted of undocumented fill underlain by young alluvium. Undocumented fill was encountered in our borings B-1, P-1, P-2, and P-3 performed in the northern portions of the park (i.e., area of lower ground elevation) to depths ranging from approximately 4 to 5 feet. Undocumented fill was encountered in boring B-2 in the southern portion of the park (i.e., area of raised ground) to a depth of approximately 9 feet. The undocumented fill generally consisted of light brown and olive brown, moist, loose to medium dense, silty sand with variable amounts of gravel and silt with variable amounts of sand. Trace amounts of debris consisting of pieces of brick, AC, and PCC were observed in the undocumented fill. Similar undocumented fill was encountered in the previous borings by NorCal (2018) to depths ranging from approximately 2 to 2.5 feet. Documentation regarding the limits of fill or the placement and compaction of the fill soils was not available for our review. Young alluvium was encountered beneath the undocumented fill to the total depth explored of up to approximately 60.3 feet. The young alluvium generally consisted of interbedded deposits of brown, dark olive brown, olive brown, olive, grayish brown, dark gray, and light gray, moist, loose to dense, poorly graded sand with silt, silty sand, and silt with variable amounts of sand; and gray, moist, very stiff, lean clay. Similar alluvial deposits were encountered beneath the fill in the previous borings by NorCal (2018). More detailed descriptions of the subsurface materials encountered during our subsurface exploration are presented on the boring logs and CPT soundings in Appendices B and C, respectively.

8 GROUNDWATER

Seepage and/or groundwater was not encountered in our borings to total depth explored of up to approximately 46½ feet; however, the CPT sounding data indicate that the depth to groundwater

is approximately 50 feet. NorCal (2018) encountered groundwater at a depth of approximately 38½ feet during their feasibility study of the site. CDMG (1998) indicates that the historic high depth to groundwater at the project site is 8 feet. As part of our evaluation, we reviewed depth to groundwater data available on the State of California Water Resources Control Board's GeoTracker website (2022) for four sites located approximately 0.1 to 0.6 miles from the site. Based on our review of the data, the depth to groundwater in the vicinity of the site was on the order of 20 feet in 1998. The depth to groundwater steadily increased to a depth on the order of 30 feet in 2013 and approximately 41 to 43 feet in the latter half of 2021. It should be noted that the depth to groundwater measured at the site in 2018 by NorCal (i.e., 38½ feet) is consistent with the regional data. The depth measured in our CPT sounding of approximately 50 feet is deeper than the depth to groundwater trends indicated by the data reviewed but it may be related to the very low rainfall amounts recorded in 2022.

Fluctuations in the level of groundwater will occur due to variations in ground surface topography, subsurface stratification, rainfall, irrigation practices, groundwater pumping, and other factors that were not evident at the time of our field evaluation.

9 FIELD PERCOLATION TESTING

Percolation testing was performed in our borings P-1 through P-3 in general accordance with the 2021 LACDPW Guidelines for Geotechnical Investigation and Reporting Low Impact Development Stormwater Infiltration. The testing was performed to evaluate the infiltration rates of the on-site soils for use in design of project BMPs. The borings were drilled to depths ranging from 26½, 10, and 26½ feet, respectively. The purpose of borings P-1 and P-3 was to evaluate the infiltration rate at the approximate invert depth of the proposed infiltration facility and the purpose of boring P-2 was to evaluate the infiltration rate of shallower soils in the event that additional BMPs, such as bioswales, permeable pavements, etc. are added to the project. The approximate locations of the percolation test borings are shown on Figures 2 and 3.

Preparation of each boring for percolation testing included the installation of a 2-inch-diameter slotted polyvinyl chloride (PVC) pipe in each boring and backfilling the bottom approximately 5 feet of annular space between the borehole wall and pipe with clean gravel. The infiltration zones were pre-soaked with water for at least one hour prior to performing percolation testing. After the borings were pre-soaked, falling-head percolation testing was performed in the borings.

The falling-head test method involved placing clean water into the PVC pipe to establish a head of water and measuring the rate at which the water level dropped in the pipe at consecutive time intervals (approximately 10 minutes for borings P-1 and P-3 and approximately 30 minutes for P-

2). The test was repeated until three consecutive tests provided similar results and a stabilized rate was obtained. The field percolation rate was calculated by measuring the total volume of water infiltrated during the time interval and dividing by the surface area of the tested zone of the boring. The measured field percolation rates are presented in Table 1.

The 2021 LACDPW guidelines indicate that the measured field percolation rates should be reduced to account for the long-term performance of the proposed BMPs by dividing the field rates by the "Total Reduction Factor (RF)." They define the RF as the sum of the "test-specific" reduction factor (RF_t), the "site variability" reduction factor (RF_v), and the "long-term siltation, plugging, and maintenance" reduction factor (RF_s) (i.e., $RF=RF_t+RF_v+RF_s$). The guidelines (CLADPW, 2021) indicate that the RF_t is applied to account for variations in the direction of flow during the test and the reliability of the different test methods and ranges from 1 to 3. We recommend using an RF_t value of 2 for the small dimeter boring test method used in this evaluation. The RF_v value is applied to account for site variability, number of tests, and thoroughness of the subsurface investigation and ranges from 1 to 3. Based on our explorations and relative consistency of materials encountered between borings and CPTs, we recommend using an RF_v value of 1. The long-term siltation, plugging, and maintenance value (RF_s) also ranges from 1 to 3 and will generally vary on the level of pre-treatment performed prior to infiltration and the level of future maintenance of the system. For the purposes of this evaluation, we have assumed an RFs value of 1; however, the RF_s value should be provided by the BMP designer. The RF_t, RF_v, RF_s, and resulting RF values used in our analysis are presented in Table 1. The adjusted percolation rates based on these values are also presented in Table 1. The NorCal (2018) percolation test results were excluded from our analyses since their procedures and calculations are not in accordance with the LACDPW guidelines.

Table 1 – Percolation Test Results

Test Boring	Test Type	Approximate Depth of Tested Zone (feet)	Field Percolation Rate (inches/hour)	Reduction Factor				Adjusted Percolation Rate (inches/hour)
				RF_t	RF_v	RF_s	RF	
P-1	Falling Head	25.5 – 26.5	1.6	2	1	1	4	0.4
P-2	Falling Head	8 – 10	8.8	2	1	1	4	2.1
P-3	Falling Head	25.5 – 26.5	1.7	2	1	1	4	0.4

Notes:
RF_t – Test Specific Reduction Factor
RF_v – Site Variability Reduction Factor
RF_s – Long-Term Siltation, Plugging, and Maintenance Reduction Factor (To be adjusted by the BMP designer)
RF – Total Reduction Factor

Based on our evaluation, we recommend that an adjusted percolation rate of 0.4 inch per hour, following adjustments by the BMP designer for RF_s, be used for design of the infiltration facility. A preliminary design value of 2 inches per hour can be used for shallower site BMPs, if added to

the project. If shallow BMPs are added to the project, additional shallow percolation tests may be warranted for their design.

In addition, we recommend that new or existing buildings be set-back from the proposed infiltration facility a minimum of 15 feet or a distance where the bottom of the lowest foundation element of the structure is at least 10 horizontal feet outside of an imaginary 1:1 (horizontal to vertical) plane projected downward and outward from the zone of infiltration.

10 FLOOD HAZARDS

Based on our review of flood insurance rate maps for the project area (Federal Emergency Management Agency [FEMA], 2008), the project site is not located in the 100-year Flood Hazard Area. The site is located within "Other Flood Areas – Zone X," which includes areas potentially subject to 500-year floods, areas of 100-year floods with average depths of less than one foot, and areas protected by levees. The site is protected from the 100-year flood event by a levee along the Los Angeles River.

11 FAULTING AND SEISMICITY

The site is in a seismically active area, as is the majority of southern California, and the potential for strong ground motion in the project area is considered significant during the design life of the proposed project. Figure 5 shows the approximate site location relative to the major faults in the region. The site is not located within a State of California Earthquake Fault Zone (EFZ) (formerly known as an Alquist-Priolo Special Studies Zone) (Hart and Bryant, 2018). The nearest mapped active fault to the site is the Puente Hills fault located approximately 2.1 miles northeast of the site (United States Geological Survey [USGS], 2008) (Figure 5).

The principal seismic hazards evaluated at the subject site are surface fault rupture, ground motion, and liquefaction. A brief description of these principal seismic hazards is discussed in the following sections.

11.1 Surface Fault Rupture

Surface fault rupture is the offset or rupturing of the ground surface by relative displacement across a fault during an earthquake. Based on our review of referenced geologic and fault hazard data, the project site is not transected by known active faults. Therefore, the potential for surface rupture is relatively low. However, lurching or cracking of the ground surface as a result of nearby seismic events is possible.

11.2 Site-Specific Ground Motion

Considering the proximity of the site to active faults capable of producing a maximum moment magnitude of 6.0 or more, the project area has a high potential for experiencing strong ground motion. The 2019 California Building Code (CBC) specifies that the risk-targeted maximum considered earthquake (MCE_R) ground motion response accelerations be used to evaluate seismic loads for design of buildings and other structures. Per the 2019 CBC, a site-specific ground motion hazard analysis shall be performed for structures on Site Class D with a mapped MCE_R, 5 percent damped, spectral response acceleration parameter at a period of 1 second (S_1) greater than or equal to 0.2g in accordance with Sections 21.2 and 21.3 of the American Society of Civil Engineers (ASCE) Publication 7-16 (2016) for the Minimum Design Loads and Associated Criteria for Building and Other Structures. We calculated that the S_1 for the site is equal to 0.592 using the 2022 Applied Technology Council (ATC) seismic design tool (web-based); therefore, a site-specific ground motion hazard analysis was performed for the project area.

The site-specific ground motion hazard analysis consisted of the review of available seismologic information for nearby faults and performance of probabilistic seismic hazard analysis (PSHA) and deterministic seismic hazard analysis (DSHA) to develop acceleration response spectrum (ARS) curves corresponding to the MCE_R for 5 percent damping. Prior to the site-specific ground motion hazard analysis, we obtained the mapped seismic ground motion values and developed the general MCE_R response spectrum for 5 percent damping in accordance with Section 11.4 of ASCE 7-16 (ATC, 2022). Based on shear wave velocity data obtained from CPT-2, the average shear wave velocity (V_S) for the upper 30 meters of soil (V_{S30}) is calculated to be 245 meters per second (m/s). The depths to V_S = 1,000 m/s and V_S = 2,500 m/s are assumed to be 900 meters and 5,450 meters, respectively (Southern California Earthquake Center Community Velocity Model Version 4 Basin Depth).

The 2014 new generation attenuation (NGA) West-2 relationships were used to evaluate the site-specific ground motions. The NGA relationships that we used for developing the probabilistic and deterministic response spectra are by Chiou and Youngs (2014), Campbell and Bozorgnia (2014), Boore, Stewart, Seyhan, and Atkinson (2014), and Abrahamson, Silva, and Kamai (2014). The Open Seismic Hazard Analysis software developed by USGS (USGS, 2020) was used for performing the PSHA. The Calculation of Weighted Average 2014 NGA Models spreadsheet by the Pacific Earthquake Engineering Research Center was used for performing the DSHA (Seyhan, 2014).

PSHA was performed for earthquake hazards having a 2 percent chance of being exceeded in 50 years multiplied by the risk coefficients per ASCE 7-16. The maximum rotated components of

ground motions were considered in PSHA with 5 percent damping. For the DSHA, we analyzed accelerations from characteristic earthquakes on active faults within the region using the hazard curves and deaggregation plots at the site obtained from the USGS Unified Hazard Tool application (USGS, 2022). A magnitude 7.3 event on the Compton fault with a rupture distance of 10.4 kilometers from the site was evaluated to be the controlling earthquake. Hence, the deterministic seismic hazard analysis was performed for the site using this event and corrections were made to the spectral accelerations for the 84th percentile of the maximum rotated component of ground motion with 5 percent damping.

The site-specific MCE_R response spectrum was taken as the lesser of the spectral response acceleration at any period from the PSHA and DSHA, and the site-specific general response spectrum was determined by taking two-thirds of the MCE_R response spectrum with some conditions in accordance with Section 21.3 of ASCE 7-16. Figure 6 presents the site-specific MCE_R response spectrum and the site-specific design response spectrum. The general mapped design response spectrum calculated in accordance with Section 11.4 of ASCE 7-16 is also presented on Figure 6 for comparison. The site-specific spectral response acceleration parameters, consistent with the 2019 CBC, are provided in Section 13.3 of this report for the evaluation of seismic loads on buildings and other structures. The site-specific maximum considered earthquake geometric mean (MCE_G) peak ground acceleration, PGA_M, was calculated as 0.772g.

11.3 Liquefaction

Liquefaction is the phenomenon in which loosely deposited granular soils with silt and clay contents of less than approximately 35 percent and non-plastic silts located below the water table undergo rapid loss of shear strength when subjected to strong earthquake-induced ground shaking. Ground shaking of sufficient duration results in the loss of grain-to-grain contact due to a rapid rise in pore water pressure and causes the soil to behave as a fluid for a brief period of time. Liquefaction is known generally to occur in saturated or near saturated cohesionless soils at depths shallower than 50 feet. Factors known to influence liquefaction potential include composition and thickness of soil layers, grain size, relative density, groundwater level, degree of saturation, and both intensity and duration of ground shaking.

The State of California Hazard Zones map (CDMG, 1999) indicates that the subject site is located in an area mapped as being potentially susceptible to liquefaction (Figure 7). Accordingly, we evaluated the liquefaction potential of the subsurface soils at the site. Our analysis was performed using the CPT data collected from CPT-1 and CPT-2. The liquefaction analysis was based on the National Center for Earthquake Engineering Research procedure (Youd, et al., 2001) using the

computer program CLiq (Geologismiki Geotechnical Software, 2018). A historic high depth to groundwater of 8 feet below the existing ground surface, a PGA_m of 0.77g, and a design earthquake magnitude of 7.3 were used in our analyses. Our analysis indicates that the granular soil layers occurring below the historic high groundwater level of 8 feet, in the event that the groundwater was to rise from its current depth of approximately 50 feet, are susceptible to liquefaction during the design seismic event.

11.4 Dynamic Settlement

As a result of liquefaction, the proposed improvements may be subject to liquefaction-induced settlement. In order to estimate the amount of dynamic settlement of saturated soils, the method proposed by Zhang et al. (2002) was used. Based on our analysis, a post-earthquake settlement of up to approximately 7½ and 6½ inches at CPT-1 and CPT-2, respectively is calculated for the site. Since the subsurface soil at the site is relatively uniform based on our field exploration, it is our opinion that the differential dynamic settlement is approximately 1 inch over a distance (between CPT-1 and CPT-2) of 100 feet. Based on the guidelines presented in CGS Special Publication 117A (2008) and assuming relatively uniform subsurface stratigraphy across the site, we estimate a differential dynamic settlement on the order of ½ inch over a horizontal distance of 40 feet.

12 CONCLUSIONS

Based on the results of our evaluation, it is our opinion that the proposed project and associated improvements at Spane Park are feasible from a geotechnical standpoint, provided the recommendations presented in this report are incorporated into the design and construction of the project. In general, the following conclusions were made:

- The subject site is generally underlain by approximately 4 to 5 feet of undocumented fill with deeper fills associated with the elevated mound on the south side of the site and construction of the perimeter retaining walls on the north and east sides of the park. The fill is underlain by young alluvial deposits consisting of interbedded moist, loose to dense, poorly graded sand with silt, silty sand, and silt with variable amounts of sand, and very stiff lean clay.
- Our percolation testing indicates that the on-site soils at the approximate invert depth of the infiltration facility (approximately 25½ to 26½ feet) have an adjusted percolation rate of 0.4 inch per hour. We recommend using this value for design of the gallery; however, this rate should be adjusted as needed in accordance with the 2021 LACDPW guidelines. For planning purposes, shallow infiltration BMPs, if included with the project, can be designed using an adjusted percolation rate of 2 inches per hour.
- In general, excavations and drilling in the existing fill soil and young alluvium should be feasible with earthmoving equipment in good working condition.
- We anticipate that the on-site excavated materials should be suitable for re-use as engineered fill and trench backfill provided, they are free of trash, debris, roots,

contamination, deleterious materials, and cobbles or hard lumps of material in excess of 4 inches in diameter. Processing of the materials to bring them near the laboratory optimum moisture content (i.e., drying and/or wetting) prior to use as fill should be planned by the contractor. In-situ moisture contents of collected soil samples ranged from approximately 3.7 to 33.7 percent.

- The on-site soils are generally granular and will be prone to caving during excavation. The on-site soils should be considered as Type C soils in accordance with United States Department of Labor Occupational Safety and Health Administration (OSHA) regulations. Accordingly, temporary excavations deeper than 4 feet in depth should be shored or laid back at inclinations of 1½ to 1 (horizontal to vertical) or flatter.

- Where excavations cannot be laid back, temporary shoring is anticipated. Shoring should be designed by the contractor to support the excavation sidewalls and to reduce the potential for settlement of adjacent structures, roadways and other site improvements. Shoring should be designed in accordance with OSHA regulations.

- Groundwater was not encountered in our exploratory borings to the total depth explored of approximately 46½ feet but is interpreted to be at a depth of approximately 50 feet based on our CPT data. The historic high depth to groundwater is mapped as being approximately 8 feet (CDMG, 1998). Fluctuations in the level of groundwater will occur due to variations in ground surface topography, subsurface stratification, rainfall, irrigation practices, groundwater pumping, and other factors that were not evident at the time of our field evaluation.

- The site is located within a mapped Seismic Hazards Zone considered susceptible to liquefaction (CDMG, 1999). Based on our liquefaction analysis, , the site is considered to be potentially liquefiable during a seismic event. A total dynamic settlement of approximately 7½ inches was calculated for the site. In addition, we estimated the differential dynamic settlement is approximately ½ inch over a span of 40 feet.

- The site is not located within an EFZ with the potential for fault rupture as defined by the Alquist-Priolo Earthquake Fault Zoning Act (Hart and Bryant, 2018). The probability of surface fault rupture at the site is considered to be low.

- Based on the results of our laboratory testing, hydro-collapse of the on-site soils resulting from on-site infiltration is not considered a design issue.

- The site is not located within a designated flood inundation zone from the 100-year flood event (FEMA, 2008).

- Based on our laboratory corrosion testing, the on-site soil can be classified as non-corrosive per the 2021 Caltrans Corrosion Guidelines.

13 RECOMMENDATIONS

The following sections present our geotechnical recommendations for design and construction of the project. This project is in preliminary design phase and some aspects of the design will be subject to change. Ninyo & Moore should review the final plans and develop additional geotechnical recommendations as appropriate. These recommendations are based on our evaluation of the site geotechnical conditions, our understanding of the planned construction, and experience in the vicinity of the project. The work should be performed in conformance with the

recommendations presented in this report, project specifications, and appropriate agency standards.

13.1 Earthwork

We anticipate that earthwork at the site will consist of cuts and fills associated with the construction of the proposed BMP facility and associated improvements, including the diversion structure, actuated valve, hydrodynamic separator, pump station, and infiltration unit, excavations associated with foundation preparation for the restroom building and other at-grade improvements, preparation of subgrades for new pavement areas, and trenching and backfilling of underground utilities and pipelines. Based on our understanding of the project, we anticipate that excavations for the proposed BMP facility and associated improvements/pipelines will vary from approximately 10 to 28 feet in depth. Earthwork operations should be performed in accordance with the requirements of applicable governing agencies and the recommendations presented in the following sections.

13.1.1 Pre-Construction Conference

We recommend that grading and foundation plans be submitted to Ninyo & Moore for review to check for conformance to the recommendations provided in this report. We further recommend that a pre-construction conference be held to discuss the grading recommendations presented in this report. The owner and/or their representative, the governing agencies' representatives, the civil engineer, Ninyo & Moore, and the contractor should be in attendance to discuss the work plan, project schedule, and earthwork requirements.

13.1.2 Clearing and Site Preparation

Prior to performing excavations or other earthwork, the site should be cleared of existing site improvements and foundations, gravel, debris, vegetation, and loose or otherwise unsuitable soils. Materials generated from the clearing/demolition operations should be removed from the project site and disposed of at a legal dump site. Existing utilities to remain in-place should be located and protected from damage by construction activities. Excavations resulting from the removal of foundations, underground utilities, and/or other underground improvements, should be backfilled with compacted fill in general accordance with the fill and compaction recommendations presented below.

13.1.3 Excavation Characteristics

We anticipate that excavations and drilling in the undocumented fill and young alluvium should be feasible with earthmoving equipment in good working order. The undocumented

fill and young alluvial materials generally consisted of moist, loose to dense, poorly graded sand with silt, silty sand, silt with varying amounts of sand, and very stiff lean clay. Oversize material is not considered suitable for use as backfill. In the event that oversize material, including cobbles and/or construction debris is encountered during excavation operations, the oversized material should be disposed of off-site. Processing of the excavated materials to bring them near the laboratory optimum moisture content (i.e., drying and/or wetting) prior to use as fill should be planned by the contractor. In-situ moisture contents of on-site soils ranged from approximately 3.7 to 33.7 percent. Contractors should make their own independent evaluation of the excavatability of the on-site materials prior to submitting their bids, including allowances for processing the soils.

13.1.4 Subgrade Preparation for the Infiltration Facility

Based on our exploratory borings and CPTs, alluvial deposits are anticipated to be encountered at the bottom of the planned infiltration facility that should be suitable for support of the facility and compacted fill placed to bury the facility. The excavation bottom should be evaluated by our representative during the excavation work. In the event that unsuitable material is encountered along the bottom of the excavation, including undocumented fill, the unsuitable material should be removed and replaced with loosely-packed clean sand or gravel, such as drainage rock. The actual recommendations for removal and replacement should be based on our field observations. We recommend that minimal compaction be performed on the exposed subgrade, materials used to replace unsuitable materials (if needed), and/or rock blanket placed beneath the facility. Compaction of the subgrade could potentially reduce the infiltration rate of the gallery. If the subgrade of the infiltration gallery is compacted, we recommend that additional percolation testing be performed. If a rock blanket is used beneath the facility, we recommend that it consist of ¾-inch to 1½-inch diameter, open-graded gravel underlain by filter fabric consisting of Mirafi 140N or equivalent.

If foundations are to be installed along the bottom of the facility, such as strip footings, the upper approximately 8 inches of subgrade, only beneath the foundations, should be scarified, moisture-conditioned to near optimum moisture content, and recompacted to a relative compaction of 90 percent as evaluated by ASTM International (ASTM) D 1557. If unsuitable materials, including undocumented fill, loose/soft, and/or wet materials, are encountered along the excavation bottom that extend beneath proposed footings, specific recommendations for removal and replacement of these materials, if warranted, will be provided by our firm based on field observations. The excavation bottoms should be evaluated by our representative during the excavation work.

13.1.5 Treatment of Near-Surface Soils for Buried and At-Grade Structures and Site Pavements

In order to provide suitable support and reduce the potential for settlement of proposed buried structures (i.e., the diversion structure, pump station, hydro-dynamic separator, filtration unit, valves, etc.) and at-grade structures (i.e., restroom structure, etc.), we recommend that the existing undocumented fill and upper loose alluvial deposits be removed and recompacted from beneath the footprints of these structures. The excavations should extend deep enough to provide 2 feet or more of newly compacted fill material beneath the proposed foundations. The overexcavation should expose relatively dense alluvial deposits. Additional overexcavation of loose, soft, and/or wet areas may be appropriate. The excavation bottoms should be evaluated by our representative during the excavation work and additional recommendations, if needed, be based on field observations. The limits of removal should extend approximately 2 feet beyond the footprint of the foundations for the buried structures and 5 feet for the at-grade structures, or a distance equal to the depth of the overexcavations beneath the foundations, whichever is farther. If drainage rock is placed beneath the foundations for the buried structures, the rock can be considered part of the 2-foot-thick layer of compacted fill beneath the foundations. Prior to placing compacted fill and/or drainage rock, the upper approximately 8 inches of the exposed bottom should be scarified, moisture-conditioned to near optimum moisture content, and recompacted to a relative compaction of 90 percent as evaluated by ASTM D 1557.

In order to provide suitable support for new AC pavements subject to vehicular traffic (i.e., parking lots, driveways, etc.), we recommend that the subgrade beneath the pavement section be overexcavated and recompacted to a depth of approximately 2 feet beneath the existing ground surface or a depth that provides approximately 2 feet of compacted fill beneath the pavement section, whichever is deeper. The limits of the excavations should extend laterally so that the bottoms of the excavations are approximately 2 feet beyond the outside edges of the pavement, or a distance equal to the depth of the overexcavation, whichever is farther. In general, the overexcavations should remove existing undocumented fill and loose alluvial deposits; however, due to relatively deep fills in portions of the site, this is not considered feasible in many areas. Accordingly, we recommend that the excavation bottoms expose relatively dense or stiff native alluvial deposits, and/or fill that exhibits an in-situ relative compaction of 90 percent or more as evaluated by ASTM D 1557 at the time of construction. The excavation bottoms should be evaluated by our representative during the excavation work. Additional overexcavation of loose, soft, wet areas, existing fill that exhibits an in-situ relative compaction of less than 90 percent, may be appropriate depending on our

observations during construction. The excavation bottom should be scarified to a depth of approximately 8 inches, moisture-conditioned, and compacted prior to the placement of fill.

In order to provide suitable support and reduce the potential settlements of hardscape (i.e., sidewalks, curbs and gutters, ribbon drains, etc.), we recommend that the subgrade materials beneath the proposed hardscape areas be scarified to a depth of approximately 1 foot, moisture-conditioned to near optimum moisture content, and recompacted. The limits of the scarification should extend laterally 2 feet beyond the outside edge of hardscape. The exposed subgrade should be evaluated by our representative during the excavation work. Loose, soft, and/or wet areas may need to be overexcavated, depending on our observations during construction. Prior to placing new compacted fill in areas that are overexcavated and/or in areas where the existing subgrade will be raised with new fill, the exposed bottom should be scarified, moisture-conditioned, and recompacted to a depth of approximately 8 inches.

13.1.6 Temporary Excavations

We recommend that excavations be designed and constructed in accordance with OSHA regulations. These regulations provide shoring design parameters for excavations and trenches up to 20 feet deep based on the soil types encountered. Trenches over 20 feet deep should be designed by the contractor's engineer based on site-specific geotechnical analyses. For planning purposes, we recommend that the undocumented fill and alluvial soils be considered as OSHA Type C soil.

For trench or other excavations, OSHA requirements regarding personnel safety should be met by using appropriate shoring or by laying back the slopes no steeper than 1½:1 (horizontal to vertical). Temporary excavations that encounter seepage may need shoring or may be mitigated by placing sandbags or gravel along the base of the seepage zone. Excavations encountering seepage should be evaluated on a case-by-case basis. On-site safety of personnel is the responsibility of the contractor.

Care should be taken by the contractor to avoid undermining adjacent existing foundations and improvements. New excavations should not extend within the "zone of influence" of existing foundations, which is defined as a 1:1 (horizontal to vertical) plane projecting out from the bottom outside edge of the foundations. In the event that excavations will extend within the "zone of influence" of existing foundations, our office should be notified, and appropriate recommendations provided, such as temporary underpinning of impacted foundations and/or temporary shoring.

13.1.7 Shoring

Where temporary slopes are not possible, shoring will be appropriate. The design of the shoring system should consider the excavation characteristics of the onsite soil, temporary excavation stability, and the impact of construction on existing structures.

Shoring systems will be constructed through fill and alluvial deposits. We anticipate that braced driven sheet pile shoring systems will be appropriate for the project to depths up to approximately 30 feet. Cantilevered shoring systems (if used) should be limited to heights of up to 10 feet. Braced and cantilevered shoring systems should be designed using the lateral earth pressure values presented on Figures 8 and 9, respectively. The recommended design pressures are based on the assumptions that the shoring system is constructed without raising the ground surface elevation behind the shoring wall, that there are no surcharge loads, such as soil stockpiles and construction materials, and that no loads act above a 1:1 (horizontal to vertical) plane extending up and back from the base of the shoring system. For shoring walls subjected to the above-mentioned surcharge loads, the contractor should include the effect of these loads on the lateral pressures against the shoring system. The shoring systems planned for the project should be reviewed by our office to evaluate the design considerations and geotechnical parameters used. Ground settlement may occur behind the shoring system wall during excavation. The amount of settlement depends on the type of shoring system, the contractor's workmanship, and soil conditions. We recommend that structures/improvements in the vicinity of the planned shoring installation be reviewed with regard to foundation support and tolerance to settlement. To reduce the potential for distress to adjacent structures, we recommend that the shoring system be designed to limit the ground settlement behind the shoring system to ½ inch or less, which would equal approximately ½ inch of deflection. Potential causes of settlement that should be addressed include settlement during installation of the shoring, excavation for structure construction, construction vibrations, and removal of the support system. The vibrations from the driving of sheet piles, if used, may result in some dynamic settlement of granular soils that may affect the adjacent structures. We recommend that shoring installation be evaluated carefully by the contractor prior to construction and that ground vibration and settlement monitoring be performed during construction. Vibration and settlement monitoring should be performed during sheet pile driving, if used. If settlement is detected or peak particle velocities of approximately 0.4 inch per second or more are measured adjacent to existing improvements, the sheet pile driving should be stopped and evaluated. The evaluation may include changing the hammer vibration frequency and monitoring for settlement and vibrations. To reduce the potential for settlement associated with sheet pile removal, sheet piles may be left in place.

In the event excessive settlement or other damage occurs associated with the pile driving operations, it may be appropriate to perform grouting beneath nearby structure(s) to mitigate the pile driving effects. We recommend that shoring installation be evaluated carefully by the contractor prior to construction.

The contractor should retain a licensed, qualified and experienced engineer to design the shoring system. The shoring parameters presented in this report are minimum requirements, and the contractor should evaluate the adequacy of these parameters and make the modifications as needed for their design. We recommend that the contractor take appropriate measures to protect workers. OSHA requirements pertaining to worker safety should be observed.

13.1.8 Fill Material

In general, the on-site soils should be suitable for reuse as fill materials, provided they are free of trash, debris, oversize material, or other deleterious materials. Fill should generally be free of rocks or lumps of material in excess of 4 inches in diameter. Rocks or hard lumps larger than approximately 4 inches in diameter should be broken into smaller pieces or should be removed from the site.

Fill used as backfill against the facility and other buried structures should consist of free-draining, granular, non-expansive soil that conforms with the latest edition of Greenbook for structure backfill. “Non-expansive” can be defined as soil having an EI of 20 or less in accordance with ASTM Test Method D 4829 (CBC, 2019).

Imported fill material should consist of clean, non-expansive, granular material which also conforms to the latest addition of Greenbook for structure backfill. The soil should also be tested for corrosive properties prior to importing. We recommend that the imported materials meet the 2021 Caltrans criteria for non-corrosive soils (i.e., soils having a chloride concentration of 500 parts per million [ppm] or less, a soluble sulfate content of approximately 0.15 percent (1,500 ppm) or less, a pH value of 5.5 or higher, or an electrical resistivity of 1,500 ohm-centimeters or more). Materials for use as fill should be evaluated by Ninyo & Moore prior to importing. The contractor should be responsible for the uniformity of import material brought to the site.

13.1.9 Fill Placement and Compaction

In general, fill material, including retaining wall, trench backfill, fill placed beneath foundations and pavements, should be moisture-conditioned and compacted in horizontal lifts to a relative

compaction of 90 percent or more as evaluated by ASTM D 1557. Fill material with less than 5 percent fines (passing No. 200 sieve) should be compacted to 95 percent relative compaction as evaluated by ASTM D 1557. Fill material should be moisture-conditioned to slightly above the laboratory optimum moisture content. The lift thickness for fill soils will depend on the type of compaction equipment used but generally should not exceed 8 inches in loose thickness. Special care should be exercised to avoid damaging pipes during compaction of trench backfill. Placement and compaction of the fill soils should be in general accordance with local grading ordinances and good construction practice.

13.2 Underground Utilities

We anticipate that underground pipelines will be supported on native alluvial deposits. Based on the preliminary plans, pipeline inverts may be on the order of 25½ feet in depth.

13.2.1 Pipe Bedding

We recommend that pipes be supported on 6 inches or more of granular bedding material, such as sand, with a sand equivalent value of 30 or more. Bedding material should be placed around the pipe and 12 inches or more above the top of the pipe in accordance with the current Greenbook. Special care should be taken not to allow voids beneath the pipe. Compaction of the bedding material and backfill should proceed up both sides of the pipe. Trench backfill, including bedding material, should be placed in accordance with the recommendations presented in the Earthwork section of this report.

13.2.2 Trench Backfill

Based on our subsurface evaluation, the on-site soils should generally be suitable for re-use as trench backfill provided, they are free of organic material, clay lumps, debris, and rocks more than approximately 4 inches in diameter. We recommend that trench backfilling be in general conformance with the Greenbook standard specifications for structure backfill. Fill should be moisture-conditioned to at or slightly above the laboratory optimum. Wet soils should be allowed to dry to a moisture content near the optimum prior to their placement as trench backfill. Trench backfill should be compacted to a relative compaction of 90 percent or more as evaluated by ASTM D 1557. Lift thickness for trench backfill will depend on the type of compaction equipment utilized but should generally be placed in horizontal lifts not exceeding 8 inches in loose thickness. Special care should be exercised to avoid damaging the pipelines during compaction of the backfill.

13.2.3 Modulus of Soil Reaction for Pipe Design

The modulus of soil reaction is used to characterize the stiffness of soil backfill placed along the sides of buried flexible pipelines for the purpose of evaluating deflection caused by the weight of the backfill above the pipe. We recommend that a modulus of soil reaction of 1,000 pounds per square inch be used for design, provided that granular bedding material is placed adjacent to the pipe, as recommended in the previous section.

13.3 Site-Specific Seismic Design Considerations

Design of the proposed improvements should be performed in accordance with the requirements of governing jurisdictions and applicable building codes. Table 2 presents the site-specific spectral response acceleration parameters in accordance with the CBC (2019) guidelines.

Table 2 – 2019 California Building Code Seismic Design Criteria

Site Coefficients and Spectral Response Acceleration Parameters	Values
Site Class	D
Mapped Spectral Response Acceleration at 0.2-second Period, S_s	1.654
Mapped Spectral Response Acceleration at 1.0-second Period, S_1	0.592
Site-Specific Spectral Response Acceleration at 0.2-second Period, S_{MS}	1.829
Site-Specific Spectral Response Acceleration at 1.0-second Period, S_{M1}	2.125
Site-Specific Design Spectral Response Acceleration at 0.2-second Period, S_{DS}	1.220
Site-Specific Design Spectral Response Acceleration at 1.0-second Period, S_{D1}	1.417
Site-Specific Maximum Considered Earthquake Geometric Mean (MCE_G) Peak Ground Acceleration, PGA_M	0.772g

13.4 Foundations

Our evaluation indicated a total liquefaction-induced settlement up to 7½ inches and a liquefaction-induced differential settlement of ½ inch over a span of 40 feet are anticipated on-site during the design seismic event. Based on the differential settlement threshold provided in ASCE 7-16 Table 12.13-3 (ASCE, 2016) for a Risk Category III single-story structure such as the proposed improvements, the threshold differential settlement is 2.4 inches over a horizontal distance of 40 feet. Accordingly, it is our opinion that the proposed infiltration gallery may be supported on spread footings (i.e., strip footings) and that other underground structures (i.e., diversion structure, pre-treatment unit, etc.) may be supported by mat foundations. Spread foundations may also be used to support the restroom building and other at-grade structures. The following are our recommendations for project foundations:

13.4.1 Spread Footings

Spread footings for the infiltration gallery (i.e., strip footings) should be placed directly on low expansion alluvial materials and/or compacted fill in accordance with the recommendations presented in the Earthwork section of this report. Spread footings for at-grade structures bearing on low expansion compacted fill in accordance with the recommendations presented

in the Earthwork section of this report should extend 18 inches or more below the lowest adjacent finished grade. Continuous and isolated footings should have a width of 24 inches or more. Continuous footings should be reinforced with two No. 4 steel reinforcing bars, one placed near the top and one placed near the bottom of the footings, and further detailed in accordance with the recommendations of the structural engineer.

Footings, as described above and bearing on alluvial materials and compacted fill, may be designed using a net allowable bearing capacity of 3,000 pounds per square foot (psf). Total and differential settlements for footings designed in accordance with the above recommendations are estimated to be less than approximately 1 inch and ½ inch over a horizontal span of 40 feet, respectively.

Footings bearing on alluvial materials and compacted fill may be designed using a coefficient of friction of 0.35, where the total frictional resistance equals the coefficient of friction times the dead load. Footings may be designed using a passive resistance value of 350 psf per foot of depth, with a maximum value of 3,500 psf. The allowable lateral resistance can be taken as the sum of the frictional resistance and passive resistance, provided the passive resistance does not exceed one-half of the total allowable resistance. The passive resistance (including the maximum value) may be increased by one-third when considering loads of short duration such as wind or seismic forces.

13.4.2 Mat Foundations

Mat foundations for other underground structures (i.e., diversion structure, hydro-dynamic separator, pump station, valves, filtration unit, etc.) may be supported on compacted fill in accordance with the recommendations presented in the Earthwork section of this report. Foundations should be designed in accordance with structural considerations and the following recommendations. In addition, requirements of the appropriate governing jurisdictions and applicable building codes should be considered in the design of the structures.

The mat foundations may be designed using a net allowable bearing capacity of 4,000 psf. The total and differential settlement corresponding to this allowable bearing load are estimated to be less than approximately 1 inch and ½ inch over a horizontal span of 40 feet, respectively.

Mat foundations typically experience some deflection due to loads placed on the mat and the reaction of the soils directly underlying the mat. A design modulus of subgrade reaction (K) of 50 tons per cubic foot may be used for the subgrade soils in evaluating such deflections.

13.5 Lateral Earth Pressures for Underground Structures

Walls for below-grade structures when constructed as recommended above may be designed for lateral pressures represented by the pressure diagram on Figure 10. To reduce the potential for pipe-to-wall differential settlement, which could cause pipe shearing, we recommend that a flexible pipe joint be located close to the exterior of the wall. The type of joint should be such that minor relative movement can be accommodated without distress. The pipe connections should be sufficiently flexible to withstand differential settlement of approximately ¾ inch.

13.6 Exterior Flatwork

We recommend that new exterior concrete sidewalks and flatwork (hardscape) have a thickness of 4 inches and be reinforced with No. 3 steel reinforcing bars placed 24 inches on-center (each way) near the mid-height of the slab. The hardscape should be underlain by 4 inches of clean sand and installed with crack-control joints at an appropriate spacing as designed by the structural engineer to reduce the potential for shrinkage cracking. Positive drainage should be established and maintained adjacent to flatwork. To reduce the potential for differential offset, joints between the new hardscape and adjacent curbs, existing hardscape, building walls, and/or other structures, and between sections of new hardscape, should be doweled.

13.7 Pavement Design

We understand that the proposed improvements will include a new asphalt concrete (AC) paved parking lot. Based on our correspondence with the client, we understand that the pavement should be designed using a traffic index (TI) of 5. Laboratory testing of a representative near-surface soil sample indicated an R-value of approximately 59. Accordingly, an R-value of 59 was used for the subgrade soil in our analyses for the pavement design.

Based on a TI of 5, a design R-value of 59, and guidelines provided in the 2019 Caltrans Highway Design Manual, we recommend the following pavement sections for the project (Table 3). These pavement sections are based on an assumed 20-year design life.

Table 3 – Preliminary Pavement Structural Sections

Traffic Index	AC over CAB (inches)	Full Depth AC (inches)
5	3 over 4	4

Notes:
AC – Asphalt Concrete
CAB – Crushed Aggregate Base
CMB – Crushed Miscellaneous Base

The pavement sections should be supported on subgrade soils prepared in accordance with the remedial recommendations presented in the Earthwork section of this report. Crushed aggregate

base (CAB) and AC materials should conform to Sections 200 and 203, respectively, of the latest edition of Greenbook. CAB and AC materials should be compacted to a relative compaction of 95 percent in accordance with ASTM D 1557. If a full depth AC pavement is selected, the subgrade soil should be compacted to 95 percent relative compaction. Final pavement sections should be based on evaluation of the subgrade materials at the time of construction. We recommend that the paving operations be observed and tested by Ninyo & Moore. We further recommend that AC mix designs be made by an engineering company specialized in this type of work.

13.8 Corrosivity

Laboratory testing was performed on two representative soil samples collected from boring P-3 (sample depths of approximately 0 to 5 feet and 20 to 21.5 feet) to evaluate soil pH, electrical resistivity, water-soluble chloride content, and water-soluble sulfate content. The soil pH and electrical resistivity tests were performed in general accordance with CT 643. Chloride content tests were performed in general accordance with CT 422. Sulfate testing was performed in general accordance with CT 417. The soil pH of the samples tested was measured to be 7.9 and 7.5 and the electrical resistivity was measured to be 4,770 and 2,395 ohm-centimeters. The chloride content of the samples was measured to be 40 and 90 ppm. The sulfate content of the samples was measured to be 0.001 and 0.002 percent by weight (i.e., 10 to 20 ppm). Based on the laboratory test results and 2021 Caltrans corrosion criteria, the soils at the project site can be classified as non-corrosive, which is defined as having earth materials with less than 500 ppm chlorides, less than 0.15 percent sulfates (i.e., 1,500 ppm), a pH of 5.5 or more, or an electrical resistivity of 1,500 ohm-cm or more. The corrosivity test results are presented in Appendix C.

13.9 Concrete Placement

Concrete in contact with soil or water that contains high concentrations of water-soluble sulfates can be subject to premature chemical and/or physical deterioration. Based on the CBC (2019), the potential for sulfate attack is negligible for water-soluble sulfate contents in soil ranging from 0.00 to 0.10 percent by weight, moderate for water-soluble sulfate contents ranging from 0.10 to 0.20 percent by weight, severe for water-soluble sulfate contents ranging from 0.20 to 2.00 percent by weight, and very severe for water-soluble sulfate contents over 2.00 percent by weight. The soil samples tested for this evaluation, using CT 417, indicate water-soluble sulfate contents of approximately 0.001 and 0.002 percent by weight (i.e., 10 and 20 ppm). Accordingly, the on-site soils are considered to have a negligible potential for sulfate attack. Per ACI (2019b), Type II cement is appropriate for the site improvements. However, due to the potential variability of the soils on site, consideration should be given to using Type II/V cement for the project.

To reduce the potential for shrinkage cracks in the concrete during curing, we recommend that the concrete for the proposed improvements be placed with a slump of 4 inches based on ASTM C 143. The slump should be checked periodically at the site prior to concrete placement. We further recommend that concrete cover over reinforcing steel for foundations be provided in accordance with CBC (2019). The structural engineer should be consulted for additional concrete specifications.

13.10 Stormwater Infiltration Gallery

Based on our subsurface evaluation, the park is generally underlain by undocumented fill over young alluvial deposits consisting of poorly graded sand with silt, silty sand, sandy silt, silt with sand, and clay with variable amounts of gravel. We recommend that an infiltration rate of 0.4 inches per hour, following adjustments by the BMP designer for RF_s, be used for design at Spane Park for the infiltration gallery based on our review of our boring logs, CPT soundings, and laboratory test results. We recommend that the bottoms of the infiltration BMPs be further evaluated during construction. Additional recommendations may be provided at that time if fine-grained materials are present along the bottom of the basin, such as removing the fine-grained material and replacing it with granular material.

Based on our evaluation, the potential for hydro-collapse settlement associated with infiltration is generally low due to the proposed depth of infiltration. However, we generally recommend a setback of 15 feet or more between settlement sensitive structures and proposed infiltration areas.

13.11 Drainage

Proper surface drainage is imperative for satisfactory site performance. Positive drainage should be provided and maintained to direct surface water away from existing foundations. Positive drainage is defined as a slope of 2 percent or more for a distance of 5 feet or more away from foundations and tops of slopes. Runoff should then be directed by the use of swales or pipes into a collective drainage system. Area drains for landscaped and paved areas are recommended. Surface waters should not be allowed to pond adjacent to footings. We recommend that above-ground structures, if constructed, have roof drains and downspouts installed to collect runoff.

13.12 Landscaping

Project landscaping should consist of drought tolerant plants. Landscape irrigation should be kept to a level just sufficient to maintain plant vigor. Overwatering should not be permitted.

14 CONSTRUCTION MONITORING PROGRAM

We recommend that pre-construction condition surveys be performed on structures and improvements within approximately 50 feet of the proposed excavations prior to construction. This distance should be extended to 100 feet adjacent to proposed excavations if driven and/or vibratory sheet or soldier piles are installed. This survey should include locating existing cracks and measuring widths of cracks, in combination with videotape documentation of existing conditions. In addition, interviews should be conducted with utility owners so that existing knowledge about the age, type, and maintenance history of affected utilities is available prior to construction.

14.1 Construction Vibrations

People can perceive vibrations from construction activities at significantly lower levels than might cause cosmetic damage to structures. Jones & Stokes (2004) indicate that transient vibrations, such as from pile driving or construction activities, may be noticeable, and therefore may result in complaints, at peak particle velocities as low as 0.02 to 0.06 inch per second (ips). The vibrations may be disturbing and result in complaints and/or damage claims at peak particle velocities as low as 0.2 to 0.4 ips. However, these vibration levels are well below the level considered to cause cosmetic damage to residential construction.

There is also the possibility of settlement of the soil during construction activities due to vibrations. This settlement may result in damage to structures. If the construction vibrations can be maintained below a peak particle velocity of 0.2 ips, it is anticipated the settlement can be limited to acceptable levels based on past projects in similar conditions.

For the above stated reasons, we recommend that seismographs be used in the early stages of construction to monitor the vibrations. Seismographs should be located near structures and improvements next to the construction activities. Additional seismographs should be located at various structures and improvements farther from construction activities to monitor vibrations as a function of distance from the sites. Periodic vibration monitoring is recommended during other construction activities. After review of the data obtained, the number of seismographs may be reduced at the discretion of the client and the geotechnical consultant.

14.2 Ground Surface Settlement

We recommend that arrays of ground surface settlement points be installed around the proposed excavations and trenchless pipeline sections. The contractor should submit a monitoring plan showing the proposed locations of settlement points for review and approval by the project engineer. We recommend that the contractor be responsible for maintaining total settlement at

any survey point to less than ½ inch. If the settlements reach this limit, we recommend that a further review of construction methodologies be performed and appropriate changes be made.

14.3 Lateral Movement for Shoring Support System

We recommend that survey points be established behind excavations located in areas where existing structures are located above a 1:1 (horizontal to vertical) plane projected from the bottom of the proposed excavations to the ground surface. The survey points should be monitored and evaluated daily during excavation activities to provide an advanced warning system of potential problems. As discussed previously, we recommend that the shoring system be designed to limit the ground settlement behind the shoring system to ½ inch or less to reduce the potential for distress to adjacent structures and improvements. If settlement values reach ¼ inch, we recommend that a review of the contractor's methods be performed and appropriate changes be made, if needed.

15 CONSTRUCTION OBSERVATION

The recommendations provided in this report are based on our understanding of the proposed project and our evaluation of the data collected based on subsurface conditions disclosed by widely spaced exploratory borings. It is imperative that the geotechnical consultant checks the interpolated subsurface conditions during construction. We recommend that Ninyo & Moore review the project plans and specifications prior to construction. It should be noted that, upon review of these documents, some recommendations presented in this report may be revised or modified.

During construction we recommend that the duties of the geotechnical consultant include, but not be limited to:

- Observing site clearing, grubbing, and removals.
- Observing excavation bottoms, including the bottom of the proposed infiltration facility.
- Observing preparation of pavement and foundation subgrades.
- Observing placement and compaction of fill, including trench backfill.
- Evaluating imported materials prior to their use as fill (if used).
- Performing field tests to evaluate fill compaction.
- Observing foundation excavations for bearing materials and cleaning prior to placement of reinforcing steel or concrete.
- Performing material testing services including concrete compressive strength and steel tensile strength tests and inspections.

The recommendations provided in this report assume that Ninyo & Moore will be retained as the geotechnical consultant during the construction phase of this project. If another geotechnical consultant is selected, we request that the selected consultant indicate to the owner and to our firm in writing that our recommendations are understood and that they are in full agreement with our recommendations.

16 LIMITATIONS

The field evaluation, laboratory testing, and geotechnical analysis presented in this geotechnical report have been conducted in general accordance with current practice and the standard of care exercised by geotechnical consultants performing similar tasks in the project area. No warranty, expressed or implied, is made regarding the conclusions, recommendations, and opinions presented in this report. There is no evaluation detailed enough to reveal every subsurface condition. Variations may exist and conditions not observed or described in this report may be encountered during construction. Uncertainties relative to subsurface conditions can be reduced through additional subsurface exploration. Additional subsurface evaluation will be performed upon request. Please also note that our evaluation was limited to assessment of the geotechnical aspects of the project, and did not include evaluation of structural issues, environmental concerns, or the presence of hazardous materials.

This document is intended to be used only in its entirety. No portion of the document, by itself, is designed to completely represent any aspect of the project described herein. Ninyo & Moore should be contacted if the reader requires additional information or has questions regarding the content, interpretations presented, or completeness of this document.

This report is intended for design purposes only. It does not provide sufficient data to prepare an accurate bid by contractors. It is suggested that the bidders and their geotechnical consultant perform an independent evaluation of the subsurface conditions in the project areas. The independent evaluations may include, but not be limited to, review of other geotechnical reports prepared for the adjacent areas, site reconnaissance, and additional exploration and laboratory testing.

Our conclusions, recommendations, and opinions are based on an analysis of the observed site conditions. If geotechnical conditions different from those described in this report are encountered, our office should be notified, and additional recommendations, if warranted, will be provided upon request. It should be understood that the conditions of a site could change with time as a result of natural processes or the activities of man at the subject site or nearby sites. In addition, changes to the applicable laws, regulations, codes, and standards of practice may occur

due to government action or the broadening of knowledge. The findings of this report may, therefore, be invalidated over time, in part or in whole, by changes over which Ninyo & Moore has no control.

This report is intended exclusively for use by the client. Any use or reuse of the findings, conclusions, and/or recommendations of this report by parties other than the client is undertaken at said parties' sole risk.

17 REFERENCES

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FIGURES

NOTE: DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE. I REFERENCE: USGS, 2018.

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FIGURE 1

SITE LOCATION

SPANE PARK STORMWATER CAPTURE PROJECT
PARAMOUNT, CALIFORNIA

211892001 I 5/22

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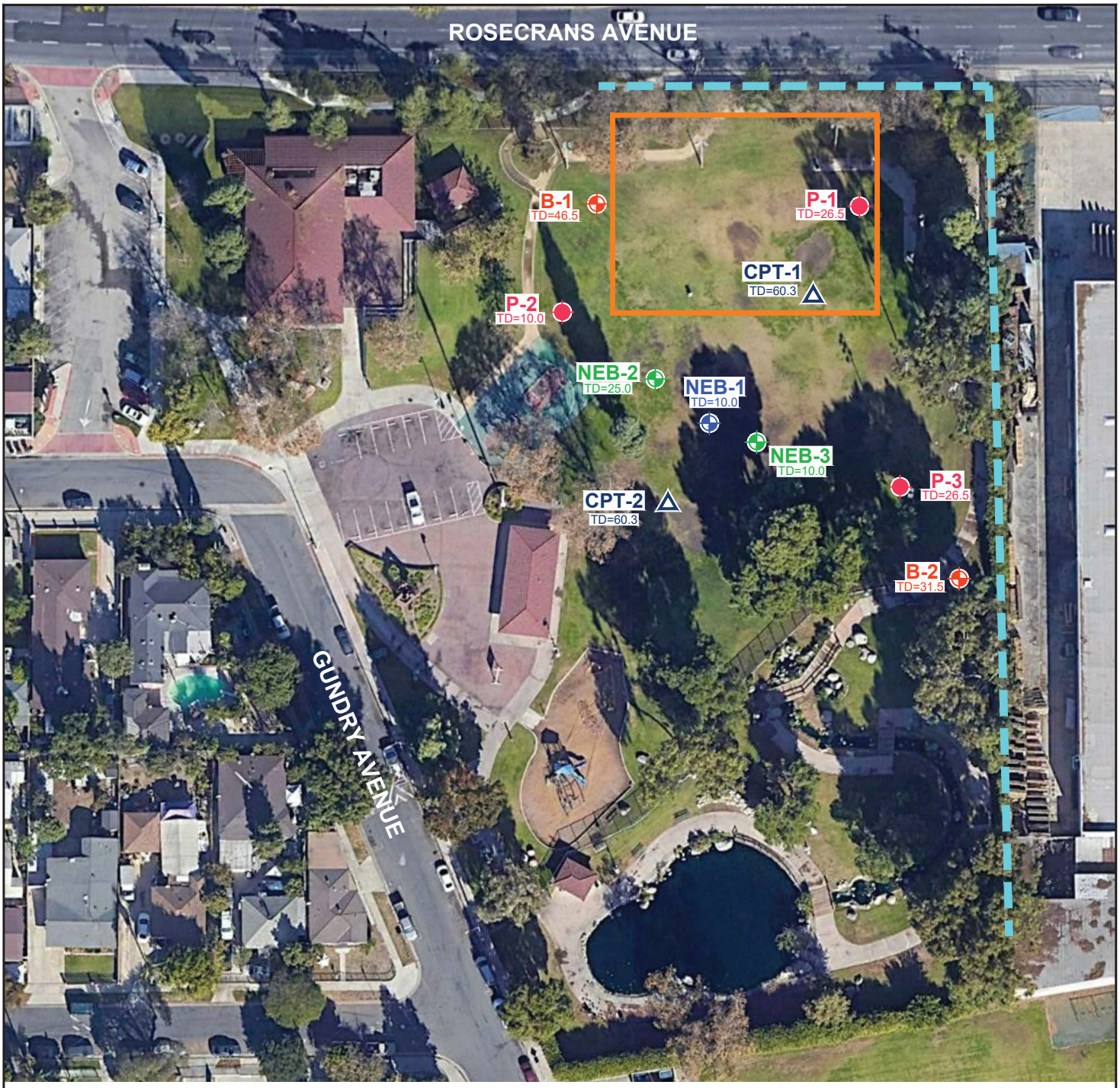
Geotechnical & Environmental Sciences Consultants



LEGEND

- B-2 TD=31.5 — BORING; TD=TOTAL DEPTH IN FEET
- P-3 TD=26.5 — BORING/PERCOLATION TEST; TD=TOTAL DEPTH IN FEET
- CPT-2 TD=60.3 — CONE PENETROMETER TEST; TD=TOTAL DEPTH IN FEET
- PROPOSED INFILTRATION GALLERY
- EXISTING RETAINING WALL
- NEB-3 TD=10.0 — BORING/PERCOLATION TEST; (NORCAL ENGINEERING, 2018) TD=TOTAL DEPTH IN FEET
- NEB-1 TD=41.5 — BORING; (NORCAL ENGINEERING, 2018) TD=TOTAL DEPTH IN FEET

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NOTE: DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE. I REFERENCE: GOOGLE EARTH, 2022.

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FIGURE 2

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SITE AERIAL PHOTOGRAPH

SPANE PARK STORMWATER CAPTURE PROJECT
PARAMOUNT, CALIFORNIA

211892001 I 5/22

LEGEND

B-2 TD=31.5	BORING; TD=TOTAL DEPTH IN FEET
P-3 TD=26.5	BORING/PERCOLATION TEST; TD=TOTAL DEPTH IN FEET
CPT-2 TD=60.3	CONE PENETROMETER TEST; TD=TOTAL DEPTH IN FEET
	PROPOSED INFILTRATION GALLERY
NEB-3 TD=10.0	BORING/PERCOLATION TEST; (NORCAL ENGINEERING, 2018) TD=TOTAL DEPTH IN FEET
NEB-1 TD=41.5	BORING; (NORCAL ENGINEERING, 2018) TD=TOTAL DEPTH IN FEET

NOTE: DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE. I REFERENCE: DAKE LANDSCAPE, 2022.

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FIGURE 3

SITE PLAN

SPANE PARK STORMWATER CAPTURE PROJECT
PARAMOUNT, CALIFORNIA

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Geotechnical & Environmental Sciences Consultants

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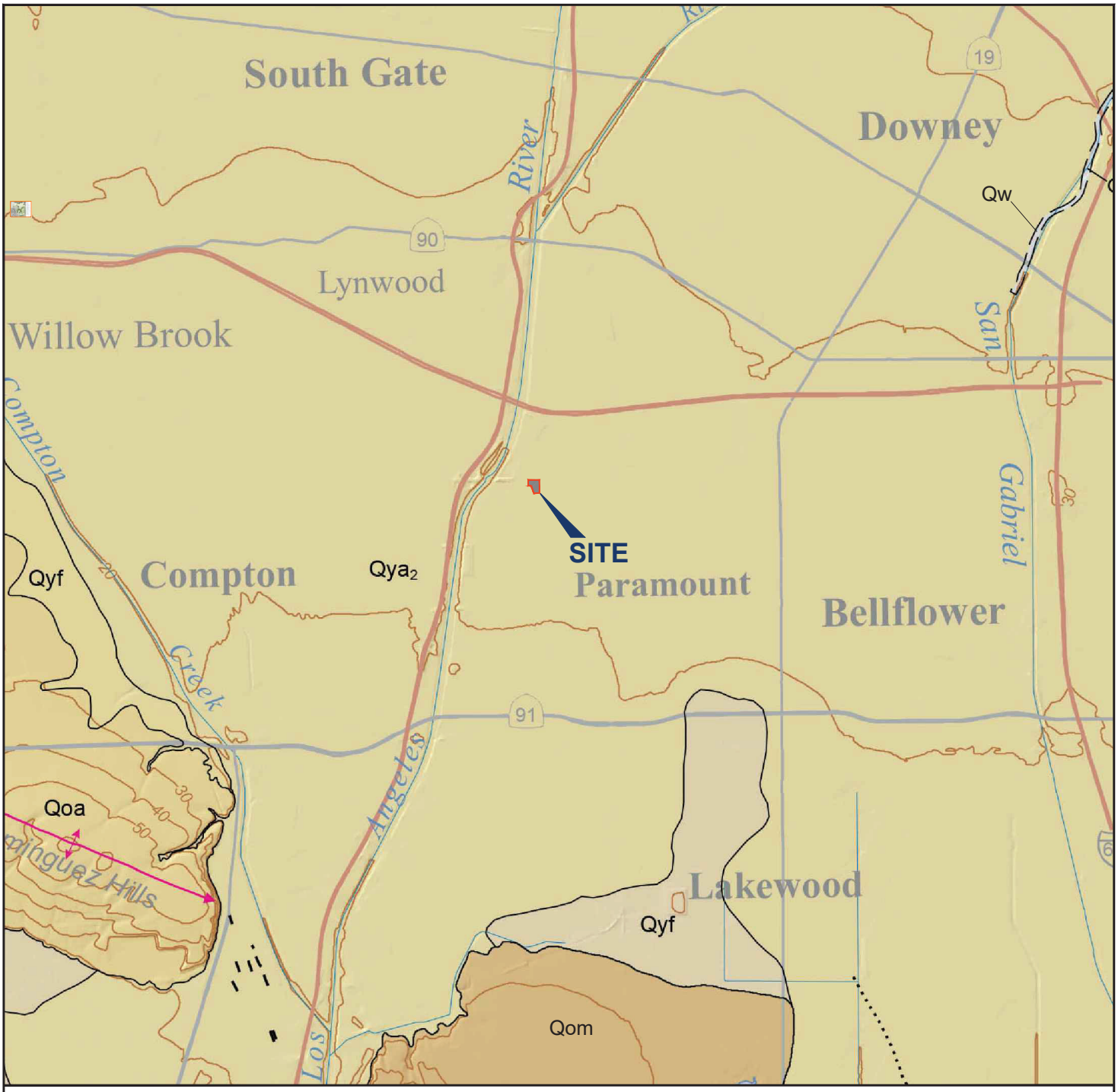

LEGEND

Qw	WASH DEPOSITS	Qom	OLD SHALLOW MARINE DEPOSITS
Qya_2	YOUNG ALLUVIUM		GEOLOGIC CONTACT; DASHED WHERE INFERRED;DOTTED WHERE CONCEALED
Qyf	YOUNG ALLUVIAL FAN DEPOSITS		FAULT; DASHED WHERE INFERRED; DOTTED WHERE CONCEALED
Qoa	OLD ALLUVIUM		

NOTE: DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE. I REFERENCE: SAUCEDO, G.J., ET AL., 2016.

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FIGURE 4

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REGIONAL GEOLOGY

SPANE PARK STORMWATER CAPTURE PROJECT
PARAMOUNT, CALIFORNIA

211892001 I 5/22

NOTE: DIRECTIONS, DIMENSIONS AND LOCATIONS ARE APPROXIMATE.

SOURCES: CALIFORNIA GEOLOGICAL SURVEY, ACCESSED APRIL 19, 2022, AT: https://www.usgs.gov/natural-hazards/earthquake-hazards/faults; ESRI, 2021.

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FIGURE 5

FAULT LOCATIONS

SPANE PARK STORMWATER CAPTURE PROJECT
PARAMOUNT, CALIFORNIA

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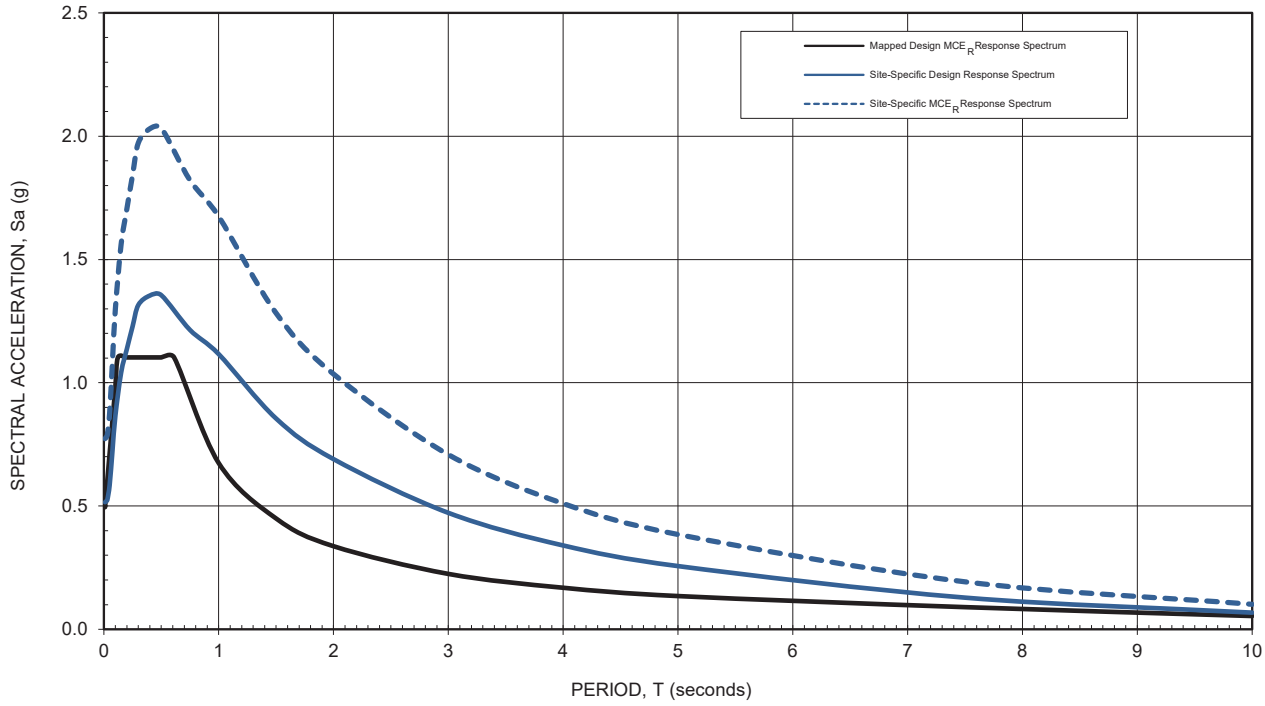
PERIOD (seconds)	SITE-SPECIFIC MCE_R RESPONSE SPECTRUM Sa (g)	SITE-SPECIFIC DESIGN RESPONSE SPECTRUM Sa (g)
0.010	0.773	0.515
0.020	0.779	0.519
0.030	0.788	0.525
0.050	0.877	0.584
0.075	1.089	0.726
0.100	1.300	0.866
0.150	1.561	1.041
0.200	1.705	1.136
0.250	1.843	1.229
0.300	1.973	1.315
0.400	2.030	1.353

PERIOD (seconds)	SITE-SPECIFIC MCE_R RESPONSE SPECTRUM Sa (g)	SITE-SPECIFIC DESIGN RESPONSE SPECTRUM Sa (g)
0.500	2.033	1.355
0.750	1.821	1.214
1.000	1.674	1.116
1.500	1.282	0.855
2.000	1.035	0.690
3.000	0.708	0.472
4.000	0.510	0.340
5.000	0.385	0.256
7.500	0.193	0.128
10.000	0.101	0.068

S_{DS} =	1.220 g	S_{D1} =	1.417 g	S_{MS} =	1.829 g	S_{M1} =	2.125 g	PGA_M =	0.772 g



NOTES:

1 The probabilistic ground motion spectral response accelerations are based on the risk-targeted Maximum Considered Earthquake (MCE_R) having a 2% probability of exceedance in 50 years in the maximum direction using the Chiou & Youngs (2014), Campbell & Bozorgnia (2014), Boore et al. (2014), and Abrahamson et al. (2014) attenuation relationships and the risk coefficients.

2 The deterministic ground motion spectral response accelerations are for the 84th percentile of the geometric mean values in the maximum direction using the Chiou & Youngs (2014), Campbell & Bozorgnia (2014), Boore et al. (2014), and Abrahamson et al. (2014) attenuation relationships for deep soil sites considering a Mw 7.3 event on the Compton fault zone located 10.4 kilometers from the site. It conforms with the lower bound limit per ASCE 7-16 Section 21.2.2.

3 The Site-Specific MCE_R Response Spectrum is the lesser of spectral ordinates of deterministic and probabilistic accelerations at each period per ASCE 7-16 Section 21.2.3. The Site-Specific Design Response Spectrum conforms with lower bound limit per ASCE 7-16 Section 21.3.

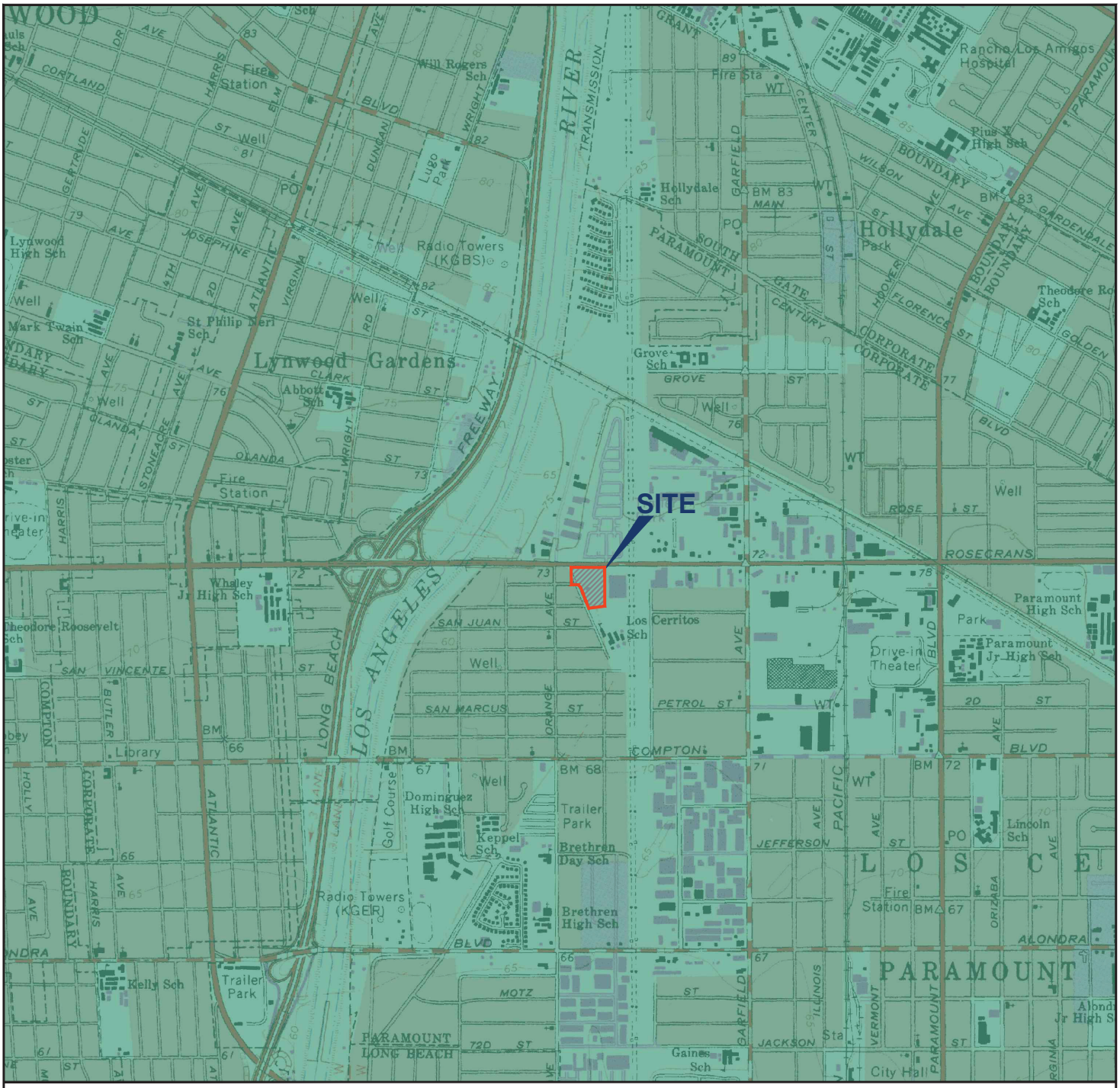
4 The Mapped Design MCE_R Response Spectrum is computed from mapped spectral ordinates modified for Site Class D (stiff soil profile) per ASCE 7-16 Section 11.4. It is presented for the sake of comparison.

FIGURE 6

ACCELERATION RESPONSE SPECTRA

SPANE PARK STORM WATER CAPTURE
PARAMOUNT, CALIFORNIA

Ninyo & Moore
Geotechnical & Environmental Sciences Consultants



LEGEND

LIQUEFACTION
Areas where historic occurrence of liquefaction, or local geological, geotechnical and groundwater conditions indicate a potential for permanent ground displacements such that mitigation as defined in Public Resources Code Section 2693(c) would be required.

NOTE: DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE. I REFERENCE: CDMG, 1999.

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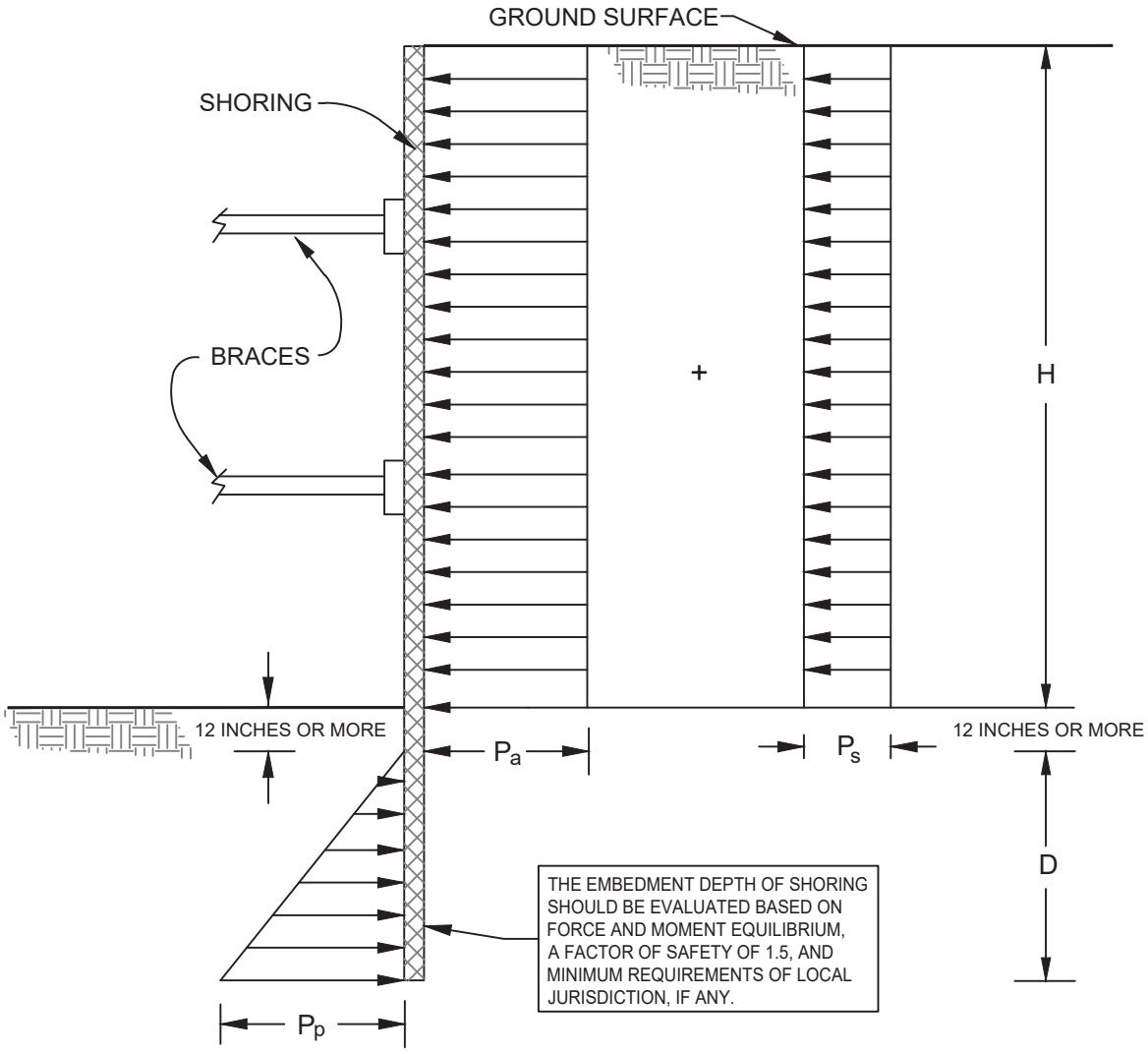
FIGURE 7

Ninyo & Moore
Geotechnical & Environmental Sciences Consultants

SEISMIC HAZARD ZONES

SPANE PARK STORMWATER CAPTURE PROJECT
PARAMOUNT, CALIFORNIA

211892001 I 5/22



NOTES:

1. APPARENT LATERAL EARTH PRESSURE, P_a
   P_a = 25H psf
2. CONSTRUCTION TRAFFIC INDUCED SURCHARGE PRESSURE, P_s
   P_s = 120 psf
3. PASSIVE LATERAL EARTH PRESSURE, P_p
   P_p = 350D psf
4. ASSUMES GROUNDWATER IS NOT PRESENT
5. SURCHARGES FROM EXCAVATED SOIL OR CONSTRUCTION MATERIALS ARE NOT INCLUDED
6. H AND D ARE IN FEET

NOT TO SCALE

8_211892001_LEP-BE(GS).dwg 04/19/2022 GK

FIGURE 8

LATERAL EARTH PRESSURES FOR BRACED EXCAVATION (GRANULAR SOIL)

SPANE PARK STORMWATER CAPTURE PROJECT
PARAMOUNT, CALIFORNIA

Ninyo & Moore
Geotechnical & Environmental Sciences Consultants

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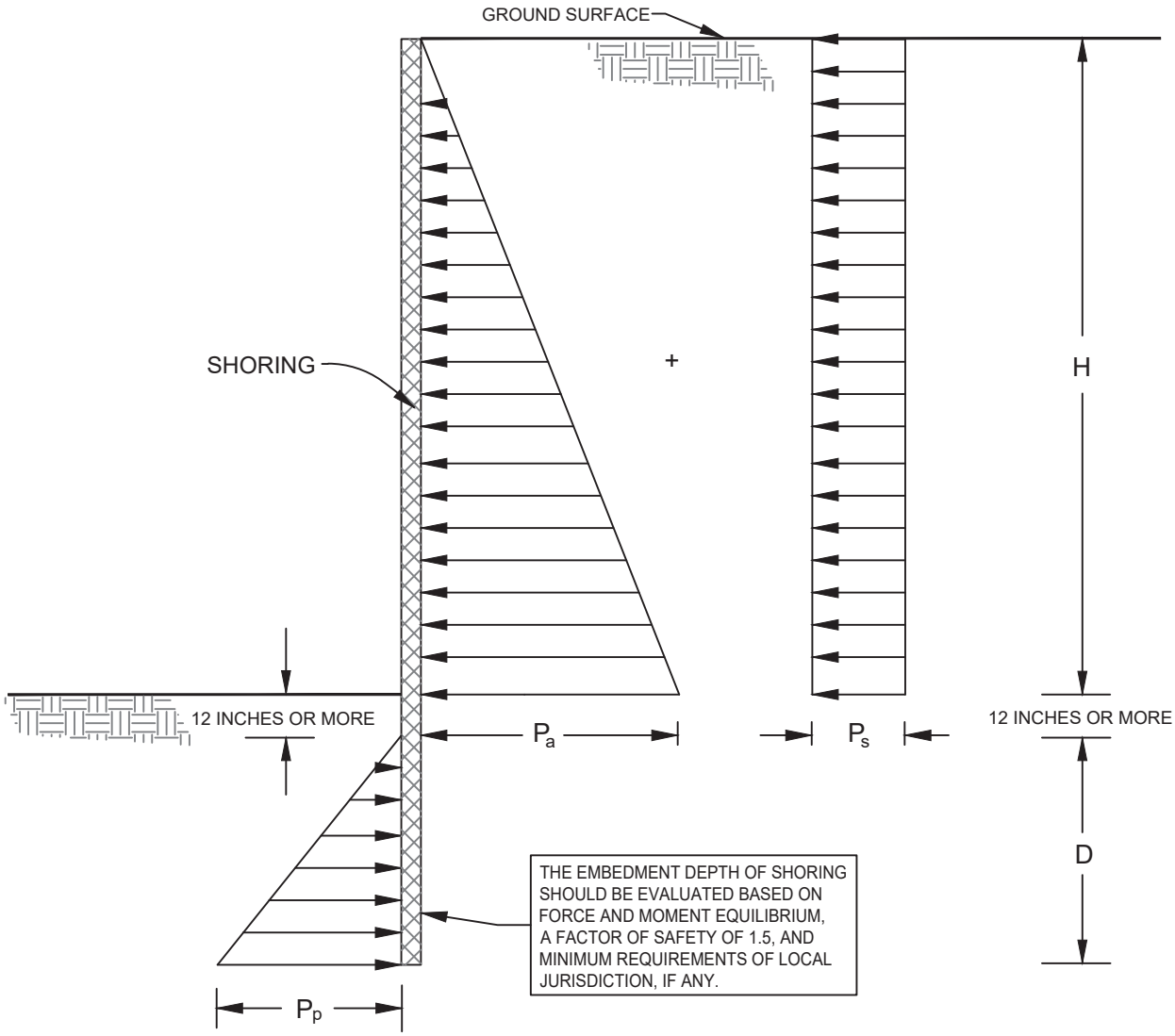

NOTES:

1. ACTIVE LATERAL EARTH PRESSURE, P_a
   P_a = 38H psf
2. CONSTRUCTION TRAFFIC INDUCED SURCHARGE PRESSURE, P_s
   P_s = 72 psf
3. PASSIVE LATERAL EARTH PRESSURE, P_p
   P_p = 350D psf
4. ASSUMES GROUNDWATER IS NOT PRESENT
5. H AND D ARE IN FEET

NOT TO SCALE

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FIGURE 9

LATERAL EARTH PRESSURES FOR TEMPORARY CANTILEVERED SHORING

SPANE PARK STORMWATER CAPTURE PROJECT
PARAMOUNT, CALIFORNIA

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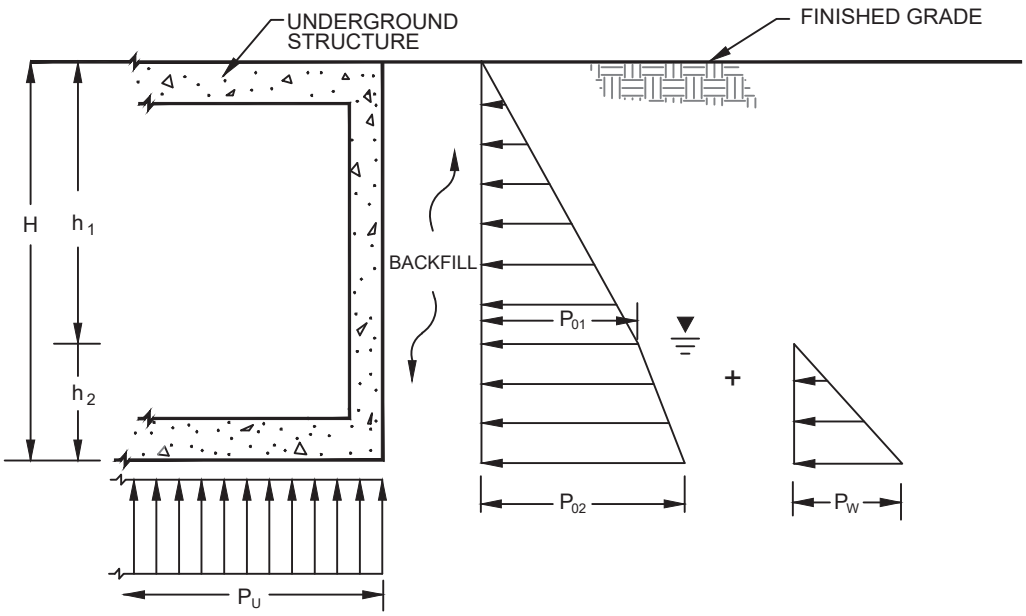

NOTES:

1. APPARENT LATERAL EARTH PRESSURES, P_{01} AND P_{02}
   $P_{01} = 58h_1$ psf
   $P_{02} = 58h_1 + 28h_2$ psf
2. HYDROSTATIC PRESSURE, P_w
   $P_w = 62.4h_2$ psf
3. UPLIFT PRESSURE, P_u
   $P_u = 62.4h_2$ psf
4. SURCHARGE PRESSURES CAUSED BY VEHICLES OR NEARBY STRUCTURES ARE NOT INCLUDED
5. H, h_1 AND h_2 ARE IN FEET
6. ▼ GROUNDWATER TABLE

NOT TO SCALE

FIGURE 10

LATERAL EARTH PRESSURES FOR UNDERGROUND STRUCTURES

SPANE PARK STORMWATER CAPTURE PROJECT
PARAMOUNT, CALIFORNIA

Ninyo & Moore
Geotechnical & Environmental Sciences Consultants

211892001 I 5/22

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APPENDIX A

Soil Infiltration Study Report by NorCal Engineering (2018)

NorCal Engineering

Soils and Geotechnical Consultants
10641 Humbolt Street Los Alamitos, CA 90720
(562) 799-9469 Fax (562) 799-9459

February 27, 2018 Project Number 20226-18

John L. Hunter and Associates, Inc.
6131 Orangethorpe Avenue, Suite 300
Buena Park, California 90620

Attn: John L. Hunter, P.E.

RE: **Soil Infiltration Study** – Spane Park at 14400 Gundry Avenue, in the City of Paramount, California

Dear Mr. Hunter:
Pursuant to your request, this firm has performed a Soil Infiltration Study for the above referenced project. The purpose of this study is to evaluate the feasibility of an on-site stormwater disposal system utilizing an infiltration vault. The scope of work included the following: 1) site reconnaissance; 2) subsurface geotechnical exploration; 3) infiltration testing; 4) engineering analysis of field data; and 5) preparation of this report.

Proposed Infiltration System

It is proposed to install an infiltration vault system in park area in order to retain and infiltrate water runoff into the subsurface soils. Depth of system is assumed to be within the upper 25 feet below grade.

Site Description

The property is located east of Gundry Avenue, in the City of Paramount, as shown on Figure 1. Rosecrans Avenue borders along the north. The site is a city park with community buildings, parking lots, playground equipment, sports courts and concrete walks and pond at the south end of the park. The area of the planned infiltration system is currently used as a baseball outfield. The land is relatively level and no apparent drainage direction was observed.

Groundwater

Groundwater was encountered at a depth of 38.5 feet (see boring B-1). Research of the *California Department of Conservation – Division of Mines and Geology Open File Report 98-25, Plate 1.2,* indicates a *historic* high groundwater level on the order of 10 feet below ground surface in the vicinity.

Methodology and Procedures

A truck mounted hollow stem auger drilling rig was used to excavate the test borings. The locations of the tests are shown on the attached Figure 2.

Two infiltration test borings (B-1 and B-2) to depths of 25 and 10 feet, respectively, below ground surface (bgs) were performed in order to establish preliminary infiltration rates for the design of the system. The borings encountered 24 to 30 inches of fill soils, as measured from existing surface, overlying medium dense/stiff and moist native soils classifying as silty SAND to sandy SILT.

Detailed descriptions of the subsurface soils are shown on the attached boring logs in Appendix B. The test borings were backfilled with the excavated soils and tamped at the completion of our field testing.

The test borings consisted of a 6-inch diameter hole. A 3-inch diameter perforated PVC casing with solid end cap was installed in the borings and then surrounded with gravel materials to prevent caving. The boreholes were then filled with water for pre-soaking purposes. Based upon the results of pre-soaking, test B-3 was measured at 30 minute increments for 8 additional readings.

Based upon the rapid drop in the water level in B-2 the initial pre-soak period, the holes were measured at 10-minute maximum intervals for eight additional readings. The measurements were obtained by using an electronic tape measure with 1/16-inch divisions and timed with a stopwatch.

Discussion of Results

Based upon the results of our testing, the underlying soils exhibit various percolation rates based on the amount of fines in the soil layers. The field infiltration test data and our field infiltration rate calculations are listed below and included in Appendix B.

Test No.	Depth (feet bgs)	Soil Type	Field Infiltration rate
B-2	25	sandy SILT	1.8 in/hr
B-3	10	silty SAND	48 in/hr

The soils at 10 and 25 feet below grade are deemed suitable for infiltration. The design infiltration rates should utilize a safety factor of 2.0, as described below.

a) The reduction factor - $R_f = CF_t$ and Rf = 3.0 to 4.33 for the field infiltration tests.

b) CF_v = 1.0 based on sandy silt and silty sand soils encountered in the test borings at depths of 10 and 25 feet.

   CF_s = 2.0 for long-term siltation, plugging and maintenance. The silty SAND soils are likely to have some plugging and regular maintenance of storm water discharge devices is required.

Existing groundwater is located at 38.5 feet below existing grade; there should be a minimum of 10 vertical feet separation between bottom of infiltration system and existing groundwater.

The potential of settlement of proposed or existing structures located at least 10 feet from any infiltration pit is low. In addition, the potential for hydro-consolidation and the susceptibility for any ground settlements are considered low. All systems shall meet the California Regional Water Quality Control Board (CRWQCB) requirements.

Closure

The use of an on-site disposal system appears to be geotechnically feasible for future development provided the low infiltration rates as give are used in the design. All systems must meet the California Regional Water Quality Control Board (CRWQCB) requirements. The recommendations and conclusions contained in this report are based upon the soil conditions uncovered in our test excavations.

No warranty of the soil condition between our excavations is implied. NorCal Engineering should be notified for possible further recommendations if unexpected to unfavorable conditions are encountered during construction phase.

This firm should have the opportunity to review the final plans to verify that all our recommendations are incorporated. This report and all conclusions are subject to the review of the controlling authorities for the project. Our representative should be present during the grading operations and construction phase to certify that such recommendations are complied within the field.

This study has been conducted in a manner consistent with the level of care and skill exercised by members of our profession currently practicing under similar conditions in the Southern California area. No other warranty, expressed or implied is made.

We appreciate this opportunity to be of service to you. If you have any further questions, please do not hesitate to contact the undersigned.

Respectfully submitted,
NORCAL ENGINEERING

REGISTERED PROFESSIONAL ENGINEER
KEITH D. TUCKER
No. 841
Exp. 12/31/18
GEOTECHNICAL
STATE OF CALIFORNIA

Keith D. Tucker
Project Engineer
R.G.E. 841

Mark A. Burkholder
Project Manager

List of Appendices
(in order of appearance)

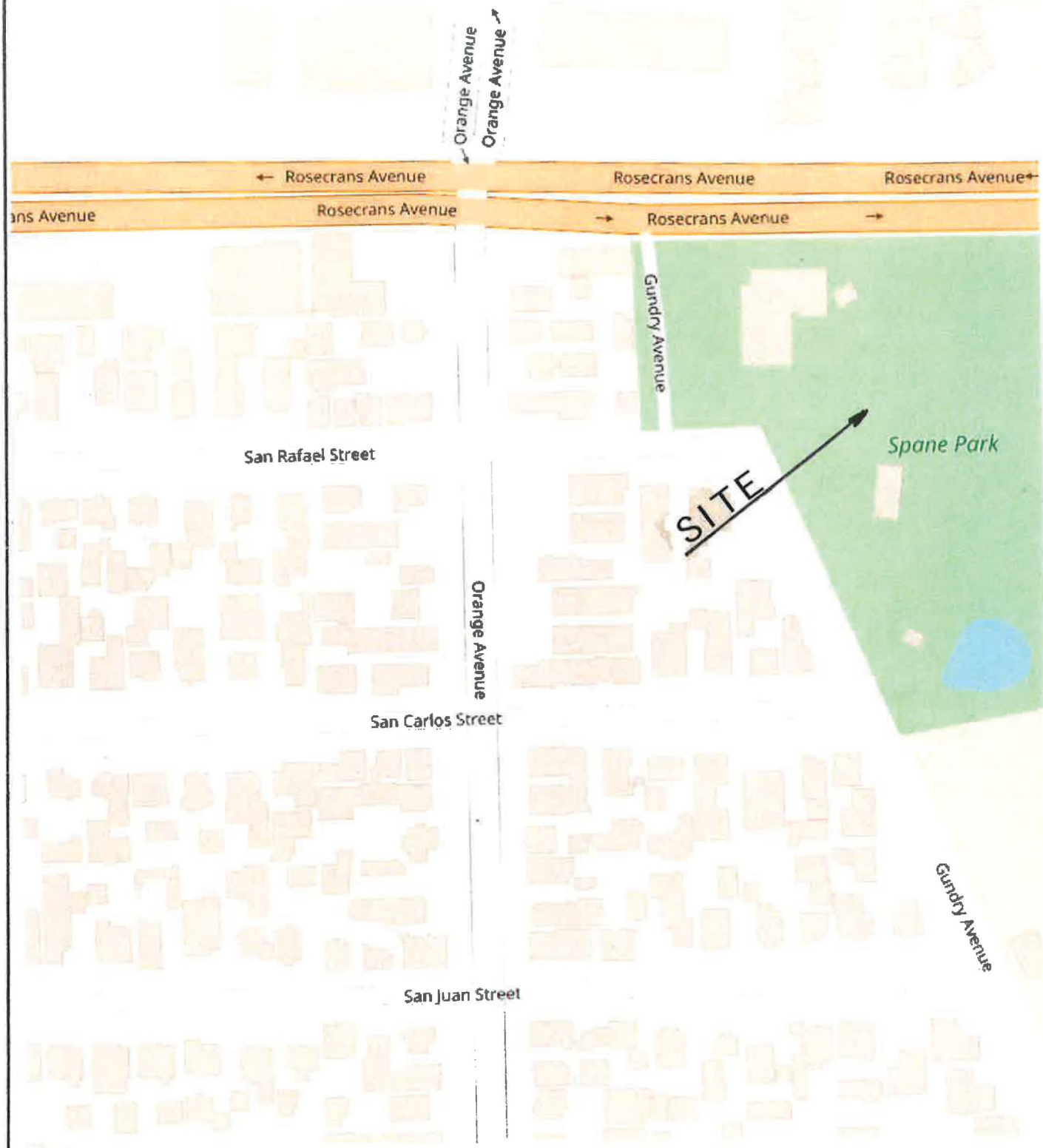
Appendix A

- Vicinity Map and Site Plan

Appendix B

- Log of Groundwater Verification Boring B-1
- Logs of Test Borings B-2 and B-3
- Infiltration Field Test Data
- Infiltration Test Calculations

Appendix A



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VICINITY MAP

PROJECT 20226-18 | DATE 2/2018

FIG. 1

Draft: Spane Park Storm Water Treatment

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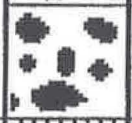
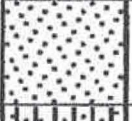
APPROXIMATE LOCATIONS OF
TEST EXPLORATIONS

PROJECT 20226-18 | DATE 2/2018 | FIG. 2

Appendix B

MAJOR DIVISION			GRAPHIC SYMBOL	LETTER SYMBOL	TYPICAL DESCRIPTIONS
COARSE GRAINED SOILS	GRAVEL AND GRAVELLY SOILS	CLEAN GRAVELS (LITTLE OR NO FINES)		GW	WELL-GRADED GRAVELS, GRAVEL, SAND MIXTURES, LITTLE OR NO FINES
				GP	POORLY-GRADED GRAVELS, GRAVEL-SAND MIXTURES, LITTLE OR NO FINES
	MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVELS WITH FINES (APPRECIABLE AMOUNT OF FINES)		GM	SILTY GRAVELS, GRAVEL-SAND-SILT MIXTURES
				GC	CLAYEY GRAVELS, GRAVEL-SAND-CLAY MIXTURES
MORE THAN 50% OF MATERIAL IS LARGER THAN NO. 200 SIEVE SIZE	SAND AND SANDY SOILS	CLEAN SAND (LITTLE OR NO FINES)		SW	WELL-GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES
				SP	POORLY-GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES
	MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SANDS WITH FINE (APPRECIABLE AMOUNT OF FINES)		SM	SILTY SANDS, SAND-SILT MIXTURES
				SC	CLAYEY SANDS, SAND-CLAY MIXTURES
FINE GRAINED SOILS	SILTS AND CLAYS	LIQUID LIMIT LESS THAN 50		ML	INORGANIC SILTS AND VERY FINE SANDS, ROCK FLOUR, SILTY OR CLAYEY FINE SANDS OR CLAYEY SILTS WITH SLIGHT PLASTICITY
				CL	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
				OL	ORGANIC SILTS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY
MORE THAN 50% OF MATERIAL IS SMALLER THAN NO. 200 SIEVE SIZE	SILTS AND CLAYS	LIQUID LIMIT GREATER THAN 50		MH	INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS FINE SAND OR SILTY SOILS
				CH	INORGANIC CLAYS OF HIGH PLASTICITY, FAT CLAYS
				OH	ORGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY, ORGANIC SILTS
HIGHLY ORGANIC SOILS				PT	PEAT, HUMUS, SWAMP SOILS WITH HIGH ORGANIC CONTENTS

NOTE: DUAL SYMBOLS ARE USED TO INDICATE BORDERLINE SOIL CLASSIFICATIONS

UNIFIED SOIL CLASSIFICATION SYSTEM

KEY:

- ■ Indicates 2.5-inch Inside Diameter. Ring Sample.
- ⊠ Indicates 2-inch OD Split Spoon Sample (SPT).
- ⧅ Indicates Shelby Tube Sample.
- ◫ Indicates No Recovery.
- ◧ Indicates SPT with 140# Hammer 30 in. Drop.
- ⊠ Indicates Bulk Sample.
- ◩ Indicates Small Bag Sample.
- ◨ Indicates Non-Standard
- ⊠ Indicates Core Run.

COMPONENT PROPORTIONS

DESCRIPTIVE TERMS	RANGE OF PROPORTION
Trace	1 - 5%
Few	5 - 10%
Little	10 - 20%
Some	20 - 35%
And	35 - 50%

COMPONENT DEFINITIONS

COMPONENT	SIZE RANGE
Boulders	Larger than 12 in
Cobbles	3 in to 12 in
Gravel	3 in to No 4 (4.5mm)
Coarse gravel	3 in to 3/4 in
Fine gravel	3/4 in to No 4 (4.5mm)
Sand	No. 4 (4.5mm) to No. 200 (0.074mm)
Coarse sand	No. 4 (4.5 mm) to No. 10 (2.0 mm)
Medium sand	No. 10 (2.0 mm) to No. 40 (0.42 mm)
Fine sand	No. 40 (0.42 mm) to No. 200 (0.074 mm)
Silt and Clay	Smaller than No. 200 (0.074 mm)

MOISTURE CONTENT

DRY	Absence of moisture, dusty, dry to the touch.
DAMP	Some perceptible moisture; below optimum
MOIST	No visible water; near optimum moisture content
WET	Visible free water, usually soil is below water table.

RELATIVE DENSITY OR CONSISTENCY VERSUS SPT N -VALUE

COHESIONLESS SOILS		COHESIVE SOILS		
Density	N (blows/ft)	Consistency	N (blows/ft)	Approximate Undrained Shear Strength (psf)
Very Loose	0 to 4	Very Soft	0 to 2	< 250
Loose	4 to 10	Soft	2 to 4	250 - 500
Medium Dense	10 to 30	Medium Stiff	4 to 8	500 - 1000
Dense	30 to 50	Stiff	8 to 15	1000 - 2000
Very Dense	over 50	Very Stiff	15 to 30	2000 - 4000
		Hard	over 30	> 4000

John L Hunter & Associates
20226-18

Log of Boring B-1

Boring Location: 14400 Gundry Ave., Paramount	
Date of Drilling: 2/6/18	Groundwater Depth: 38.5
Drilling Method: Drill Rig	
Hammer Weight: 140 lbs	Drop: 30"
Surface Elevation: Not Measured	

Depth (feet)	Lith-ology	Material Description	Samples: Type	Samples: Blow Counts	Laboratory: Moisture	Laboratory: Dry Density	Laboratory: Fines Content %
0		FILL SOILS Silty SAND with occasional gravel and rootlets Brown, medium dense, moist					
		NATURAL SOILS Fine grained Silty SAND Brown, medium dense, moist					
5							
		Slightly silty SAND Light brown to grey, medium dense, damp					
10							
15							
		Sandy SILT to Silty SAND Brown, medium stiff/dense, moist					
20							
25							
		Sandy clayey SILT Dark grey, medium stiff, moist					
30							
35							

SuperLog CivilTech Software, USA www.civiltech.com File: C:\Superlog4\PROJECT\20226-18.log Date: 2/28/2018

NorCal Engineering

John L Hunter & Associates 20226-18	Log of Boring B-1

Boring Location: 14400 Gundry Ave., Paramount	
Date of Drilling: 2/6/18	Groundwater Depth: 38.5
Drilling Method: Drill Rig	
Hammer Weight: 140 lbs	Drop: 30"
Surface Elevation: Not Measured	

Depth (feet)	Lith-ology	Material Description	Samples		Laboratory		
			Type	Blow Counts	Moisture	Dry Density	Fines Content %
35		Sandy clayey SILT Dark grey, medium stiff, moist					
		Slightly silty SAND Dark grey, dense, wet					
40		Boring completed at depth of 41.5'					
45							
50							
55							
60							
65							
70							

SuperLog CivilTech Software, USA www.civiltech.com File: C:\Superlog4\PROJECT\20226-18.log Date: 2/28/2018

John L Hunter & Associates
20226-18

Log of Boring B-2

Boring Location: 14400 Gundry Ave., Paramount	
Date of Drilling: 2/6/18	Groundwater Depth: None Encountered
Drilling Method: Drill Rig	
Hammer Weight: 140 lbs	Drop: 30"
Surface Elevation: Not Measured	

Depth (feet)	Lith-ology	Material Description	Samples: Type	Samples: Blow Counts	Laboratory: Moisture	Laboratory: Dry Density	Laboratory: Fines Content %
0		FILL SOILS Silty SAND with occasional gravel and rootlets Brown, medium dense, moist					
		NATURAL SOILS Fine grained Silty SAND Brown, medium dense, moist					
5							
		Slightly silty SAND Light brown to grey, medium dense, damp					
10							
15							
		Sandy SILT to Silty SAND Brown, medium stiff/dense, moist					
20							
25		Boring completed at depth of 25'					
30							
35							

GWT not encountered

SuperLog CivilTech Software, USA www.civiltech.com File: C:\Superlog4\PROJECT\20226-18.log Date: 2/28/2018

NorCal Engineering

John L Hunter & Associates
20226-18

Log of Boring B-3

Boring Location: 14400 Gundry Ave., Paramount

Date of Drilling: 2/6/18 | **Groundwater Depth:** None Encountered

Drilling Method: Drill Rig

Hammer Weight: 140 lbs | **Drop:** 30"

Surface Elevation: Not Measured

Depth (feet)	Lith-ology	Material Description	Samples: Type	Samples: Blow Counts	Laboratory: Moisture	Laboratory: Dry Density	Laboratory: Fines Content %
0		FILL SOILS Silty SAND with occasional gravel and rootlets Brown, medium dense, moist					
		NATURAL SOILS Fine grained Silty SAND Brown, medium dense, moist					
5		GWT not encountered					
		Slightly silty SAND Light brown to grey, medium dense, damp					
10		Boring completed at depth of 10'					
15							
20							
25							
30							
35							

SuperLog CivilTech Software, USA www.civiltech.com File: C:\Superlog4\PROJECT\20226-18.log Date: 2/28/2018

NORCAL ENGINEERING

SOILS AND GEOTECHNICAL CONSULTANTS

PERCOLATION TEST DATA

Client:	**John L Hunter and Associates**		
Project No:	20226-18	**Tested By:**	J.S.
Test Hole:	B-2	**Date Tested:**	2/6/18
Depth of Test Hole:	25'	**Caving:**	
Diameter of Test Hole:	6"	**Notes:**	
Date Excavated:	2/6/18		

PRE-SOAK

TIME	PRE-SOAK NO.	TIME INTERVAL	TOTAL ELAPSED TIME	INITIAL WATER LEVEL	FINAL WATER LEVEL	CHANGE IN WATER LEVEL
9:05	1	30	30	284.5	295.0	10.5
9:35						
9:35	2	30	60	286.5	294.0	7.5
10:05						

PERCOLATION TEST

TIME	PRE-SOAK NO.	TIME INTERVAL	TOTAL ELAPSED TIME	INITIAL WATER LEVEL	FINAL WATER LEVEL	CHANGE IN WATER LEVEL
2:05	1	30	30	287.0	294.0	7.0
2:35						
2:35	2	30	60	286.0	291.0	5.0
3:05						
3:05	3	30	90	287.5	291.5	4.0
3:35						
3:35	4	30	120	288.0	292.0	4.0
4:05						
4:05	5	30	150	287.5	291.5	4.0
4:35						
4:35	6	30	180	288.0	292.0	4.0
5:05						
5:05	7	30	210	288.0	292.0	4.0
5:35						
5:35	8	30	240	288.0	292.0	4.0
6:05						

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NORCAL ENGINEERING

SOILS AND GEOTECHNICAL CONSULTANTS

PERCOLATION TEST DATA

Client:	**John L Hunter and Associates**		
Project No:	20226-18	**Tested By:**	J.S.
Test Hole:	B-3	**Date Tested:**	2/6/18
Depth of Test Hole:	10'	**Caving:**	
Diameter of Test Hole:	6"	**Notes:**	
Date Excavated:	2/6/18		

PRE-SOAK

TIME	PRE-SOAK NO.	TIME INTERVAL	TOTAL ELAPSED TIME	INITIAL WATER LEVEL	FINAL WATER LEVEL	CHANGE IN WATER LEVEL
9:37	1	3	3	107.0	120.0	13.0
9:40						
9:40	2	4	7	106.0	120.0	14.0
9:44						

PERCOLATION TEST

TIME	PRE-SOAK NO.	TIME INTERVAL	TOTAL ELAPSED TIME	INITIAL WATER LEVEL	FINAL WATER LEVEL	CHANGE IN WATER LEVEL
9:44	1	3	3	107.0	120.0	13.0
9:47						
9:47	2	4	7	107.0	120.0	13.0
9:51						
9:51	3	4	11	107.0	120.0	13.0
9:55						
9:55	4	6	17	107.0	120.0	13.0
10:01						
10:01	5	6	23	107.0	120.0	13.0
10:07						
10:07	6	5	28	108.0	120.0	12.0
10:12						
10:12	7	5	33	107.5	120.0	12.5
10:17						
10:17	8	5	38	107.0	120.0	13.0
10:22						

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SOIL INFILTRATION RATE CALCS ⇒ Auger Boring

location:	B-2	B-3
• Depth =	25'	10'
• Hole Dia. =	6"	6"
• Drop = Δd	4"	12"
• Time = Δt Interval	30 min	5 min
• Preadjusted Perc. Rate	8 in/hr	144 in/hr
• Initial Water Depth = d_i	12"	12"
• Reduction Factor = R_f	4.33	3.0
• INFILTRATION RATE	1.85 in/hr	48 in/hr

$$\text{Infiltration Rate} = \frac{\text{Pre adjusted Perc. Rate}}{\text{Reduction Factor}}$$

$$\text{Reduction Factor} = R_f = \left[\frac{2 \cdot d_i - \Delta d}{\text{Dia.}}\right] + 1$$

NorCal Engineering
SOILS AND GEOTECHNICAL CONSULTANTS

DATE

APPENDIX B

Boring Logs

APPENDIX B

BORING LOGS

Field Procedure for the Collection of Disturbed Samples
Disturbed soil samples were obtained in the field using the following method.

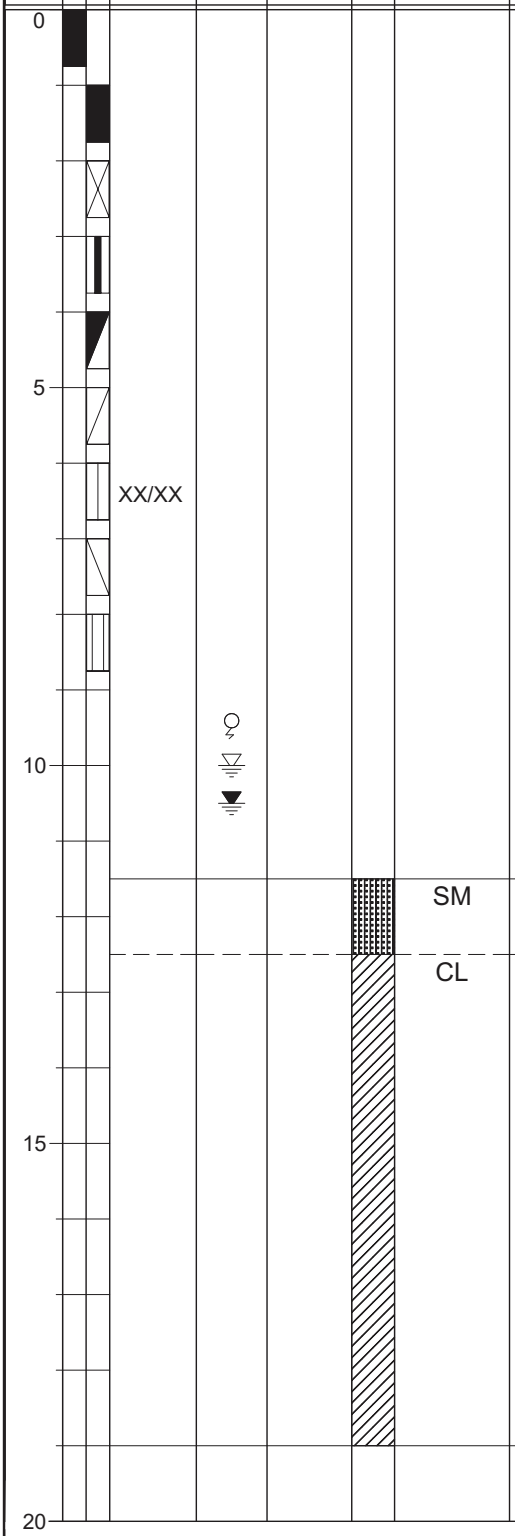
Bulk Samples
Bulk samples of representative earth materials were obtained from the exploratory borings. The samples were bagged and transported to the laboratory for testing.

The Standard Penetration Test (SPT) Sampler
Disturbed drive samples of earth materials were obtained by means of a Standard Penetration Test sampler. The sampler is composed of a split barrel with an external diameter of 2 inches and an unlined internal diameter of $1^3/_8$ inches. The sampler was driven into the ground 12 to 18 inches with a 140-pound hammer falling freely from a height of 30 inches in general accordance with ASTM D 1586. The blow counts were recorded for every 6 inches of penetration; the blow counts reported on the logs are those for the last 12 inches of penetration. Soil samples were observed and removed from the sampler, bagged, sealed and transported to the laboratory for testing.

Field Procedure for the Collection of Relatively Undisturbed Samples
Relatively undisturbed soil samples were obtained in the field using the following method.

The Modified Split-Barrel Drive Sampler
The sampler, with an external diameter of 3 inches, was lined with 1-inch-long, thin brass rings with inside diameters of approximately 2.4 inches. The sample barrel was driven into the ground with the weight of a hammer in general accordance with ASTM D 3550. The driving weight was permitted to fall freely. The approximate length of the fall, the weight of the hammer, and the number of blows per foot of driving are presented on the boring logs as an index to the relative resistance of the materials sampled. The samples were removed from the sample barrel in the brass rings, sealed, and transported to the laboratory for testing.

BORING LOG EXPLANATION SHEET



Bulk sample.

Modified split-barrel drive sampler.

No recovery with modified split-barrel drive sampler.

Sample retained by others.

Standard Penetration Test (SPT).

No recovery with a SPT.

Shelby tube sample. Distance pushed in inches/length of sample recovered in inches.

No recovery with Shelby tube sampler.

Continuous Push Sample.

Seepage.

Groundwater encountered during drilling.

Groundwater measured after drilling.

SM

MAJOR MATERIAL TYPE (SOIL):

Solid line denotes unit change.

CL

Dashed line denotes material change.

Attitudes: Strike/Dip
b: Bedding
c: Contact
j: Joint
f: Fracture
F: Fault
cs: Clay Seam
s: Shear
bss: Basal Slide Surface
sf: Shear Fracture
sz: Shear Zone
sbs: Shear Bedding Surface

The total depth line is a solid line that is drawn at the bottom of the boring.

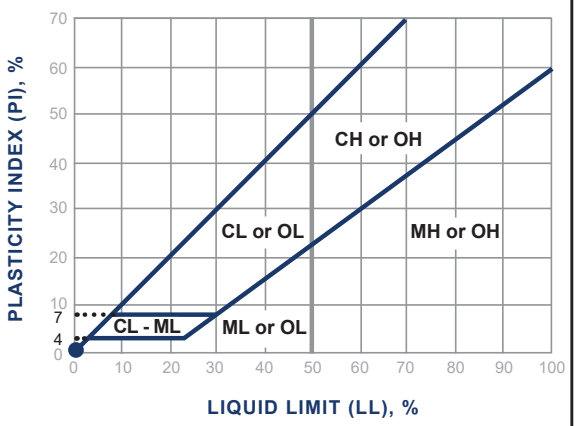
Soil Classification Chart Per ASTM D 2488

Primary Divisions			Secondary Divisions	
			Group Symbol	Group Name
COARSE-GRAINED SOILS more than 50% retained on No. 200 sieve	**GRAVEL** more than 50% of coarse fraction retained on No. 4 sieve	CLEAN GRAVEL less than 5% fines	GW	well-graded GRAVEL
			GP	poorly graded GRAVEL
		GRAVEL with DUAL CLASSIFICATIONS 5% to 12% fines	GW-GM	well-graded GRAVEL with silt
			GP-GM	poorly graded GRAVEL with silt
			GW-GC	well-graded GRAVEL with clay
			GP-GC	poorly graded GRAVEL with clay
		GRAVEL with FINES more than 12% fines	GM	silty GRAVEL
			GC	clayey GRAVEL
			GC-GM	silty, clayey GRAVEL
	SAND 50% or more of coarse fraction passes No. 4 sieve	CLEAN SAND less than 5% fines	SW	well-graded SAND
			SP	poorly graded SAND
		SAND with DUAL CLASSIFICATIONS 5% to 12% fines	SW-SM	well-graded SAND with silt
			SP-SM	poorly graded SAND with silt
			SW-SC	well-graded SAND with clay
			SP-SC	poorly graded SAND with clay
		SAND with FINES more than 12% fines	SM	silty SAND
			SC	clayey SAND
			SC-SM	silty, clayey SAND
FINE-GRAINED SOILS 50% or more passes No. 200 sieve	**SILT and CLAY** liquid limit less than 50%	INORGANIC	CL	lean CLAY
			ML	SILT
			CL-ML	silty CLAY
		ORGANIC	OL (PI > 4)	organic CLAY
			OL (PI < 4)	organic SILT
	SILT and CLAY liquid limit 50% or more	INORGANIC	CH	fat CLAY
			MH	elastic SILT
		ORGANIC	OH (plots on or above "A"-line)	organic CLAY
			OH (plots below "A"-line)	organic SILT
	Highly Organic Soils		PT	Peat

Grain Size

Description		Sieve Size	Grain Size	Approximate Size
Boulders		> 12"	> 12"	Larger than basketball-sized
Cobbles		3 - 12"	3 - 12"	Fist-sized to basketball-sized
Gravel	Coarse	3/4 - 3"	3/4 - 3"	Thumb-sized to fist-sized
	Fine	#4 - 3/4"	0.19 - 0.75"	Pea-sized to thumb-sized
Sand	Coarse	#10 - #4	0.079 - 0.19"	Rock-salt-sized to pea-sized
	Medium	#40 - #10	0.017 - 0.079"	Sugar-sized to rock-salt-sized
	Fine	#200 - #40	0.0029 - 0.017"	Flour-sized to sugar-sized
Fines		Passing #200	< 0.0029"	Flour-sized and smaller

Plasticity Chart



Apparent Density - Coarse-Grained Soil

Apparent Density	Spooling Cable or Cathead		Automatic Trip Hammer	
	SPT (blows/foot)	Modified Split Barrel (blows/foot)	SPT (blows/foot)	Modified Split Barrel (blows/foot)
Very Loose	≤ 4	≤ 8	≤ 3	≤ 5
Loose	5 - 10	9 - 21	4 - 7	6 - 14
Medium Dense	11 - 30	22 - 63	8 - 20	15 - 42
Dense	31 - 50	64 - 105	21 - 33	43 - 70
Very Dense	> 50	> 105	> 33	> 70

Consistency - Fine-Grained Soil

Consis-tency	Spooling Cable or Cathead		Automatic Trip Hammer	
	SPT (blows/foot)	Modified Split Barrel (blows/foot)	SPT (blows/foot)	Modified Split Barrel (blows/foot)
Very Soft	< 2	< 3	< 1	< 2
Soft	2 - 4	3 - 5	1 - 3	2 - 3
Firm	5 - 8	6 - 10	4 - 5	4 - 6
Stiff	9 - 15	11 - 20	6 - 10	7 - 13
Very Stiff	16 - 30	21 - 39	11 - 20	14 - 26
Hard	> 30	> 39	> 20	> 26

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USCS METHOD OF SOIL CLASSIFICATION

DATE DRILLED 3/16/22 BORING NO. B-1

GROUND ELEVATION 77' ± (MSL) SHEET 1 OF 2

METHOD OF DRILLING 8" Hollow-Stem Auger (MR Drilling)

DRIVE WEIGHT 140 lbs. (Auto. Trip Hammer) DROP 30"

SAMPLED BY ANP LOGGED BY ANP REVIEWED BY GMC

DEPTH (feet)	SAMPLES (Bulk / Driven)	BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	SYMBOL	CLASSIFICATION U.S.C.S.	DESCRIPTION/INTERPRETATION
0						ML	FILL: Light brown, moist, medium dense, SILT with sand; trace gravel; asphalt concrete and concrete debris.
							Loose.
		6				SM	YOUNG ALLUVIUM: Grayish brown, moist, loose, silty SAND; interbedded with silt.
10		11				ML	Olive brown, moist, loose, sandy SILT.
		10				SM	Olive brown, moist, medium dense, silty SAND; trace gravel.
20		12	25.2	95.9		ML	Olive brown, moist, loose, SILT with sand.
							Grayish brown.
		14					Gray; medium dense.
30		15	33.7	89.8		CL	Gray, moist, very stiff, lean CLAY; interbedded with very thin laminae of sand.
		18				SP-SM	Light gray, moist, medium dense, poorly graded SAND with silt.
40							

FIGURE B- 1

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SPANE PARK STORMWATER CAPTURE PROJECT
PARAMOUNT, CALIFORNIA

DATE DRILLED 3/16/22 BORING NO. B-1

GROUND ELEVATION 77' ± (MSL) SHEET 2 OF 2

METHOD OF DRILLING 8" Hollow-Stem Auger (MR Drilling)

DRIVE WEIGHT 140 lbs. (Auto. Trip Hammer) DROP 30"

SAMPLED BY ANP LOGGED BY ANP REVIEWED BY GMC

DEPTH (feet)	SAMPLES (Bulk / Driven)	BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	SYMBOL	CLASSIFICATION U.S.C.S.	DESCRIPTION/INTERPRETATION
40		31	8.1	104.7		SP-SM	YOUNG ALLUVIUM: (Continued) Light gray, moist, medium dense, poorly graded SAND with silt.
		24				ML	Dark gray, moist, dense, SILT with sand.
							Total Depth = 46.5 feet. Groundwater was not encountered during drilling. Boring left open for approximately 20 hours. Groundwater still not present at that time. Backfilled with cement-bentonite grout on 3/17/22. Notes: Groundwater, though not encountered at the time of drilling, may rise to a higher level due to seasonal variations in precipitation and several other factors as discussed in the report. The ground elevation shown above is an estimation only. It is based on our interpretations of published maps and other documents reviewed for the purposes of this evaluation. It is not sufficiently accurate for preparing construction bids and design documents.
50							
60							
70							
80							

DATE DRILLED 3/17/22 BORING NO. B-2

GROUND ELEVATION 85' ± (MSL) SHEET 1 OF 1

METHOD OF DRILLING 8" Hollow-Stem Auger (MR Drilling)

DRIVE WEIGHT 140 lbs. (Auto. Trip Hammer) DROP 30"

SAMPLED BY ANP LOGGED BY ANP REVIEWED BY GMC

DEPTH (feet)	SAMPLES (Bulk / Driven)	BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	SYMBOL	CLASSIFICATION U.S.C.S.	DESCRIPTION/INTERPRETATION
0						ML	FILL: Olive brown, moist, loose, SILT with sand; trace gravel and asphalt concrete debris.
		12	8.9	107.7			
10		10				ML	YOUNG ALLUVIUM: Olive brown, moist, medium dense, sandy SILT; trace gravel.
		18	3.7	95.1		SP-SM	Light gray, brown, moist, medium dense, poorly graded SAND with silt.
20		9				ML	Olive brown, moist, medium dense, SILT with sand; trace decayed rootlets and caliche nodules.
		19	12.6	91.8			Olive; oxidation staining.
30		21				SP-SM	Gray, moist, dense, poorly graded SAND with silt.
							Total Depth = 31.5 feet. Groundwater was not encountered during drilling. Backfilled with cement-bentonite grout on 3/17/22. Notes: Groundwater, though not encountered at the time of drilling, may rise to a higher level due to seasonal variations in precipitation and several other factors as discussed in the report. The ground elevation shown above is an estimation only. It is based on our interpretations of published maps and other documents reviewed for the purposes of this evaluation. It is not sufficiently accurate for preparing construction bids and design documents.
40							

FIGURE B- 3

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SPANE PARK STORMWATER CAPTURE PROJECT
PARAMOUNT, CALIFORNIA

DATE DRILLED 3/16/22 BORING NO. P-1

GROUND ELEVATION 78' ± (MSL) SHEET 1 OF 1

METHOD OF DRILLING 8" Hollow-Stem Auger (MR Drilling)

DRIVE WEIGHT 140 lbs. (Auto. Trip Hammer) DROP 30"

SAMPLED BY ANP LOGGED BY ANP REVIEWED BY GMC

DEPTH (feet)	SAMPLES (Bulk / Driven)	BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	SYMBOL	CLASSIFICATION U.S.C.S.	DESCRIPTION/INTERPRETATION
0						SM	FILL: Light brown, moist, medium dense, silty SAND; trace gravel; piece of brick.
		11	7.3	89.2		SM	YOUNG ALLUVIUM: Grayish brown, moist, loose, silty SAND; trace gravel.
10		10				ML	Olive brown, moist, medium dense, SILT with sand.
		13	32.9	88.8			Loose.
20		11					Dark olive brown; medium dense; increase in sand content.
		20	20.1	105.5			Trace decayed rootlets.
30							Total Depth = 26.5 feet. Groundwater was not encountered during drilling. Percolation test was performed on 3/16/22. Backfilled with cement-bentonite grout on 3/17/22. Notes: Groundwater, though not encountered at the time of drilling, may rise to a higher level due to seasonal variations in precipitation and several other factors as discussed in the report. The ground elevation shown above is an estimation only. It is based on our interpretations of published maps and other documents reviewed for the purposes of this evaluation. It is not sufficiently accurate for preparing construction bids and design documents.
40							

FIGURE B- 4

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SPANE PARK STORMWATER CAPTURE PROJECT
PARAMOUNT, CALIFORNIA

DATE DRILLED 3/16/22 BORING NO. P-2

GROUND ELEVATION 78' ± (MSL) SHEET 1 OF 1

METHOD OF DRILLING 8" Hollow-Stem Auger (MR Drilling)

DRIVE WEIGHT 140 lbs. (Auto. Trip Hammer) DROP 30"

SAMPLED BY ANP LOGGED BY ANP REVIEWED BY GMC

DEPTH (feet)	SAMPLES (Bulk / Driven)	BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	SYMBOL	CLASSIFICATION U.S.C.S.	DESCRIPTION/INTERPRETATION
0						ML	FILL: Olive brown, moist, medium dense, SILT with sand; trace gravel; trace asphalt debris.
		15	13.2	83.7		ML	YOUNG ALLUVIUM: Olive brown, moist, medium dense, sandy SILT; trace gravel; oxidation staining.
		12				SP-SM	Light gray, moist, medium dense, poorly graded SAND with silt.
10							Total Depth = 10 feet. Groundwater was not encountered during drilling. Percolation test was performed on 3/16/22. Backfilled with on-site soil on 3/16/22. Notes: Groundwater, though not encountered at the time of drilling, may rise to a higher level due to seasonal variations in precipitation and several other factors as discussed in the report. The ground elevation shown above is an estimation only. It is based on our interpretations of published maps and other documents reviewed for the purposes of this evaluation. It is not sufficiently accurate for preparing g construction bids and design documents.
20							
30							
40							

FIGURE B- 5

DATE DRILLED 3/16/22 BORING NO. P-3

GROUND ELEVATION 78' ± (MSL) SHEET 1 OF 1

METHOD OF DRILLING 8" Hollow-Stem Auger (MR Drilling)

DRIVE WEIGHT 140 lbs. (Auto. Trip Hammer) DROP 30"

SAMPLED BY ANP LOGGED BY ANP REVIEWED BY GMC

DEPTH (feet)	SAMPLES (Bulk / Driven)	BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	SYMBOL	CLASSIFICATION U.S.C.S.	DESCRIPTION/INTERPRETATION
0						ML	FILL: Olive brown, moist, medium dense, SILT with sand; trace gravel and asphalt debris.
		8	8.0	87.1		SP-SM	YOUNG ALLUVIUM: Grayish brown, moist, loose, poorly graded SAND with silt.
10		9				ML	Olive brown, moist, medium dense, SILT with sand; very thin interbed of poorly graded SAND.
		17	9.7	89.3			Decrease in sand.
20		18					
		24	7.2	104.4		SM	Dark gray, moist, medium dense, silty SAND; predominately fine sand.
30							Total Depth = 26.5 feet. Groundwater was not encountered during drilling. In-situ percolation test was performed on 3/17/22. Backfilled with cement-bentonite grout on 3/17/22. Notes: Groundwater, though not encountered at the time of drilling, may rise to a higher level due to seasonal variations in precipitation and several other factors as discussed in the report. The ground elevation shown above is an estimation only. It is based on our interpretations of published maps and other documents reviewed for the purposes of this evaluation. It is not sufficiently accurate for preparing construction bids and design documents.
40							

FIGURE B- 6

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SPANE PARK STORMWATER CAPTURE PROJECT
PARAMOUNT, CALIFORNIA

APPENDIX C

CPT Soundings

APPENDIX C

CPT SOUNDINGS

Field Procedure for Cone Penetration Testing

The cone penetration testing (CPT) described in this report was conducted by Kehoe Testing and Engineering in general accordance with ASTM D 5778. The cone penetrometer assembly used for this project consisted of a conical tip and a cylindrical friction sleeve. The conical tip had an apex angle of 60 degrees and a cross-section area of approximately 15 square centimeters. The interior of the CPT probe was instrumented with strain gauges that allowed simultaneous measurement of cone tip resistance and friction sleeve resistance during penetration. The cone hydraulically pushed into the soil using the reaction mass of a specially designed 30-ton truck at a constant rate while the cone tip resistance and sleeve friction were recorded at an approximately 1-inch interval and stored in digital form. The computer-generated logs presented in the following pages include cone resistance, sleeve friction, pore pressure, and soil behavior type.

SUMMARY

OF

CONE PENETRATION TEST DATA

Project:

Spane Park Stormwater Capture Project
Paramount, CA
March 16, 2022

Prepared for:

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Prepared by:

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www.kehoetesting.com

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1. **INTRODUCTION**
2. **SUMMARY OF FIELD WORK**
3. **FIELD EQUIPMENT & PROCEDURES**
4. **CONE PENETRATION TEST DATA & INTERPRETATION**

APPENDIX

- CPT Plots
- CPT Classification/Soil Behavior Chart
- Summary of Shear Wave Velocities
- CPT Data Files (sent via email)

SUMMARY
OF
CONE PENETRATION TEST DATA

1. INTRODUCTION

This report presents the results of a Cone Penetration Test (CPT) program carried out for the Spane Park Stormwater Capture Project located in Paramount, California. The work was performed by Kehoe Testing & Engineering (KTE) on March 16, 2022. The scope of work was performed as directed by Ninyo & Moore personnel.

2. SUMMARY OF FIELD WORK

The fieldwork consisted of performing CPT soundings at two locations to determine the soil lithology. A summary is provided in **TABLE 2.1**.

LOCATION	DEPTH OF CPT (ft)	COMMENTS/NOTES:
CPT-1	60	
CPT-2	60	

TABLE 2.1 - Summary of CPT Soundings

3. FIELD EQUIPMENT & PROCEDURES

The CPT soundings were carried out by **KTE** using an integrated electronic cone system manufactured by Vertek. The CPT soundings were performed in accordance with ASTM standards (D5778). The cone penetrometers were pushed using a 30-ton CPT rig. The cone used during the program was a 15 cm^2 cone with a cone net area ratio of 0.83. The following parameters were recorded at approximately 2.5 cm depth intervals:

- Cone Resistance (qc)
- Sleeve Friction (fs)
- Dynamic Pore Pressure (u)
- Inclination
- Penetration Speed

At location CPT-2, shear wave measurements were obtained at approximately 5-foot intervals. The shear wave is generated using an air-actuated hammer, which is located inside the front jack of the CPT rig. The cone has a triaxial geophone, which recorded the shear wave signal generated by the air hammer.

The above parameters were recorded and viewed in real time using a laptop computer. Data is stored at the KTE office for up to 2 years for future analysis and reference. A complete set of baseline readings was taken prior to each sounding to determine temperature shifts and any zero load offsets. Monitoring base line readings ensures that the cone electronics are operating properly.

4. CONE PENETRATION TEST DATA & INTERPRETATION

The Cone Penetration Test data is presented in graphical form in the attached Appendix. These plots were generated using the CPeT-IT program. Penetration depths are referenced to ground surface. The soil behavior type on the CPT plots is derived from the attached CPT SBT plot (Robertson, "Interpretation of Cone Penetration Test…", 2009) and presents major soil lithologic changes. The stratigraphic interpretation is based on relationships between cone resistance (qc), sleeve friction (fs), and penetration pore pressure (u). The friction ratio (Rf), which is sleeve friction divided by cone resistance, is a calculated parameter that is used along with cone resistance to infer soil behavior type. Generally, cohesive soils (clays) have high friction ratios, low cone resistance and generate excess pore water pressures. Cohesionless soils (sands) have lower friction ratios, high cone bearing and generate little (or negative) excess pore water pressures.

The CPT data files have also been provided. These files can be imported in CPeT-IT (software by GeoLogismiki) and other programs to calculate various geotechnical parameters.

It should be noted that it is not always possible to clearly identify a soil type based on qc, fs and u. In these situations, experience, judgement and an assessment of the pore pressure data should be used to infer the soil behavior type.

If you have any questions regarding this information, please do not hesitate to call our office at (714) 901-7270.

Sincerely,

KEHOE TESTING & ENGINEERING

Steven P. Kehoe
President

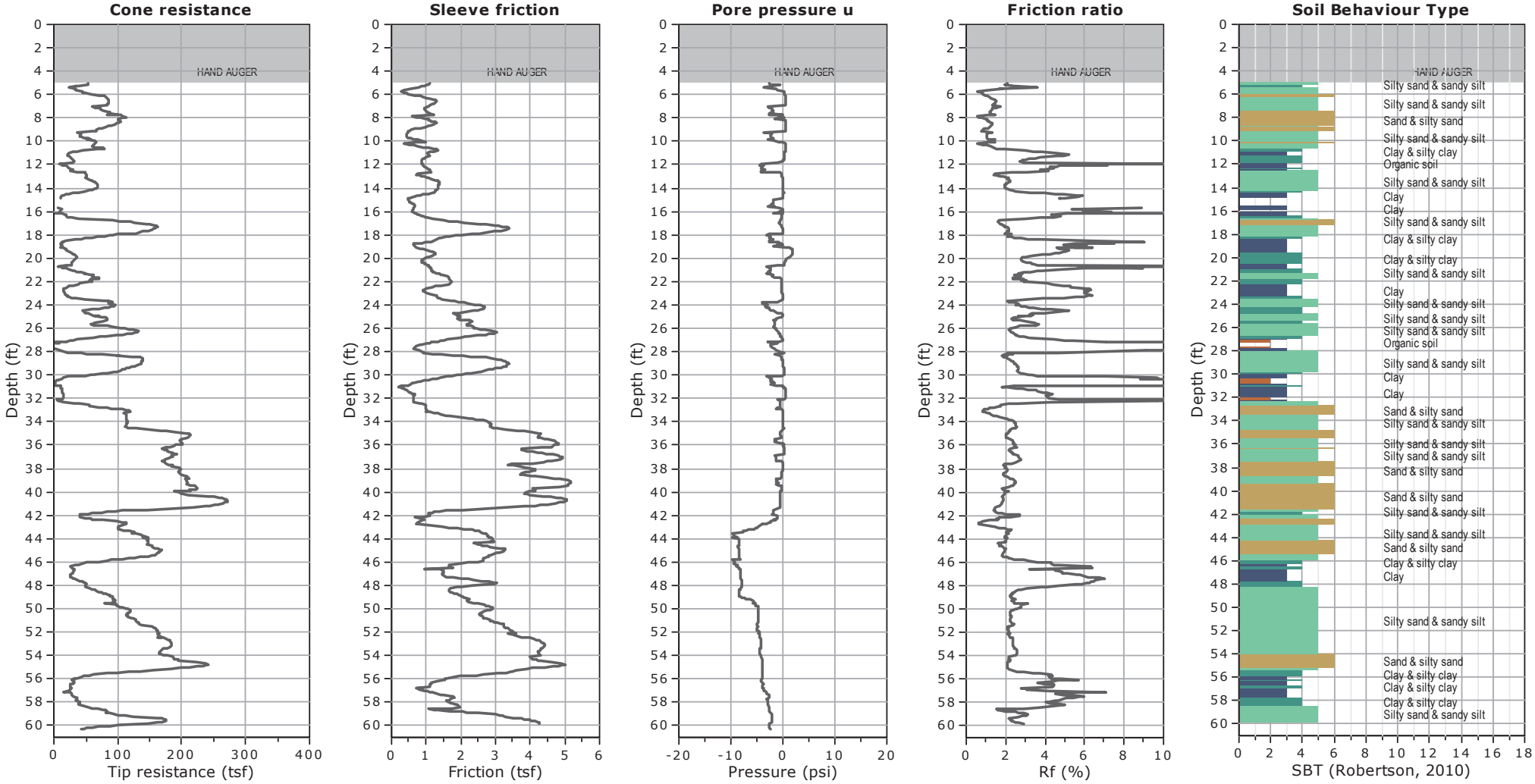
03/22/22-aa-3898

APPENDIX

Kehoe Testing and Engineering
714-901-7270
steve@kehoetesting.com
www.kehoetesting.com

Project: **Ninyo & Moore / Spane Park Stormwater Capture Project**
Location: **Paramount, CA**

CPT-1
Total depth: 60.29 ft, Date: 3/16/2022



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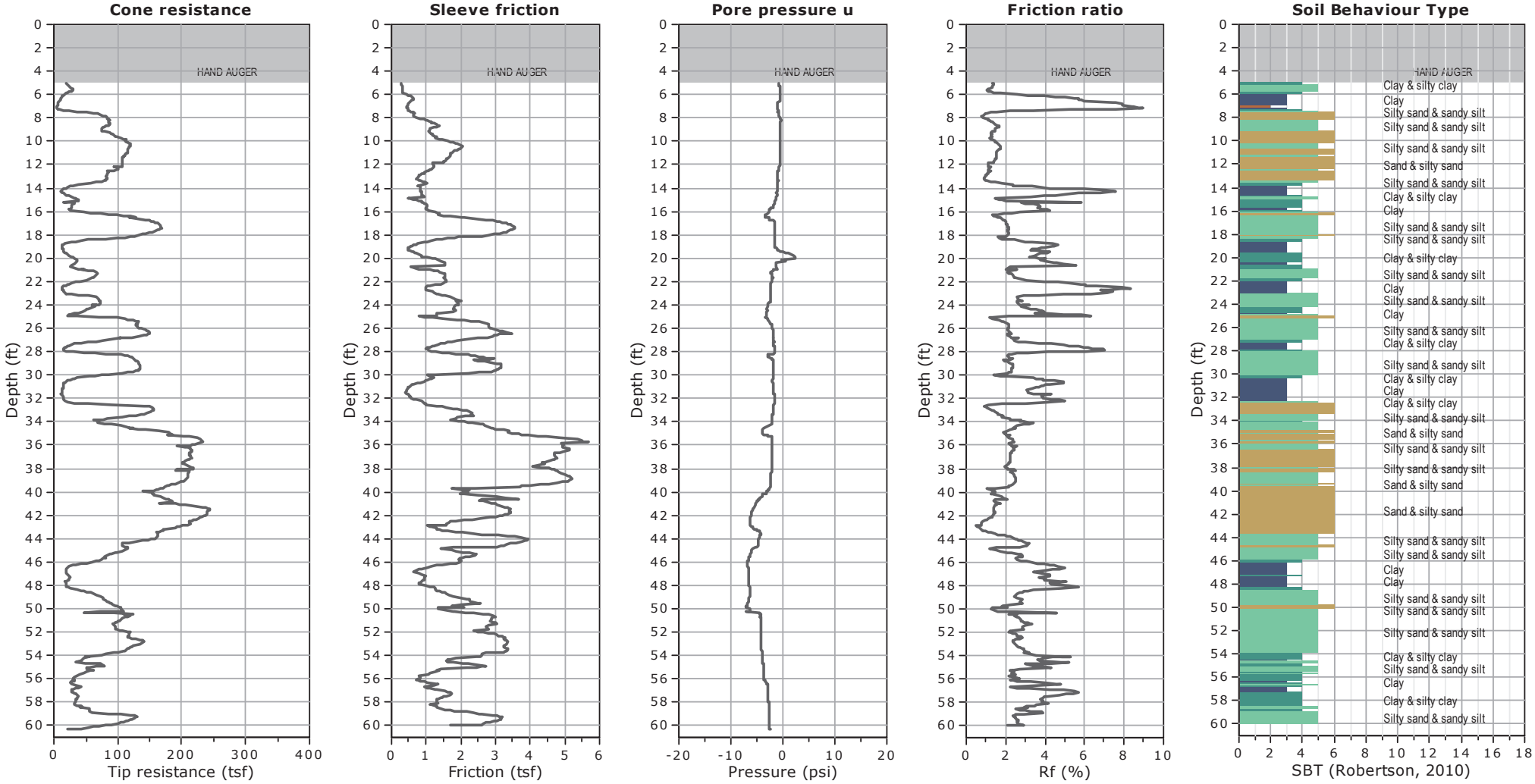
Project: **Ninyo & Moore / Spane Park Stormwater Capture Project**
Location: **Paramount, CA**

CPT-2
Total depth: 60.34 ft, Date: 3/16/2022



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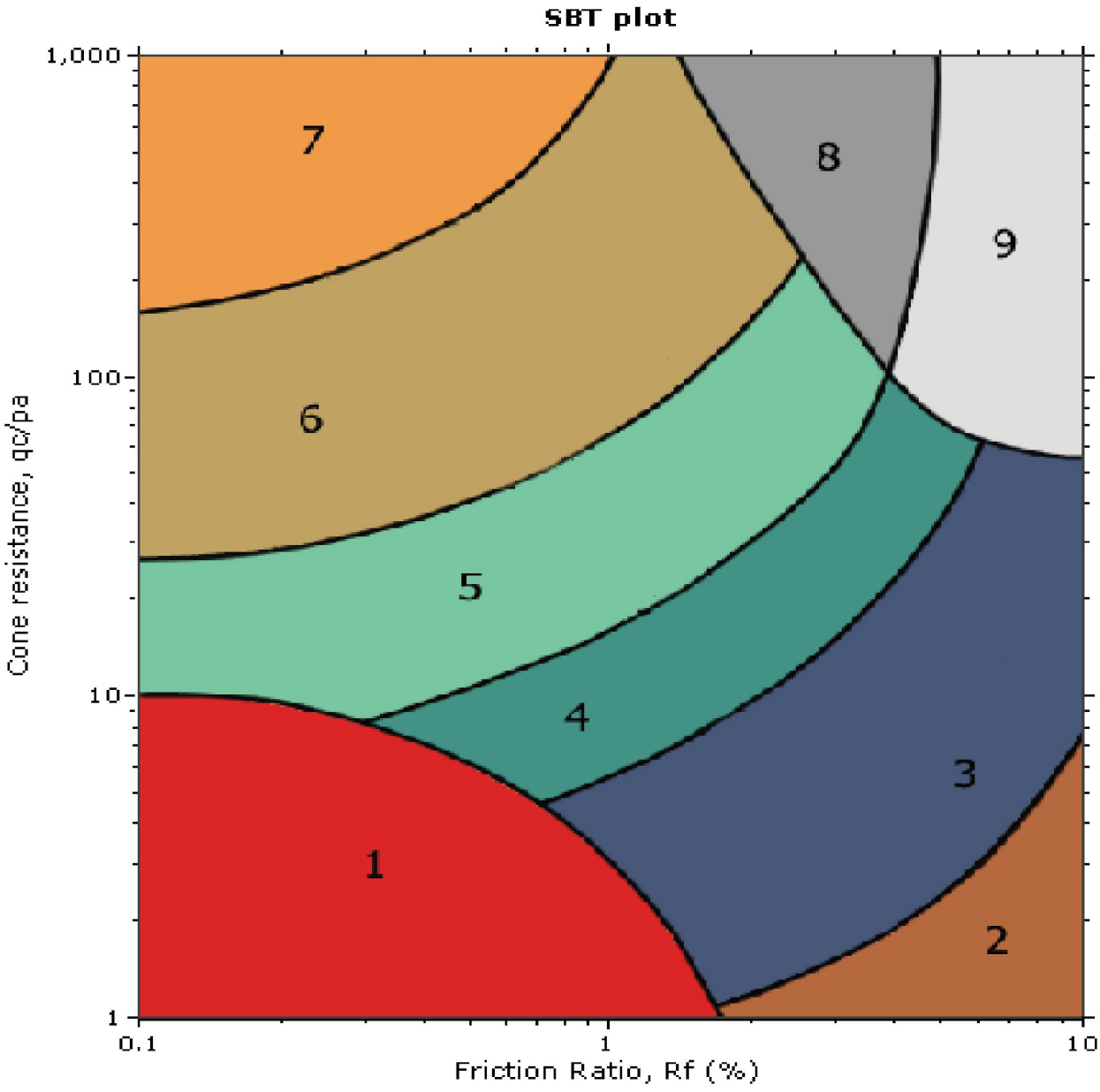


SBT legend

1. Sensitive fine grained
2. Organic material
3. Clay to silty clay
4. Clayey silt to silty clay
5. Silty sand to sandy silt
6. Clean sand to silty sand
7. Gravely sand to sand
8. Very stiff sand to clayey sand
9. Very stiff fine grained

Ninyo & Moore
Spane Park Stormwater Capture Project
Paramount, CA

CPT Shear Wave Measurements

Location	Tip Depth (ft)	Geophone Depth (ft)	Travel Distance (ft)	S-Wave Arrival (msec)	S-Wave Velocity from Surface (ft/sec)	Interval S-Wave Velocity (ft/sec)
CPT-2	5.09	4.09	4.55	6.82	668	
	10.01	9.01	9.23	14.44	639	614
	15.16	14.16	14.30	23.56	607	556
	20.05	19.05	19.15	30.18	635	733
	25.16	24.16	24.24	38.00	638	651
	30.12	29.12	29.19	44.86	651	721
	35.10	34.10	34.16	50.96	670	815
	40.19	39.19	39.24	56.08	700	993
	45.05	44.05	44.10	62.08	710	809
	50.20	49.20	49.24	68.72	717	775
	55.32	54.32	54.36	75.20	723	790
	60.30	59.30	59.33	80.72	735	902

Shear Wave Source Offset - 2 ft

S-Wave Velocity from Surface = Travel Distance/S-Wave Arrival
Interval S-Wave Velocity = (Travel Dist2-Travel Dist1)/(Time2-Time1)

APPENDIX D

Laboratory Testing

APPENDIX D

LABORATORY TESTING

Classification
Soils were visually and texturally classified in accordance with the Unified Soil Classification System (USCS) in general accordance with ASTM D 2488. Soil classifications are indicated on the logs of the exploratory borings in Appendix B.

In-Place Moisture and Density Tests
The moisture content and dry density of relatively undisturbed samples obtained from the exploratory borings were evaluated in general accordance with ASTM D 2937. The test results are presented on the logs of the exploratory borings in Appendix B.

Gradation Analysis
Gradation analysis tests were performed on selected representative soil samples in general accordance with ASTM D 422. The grain-size distribution curves are shown on Figures D-1 through D-4. These test results were utilized in evaluating the soil classifications in accordance with the USCS.

200 Wash
An evaluation of the percentage of particles finer than the No. 200 sieve in selected soil samples was performed in general accordance with ASTM D 1140. The results of the tests are presented on Figure D-5.

Atterberg Limits
Tests were performed on selected representative fine-grained soil samples to evaluate the liquid limit, plastic limit, and plasticity index in general accordance with ASTM D 4318. These test results were utilized to evaluate the soil classification in accordance with the USCS. The test results and classifications are shown on Figure D-6.

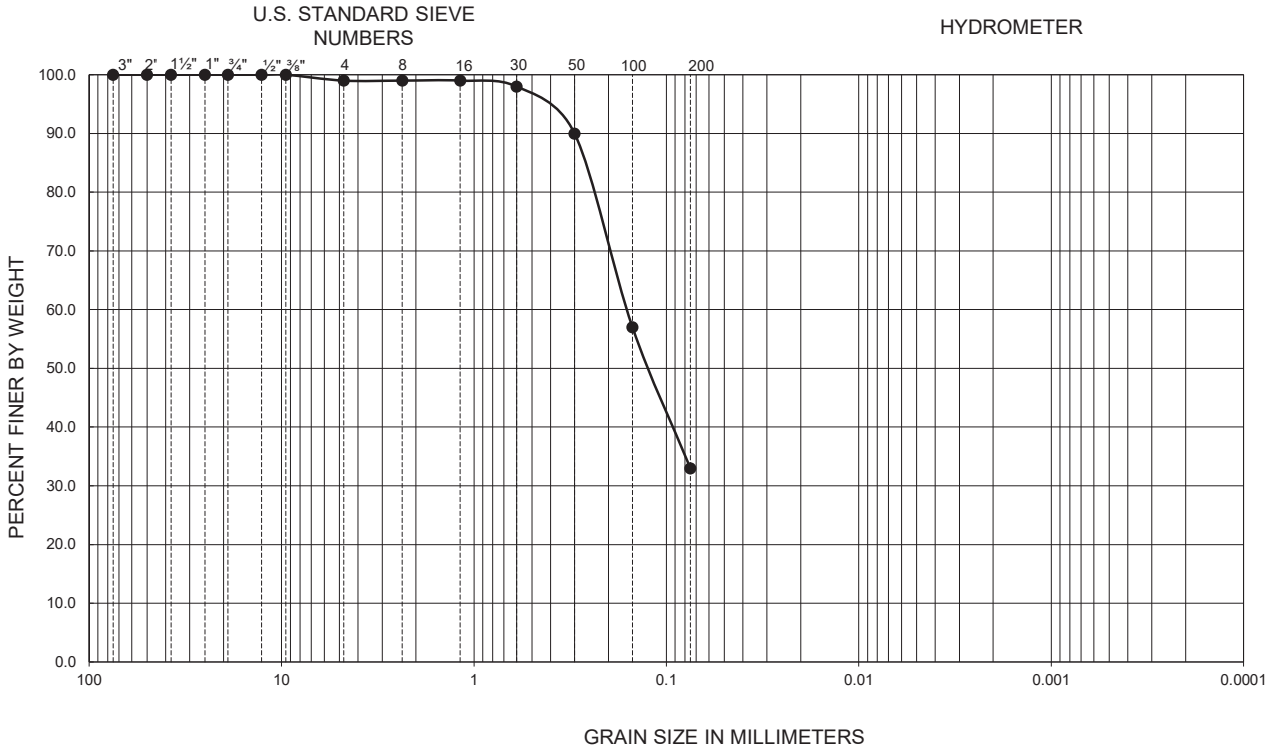
Consolidation Test
Consolidation testing was performed on a selected relatively undisturbed soil sample in general accordance with ASTM D 2435. The sample was inundated during testing to represent adverse field conditions. The percent of consolidation for each load cycle was recorded as a ratio of the amount of vertical compression to the original height of the sample. The results of the test are summarized on Figure D-7.

Direct Shear Tests
Direct shear tests were performed on relatively undisturbed samples in general accordance with ASTM D 3080 to evaluate the shear strength characteristics of selected materials. The samples were inundated during shearing to represent adverse field conditions. The results are shown on Figures D-8 through D-10.

R-Value
The resistance value, or R-value, for site soils was evaluated in general accordance with California Test (CT) 301. Samples were prepared and evaluated for exudation pressure and expansion pressure. The equilibrium R-value is reported as the lesser or more conservative of the two calculated results. The test results are shown on Figure D-11.

Soil Corrosivity Tests
Soil pH and resistivity tests were performed on representative samples in general accordance with CT 643. The soluble sulfate and chloride content of the selected samples were evaluated in general accordance with CT 417 and CT 422, respectively. The test results are presented on Figure D-12.

GRAVEL		SAND			FINES	
Coarse	Fine	Coarse	Medium	Fine	SILT	CLAY



Symbol	Sample Location	Depth (ft)	Liquid Limit	Plastic Limit	Plasticity Index	D_{10}	D_{30}	D_{60}	C_u	C_c	Passing No. 200 (percent)	USCS
●	B-1	15.0-16.5	--	--	--	--	--	--	--	--	33	SM

PERFORMED IN GENERAL ACCORDANCE WITH ASTM D 6913

FIGURE D-1

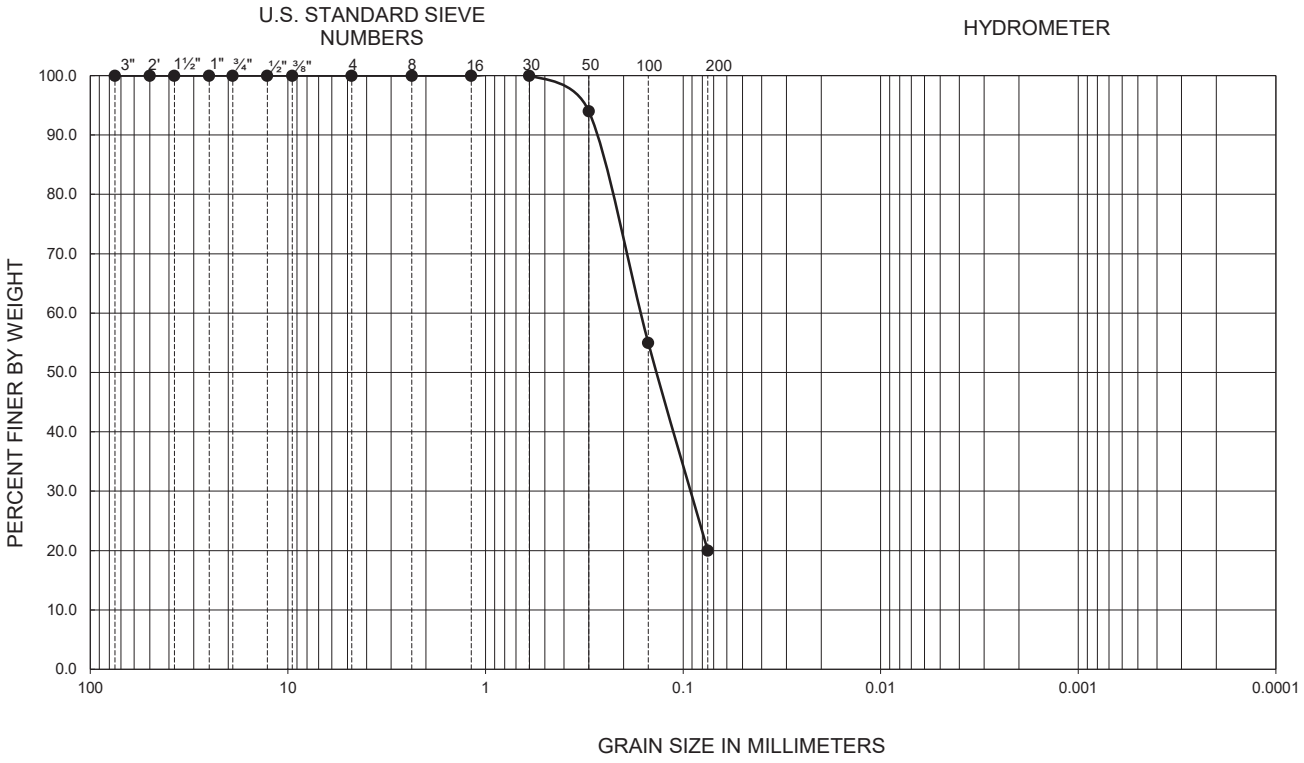
GRADATION TEST RESULTS

SPANE PARK STORMWATER CAPTURE PROJECT
PARAMOUNT, CALIFORNIA

Ninyo & Moore
Geotechnical & Environmental Sciences Consultants

211892001 | 5/22

GRAVEL		SAND			FINES	
Coarse	Fine	Coarse	Medium	Fine	SILT	CLAY



Symbol	Sample Location	Depth (ft)	Liquid Limit	Plastic Limit	Plasticity Index	D_{10}	D_{30}	D_{60}	C_u	C_c	Passing No. 200 (percent)	USCS
●	P-1	5.0-6.5	--	--	--	--	--	--	--	--	20	SM

PERFORMED IN GENERAL ACCORDANCE WITH ASTM D 6913

FIGURE D-2

GRADATION TEST RESULTS

SPANE PARK STORMWATER CAPTURE PROJECT
PARAMOUNT, CALIFORNIA

Ninyo & Moore
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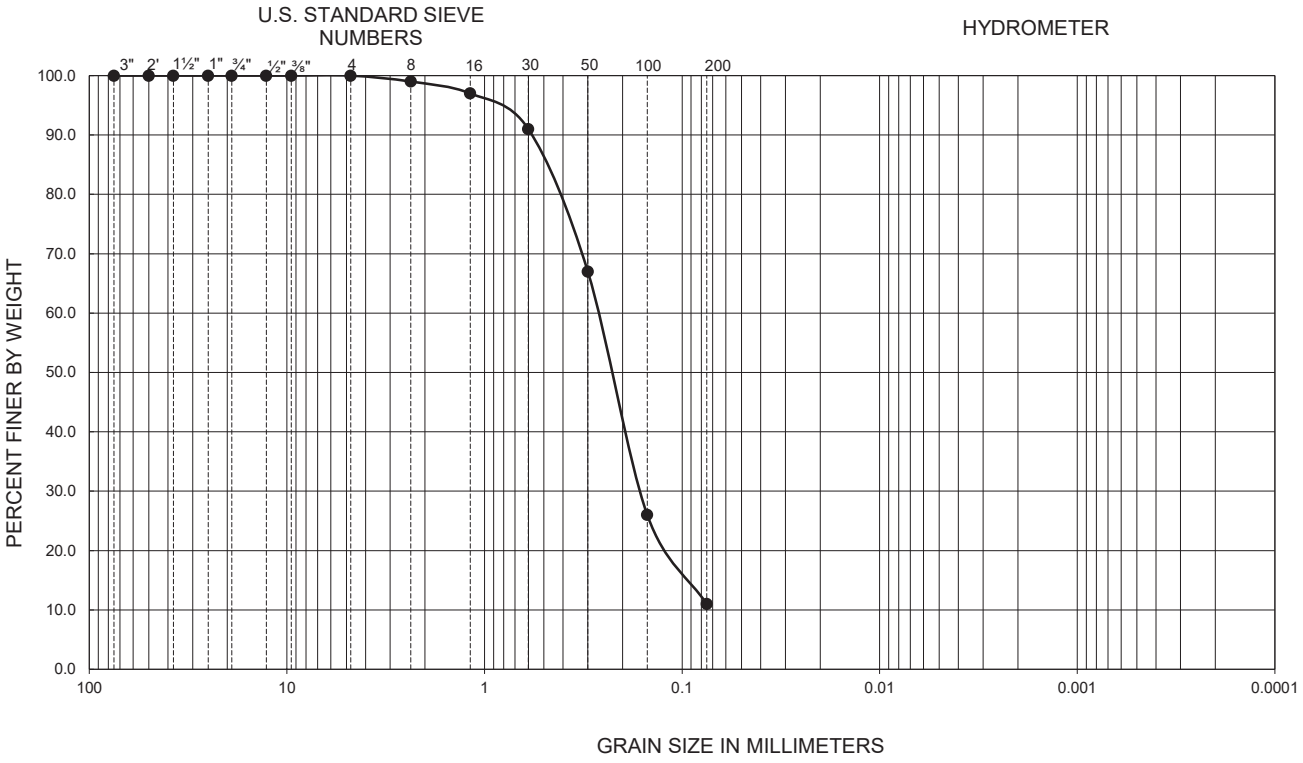
211892001 Fig D-2_SIEVE w No 8 @ P-1 5.0-6.5

GRAVEL		SAND			FINES	
Coarse	Fine	Coarse	Medium	Fine	SILT	CLAY



Symbol	Sample Location	Depth (ft)	Liquid Limit	Plastic Limit	Plasticity Index	D_{10}	D_{30}	D_{60}	C_u	C_c	Passing No. 200 (percent)	USCS
●	P-2	8.5-10.0	--	--	--	--	--	--	--	--	11	SP-SM

PERFORMED IN GENERAL ACCORDANCE WITH ASTM D 6913

FIGURE D-3

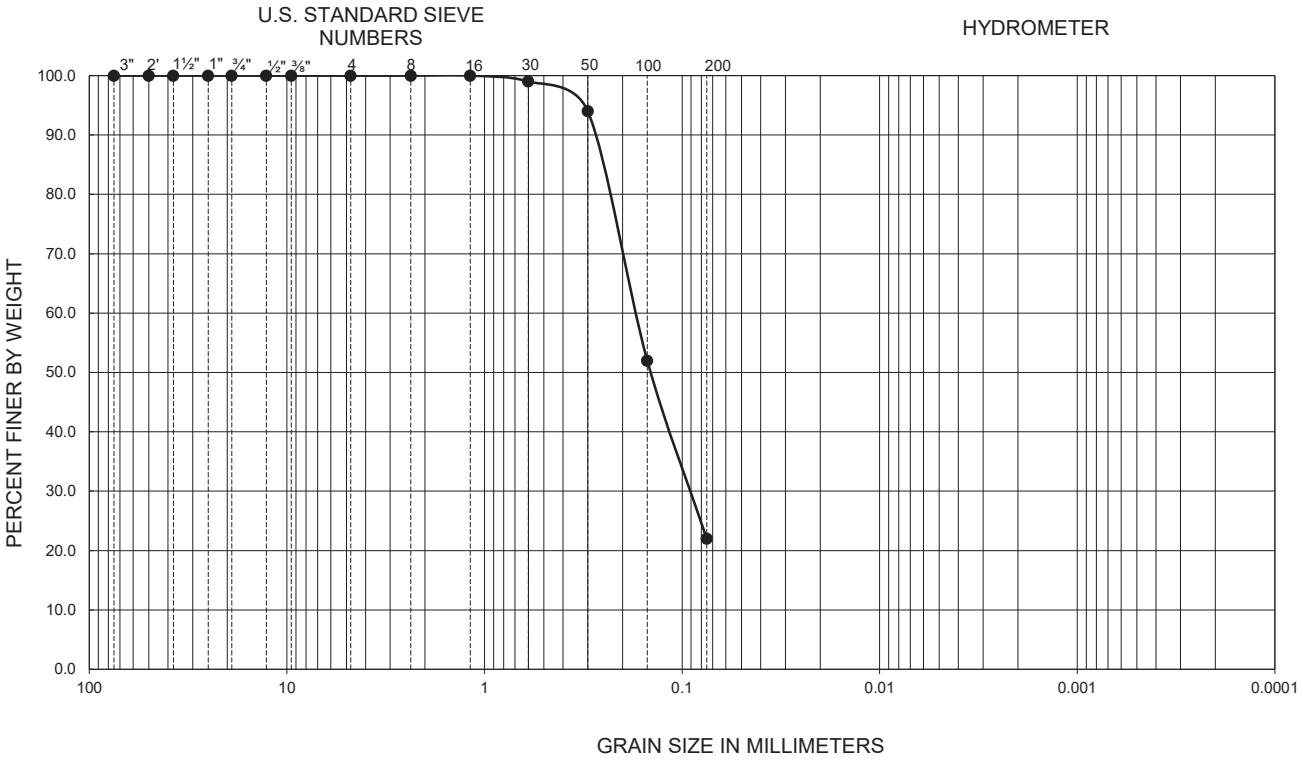
GRADATION TEST RESULTS

SPANE PARK STORMWATER CAPTURE PROJECT
PARAMOUNT, CALIFORNIA

Ninyo & Moore
Geotechnical & Environmental Sciences Consultants

211892001 Fig D-3_SIEVE w No 8 @ P-2 8.5-10.0

GRAVEL		SAND			FINES	
Coarse	Fine	Coarse	Medium	Fine	SILT	CLAY



Symbol	Sample Location	Depth (ft)	Liquid Limit	Plastic Limit	Plasticity Index	D_{10}	D_{30}	D_{60}	C_u	C_c	Passing No. 200 (percent)	USCS
●	P-3	23.5-25.0	--	--	--	--	--	--	--	--	22	SM

PERFORMED IN GENERAL ACCORDANCE WITH ASTM D 6913

FIGURE D-4

GRADATION TEST RESULTS

SPANE PARK STORMWATER CAPTURE PROJECT
PARAMOUNT, CALIFORNIA

Ninyo & Moore
Geotechnical & Environmental Sciences Consultants

211892001 Fig D-4_SIEVE w No 8 @ P-3 23.5-25.0

SAMPLE LOCATION	SAMPLE DEPTH (ft)	DESCRIPTION	PERCENT PASSING NO. 4	PERCENT PASSING NO. 200	USCS (TOTAL SAMPLE)
B-1	20.0-21.5	SILT WITH SAND	100	72	ML
B-1	40.0-41.5	POORLY GRADED SAND WITH SILT	100	5	SP-SM
B-2	15.0-16.5	SILT WITH SAND	100	9	SP-SM
P-1	15.0-16.5	POORLY GRADED SAND WITH SILT	100	85	ML
P-3	5.0-6.5	POORLY GRADED SAND WITH SILT	100	10	SP-SM

PERFORMED IN GENERAL ACCORDANCE WITH ASTM D 1140

FIGURE D-5

NO. 200 SIEVE ANALYSIS TEST RESULTS

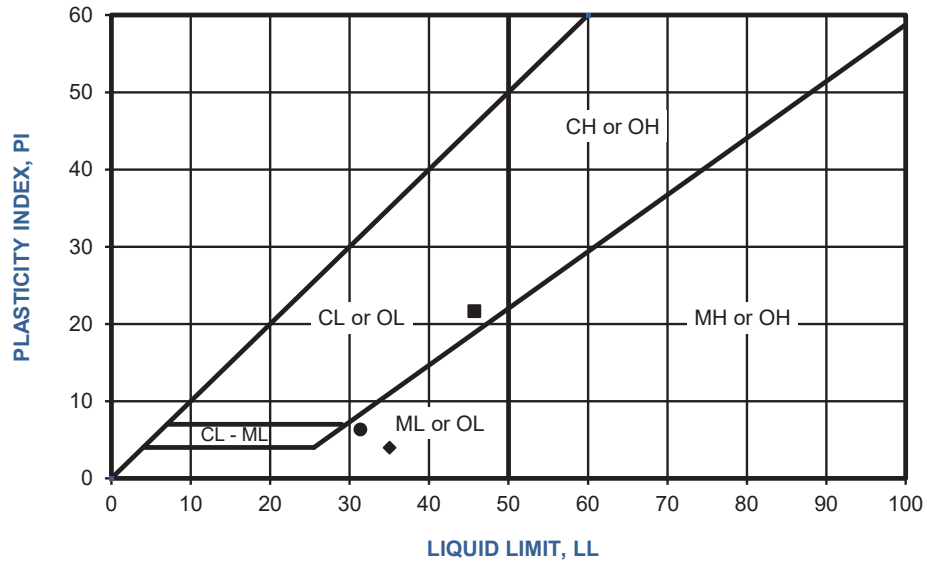
SPANE PARK STORMWATER CAPTURE PROJECT
PARAMOUNT, CALIFORNIA

211892001 | 5/22

Ninyo & Moore
Geotechnical & Environmental Sciences Consultants

SYMBOL	LOCATION	DEPTH (ft)	LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	USCS CLASSIFICATION (Fraction Finer Than No. 40 Sieve)	USCS
●	B-1	20.0-21.5	31	25	6	ML	ML
■	B-1	30.0-31.5	46	24	22	CL	CL
◆	P-1	15.0-16.5	35	31	4	ML	ML

NP - INDICATES NON-PLASTIC



PERFORMED IN GENERAL ACCORDANCE WITH ASTM D 4318

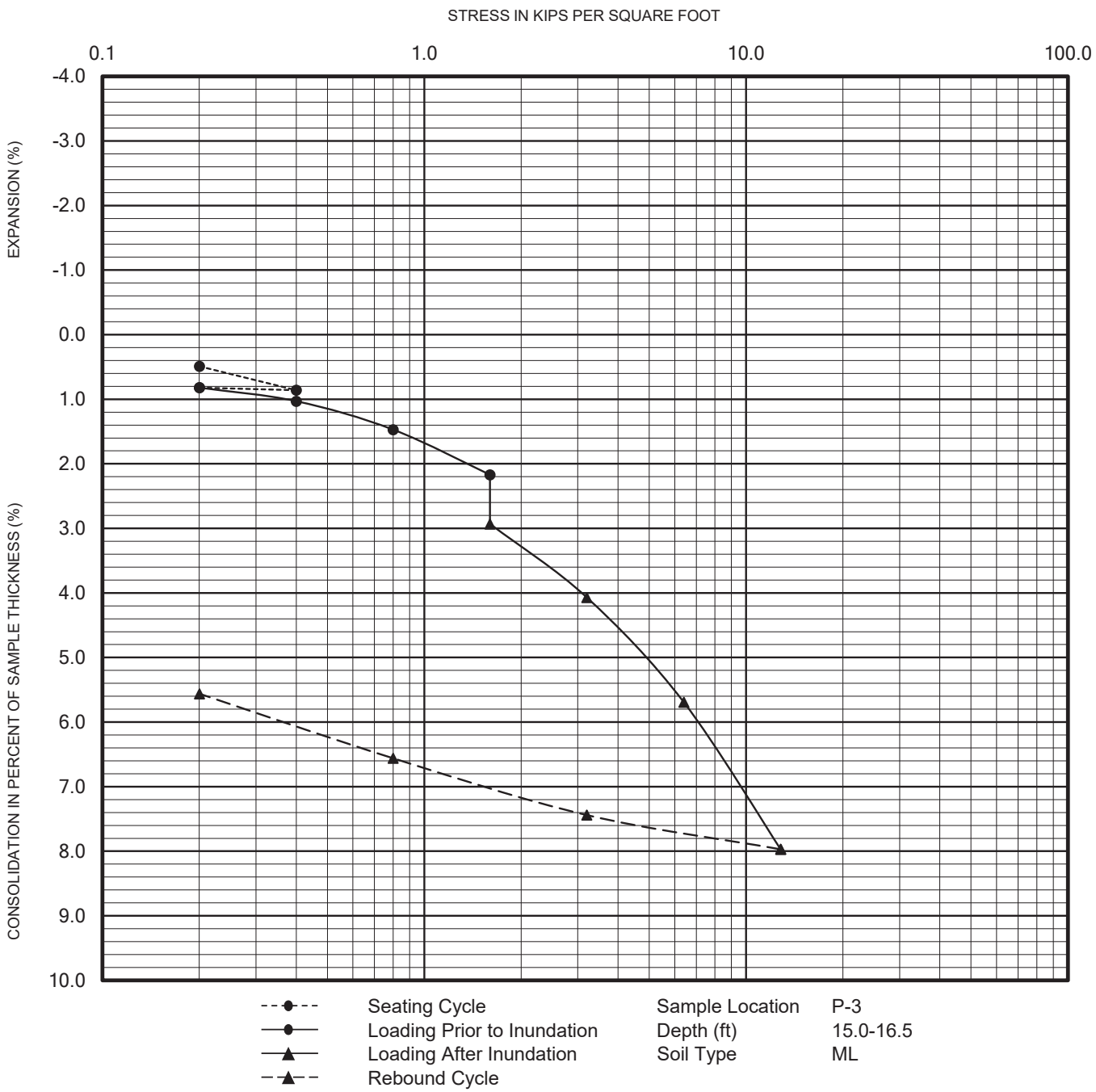
FIGURE D-6

ATTERBERG LIMITS TEST RESULTS

SPANE PARK STORMWATER CAPTURE PROJECT
PARAMOUNT, CALIFORNIA

211892001 | 5/22

Ninyo & Moore
Geotechnical & Environmental Sciences Consultants



PERFORMED IN GENERAL ACCORDANCE WITH ASTM D 2435

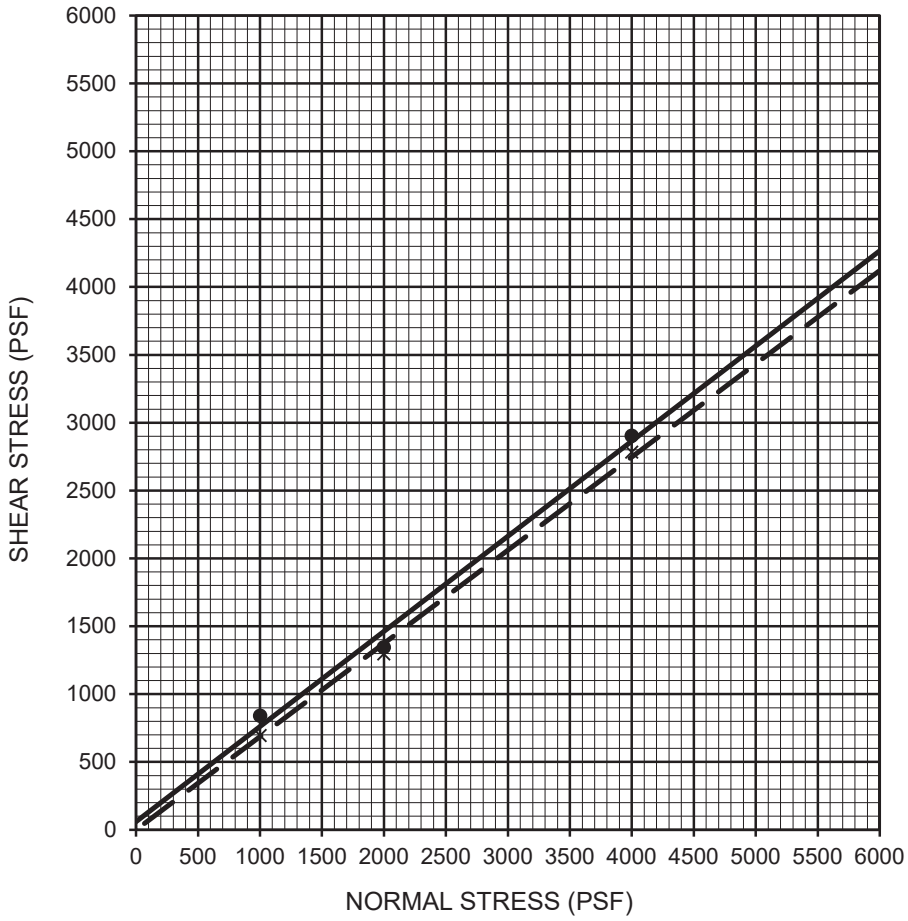
FIGURE D-7

CONSOLIDATION TEST RESULTS

SPANE PARK STORMWATER CAPTURE PROJECT
PARAMOUNT, CALIFORNIA

Ninyo & Moore
Geotechnical & Environmental Sciences Consultants

211892001 | 5/22



Description	Symbol	Sample Location	Depth (ft)	Shear Strength	Cohesion (psf)	Friction Angle (degrees)	Soil Type
SILT WITH SAND	—●—	B-2	5.0-6.5	Peak	60	35	ML
SILT WITH SAND	– – X – –	B-2	5.0-6.5	Ultimate	0	35	ML

PERFORMED IN GENERAL ACCORDANCE WITH ASTM D 3080

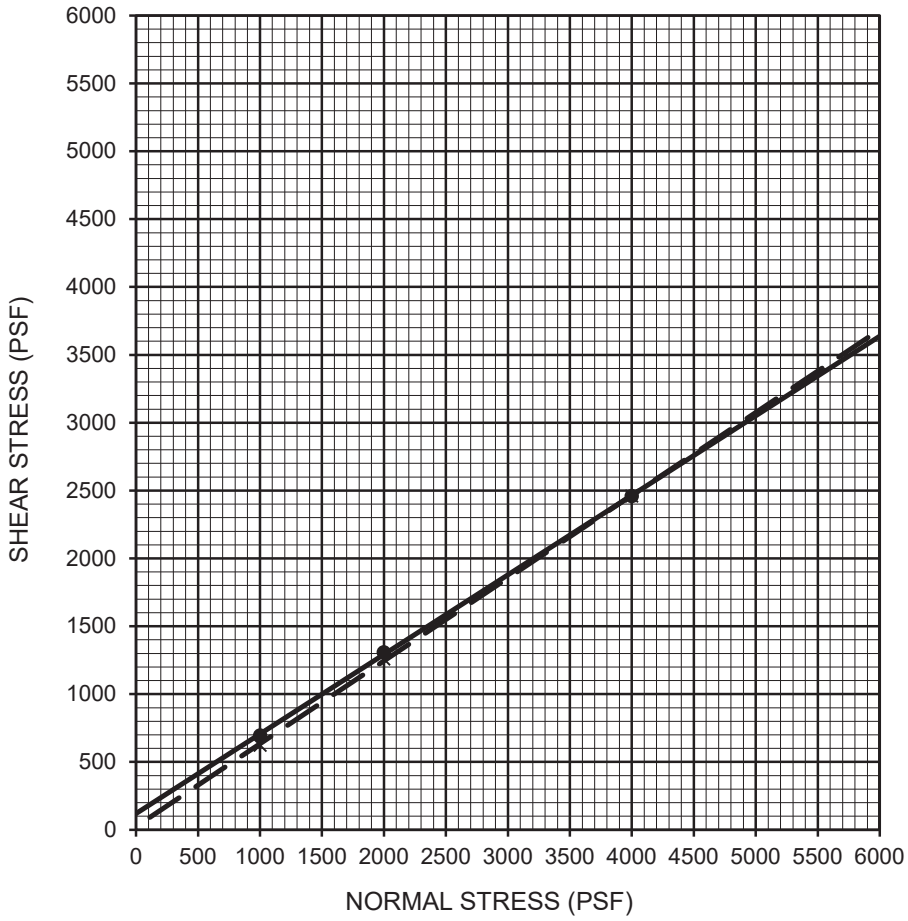
FIGURE D-8

DIRECT SHEAR TEST RESULTS

SPANE PARK STORMWATER CAPTURE PROJECT
PARAMOUNT, CALIFORNIA

211892001 | 5/22

Ninyo & Moore
Geotechnical & Environmental Sciences Consultants



Description	Symbol	Sample Location	Depth (ft)	Shear Strength	Cohesion (psf)	Friction Angle (degrees)	Soil Type
SILTY SAND	—●—	P-1	5.0-6.5	Peak	120	30	SM
SILTY SAND	– – X – –	P-1	5.0-6.5	Ultimate	64	31	SM

PERFORMED IN GENERAL ACCORDANCE WITH ASTM D 3080

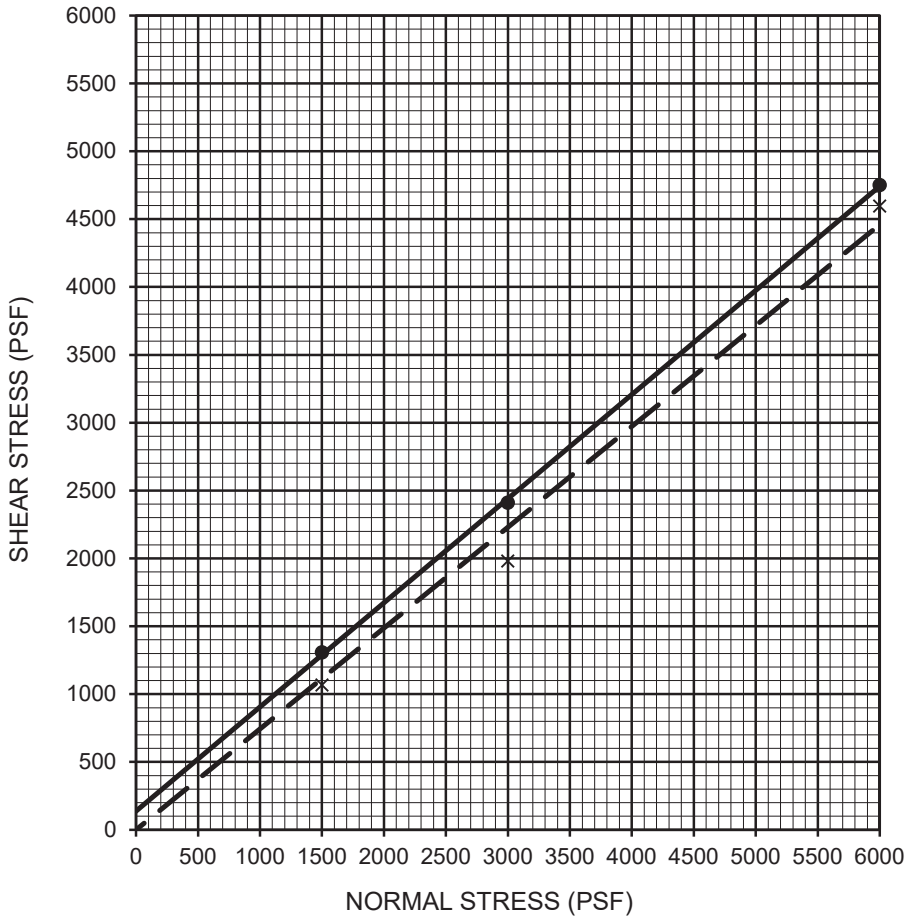
FIGURE D-9

DIRECT SHEAR TEST RESULTS

SPANE PARK STORMWATER CAPTURE PROJECT
PARAMOUNT, CALIFORNIA

211892001 | 5/22

Ninyo & Moore
Geotechnical & Environmental Sciences Consultants



Description	Symbol	Sample Location	Depth (ft)	Shear Strength	Cohesion (psf)	Friction Angle (degrees)	Soil Type
SANDY SILT	—●—	P-1	25.0-26.5	Peak	138	38	ML
SANDY SILT	– – X – –	P-1	25.0-26.5	Ultimate	0	39	ML

PERFORMED IN GENERAL ACCORDANCE WITH ASTM D 3080

FIGURE D-10

DIRECT SHEAR TEST RESULTS

SPANE PARK STORMWATER CAPTURE PROJECT
PARAMOUNT, CALIFORNIA

211892001 | 5/22

Ninyo & Moore
Geotechnical & Environmental Sciences Consultants

SAMPLE LOCATION	SAMPLE DEPTH (ft)	SOIL TYPE	R-VALUE
P-2	0.5-5.0	ML	59

PERFORMED IN GENERAL ACCORDANCE WITH ASTM D 2844/CT 301

FIGURE D-11

R-VALUE TEST RESULTS

SPANE PARK STORMWATER CAPTURE PROJECT
PARAMOUNT, CALIFORNIA

Ninyo & Moore
Geotechnical & Environmental Sciences Consultants

SAMPLE LOCATION	SAMPLE DEPTH (ft)	pH [1]	RESISTIVITY [1] (ohm-cm)	SULFATE CONTENT [2]		CHLORIDE CONTENT [3] (ppm)
				(ppm)	(%)	
P-3	0-5.0	7.9	4,770	10	0.001	40
P-3	20.0-21.5	7.5	2,395	20	0.002	90

[1] PERFORMED IN GENERAL ACCORDANCE WITH CALIFORNIA TEST METHOD 643
[2] PERFORMED IN GENERAL ACCORDANCE WITH CALIFORNIA TEST METHOD 417
[3] PERFORMED IN GENERAL ACCORDANCE WITH CALIFORNIA TEST METHOD 422

FIGURE D-12

CORROSIVITY TEST RESULTS

SPANE PARK STORMWATER CAPTURE PROJECT
PARAMOUNT, CALIFORNIA

Ninyo & Moore
Geotechnical & Environmental Sciences Consultants

APPENDIX E

Drum Characterization Test Results and Transportation Manifest

March 28, 2022

Aura Scharf
Ninyo & Moore
475 Goddard Suite 200
Irvine, CA 92618
Tel: (949) 753-7070
Fax:(949) 753-7071

ELAP No.: 1838
CSDLAC No.: 10196
ORELAP No.: CA300003

Re: ATL Work Order Number : 2200400
Client Reference : Spane Park / 211892001

Enclosed are the results for sample(s) received on March 17, 2022 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated on the enclosed chain of custody in accordance with applicable laboratory certifications. The laboratory results contained in this report specifically pertains to the sample(s) submitted.

Thank you for the opportunity to serve the needs of your company. If you have any questions, please feel free to contact me or Project.Management@atlglobal.com.

Sincerely,

Victoria Michel, Project Assistant
Victoria.Michel@atlglobal.com
Authorized to Release on 03/28/22 18:59 on Behalf of

Amy Leung
Laboratory Director

The test results in this report relate exclusively to the samples as received by the laboratory, and meet the requirements of the methodology under which they were reported; any exceptions are noted within the report and/ or case narrative.

The cover letter/ signature page and the case narrative are integral parts of this analytical report; the absence of any portion of the report renders the report invalid. This report shall not be reproduced except in full, and shall have the express written approval of the laboratory, and the original client firm to do so

.

The electronic signature on this report is signed by an authorized signatory of Advanced Technology Laboratories, and is intended to be legally binding as the equivalent of a handwritten signature.

Certificate of Analysis

Ninyo & Moore		Project Number :	Spane Park / 211892001
475 Goddard Suite 200		Report To :	Aura Scharf
Irvine , CA 92618		Reported :	03/28/2022

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Spane Park Sample COMPOSITE	2200400-03	Soil	3/17/22 12:30	3/17/22 15:15

Certificate of Analysis

Ninyo & Moore	Project Number : Spane Park / 211892001
475 Goddard Suite 200	Report To : Aura Scharf
Irvine , CA 92618	Reported : 03/28/2022

Notes and Definitions

R	RPD value outside acceptance criteria. Calculation is based on raw values.
MO	Manufacturer omitted analyte within the stock standard.
M2	Matrix spike recovery outside of acceptance limit due to possible matrix interference. The analytical batch was validated by the laboratory control sample.
L5	Laboratory Control Sample high biased. Sample result/s was non-detect (ND) for the target analyte; therefore reanalysis was not necessary.
L3	Laboratory control sample outside in-house established limits but within method criteria.
ND	Analyte is not detected at or above the Practical Quantitation Limit (PQL). When client requests quantitation against MDL, analyte is not detected at or above the Method Detection Limit (MDL)
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
NR	Not Reported
RPD	Relative Percent Difference
CA2	CA-ELAP (CDPH)
OR1	OR-NELAP (OSPHL)

Notes:
(1) The reported MDL and PQL are based on prep ratio variation and analytical dilution.
(2) The suffix [2C] of specific analytes signifies that the reported result is taken from the instrument's second column.
(3) Results are wet unless otherwise specified.

Mercury by AA (Cold Vapor) EPA 7471A

Analyte: Mercury **Analyst: AEG**

Laboratory ID	Client Sample ID	Result	Units	PQL	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
2200400-03	Spane Park Sample COMPOSITE	**ND**	mg/kg	0.10	1	B2C1317	03/22/2022	03/23/22 15:15	

Certificate of Analysis

Ninyo & Moore	Project Number : Spane Park / 211892001
475 Goddard Suite 200	Report To : Aura Scharf
Irvine , CA 92618	Reported : 03/28/2022

Client Sample ID: Spane Park Sample COMPOSITE
Lab ID: 2200400-03

Title 22 Metals by ICP-AES EPA 6010B

Analyst: WT

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	1	B2C1257	03/18/2022	03/22/22 11:56	
Arsenic	**5.1**	1.0	1	B2C1257	03/18/2022	03/22/22 11:56	
Barium	**100**	1.0	1	B2C1257	03/18/2022	03/22/22 11:56	
Beryllium	**2.6**	1.0	1	B2C1257	03/18/2022	03/22/22 11:56	
Cadmium	ND	1.0	1	B2C1257	03/18/2022	03/22/22 11:56	
Chromium	**20**	1.0	1	B2C1257	03/18/2022	03/22/22 11:56	
Cobalt	**7.4**	1.0	1	B2C1257	03/18/2022	03/22/22 11:56	
Copper	**23**	2.0	1	B2C1257	03/18/2022	03/22/22 11:56	
Lead	**5.8**	1.0	1	B2C1257	03/18/2022	03/22/22 11:56	
Molybdenum	ND	1.0	1	B2C1257	03/18/2022	03/22/22 11:56	
Nickel	**12**	1.0	1	B2C1257	03/18/2022	03/22/22 11:56	
Selenium	**1.7**	1.0	1	B2C1257	03/18/2022	03/22/22 11:56	
Silver	**5.3**	1.0	1	B2C1257	03/18/2022	03/22/22 11:56	
Thallium	ND	1.0	1	B2C1257	03/18/2022	03/22/22 11:56	
Vanadium	**30**	1.0	1	B2C1257	03/18/2022	03/22/22 11:56	
Zinc	**53**	1.0	1	B2C1257	03/18/2022	03/22/22 11:56	

Hydrocarbon Chain Distribution by EPA 8015B (Modified)

Analyst: KL

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
C8-C10	ND	10	1	B2C1324	03/22/2022	03/26/22 00:41	
C10-C18	ND	10	1	B2C1324	03/22/2022	03/26/22 00:41	
C18-C28	**46**	10	1	B2C1324	03/22/2022	03/26/22 00:41	
C28-C36	**55**	10	1	B2C1324	03/22/2022	03/26/22 00:41	
C36-C40	ND	10	1	B2C1324	03/22/2022	03/26/22 00:41	
C8-C40 Total	**100**	10	1	B2C1324	03/22/2022	03/26/22 00:41	
Surrogate: p-Terphenyl	*84.0 %*	*62 - 141*		B2C1324	03/22/2022	*03/26/22 00:41*	

Volatile Organic Compounds by EPA 8260B

Analyst: KL

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	5.0	1	B2C1305	03/22/2022	03/22/22 20:58	
1,1,1-Trichloroethane	ND	5.0	1	B2C1305	03/22/2022	03/22/22 20:58	
1,1,2,2-Tetrachloroethane	ND	5.0	1	B2C1305	03/22/2022	03/22/22 20:58	
1,1,2-Trichloroethane	ND	5.0	1	B2C1305	03/22/2022	03/22/22 20:58	
1,1-Dichloroethane	ND	5.0	1	B2C1305	03/22/2022	03/22/22 20:58	
1,1-Dichloroethene	ND	5.0	1	B2C1305	03/22/2022	03/22/22 20:58	
1,1-Dichloropropene	ND	5.0	1	B2C1305	03/22/2022	03/22/22 20:58	

Certificate of Analysis

Ninyo & Moore	Project Number : Spane Park / 211892001
475 Goddard Suite 200	Report To : Aura Scharf
Irvine , CA 92618	Reported : 03/28/2022

Client Sample ID: Spane Park Sample COMPOSITE
Lab ID: 2200400-03

Volatile Organic Compounds by EPA 8260B **Analyst: KL**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,2,3-Trichloropropane	ND	5.0	1	B2C1305	03/22/2022	03/22/22 20:58	
1,2,3-Trichlorobenzene	ND	5.0	1	B2C1305	03/22/2022	03/22/22 20:58	
1,2,4-Trichlorobenzene	ND	5.0	1	B2C1305	03/22/2022	03/22/22 20:58	
1,2,4-Trimethylbenzene	ND	5.0	1	B2C1305	03/22/2022	03/22/22 20:58	
1,2-Dibromo-3-chloropropane	ND	10	1	B2C1305	03/22/2022	03/22/22 20:58	
1,2-Dibromoethane	ND	5.0	1	B2C1305	03/22/2022	03/22/22 20:58	
1,2-Dichlorobenzene	ND	5.0	1	B2C1305	03/22/2022	03/22/22 20:58	
1,2-Dichloroethane	ND	5.0	1	B2C1305	03/22/2022	03/22/22 20:58	
1,2-Dichloropropane	ND	5.0	1	B2C1305	03/22/2022	03/22/22 20:58	
1,3,5-Trimethylbenzene	ND	5.0	1	B2C1305	03/22/2022	03/22/22 20:58	
1,3-Dichlorobenzene	ND	5.0	1	B2C1305	03/22/2022	03/22/22 20:58	
1,3-Dichloropropane	ND	5.0	1	B2C1305	03/22/2022	03/22/22 20:58	
1,4-Dichlorobenzene	ND	5.0	1	B2C1305	03/22/2022	03/22/22 20:58	
2,2-Dichloropropane	ND	5.0	1	B2C1305	03/22/2022	03/22/22 20:58	
2-Chlorotoluene	ND	5.0	1	B2C1305	03/22/2022	03/22/22 20:58	
4-Chlorotoluene	ND	5.0	1	B2C1305	03/22/2022	03/22/22 20:58	
4-Isopropyltoluene	ND	5.0	1	B2C1305	03/22/2022	03/22/22 20:58	
Benzene	ND	5.0	1	B2C1305	03/22/2022	03/22/22 20:58	
Bromobenzene	ND	5.0	1	B2C1305	03/22/2022	03/22/22 20:58	
Bromochloromethane	ND	5.0	1	B2C1305	03/22/2022	03/22/22 20:58	
Bromodichloromethane	ND	5.0	1	B2C1305	03/22/2022	03/22/22 20:58	
Bromoform	ND	5.0	1	B2C1305	03/22/2022	03/22/22 20:58	
Bromomethane	ND	5.0	1	B2C1305	03/22/2022	03/22/22 20:58	
Carbon disulfide	ND	5.0	1	B2C1305	03/22/2022	03/22/22 20:58	
Carbon tetrachloride	ND	5.0	1	B2C1305	03/22/2022	03/22/22 20:58	
Chlorobenzene	ND	5.0	1	B2C1305	03/22/2022	03/22/22 20:58	
Chloroethane	ND	5.0	1	B2C1305	03/22/2022	03/22/22 20:58	
Chloroform	ND	5.0	1	B2C1305	03/22/2022	03/22/22 20:58	
Chloromethane	ND	5.0	1	B2C1305	03/22/2022	03/22/22 20:58	
cis-1,2-Dichloroethene	ND	5.0	1	B2C1305	03/22/2022	03/22/22 20:58	
cis-1,3-Dichloropropene	ND	5.0	1	B2C1305	03/22/2022	03/22/22 20:58	
Dibromochloromethane	ND	5.0	1	B2C1305	03/22/2022	03/22/22 20:58	
Dibromomethane	ND	5.0	1	B2C1305	03/22/2022	03/22/22 20:58	
Dichlorodifluoromethane	ND	5.0	1	B2C1305	03/22/2022	03/22/22 20:58	
Ethyl Acetate	ND	50	1	B2C1305	03/22/2022	03/22/22 20:58	
Ethyl Ether	ND	50	1	B2C1305	03/22/2022	03/22/22 20:58	
Ethylbenzene	ND	5.0	1	B2C1305	03/22/2022	03/22/22 20:58	
Freon-113	ND	5.0	1	B2C1305	03/22/2022	03/22/22 20:58	
Hexachlorobutadiene	ND	5.0	1	B2C1305	03/22/2022	03/22/22 20:58	
Isopropylbenzene	ND	5.0	1	B2C1305	03/22/2022	03/22/22 20:58	
m,p-Xylene	ND	10	1	B2C1305	03/22/2022	03/22/22 20:58	

Certificate of Analysis

Ninyo & Moore	Project Number : Spane Park / 211892001
475 Goddard Suite 200	Report To : Aura Scharf
Irvine , CA 92618	Reported : 03/28/2022

Client Sample ID: Spane Park Sample COMPOSITE
Lab ID: 2200400-03

Volatile Organic Compounds by EPA 8260B **Analyst: KL**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Methylene chloride	ND	5.0	1	B2C1305	03/22/2022	03/22/22 20:58	
n-Butylbenzene	ND	5.0	1	B2C1305	03/22/2022	03/22/22 20:58	
n-Propylbenzene	ND	5.0	1	B2C1305	03/22/2022	03/22/22 20:58	
Naphthalene	ND	5.0	1	B2C1305	03/22/2022	03/22/22 20:58	
o-Xylene	ND	5.0	1	B2C1305	03/22/2022	03/22/22 20:58	
sec-Butylbenzene	ND	5.0	1	B2C1305	03/22/2022	03/22/22 20:58	
Styrene	ND	5.0	1	B2C1305	03/22/2022	03/22/22 20:58	
tert-Butylbenzene	ND	5.0	1	B2C1305	03/22/2022	03/22/22 20:58	
Tetrachloroethene	ND	5.0	1	B2C1305	03/22/2022	03/22/22 20:58	
Toluene	ND	5.0	1	B2C1305	03/22/2022	03/22/22 20:58	
trans-1,2-Dichloroethene	ND	5.0	1	B2C1305	03/22/2022	03/22/22 20:58	
trans-1,3-Dichloropropene	ND	5.0	1	B2C1305	03/22/2022	03/22/22 20:58	
Trichloroethene	ND	5.0	1	B2C1305	03/22/2022	03/22/22 20:58	
Trichlorofluoromethane	ND	5.0	1	B2C1305	03/22/2022	03/22/22 20:58	
Vinyl acetate	ND	50	1	B2C1305	03/22/2022	03/22/22 20:58	
Vinyl chloride	ND	5.0	1	B2C1305	03/22/2022	03/22/22 20:58	
Surrogate: 1,2-Dichloroethane-d4	*147 %*	*66 - 200*		B2C1305	03/22/2022	*03/22/22 20:58*	
Surrogate: 4-Bromofluorobenzene	*92.0 %*	*50 - 146*		B2C1305	03/22/2022	*03/22/22 20:58*	
Surrogate: Dibromofluoromethane	*126 %*	*77 - 159*		B2C1305	03/22/2022	*03/22/22 20:58*	
Surrogate: Toluene-d8	*97.2 %*	*81 - 128*		B2C1305	03/22/2022	*03/22/22 20:58*	

Certificate of Analysis

Ninyo & Moore	Project Number : Spane Park / 211892001
475 Goddard Suite 200	Report To : Aura Scharf
Irvine , CA 92618	Reported : 03/28/2022

QUALITY CONTROL SECTION

Title 22 Metals by ICP-AES EPA 6010B - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2C1257 - EPA 3050B_S										
Blank (B2C1257-BLK1)						Prepared: 3/18/2022 Analyzed: 3/21/2022				
Antimony	ND	2.0	0.51							
Arsenic	ND	1.0	0.12							
Barium	ND	1.0	0.12							
Beryllium	ND	1.0	0.03							
Cadmium	ND	1.0	0.14							
Chromium	ND	1.0	0.26							
Cobalt	ND	1.0	0.07							
Copper	ND	2.0	0.19							
Lead	ND	1.0	0.18							
Molybdenum	ND	1.0	0.12							
Nickel	ND	1.0	0.18							
Selenium	ND	1.0	0.40							
Silver	ND	1.0	0.12							
Thallium	ND	1.0	0.38							
Vanadium	ND	1.0	0.06							
Zinc	ND	1.0	0.15							
LCS (B2C1257-BS1)						Prepared: 3/18/2022 Analyzed: 3/21/2022				
Antimony	25.9723	2.0	0.51	25.0000		104	80 - 120			
Arsenic	25.9522	1.0	0.12	25.0000		104	80 - 120			
Barium	25.7893	1.0	0.12	25.0000		103	80 - 120			
Beryllium	25.2361	1.0	0.03	25.0100		101	80 - 120			
Cadmium	26.4426	1.0	0.14	25.0000		106	80 - 120			
Chromium	25.7869	1.0	0.26	25.0000		103	80 - 120			
Cobalt	27.9854	1.0	0.07	25.0000		112	80 - 120			
Copper	24.6448	2.0	0.19	25.0000		98.6	80 - 120			
Lead	26.7042	1.0	0.18	25.0000		107	80 - 120			
Molybdenum	27.2404	1.0	0.12	25.0000		109	80 - 120			
Nickel	24.6026	1.0	0.18	25.0000		98.4	80 - 120			
Selenium	26.4878	1.0	0.40	25.0000		106	80 - 120			
Silver	11.5767	1.0	0.12	12.5000		92.6	80 - 120			
Thallium	26.5258	1.0	0.38	25.0000		106	80 - 120			
Vanadium	24.3868	1.0	0.06	25.0000		97.5	80 - 120			
Zinc	29.7941	1.0	0.15	25.0000		119	80 - 120			
Matrix Spike (B2C1257-MS1)			**Source: 2200312-01**			Prepared: 3/18/2022 Analyzed: 3/21/2022				
Antimony	16.0365	2.0	0.51	25.0000	1.13880	59.6	0 - 102			
Arsenic	29.7337	1.0	0.12	25.0000	4.42293	101	55 - 117			
Barium	141.992	1.0	0.12	25.0000	123.014	75.9	11 - 177			
Beryllium	24.5485	1.0	0.03	25.0100	1.86360	90.7	64 - 115			
Cadmium	25.3922	1.0	0.14	25.0000	0.684443	98.8	62 - 116			
Chromium	43.3702	1.0	0.26	25.0000	21.7816	86.4	42 - 145			

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Title 22 Metals by ICP-AES EPA 6010B - Quality Control (cont'd)

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2C1257 - EPA 3050B_S (continued)										
Matrix Spike (B2C1257-MS1) - Continued			**Source: 2200312-01**			Prepared: 3/18/2022 Analyzed: 3/21/2022				
Cobalt	30.9380	1.0	0.07	25.0000	6.40581	98.1	60 - 126			
Copper	43.7061	2.0	0.19	25.0000	14.8679	115	37 - 163			
Lead	715.394	1.0	0.18	25.0000	488.488	908	26 - 161			M2
Molybdenum	25.0355	1.0	0.12	25.0000	0.197933	99.4	31 - 122			
Nickel	32.7397	1.0	0.18	25.0000	10.5499	88.8	52 - 130			
Selenium	25.3232	1.0	0.40	25.0000	1.55088	95.1	25 - 129			
Silver	14.7902	1.0	0.12	12.5000	3.96163	86.6	48 - 133			
Thallium	23.4682	1.0	0.38	25.0000	0.408386	92.2	25 - 119			
Vanadium	55.0300	1.0	0.06	25.0000	33.4980	86.1	51 - 141			
Zinc	73.8490	1.0	0.15	25.0000	53.9312	79.7	8 - 170			
Matrix Spike Dup (B2C1257-MSD1)			**Source: 2200312-01**			Prepared: 3/18/2022 Analyzed: 3/21/2022				
Antimony	15.9427	2.0	0.51	25.0000	1.13880	59.2	0 - 102	0.587	20	
Arsenic	31.2768	1.0	0.12	25.0000	4.42293	107	55 - 117	5.06	20	
Barium	141.211	1.0	0.12	25.0000	123.014	72.8	11 - 177	0.551	20	
Beryllium	24.6713	1.0	0.03	25.0100	1.86360	91.2	64 - 115	0.499	20	
Cadmium	27.2084	1.0	0.14	25.0000	0.684443	106	62 - 116	6.91	20	
Chromium	47.1074	1.0	0.26	25.0000	21.7816	101	42 - 145	8.26	20	
Cobalt	31.0847	1.0	0.07	25.0000	6.40581	98.7	60 - 126	0.473	20	
Copper	41.6144	2.0	0.19	25.0000	14.8679	107	37 - 163	4.90	20	
Lead	723.702	1.0	0.18	25.0000	488.488	941	26 - 161	1.15	20	M2
Molybdenum	25.2421	1.0	0.12	25.0000	0.197933	100	31 - 122	0.822	20	
Nickel	31.7342	1.0	0.18	25.0000	10.5499	84.7	52 - 130	3.12	20	
Selenium	25.1057	1.0	0.40	25.0000	1.55088	94.2	25 - 129	0.862	20	
Silver	15.8810	1.0	0.12	12.5000	3.96163	95.4	48 - 133	7.11	20	
Thallium	23.7486	1.0	0.38	25.0000	0.408386	93.4	25 - 119	1.19	20	
Vanadium	55.8451	1.0	0.06	25.0000	33.4980	89.4	51 - 141	1.47	20	
Zinc	76.4360	1.0	0.15	25.0000	53.9312	90.0	8 - 170	3.44	20	

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Mercury by AA (Cold Vapor) EPA 7471A - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2C1317 - EPA 7471_S										
Blank (B2C1317-BLK1)						Prepared: 3/22/2022 Analyzed: 3/23/2022				
Mercury	ND	0.10	0.01							
LCS (B2C1317-BS1)						Prepared: 3/22/2022 Analyzed: 3/23/2022				
Mercury	0.419701	0.10	0.01	0.416667		101	80 - 120			
Matrix Spike (B2C1317-MS1)			**Source: 2200400-03**			Prepared: 3/22/2022 Analyzed: 3/23/2022				
Mercury	0.462872	0.10	0.01	0.416667	0.054795	97.9	70 - 130			
Matrix Spike Dup (B2C1317-MSD1)			**Source: 2200400-03**			Prepared: 3/22/2022 Analyzed: 3/23/2022				
Mercury	0.462408	0.10	0.01	0.416667	0.054795	97.8	70 - 130	0.100	20	

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Mercury by AA (Cold Vapor) EPA 7471A - Quality Control

Analyte	Result (mg/L)	PQL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2C1317 - EPA 7471_S									
Post Spike (B2C1317-PS1)			**Source: 2200400-03**		Prepared: 3/22/2022 Analyzed: 3/23/2022				
Mercury	0.005420		5.00000E-3	0.000658	95.2	85 - 115			

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Irvine , CA 92618	Reported : 03/28/2022

Hydrocarbon Chain Distribution by EPA 8015B (Modified) - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2C1324 - GCSEMI_DRO_S										
Blank (B2C1324-BLK1)						Prepared: 3/22/2022 Analyzed: 3/25/2022				
C8-C10	ND	10	3.6							
C10-C18	ND	10	3.6							
C18-C28	ND	10	3.6							
C28-C36	ND	10	3.6							
C36-C40	ND	10	3.6							
C8-C40 Total	ND	10	3.6							
Surrogate: p-Terphenyl	*68.40*			*80.0000*		*85.5*	*62 - 141*			
LCS (B2C1324-BS1)						Prepared: 3/22/2022 Analyzed: 3/25/2022				
DRO	911.091	10	3.6	1000.00		91.1	56 - 139			
Surrogate: p-Terphenyl	*75.04*			*80.0000*		*93.8*	*62 - 141*			
Matrix Spike (B2C1324-MS1)			**Source: 2200416-05**			Prepared: 3/22/2022 Analyzed: 3/25/2022				
DRO	821.299	10	3.6	1000.00	ND	82.1	38 - 161			
Surrogate: p-Terphenyl	*89.06*			*80.0000*		*111*	*62 - 141*			
Matrix Spike Dup (B2C1324-MSD1)			**Source: 2200416-05**			Prepared: 3/22/2022 Analyzed: 3/26/2022				
DRO	868.978	10	3.6	1000.00	ND	86.9	38 - 161	5.64	20	
Surrogate: p-Terphenyl	*92.16*			*80.0000*		*115*	*62 - 141*			

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Ninyo & Moore	Project Number : Spane Park / 211892001
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Volatile Organic Compounds by EPA 8260B - Quality Control

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2C1305 - MSVOA_S										
Blank (B2C1305-BLK1)						Prepared: 3/22/2022 Analyzed: 3/22/2022				
1,1,1,2-Tetrachloroethane	ND	5.0	0.52							
1,1,1-Trichloroethane	ND	5.0	0.26							
1,1,2,2-Tetrachloroethane	ND	5.0	0.21							
1,1,2-Trichloroethane	ND	5.0	0.40							
1,1-Dichloroethane	ND	5.0	1.4							
1,1-Dichloroethene	ND	5.0	1.9							
1,1-Dichloropropene	ND	5.0	0.54							
1,2,3-Trichloropropane	ND	5.0	0.40							
1,2,3-Trichlorobenzene	ND	5.0	0.83							
1,2,4-Trichlorobenzene	ND	5.0	0.80							
1,2,4-Trimethylbenzene	ND	5.0	0.91							
1,2-Dibromo-3-chloropropane	ND	10	1.1							
1,2-Dibromoethane	ND	5.0	0.40							
1,2-Dichlorobenzene	ND	5.0	0.21							
1,2-Dichloroethane	ND	5.0	0.50							
1,2-Dichloropropane	ND	5.0	0.46							
1,3,5-Trimethylbenzene	ND	5.0	0.70							
1,3-Dichlorobenzene	ND	5.0	0.36							
1,3-Dichloropropane	ND	5.0	0.49							
1,4-Dichlorobenzene	ND	5.0	0.27							
2,2-Dichloropropane	ND	5.0	0.28							
2-Chlorotoluene	ND	5.0	0.53							
4-Chlorotoluene	ND	5.0	0.40							
4-Isopropyltoluene	ND	5.0	0.81							
Benzene	ND	5.0	0.36							
Bromobenzene	ND	5.0	0.62							
Bromochloromethane	ND	5.0	0.30							
Bromodichloromethane	ND	5.0	0.52							
Bromoform	ND	5.0	1.4							
Bromomethane	ND	5.0	2.5							
Carbon disulfide	ND	5.0	0.94							
Carbon tetrachloride	ND	5.0	0.73							
Chlorobenzene	ND	5.0	0.42							
Chloroethane	ND	5.0	1.5							
Chloroform	ND	5.0	0.24							
Chloromethane	ND	5.0	1.1							
cis-1,2-Dichloroethene	ND	5.0	0.20							
cis-1,3-Dichloropropene	ND	5.0	0.39							
Dibromochloromethane	ND	5.0	0.81							
Dibromomethane	ND	5.0	0.23							
Dichlorodifluoromethane	ND	5.0	0.14							
Ethyl Acetate	ND	50	7.0							
Ethyl Ether	ND	50	17							
Ethylbenzene	ND	5.0	0.43							
Freon-113	ND	5.0	1.3							

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Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2C1305 - MSVOA_S (continued)										
Blank (B2C1305-BLK1) - Continued						Prepared: 3/22/2022 Analyzed: 3/22/2022				
Hexachlorobutadiene	ND	5.0	0.40							
Isopropylbenzene	ND	5.0	0.79							
m,p-Xylene	ND	10	0.98							
Methylene chloride	ND	5.0	2.2							
n-Butylbenzene	ND	5.0	1.2							
n-Propylbenzene	ND	5.0	0.78							
Naphthalene	ND	5.0	1.1							
o-Xylene	ND	5.0	0.67							
sec-Butylbenzene	ND	5.0	0.63							
Styrene	ND	5.0	0.45							
tert-Butylbenzene	ND	5.0	0.80							
Tetrachloroethene	ND	5.0	0.31							
Toluene	ND	5.0	0.27							
trans-1,2-Dichloroethene	ND	5.0	0.56							
trans-1,3-Dichloropropene	ND	5.0	0.59							
Trichloroethene	ND	5.0	0.32							
Trichlorofluoromethane	ND	5.0	1.0							
Vinyl acetate	ND	50	6.0							
Vinyl chloride	ND	5.0	0.92							
Surrogate: 1,2-Dichloroethane-d4	*61.45*			*50.0000*		*123*	*66 - 200*			
Surrogate: 4-Bromofluorobenzene	*47.10*			*50.0000*		*94.2*	*50 - 146*			
Surrogate: Dibromofluoromethane	*55.55*			*50.0000*		*111*	*77 - 159*			
Surrogate: Toluene-d8	*48.09*			*50.0000*		*96.2*	*81 - 128*			
LCS (B2C1305-BS1)						Prepared: 3/22/2022 Analyzed: 3/22/2022				
1,1,1,2-Tetrachloroethane	49.2000	5.0	0.52	50.0000		98.4	84 - 123			
1,1,1-Trichloroethane	57.5000	5.0	0.26	50.0000		115	78 - 133			
1,1,2,2-Tetrachloroethane	47.3000	5.0	0.21	50.0000		94.6	63 - 127			
1,1,2-Trichloroethane	54.4000	5.0	0.40	50.0000		109	80 - 125			
1,1-Dichloroethane	58.0200	5.0	1.4	50.0000		116	77 - 128			
1,1-Dichloroethene	55.3800	5.0	1.9	50.0000		111	69 - 138			
1,1-Dichloropropene	52.0400	5.0	0.54	50.0000		104	80 - 133			
1,2,3-Trichloropropane	50.5500	5.0	0.40	50.0000		101	74 - 123			
1,2,3-Trichlorobenzene	47.7200	5.0	0.83	50.0000		95.4	79 - 133			
1,2,4-Trichlorobenzene	48.0000	5.0	0.80	50.0000		96.0	73 - 131			
1,2,4-Trimethylbenzene	51.1800	5.0	0.91	50.0000		102	86 - 137			
1,2-Dibromo-3-chloropropane	52.3600	10	1.1	50.0000		105	62 - 127			
1,2-Dibromoethane	51.1900	5.0	0.40	50.0000		102	83 - 126			
1,2-Dichlorobenzene	47.0500	5.0	0.21	50.0000		94.1	83 - 123			
1,2-Dichloroethane	57.2400	5.0	0.50	50.0000		114	76 - 128			
1,2-Dichloropropane	49.4900	5.0	0.46	50.0000		99.0	77 - 121			
1,3,5-Trimethylbenzene	50.8300	5.0	0.70	50.0000		102	84 - 135			
1,3-Dichlorobenzene	48.4900	5.0	0.36	50.0000		97.0	81 - 126			
1,3-Dichloropropane	49.2900	5.0	0.49	50.0000		98.6	80 - 118			
1,4-Dichlorobenzene	49.6000	5.0	0.27	50.0000		99.2	80 - 124			

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Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2C1305 - MSVOA_S (continued)										
LCS (B2C1305-BS1) - Continued						Prepared: 3/22/2022 Analyzed: 3/22/2022				
2,2-Dichloropropane	54.3700	5.0	0.28	50.0000		109	72 - 135			
2-Chlorotoluene	50.2900	5.0	0.53	50.0000		101	81 - 127			
4-Chlorotoluene	52.2400	5.0	0.40	50.0000		104	83 - 127			
4-Isopropyltoluene	49.6800	5.0	0.81	50.0000		99.4	82 - 143			
Benzene	54.6800	5.0	0.36	50.0000		109	84 - 123			
Bromobenzene	52.0900	5.0	0.62	50.0000		104	80 - 122			
Bromochloromethane	54.7300	5.0	0.30	50.0000		109	83 - 127			
Bromodichloromethane	55.2900	5.0	0.52	50.0000		111	82 - 123			
Bromoform	46.4700	5.0	1.4	50.0000		92.9	80 - 132			
Bromomethane	79.8400	5.0	2.5	50.0000		160	67 - 176			
Carbon disulfide	55.8100	5.0	0.94	50.0000		112	75 - 138			
Carbon tetrachloride	50.9800	5.0	0.73	50.0000		102	76 - 131			
Chlorobenzene	49.2600	5.0	0.42	50.0000		98.5	84 - 119			
Chloroethane	63.8500	5.0	1.5	50.0000		128	56 - 170			
Chloroform	57.0100	5.0	0.24	50.0000		114	78 - 129			
Chloromethane	54.2500	5.0	1.1	50.0000		108	63 - 141			
cis-1,2-Dichloroethene	41.9400	5.0	0.20	50.0000		83.9	83 - 125			
cis-1,3-Dichloropropene	44.8500	5.0	0.39	50.0000		89.7	76 - 129			
Dibromochloromethane	46.8500	5.0	0.81	50.0000		93.7	81 - 120			
Dibromomethane	48.9100	5.0	0.23	50.0000		97.8	79 - 124			
Dichlorodifluoromethane	46.5400	5.0	0.14	50.0000		93.1	18 - 199			
Ethyl Acetate	28.5600	50	7.0	500.000		5.71	76 - 138			MO
Ethyl Ether	650.800	50	17	500.000		130	74 - 128			L3
Ethylbenzene	51.2400	5.0	0.43	50.0000		102	86 - 130			
Freon-113	64.6800	5.0	1.3	50.0000		129	66 - 132			
Hexachlorobutadiene	51.7700	5.0	0.40	50.0000		104	64 - 135			
Isopropylbenzene	52.9800	5.0	0.79	50.0000		106	80 - 133			
m,p-Xylene	100.490	10	0.98	100.000		100	89 - 133			
Methylene chloride	57.7700	5.0	2.2	50.0000		116	72 - 143			
n-Butylbenzene	51.9200	5.0	1.2	50.0000		104	76 - 144			
n-Propylbenzene	51.8500	5.0	0.78	50.0000		104	81 - 136			
Naphthalene	44.8100	5.0	1.1	50.0000		89.6	64 - 128			
o-Xylene	50.1500	5.0	0.67	50.0000		100	82 - 134			
sec-Butylbenzene	51.2600	5.0	0.63	50.0000		103	81 - 138			
Styrene	47.8100	5.0	0.45	50.0000		95.6	79 - 152			
tert-Butylbenzene	49.7000	5.0	0.80	50.0000		99.4	81 - 135			
Tetrachloroethene	48.0500	5.0	0.31	50.0000		96.1	75 - 127			
Toluene	52.6600	5.0	0.27	50.0000		105	88 - 130			
trans-1,2-Dichloroethene	70.5400	5.0	0.56	50.0000		141	79 - 127			L5
trans-1,3-Dichloropropene	48.6500	5.0	0.59	50.0000		97.3	80 - 130			
Trichloroethene	53.6500	5.0	0.32	50.0000		107	83 - 126			
Trichlorofluoromethane	66.4300	5.0	1.0	50.0000		133	62 - 143			
Vinyl acetate	34.6500	50	6.0	500.000		6.93	69 - 150			MO
Vinyl chloride	61.4100	5.0	0.92	50.0000		123	69 - 140			

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Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)		Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2C1305 - MSVOA_S (continued)										
LCS (B2C1305-BS1) - Continued						Prepared: 3/22/2022 Analyzed: 3/22/2022				
Surrogate: 1,2-Dichloroethane-d4	*58.63*			*50.0000*		*117*	*66 - 200*			
Surrogate: 4-Bromofluorobenzene	*47.76*			*50.0000*		*95.5*	*50 - 146*			
Surrogate: Dibromofluoromethane	*54.90*			*50.0000*		*110*	*77 - 159*			
Surrogate: Toluene-d8	*49.92*			*50.0000*		*99.8*	*81 - 128*			
LCS Dup (B2C1305-BSD1)						Prepared: 3/22/2022 Analyzed: 3/22/2022				
1,1,1,2-Tetrachloroethane	44.1100	5.0	0.52	50.0000		88.2	84 - 123	10.9	20	
1,1,1-Trichloroethane	52.8400	5.0	0.26	50.0000		106	78 - 133	8.45	20	
1,1,2,2-Tetrachloroethane	44.3400	5.0	0.21	50.0000		88.7	63 - 127	6.46	20	
1,1,2-Trichloroethane	50.7000	5.0	0.40	50.0000		101	80 - 125	7.04	20	
1,1-Dichloroethane	54.1100	5.0	1.4	50.0000		108	77 - 128	6.97	20	
1,1-Dichloroethene	47.1100	5.0	1.9	50.0000		94.2	69 - 138	16.1	20	
1,1-Dichloropropene	52.3600	5.0	0.54	50.0000		105	80 - 133	0.613	20	
1,2,3-Trichloropropane	47.6400	5.0	0.40	50.0000		95.3	74 - 123	5.93	20	
1,2,3-Trichlorobenzene	45.4800	5.0	0.83	50.0000		91.0	79 - 133	4.81	20	
1,2,4-Trichlorobenzene	46.0600	5.0	0.80	50.0000		92.1	73 - 131	4.13	20	
1,2,4-Trimethylbenzene	47.3300	5.0	0.91	50.0000		94.7	86 - 137	7.82	20	
1,2-Dibromo-3-chloropropane	45.1000	10	1.1	50.0000		90.2	62 - 127	14.9	20	
1,2-Dibromoethane	51.5900	5.0	0.40	50.0000		103	83 - 126	0.778	20	
1,2-Dichlorobenzene	47.1800	5.0	0.21	50.0000		94.4	83 - 123	0.276	20	
1,2-Dichloroethane	55.6400	5.0	0.50	50.0000		111	76 - 128	2.83	20	
1,2-Dichloropropane	50.0100	5.0	0.46	50.0000		100	77 - 121	1.05	20	
1,3,5-Trimethylbenzene	46.7600	5.0	0.70	50.0000		93.5	84 - 135	8.34	20	
1,3-Dichlorobenzene	47.0900	5.0	0.36	50.0000		94.2	81 - 126	2.93	20	
1,3-Dichloropropane	46.5600	5.0	0.49	50.0000		93.1	80 - 118	5.70	20	
1,4-Dichlorobenzene	45.6100	5.0	0.27	50.0000		91.2	80 - 124	8.38	20	
2,2-Dichloropropane	51.9400	5.0	0.28	50.0000		104	72 - 135	4.57	20	
2-Chlorotoluene	49.3300	5.0	0.53	50.0000		98.7	81 - 127	1.93	20	
4-Chlorotoluene	50.1300	5.0	0.40	50.0000		100	83 - 127	4.12	20	
4-Isopropyltoluene	45.3300	5.0	0.81	50.0000		90.7	82 - 143	9.16	20	
Benzene	52.6400	5.0	0.36	50.0000		105	84 - 123	3.80	20	
Bromobenzene	48.1800	5.0	0.62	50.0000		96.4	80 - 122	7.80	20	
Bromochloromethane	48.8000	5.0	0.30	50.0000		97.6	83 - 127	11.5	20	
Bromodichloromethane	54.7500	5.0	0.52	50.0000		110	82 - 123	0.981	20	
Bromoform	44.9600	5.0	1.4	50.0000		89.9	80 - 132	3.30	20	
Bromomethane	72.2300	5.0	2.5	50.0000		144	67 - 176	10.0	20	
Carbon disulfide	48.4800	5.0	0.94	50.0000		97.0	75 - 138	14.1	20	
Carbon tetrachloride	50.3400	5.0	0.73	50.0000		101	76 - 131	1.26	20	
Chlorobenzene	46.3100	5.0	0.42	50.0000		92.6	84 - 119	6.17	20	
Chloroethane	55.3500	5.0	1.5	50.0000		111	56 - 170	14.3	20	
Chloroform	55.7900	5.0	0.24	50.0000		112	78 - 129	2.16	20	
Chloromethane	50.3800	5.0	1.1	50.0000		101	63 - 141	7.40	20	
cis-1,2-Dichloroethene	39.8800	5.0	0.20	50.0000		79.8	83 - 125	5.04	20	L3
cis-1,3-Dichloropropene	43.0800	5.0	0.39	50.0000		86.2	76 - 129	4.03	20	
Dibromochloromethane	45.7500	5.0	0.81	50.0000		91.5	81 - 120	2.38	20	

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Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2C1305 - MSVOA_S (continued)										
LCS Dup (B2C1305-BSD1) - Continued						Prepared: 3/22/2022 Analyzed: 3/22/2022				
Dibromomethane	50.5200	5.0	0.23	50.0000		101	79 - 124	3.24	20	
Dichlorodifluoromethane	38.9500	5.0	0.14	50.0000		77.9	18 - 199	17.8	20	
Ethyl Acetate	27.4300	50	7.0	500.000		5.49	76 - 138	4.04	20	MO
Ethyl Ether	601.280	50	17	500.000		120	74 - 128	7.91	20	
Ethylbenzene	47.3000	5.0	0.43	50.0000		94.6	86 - 130	8.00	20	
Freon-113	57.0900	5.0	1.3	50.0000		114	66 - 132	12.5	20	
Hexachlorobutadiene	47.9500	5.0	0.40	50.0000		95.9	64 - 135	7.66	20	
Isopropylbenzene	48.5200	5.0	0.79	50.0000		97.0	80 - 133	8.79	20	
m,p-Xylene	92.7600	10	0.98	100.000		92.8	89 - 133	8.00	20	
Methylene chloride	52.6400	5.0	2.2	50.0000		105	72 - 143	9.29	20	
n-Butylbenzene	46.8600	5.0	1.2	50.0000		93.7	76 - 144	10.2	20	
n-Propylbenzene	48.0300	5.0	0.78	50.0000		96.1	81 - 136	7.65	20	
Naphthalene	42.8000	5.0	1.1	50.0000		85.6	64 - 128	4.59	20	
o-Xylene	47.3800	5.0	0.67	50.0000		94.8	82 - 134	5.68	20	
sec-Butylbenzene	48.1800	5.0	0.63	50.0000		96.4	81 - 138	6.19	20	
Styrene	46.9500	5.0	0.45	50.0000		93.9	79 - 152	1.82	20	
tert-Butylbenzene	46.1300	5.0	0.80	50.0000		92.3	81 - 135	7.45	20	
Tetrachloroethene	44.2400	5.0	0.31	50.0000		88.5	75 - 127	8.26	20	
Toluene	50.7100	5.0	0.27	50.0000		101	88 - 130	3.77	20	
trans-1,2-Dichloroethene	70.6300	5.0	0.56	50.0000		141	79 - 127	0.128	20	L5
trans-1,3-Dichloropropene	49.5400	5.0	0.59	50.0000		99.1	80 - 130	1.81	20	
Trichloroethene	51.1000	5.0	0.32	50.0000		102	83 - 126	4.87	20	
Trichlorofluoromethane	59.7200	5.0	1.0	50.0000		119	62 - 143	10.6	20	
Vinyl acetate	31.4700	50	6.0	500.000		6.29	69 - 150	9.62	20	MO
Vinyl chloride	57.5500	5.0	0.92	50.0000		115	69 - 140	6.49	20	
Surrogate: 1,2-Dichloroethane-d4	*54.49*			*50.0000*		*109*	*66 - 200*			
Surrogate: 4-Bromofluorobenzene	*47.08*			*50.0000*		*94.2*	*50 - 146*			
Surrogate: Dibromofluoromethane	*53.45*			*50.0000*		*107*	*77 - 159*			
Surrogate: Toluene-d8	*51.08*			*50.0000*		*102*	*81 - 128*			
Matrix Spike (B2C1305-MS1)			**Source: 2200424-01**			Prepared: 3/22/2022 Analyzed: 3/22/2022				
1,1,1,2-Tetrachloroethane	40.2400	5.0	0.52	50.0000	ND	80.5	50 - 126			
1,1,1-Trichloroethane	49.5300	5.0	0.26	50.0000	ND	99.1	56 - 144			
1,1,2,2-Tetrachloroethane	40.3100	5.0	0.21	50.0000	ND	80.6	20 - 153			
1,1,2-Trichloroethane	46.4200	5.0	0.40	50.0000	ND	92.8	0 - 421			
1,1-Dichloroethane	48.1300	5.0	1.4	50.0000	ND	96.3	58 - 131			
1,1-Dichloroethene	50.1500	5.0	1.9	50.0000	ND	100	60 - 143			
1,1-Dichloropropene	46.8200	5.0	0.54	50.0000	ND	93.6	57 - 144			
1,2,3-Trichloropropane	42.1600	5.0	0.40	50.0000	ND	84.3	52 - 121			
1,2,3-Trichlorobenzene	34.8000	5.0	0.83	50.0000	ND	69.6	0 - 153			
1,2,4-Trichlorobenzene	34.3000	5.0	0.80	50.0000	ND	68.6	0 - 146			
1,2,4-Trimethylbenzene	40.1400	5.0	0.91	50.0000	ND	80.3	26 - 155			
1,2-Dibromo-3-chloropropane	38.1400	10	1.1	50.0000	ND	76.3	36 - 125			
1,2-Dibromoethane	44.0100	5.0	0.40	50.0000	ND	88.0	56 - 127			
1,2-Dichlorobenzene	36.8700	5.0	0.21	50.0000	ND	73.7	26 - 136			

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Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2C1305 - MSVOA_S (continued)										
Matrix Spike (B2C1305-MS1) - Continued		**Source: 2200424-01**				Prepared: 3/22/2022 Analyzed: 3/22/2022				
1,2-Dichloroethane	48.4300	5.0	0.50	50.0000	ND	96.9	60 - 118			
1,2-Dichloropropane	45.7800	5.0	0.46	50.0000	ND	91.6	52 - 124			
1,3,5-Trimethylbenzene	40.3400	5.0	0.70	50.0000	ND	80.7	31 - 152			
1,3-Dichlorobenzene	39.9800	5.0	0.36	50.0000	ND	80.0	26 - 140			
1,3-Dichloropropane	41.8300	5.0	0.49	50.0000	ND	83.7	56 - 118			
1,4-Dichlorobenzene	38.1900	5.0	0.27	50.0000	ND	76.4	27 - 136			
2,2-Dichloropropane	50.8100	5.0	0.28	50.0000	ND	102	50 - 146			
2-Chlorotoluene	42.3200	5.0	0.53	50.0000	ND	84.6	28 - 149			
4-Chlorotoluene	40.9200	5.0	0.40	50.0000	ND	81.8	35 - 142			
4-Isopropyltoluene	37.4400	5.0	0.81	50.0000	ND	74.9	12 - 175			
Benzene	46.9800	5.0	0.36	50.0000	ND	94.0	61 - 127			
Bromobenzene	40.7100	5.0	0.62	50.0000	ND	81.4	40 - 129			
Bromochloromethane	47.4400	5.0	0.30	50.0000	ND	94.9	57 - 135			
Bromodichloromethane	46.8700	5.0	0.52	50.0000	ND	93.7	58 - 119			
Bromoform	41.4300	5.0	1.4	50.0000	ND	82.9	48 - 130			
Bromomethane	64.7000	5.0	2.5	50.0000	ND	129	40 - 183			
Carbon disulfide	51.7400	5.0	0.94	50.0000	ND	103	49 - 153			
Carbon tetrachloride	49.7000	5.0	0.73	50.0000	ND	99.4	49 - 146			
Chlorobenzene	39.2300	5.0	0.42	50.0000	ND	78.5	46 - 128			
Chloroethane	55.5800	5.0	1.5	50.0000	ND	111	37 - 178			
Chloroform	49.1700	5.0	0.24	50.0000	ND	98.3	59 - 129			
Chloromethane	49.4500	5.0	1.1	50.0000	ND	98.9	31 - 168			
cis-1,2-Dichloroethene	37.9900	5.0	0.20	50.0000	ND	76.0	52 - 137			
cis-1,3-Dichloropropene	39.6900	5.0	0.39	50.0000	0.403226	78.6	45 - 130			
Dibromochloromethane	38.5800	5.0	0.81	50.0000	ND	77.2	56 - 117			
Dibromomethane	46.5600	5.0	0.23	50.0000	ND	93.1	62 - 116			
Dichlorodifluoromethane	42.3900	5.0	0.14	50.0000	ND	84.8	0 - 266			
Ethyl Acetate	23.0900	50	7.0	500.000	ND	4.62	16 - 156			MO
Ethyl Ether	546.430	50	17	500.000	ND	109	58 - 127			
Ethylbenzene	42.0900	5.0	0.43	50.0000	ND	84.2	43 - 144			
Freon-113	59.3600	5.0	1.3	50.0000	ND	119	45 - 148			
Hexachlorobutadiene	27.5900	5.0	0.40	50.0000	ND	55.2	0 - 149			
Isopropylbenzene	43.5100	5.0	0.79	50.0000	ND	87.0	38 - 148			
m,p-Xylene	81.8700	10	0.98	100.000	ND	81.9	43 - 146			
Methylene chloride	50.2600	5.0	2.2	50.0000	ND	101	51 - 139			
n-Butylbenzene	37.2300	5.0	1.2	50.0000	ND	74.5	11 - 163			
n-Propylbenzene	41.8200	5.0	0.78	50.0000	ND	83.6	31 - 154			
Naphthalene	35.7700	5.0	1.1	50.0000	ND	71.5	0 - 266			
o-Xylene	40.8800	5.0	0.67	50.0000	ND	81.8	40 - 142			
sec-Butylbenzene	38.0600	5.0	0.63	50.0000	ND	76.1	20 - 161			
Styrene	38.7700	5.0	0.45	50.0000	ND	77.5	31 - 157			
tert-Butylbenzene	38.6300	5.0	0.80	50.0000	ND	77.3	28 - 155			
Tetrachloroethene	42.1900	5.0	0.31	50.0000	ND	84.4	39 - 144			
Toluene	46.1600	5.0	0.27	50.0000	ND	92.3	10 - 179			
trans-1,2-Dichloroethene	67.0000	5.0	0.56	50.0000	ND	134	60 - 135			

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Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2C1305 - MSVOA_S (continued)										
Matrix Spike (B2C1305-MS1) - Continued			**Source: 2200424-01**			Prepared: 3/22/2022 Analyzed: 3/22/2022				
trans-1,3-Dichloropropene	43.7900	5.0	0.59	50.0000	ND	87.6	53 - 131			
Trichloroethene	49.0900	5.0	0.32	50.0000	ND	98.2	54 - 135			
Trichlorofluoromethane	60.3800	5.0	1.0	50.0000	ND	121	35 - 165			
Vinyl acetate	27.5900	50	6.0	500.000	ND	5.52	0 - 180			
Vinyl chloride	58.0300	5.0	0.92	50.0000	ND	116	44 - 165			
Surrogate: 1,2-Dichloroethane-d4	*60.08*			*50.0000*		*120*	*66 - 200*			
Surrogate: 4-Bromofluorobenzene	*50.63*			*50.0000*		*101*	*50 - 146*			
Surrogate: Dibromofluoromethane	*55.64*			*50.0000*		*111*	*77 - 159*			
Surrogate: Toluene-d8	*50.35*			*50.0000*		*101*	*81 - 128*			
Matrix Spike Dup (B2C1305-MSD1)			**Source: 2200424-01**			Prepared: 3/22/2022 Analyzed: 3/22/2022				
1,1,1,2-Tetrachloroethane	41.5800	5.0	0.52	50.0000	ND	83.2	50 - 126	3.28	20	
1,1,1-Trichloroethane	47.6900	5.0	0.26	50.0000	ND	95.4	56 - 144	3.79	20	
1,1,2,2-Tetrachloroethane	41.7200	5.0	0.21	50.0000	ND	83.4	20 - 153	3.44	20	
1,1,2-Trichloroethane	48.1400	5.0	0.40	50.0000	ND	96.3	0 - 421	3.64	20	
1,1-Dichloroethane	46.5700	5.0	1.4	50.0000	ND	93.1	58 - 131	3.29	20	
1,1-Dichloroethene	44.6500	5.0	1.9	50.0000	ND	89.3	60 - 143	11.6	20	
1,1-Dichloropropene	47.5000	5.0	0.54	50.0000	ND	95.0	57 - 144	1.44	20	
1,2,3-Trichloropropane	45.6200	5.0	0.40	50.0000	ND	91.2	52 - 121	7.88	20	
1,2,3-Trichlorobenzene	38.6600	5.0	0.83	50.0000	ND	77.3	0 - 153	10.5	20	
1,2,4-Trichlorobenzene	36.6100	5.0	0.80	50.0000	ND	73.2	0 - 146	6.52	20	
1,2,4-Trimethylbenzene	42.3700	5.0	0.91	50.0000	ND	84.7	26 - 155	5.41	20	
1,2-Dibromo-3-chloropropane	44.2700	10	1.1	50.0000	ND	88.5	36 - 125	14.9	20	
1,2-Dibromoethane	46.0500	5.0	0.40	50.0000	ND	92.1	56 - 127	4.53	20	
1,2-Dichlorobenzene	40.5000	5.0	0.21	50.0000	ND	81.0	26 - 136	9.38	20	
1,2-Dichloroethane	49.3600	5.0	0.50	50.0000	ND	98.7	60 - 118	1.90	20	
1,2-Dichloropropane	44.1100	5.0	0.46	50.0000	ND	88.2	52 - 124	3.72	20	
1,3,5-Trimethylbenzene	41.8500	5.0	0.70	50.0000	ND	83.7	31 - 152	3.67	20	
1,3-Dichlorobenzene	40.8300	5.0	0.36	50.0000	ND	81.7	26 - 140	2.10	20	
1,3-Dichloropropane	44.1000	5.0	0.49	50.0000	ND	88.2	56 - 118	5.28	20	
1,4-Dichlorobenzene	40.8300	5.0	0.27	50.0000	ND	81.7	27 - 136	6.68	20	
2,2-Dichloropropane	46.5700	5.0	0.28	50.0000	ND	93.1	50 - 146	8.71	20	
2-Chlorotoluene	43.0400	5.0	0.53	50.0000	ND	86.1	28 - 149	1.69	20	
4-Chlorotoluene	43.7000	5.0	0.40	50.0000	ND	87.4	35 - 142	6.57	20	
4-Isopropyltoluene	39.4700	5.0	0.81	50.0000	ND	78.9	12 - 175	5.28	20	
Benzene	46.8400	5.0	0.36	50.0000	ND	93.7	61 - 127	0.298	20	
Bromobenzene	42.9900	5.0	0.62	50.0000	ND	86.0	40 - 129	5.45	20	
Bromochloromethane	42.1200	5.0	0.30	50.0000	ND	84.2	57 - 135	11.9	20	
Bromodichloromethane	48.6500	5.0	0.52	50.0000	ND	97.3	58 - 119	3.73	20	
Bromoform	43.2300	5.0	1.4	50.0000	ND	86.5	48 - 130	4.25	20	
Bromomethane	50.8900	5.0	2.5	50.0000	ND	102	40 - 183	23.9	20	R
Carbon disulfide	44.8500	5.0	0.94	50.0000	ND	89.7	49 - 153	14.3	20	
Carbon tetrachloride	46.8000	5.0	0.73	50.0000	ND	93.6	49 - 146	6.01	20	
Chlorobenzene	42.4800	5.0	0.42	50.0000	ND	85.0	46 - 128	7.95	20	
Chloroethane	51.5500	5.0	1.5	50.0000	ND	103	37 - 178	7.52	20	

Certificate of Analysis

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Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2C1305 - MSVOA_S (continued)										
Matrix Spike Dup (B2C1305-MSD1) - Continued		**Source: 2200424-01**				Prepared: 3/22/2022 Analyzed: 3/22/2022				
Chloroform	47.3500	5.0	0.24	50.0000	ND	94.7	59 - 129	3.77	20	
Chloromethane	47.0500	5.0	1.1	50.0000	ND	94.1	31 - 168	4.97	20	
cis-1,2-Dichloroethene	35.5400	5.0	0.20	50.0000	ND	71.1	52 - 137	6.66	20	
cis-1,3-Dichloropropene	41.7700	5.0	0.39	50.0000	0.403226	82.7	45 - 130	5.11	20	
Dibromochloromethane	41.1200	5.0	0.81	50.0000	ND	82.2	56 - 117	6.37	20	
Dibromomethane	44.2500	5.0	0.23	50.0000	ND	88.5	62 - 116	5.09	20	
Dichlorodifluoromethane	38.1700	5.0	0.14	50.0000	ND	76.3	0 - 266	10.5	20	
Ethyl Acetate	24.8900	50	7.0	500.000	ND	4.98	16 - 156	7.50	20	MO
Ethyl Ether	506.980	50	17	500.000	ND	101	58 - 127	7.49	20	
Ethylbenzene	43.0900	5.0	0.43	50.0000	ND	86.2	43 - 144	2.35	20	
Freon-113	53.0400	5.0	1.3	50.0000	ND	106	45 - 148	11.2	20	
Hexachlorobutadiene	31.1300	5.0	0.40	50.0000	ND	62.3	0 - 149	12.1	20	
Isopropylbenzene	45.0900	5.0	0.79	50.0000	ND	90.2	38 - 148	3.57	20	
m,p-Xylene	84.2200	10	0.98	100.000	ND	84.2	43 - 146	2.83	20	
Methylene chloride	46.0900	5.0	2.2	50.0000	ND	92.2	51 - 139	8.66	20	
n-Butylbenzene	39.1700	5.0	1.2	50.0000	ND	78.3	11 - 163	5.08	20	
n-Propylbenzene	43.4900	5.0	0.78	50.0000	ND	87.0	31 - 154	3.92	20	
Naphthalene	38.0200	5.0	1.1	50.0000	ND	76.0	0 - 266	6.10	20	
o-Xylene	43.1500	5.0	0.67	50.0000	ND	86.3	40 - 142	5.40	20	
sec-Butylbenzene	41.7400	5.0	0.63	50.0000	ND	83.5	20 - 161	9.22	20	
Styrene	43.2300	5.0	0.45	50.0000	ND	86.5	31 - 157	10.9	20	
tert-Butylbenzene	40.9400	5.0	0.80	50.0000	ND	81.9	28 - 155	5.81	20	
Tetrachloroethene	39.2200	5.0	0.31	50.0000	ND	78.4	39 - 144	7.30	20	
Toluene	44.7900	5.0	0.27	50.0000	ND	89.6	10 - 179	3.01	20	
trans-1,2-Dichloroethene	59.8100	5.0	0.56	50.0000	ND	120	60 - 135	11.3	20	
trans-1,3-Dichloropropene	44.3000	5.0	0.59	50.0000	ND	88.6	53 - 131	1.16	20	
Trichloroethene	48.0800	5.0	0.32	50.0000	ND	96.2	54 - 135	2.08	20	
Trichlorofluoromethane	54.6800	5.0	1.0	50.0000	ND	109	35 - 165	9.91	20	
Vinyl acetate	26.4400	50	6.0	500.000	ND	5.29	0 - 180	4.26	20	
Vinyl chloride	52.2800	5.0	0.92	50.0000	ND	105	44 - 165	10.4	20	
Surrogate: 1,2-Dichloroethane-d4	*56.28*			*50.0000*		*113*	*66 - 200*			
Surrogate: 4-Bromofluorobenzene	*51.18*			*50.0000*		*102*	*50 - 146*			
Surrogate: Dibromofluoromethane	*56.82*			*50.0000*		*114*	*77 - 159*			
Surrogate: Toluene-d8	*51.36*			*50.0000*		*103*	*81 - 128*			

CHAIN OF CUSTODY RECORD

ADVANCED TECHNOLOGY LABORATORIES

3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

Page 1 of 1

2200400

FOR LABORATORY USE ONLY — ATLCOC Ver:20210101

Method of Transport: ☐ Client ☒ ATL ☐ FedEx ☐ OnTrac ☐ GSO ☐ Other:

Sample Conditions Upon Receipt

Condition	Y	N	Condition	Y	N
1. CHILLED	☒	☐	5. # OF SAMPLES MATCH COC	☒	☐
2. HEADSPACE (VOA) < 6mm	☐	☐	6. PRESERVED	☐	☒
3. CONTAINER INTACT	☒	☐	7. Cooler Temp (°C)	3.4	
4. SEALED	☐	☒	8. THERMOMETER ID:		

Company:	Ninyo & Moore	Address:	475 Goddard	Tel:	949-753-7070
SEND REPORT TO:		City: Irvine	State: CA	Zip: 92618	Fax: 949-753-7071
Attn:	Aura Scharf	Email:	SEND INVOICE TO: ☐ same as SEND REPORT TO		
Company:	Ninyo & Moore	Attn:	Aura Scharf	Email:	ascharf@ninyoandmoore.com
Address:	475 Goddard	Company:	Ninyo & Moore		
City:	Irvine	State: CA	Zip: 92618	Address:	475 Goddard
		City:	Irvine	State: CA	Zip: 92618

EDD: ☐ Excel ☐ EDF ☐ Equis

QA/QC: ☒ Routine ☐ Caltrans Legal ☐ RWQCB Level IV

Project Name:	Spane Park	Quote #:	NA
Project No.:	211892001	PO #:	NA
Sampler:	Allison Prizlow		

Requested Analysis: TPH 8015B (Gasoline Range); VOCs 8260B; Title 22 Metals (6010B/7471A)

Sample Matrix: Solid; Water; Wastewater; Non-aqueous; Other:

Container: Turnaround Time (TAT); Quantity; Type & Size; Preservative; Material; Remarks

ITEM	Lab ID (For Lab Use Only)	Sample ID	Location	Date	Time	TPH 8015B	VOCs 8260B	Title 22 Metals	Solid	Water	Wastewater	Non-aqueous	Other:	TAT	Quantity	Type & Size	Preservative	Material	Remarks
1	1	Spane Park Sample #1	Spane Park	3/17/22	1230	X	X	X	X					5	1	5	1	NA	Composite
2	2	Spane Park Sample #2	Spane Park	3/17/22	1230	X	X	X	X					5	1	5	1	NA	Composite
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			

(Special Instructions, Comments, Notes, etc.)
Composite into 1 Sample

By relinquishing samples to ATL, I hereby agree that I have read and accept ATL's Terms and Conditions, as stated in www.atlglobal.com/terms-and-conditions.

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
Allison Prizlow	3/17/22	12:38pm	ATL Ethan Tran	3/17/22	12:38
ATL Ethan Tran	3/17/22	15:15	Diamond	3/17/22	15:15

Manifest

SOIL SAFE OF CA – TPST
Non-Hazardous Soils

↓ Manifest # ↓

Date of Shipment:	Responsible for Payment:	Transport Truck #:	Facility #:	Approval Number:	Load #
/ /			A07	AS-4160	6101

Generator and/or Consultant

Generator's Name and Billing Address:
SPANE PARK
14400 GUNDRY AVE
PARAMOUNT, CA 90723

Generator's Phone #: 562-204-3762
Person to Contact:
FAX#:
Customer Account Number

Consultant's Name and Billing Address:

Consultant's Phone #:
Person to Contact:
FAX#:
Customer Account Number

Generation Site (Transport from): *(name & address)*
SPANE PARK
14400 GUNDRY AVE
PARAMOUNT, CA 90723

Site Phone #:
Person to Contact:
FAX#:

Designated Facility (Transport to): *(name & address)*
SOIL SAFE
12328 HIBISCUS AVENUE
ADELANTO, CA 92301

Facility Phone #: (800) 862-8001
Person to Contact: JOE PROVANSAL
FAX#: (760) 246-8004

Transporter Name and Mailing Address:
BELSHIRE
25071 TOWNE CENTRE DRIVE
FOOTHILL RANCH, CA 92610
BESI: 341038

Transporter's Phone #: 949-460-5200
CAR000183913
Person to Contact: LARRY MOOTHART
1629169
FAX#: 949-460-5210
Customer Account Number

Description of Soil	Moisture Content	Contaminated by:	Approx. Qty:	Description of Delivery	Gross Weight	Tare Weight	Net Weight
Sand ☐ Organic ☐ Clay ☐ Other ☐	0 - 10% ☐ 10 - 20% ☐ 20% - over ☐	Gas ☐ Diesel ☐ Other ☐	7 DM	SOIL	3500		
Sand ☐ Organic ☐ Clay ☐ Other ☐	0 - 10% ☐ 10 - 20% ☐ 20% - over ☐	Gas ☐ Diesel ☐ Other ☐			42100	38100	4000

List any exception to items listed above: Scale Ticket # 168991 2.0

Generator's and/or consultant's certification: I/We certify that the soil referenced herein is taken entirely from those soils descried in the Soil Data Sheet completed and certified by me/us for the Generation Site shown above and nothing has been added or done to such soil that would alter it in any way.

Print or Type Name: Generator ☐ Consultant ☐ — Signature and date: — Month 4 Day 6 Year 22

Transporter

Transporter's certification: I/We acknowledge receipt of the soil referenced above and certify that such soil is being delivered in exactly the same condition as when received. I/We further certify that the soil is being directly transported from the Generation Site to the Designated Facility without off-loading, adding to, subtracting from or in any way delaying delivery to such site.

Print or Type Name: PAUL VENEGAS — Signature and date: — Month 4 Day 6 Year 22

Recycling Facility

Discrepancies:

Recycling Facility certifies the receipt of the soil covered by this manifest except as noted above.

Print or Type Name: Joe Provansal / Barry Meek / Bill Bishop — Signature and date: 4-12-22

Please print or type.

14400GUN/2810823

TRANSPORTER COPY

Soil Safe of California, Inc.

12328 Hibiscus Ave. Adelanto, CA 92301

~~ADE168991~~

Updated ADE169004

WEIGHMASTER CERTIFICATE

THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with Section 12700) of Division 5 of the California Business and Professional Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture.

Manifest Number: A5-4160 Load #: 1 4/12/2022

Generator Site Information:

Spane Park

14400 Gundry Avenue

Paramount, Ca 90723

Weighmaster Weighed at:

SOIL SAFE OF CALIFORNIA, INC..

12328 HIBISCUS AVE

ADELANTO, CA 92301

			Lbs	Tons	
Joe Provansal	**Time In:** 1:38:39 PM	**Gross Weight:**	42100	21.05	Manual Wt
Joe Provansal	**Time out:** 1:38:40 PM	**Tare Weight:**	38100	19.05	Manual Wt
		Net Weight:	4000	2	

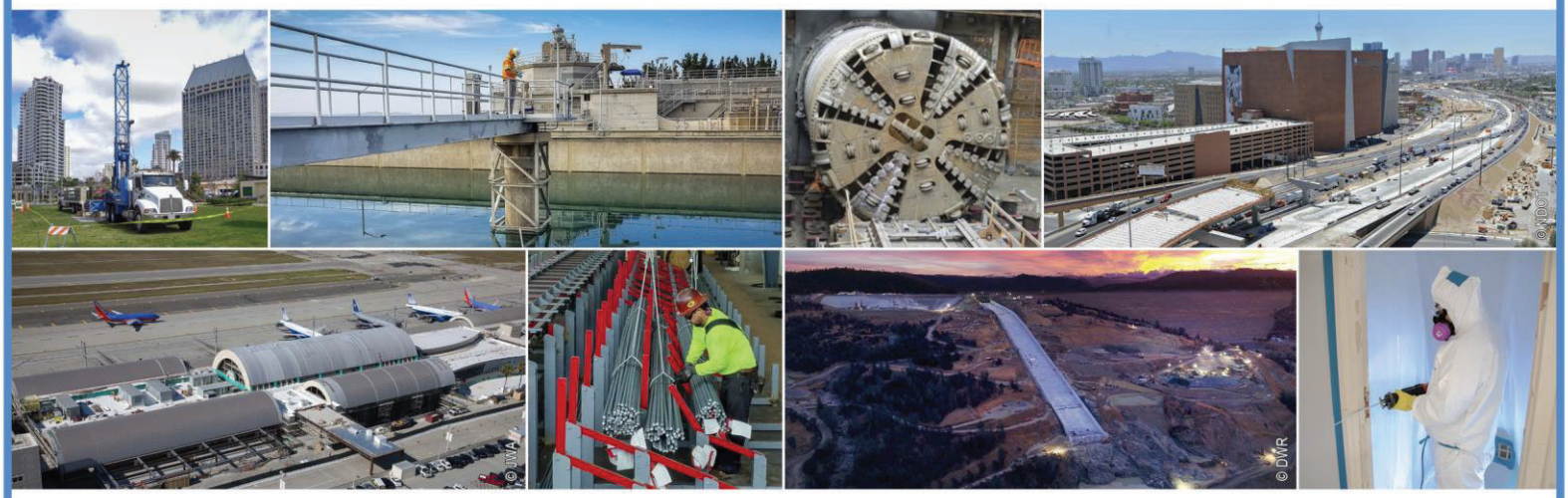
Truck Number: 581

Trailer Number: 281

Commodity: Non Haz - Solids

CORRECTION CERTIFICATE TO CORRECT WEIGHT PROFILE NUMBER OF ADE168991

Driver on Gross and Tare Transporter: Besi - Ed



475 Goddard, Suite 200 | Irvine, California 92618 | p. 949.753.7070

ARIZONA | CALIFORNIA | COLORADO | NEVADA | TEXAS | UTAH

ninyoandmoore.com

Ninyo & Moore

Geotechnical & Environmental Sciences Consultants

Appendix E
Noise Assessment Data

FORMS FIELD DATA REPORT

Field Noise Measurement Data

Record: 1447	
Project Name	*Craftwater Spane Park*
Project #	*14427*
Observer(s)	
Date	*2022-07-29*

Meteorological Conditions	
Temp (F)	*83*
Humidity % (R.H.)	*54*
Wind	*Light*
Wind Speed (MPH)	*3.5*
Wind Direction	*South West*
Sky	*Partly Cloudy*

Instrument and Calibrator Information	
Instrument Name List	*Piccolo #1887*
Instrument Name	*Piccolo #1887*
Instrument Name Lookup Key	*Piccolo #1887*
Manufacturer	*Soft dB inc.*
Model	*Piccolo 2*
Serial Number	*P0222050202*
Calibration Date	*07/29/2022*
Calibrator Name	*(SB) LD CAL200*
Calibrator Name	*(SB) LD CAL200*
Calibrator Name Lookup Key	*(SB) LD CAL200*
Calibrator Manufacturer	*Larson Davis*
Calibrator Model	*LD CAL200*
Calibrator Serial #	*19952*
GPS Assistance Used	*No*
Pre-Test (dBA SPL)	*93.5*
Post-Test (dBA SPL)	*94*
Windscreen	*Yes*
Weighting?	*A-WTD*
Slow/Fast?	*Slow*
ANSI?	*Yes*

Monitoring	
Record #	*1*
Site ID	*ST1*
Site Location Lat/Long	*33.902103, -118.175770*
Begin (Time)	*10:04:00*
End (Time)	*10:14:00*
Leq	*51*
Other Lx (Specify Metric)	*L*
Primary Noise Source	*Lake Water Running*
Other Noise Sources (Background)	*Birds, Distant Conversations / Yelling, Rustling Leaves*
Other Noise Sources Additional Description	*Distant music from parked car, 10:10 many birds honking, 10:11 people walking by*
Is the same instrument and calibrator being used as previously noted?	*Yes*
Are the meteorological conditions the same as previously noted?	*Yes*

Description / Photos

Terrain	*Mixed*

Site Photos

Photo	
Comments / Description	*ST1 South school facing*

Site Photos

Photo	
Comments / Description	*ST1 north lake main sound source*

Monitoring	
Record #	*2*
Site ID	*ST2*
Site Location Lat/Long	*33.903453, -118.176004*
Begin (Time)	*10:30:00*
End (Time)	*10:40:00*
Other Lx (Specify Metric)	*L*
Primary Noise Source	*Traffic*
Other Noise Sources (Background)	*Distant Conversations / Yelling*
Other Noise Sources Additional Description	*Person playing basketball, 10:31 bicyclist passes by*
Is the same instrument and calibrator being used as previously noted?	*Yes*
Are the meteorological conditions the same as previously noted?	*Yes*

Source Info and Traffic Counts	
Number of Lanes	*6*
Lane Width (feet)	*7*
Roadway Width (feet)	*60*
Roadway Width (m)	*18.3*
Distance to Roadway (feet)	*20*
Distance to Roadway (m)	*6.1*
Distance Measured to Centerline or Edge of Pavement?	*Edge of Pavement*
Roadway Type	*Avenue*
Estimated Vehicle Speed (MPH)	*45*
Speeds Estimated by:	*Driving the Pace*
Posted Speed Limit Sign (MPH)	*40*

Traffic Counts	
Vehicle Count Summary	*A 179, MT 7, HT 0, B 1, MC 0*
Select Method for Recording Count Duration	*Enter Manually*
Counting Both Directions?	*Yes*
Count Duration (minutes)	*10*
Vehicle Count Tally	
Select Method for Vehicle Counts	*Use Counter (+/-)*
Number of Vehicles - Autos	*179*
Number of Vehicles - Medium Trucks	*7*
Number of Vehicles - Heavy Trucks	*0*
Number of Vehicles - Buses	*1*
Number of Vehicles - Motorcyles	*0*

Description / Photos	
Terrain	*Mixed*

Site Photos

Photo	
Comments / Description	*ST2 north roadway facing*

Site Photos

Photo	
Comments / Description	*ST2 South Park facing*

FORMS FIELD DATA REPORT

Monitoring	
Record #	3
Site ID	ST3
Site Location Lat/Long	33.902930, -118.176540
Begin (Time)	10:50:00
End (Time)	11:00:00
Leq	58.6
Other Lx (Specify Metric)	L
Primary Noise Source	Traffic
Other Noise Sources (Background)	Birds, Distant Conversations / Yelling, Distant Dog Barking, Distant Gardener / Landscape Noise, Distant Traffic
Is the same instrument and calibrator being used as previously noted?	Yes
Are the meteorological conditions the same as previously noted?	Yes

Source Info and Traffic Counts	
Number of Lanes	2
Lane Width (feet)	7
Roadway Width (feet)	15
Roadway Width (m)	4.6
Distance to Roadway (feet)	5
Distance to Roadway (m)	1.5
Distance Measured to Centerline or Edge of Pavement?	Edge of Pavement
Roadway Type	Street
Estimated Vehicle Speed (MPH)	15
Speeds Estimated by:	Driving the Pace
Posted Speed Limit Sign (MPH)	15

Traffic Counts	
Vehicle Count Summary	A 4, MT 0, HT 0, B 0, MC 0
Select Method for Recording Count Duration	Enter Manually
Counting Both Directions?	Yes
Count Duration (minutes)	10
Vehicle Count Tally	
Select Method for Vehicle Counts	Use Counter (+/-)
Number of Vehicles - Autos	4
Number of Vehicles - Medium Trucks	0
Number of Vehicles - Heavy Trucks	0
Number of Vehicles - Buses	0
Number of Vehicles - Motorcyles	0

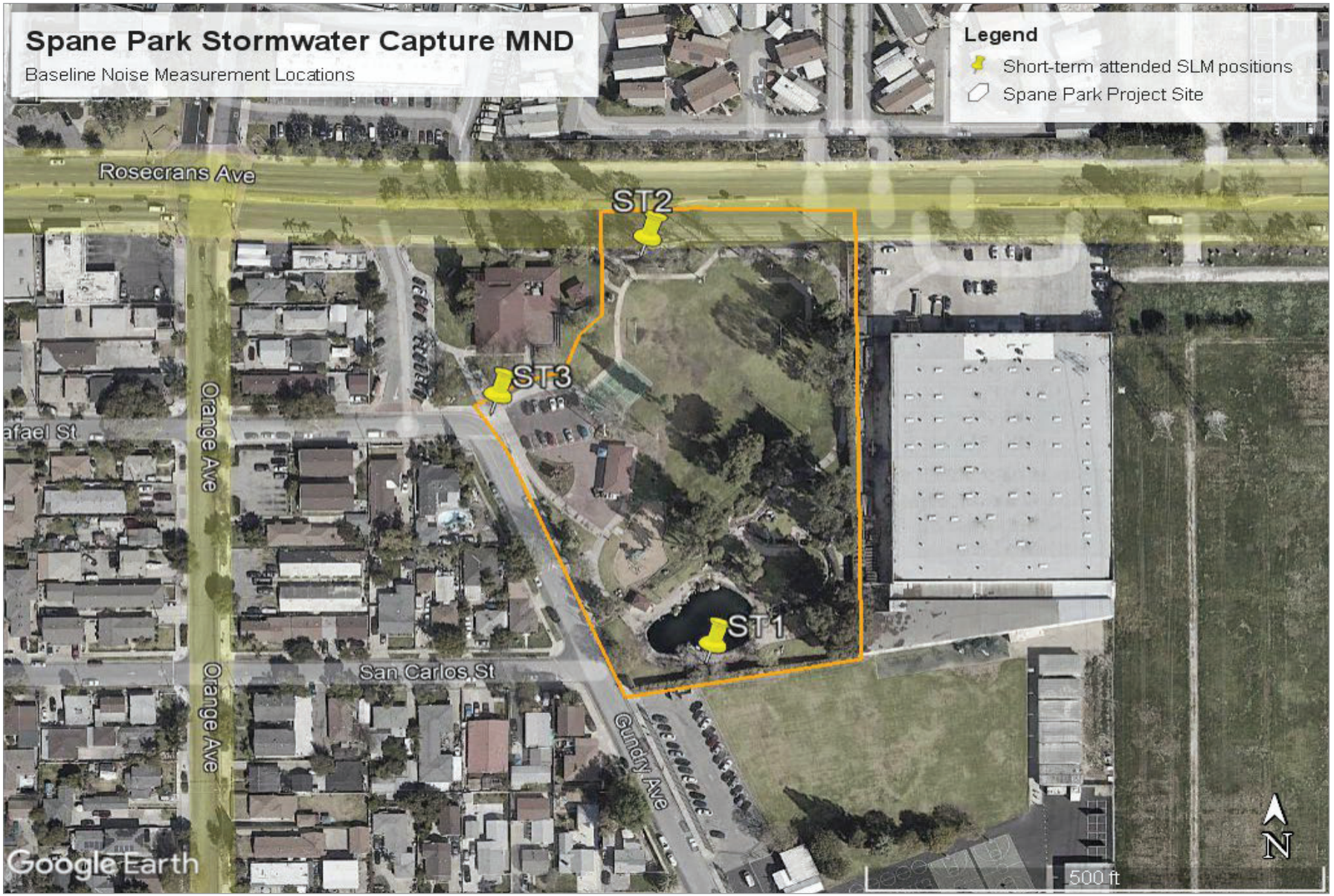
Description / Photos	
Terrain	Mixed

Site Photos

Photo	
Comments / Description	*ST3 Southwest resident facing*

Site Photos

Photo	
Comments / Description	*ST3 Northeast park facing*



SOURCE: Google Earth 2021

DUDEK

0 60 120 Feet

FIGURE 3

Outdoor Ambient Sound Level Survey Measurement Locations

Spane Park Stormwater Capture Project

Looking North

Looking South

07/29/22 – Sound Level Meter (SLM) at Position **ST1**
(view direction noted above)

Looking North

Looking South

07/29/22 – Sound Level Meter (SLM) at Position **ST2**
(view direction noted above)

Looking Northeast

Looking Southwest

07/29/22 – Sound Level Meter (SLM) at Position **ST3**
(view direction noted above)

To User: bordered cells are inputs, unbordered cells have formulae

noise level limit for construction phase at occupied building, per FTA guidance = 80

allowable hours over which Leq is to be averaged (example: 8 per FTA guidance) = 8

Construction Activity	Equipment	Total Equipment Qty	AUF % (from FHWA RCNM)	Reference Lmax @ 50 ft. from FHWA RCNM	Client Equipment Description, Data Source and/or Notes	Source to NSR Distance (ft.)	*Barrier / Topo Insertion Loss (dB)*	Distance-Adjusted Lmax	Allowable Operation Time (hours)	Allowable Operation Time (minutes)	Predicted 8-hour Leq
Site mobilization, clearing, grubbing, and vegetation removal	dozer	1	40	82		270		67.4	8	480	63
	grader	1	40	85		270		70.4	8	480	66
	flat bed truck	1	40	74	hauling trucks	270		59.4	8	480	55
	front end loader	1	40	79	skid-steer loader	270		64.4	8	480	60
									Total for Site mobilization, clearing, grubbing, and vegetation removal Phase:		**69.0**
Demolition of existing basketball courts and restroom building	jackhammer	1	20	85		230		71.7	8	480	65
	dozer	1	40	82		230		68.7	8	480	65
	flat bed truck	1	40	74	hauling trucks	230		60.7	8	480	57
	front end loader	1	40	79	skid-steer loader	230		65.7	8	480	62
									Total for Demolition of existing basketball courts and restroom building Phase:		**69.0**
Reservoir excavation	Backhoe	1	40	78	back hoe loaders	360		60.9	8	480	57
	dozer	1	40	82		360		64.9	8	480	61
	flat bed truck	1	40	74	hauling trucks	360		56.9	8	480	53
	front end loader	1	40	79	skid-steer loader	360		61.9	8	480	58
									Total for Reservoir excavation Phase:		**64.0**
Reservoir construction	crane	1	16	81		360		63.9	8	480	56
	front end loader	1	40	79	skid-steer loader	360		61.9	8	480	58
	flat bed truck	1	40	74	delivery trucks	360		56.9	8	480	53
	dozer	1	40	82		360		64.9	8	480	61
									Total for Reservoir construction Phase:		**63.8**
Pipeline, diversion structure, and treatment facility/pump installation	slurry trenching machine	1	50	80	trencher	480		60.4	8	480	57
	crane	1	16	81		480		61.4	8	480	53
	flat bed truck	1	40	74	hauling trucks	480		54.4	8	480	50
	front end loader	1	40	79	skid-steer loader	480		59.4	8	480	55
									Total for Pipeline, diversion structure, and treatment facility/pump installation Phase:		**60.8**
Field surface replacement	grader	1	40	85		340		68.3	8	480	64
	front end loader	1	40	79	skid-steer loader	340		62.3	8	480	58
	soil mix drill rig	1	50	80	turf aerator	340		63.3	8	480	60
	all other equipment > 5 HP	1	50	85	spreader sprayer	340		68.3	8	480	65
									Total for Field surface replacement Phase:		**69.0**
Restroom building construction	crane	1	16	81		303		65.4	8	480	57
	man lift	1	20	75	telehandler	303		59.4	8	480	52
	concrete mixer truck	1	40	79	cement mixer	303		63.4	8	480	59
	man lift	1	20	75	boom lift	303		59.4	8	480	52
									Total for Restroom building construction Phase:		**62.5**
Basketball court construction	crane	1	16	81		250		67.0	8	480	59
	man lift	1	20	75	telehandler	250		61.0	8	480	54
	concrete mixer truck	1	40	79	cement mixer	250		65.0	8	480	61
	man lift	1	20	75	boom lift	250		61.0	8	480	54
									Total for Basketball court construction Phase:		**64.1**
Parking reconstruction	front end loader	1	40	79	skid-steer loader	140		70.1	8	480	66
	roller	1	20	80	drum roller	140		71.1	8	480	64
	dump truck	1	40	76	dump trucks	140		67.1	8	480	63
	compactor (ground)	1	20	80		140		71.1	8	480	64

	paver	1	50	77	asphalt paver	140	68.1	8	480	65
							Total for Parking reconstruction Phase:			**71.6**
Concrete pathway improvements	concrete mixer truck	1	40	79	concrete mixer	340	62.3	8	480	58
							Total for Concrete pathway improvements Phase:			**58.4**
Pond and stream revitalization	front end loader	1	40	79	skid steer loader	235	65.6	8	480	62
	man lift	1	20	75	telehandler	235	61.6	8	480	55
	crane	1	16	81		235	67.6	8	480	60
	concrete mixer truck	1	40	79	cement mixer	235	65.6	8	480	62
							Total for Pond and stream revitalization Phase:			**66.1**
Ancillary park improvements	crane	1	16	81		270	66.4	8	480	58
	front end loader	1	40	79	skid steer loader	270	64.4	8	480	60
	man lift	1	20	75	fork lift	270	60.4	8	480	53
	concrete mixer truck	1	40	79	cement mixer	270	64.4	8	480	60
							Total for Ancillary park improvements Phase:			**64.9**

To User: bordered cells are inputs, unbordered cells have formulae

noise level limit for construction phase at occupied building, per FTA guidance = 80

allowable hours over which Leq is to be averaged (example: 8 per FTA guidance) = 8

Construction Activity	Equipment	Total Equipment Qty	AUF % (from FHWA RCNM)	Reference Lmax @ 50 ft. from FHWA RCNM	Client Equipment Description, Data Source and/or Notes	Source to NSR Distance (ft.)	*Barrier / Topo Insertion Loss (dB)*	Distance-Adjusted Lmax	Allowable Operation Time (hours)	Allowable Operation Time (minutes)	Predicted 8-hour Leq
Site mobilization, clearing, grubbing, and vegetation removal	dozer	1	40	82		78		78.1	8	480	74
	grader	1	40	85		78		81.1	8	480	77
	flat bed truck	1	40	74	hauling trucks	78		70.1	8	480	66
	front end loader	1	40	79	skid-steer loader	78		75.1	8	480	71
									Total for Site mobilization, clearing, grubbing, and vegetation removal Phase:		**79.8**
Demolition of existing basketball courts and restroom building	jackhammer	1	20	85		80		80.9	8	480	74
	dozer	1	40	82		80		77.9	8	480	74
	flat bed truck	1	40	74	hauling trucks	80		69.9	8	480	66
	front end loader	1	40	79	skid-steer loader	80		74.9	8	480	71
									Total for Demolition of existing basketball courts and restroom building Phase:		**78.2**
Reservoir excavation	Backhoe	1	40	78	back hoe loaders	267		63.4	8	480	59
	dozer	1	40	82		267		67.4	8	480	63
	flat bed truck	1	40	74	hauling trucks	267		59.4	8	480	55
	front end loader	1	40	79	skid-steer loader	267		64.4	8	480	60
									Total for Reservoir excavation Phase:		**66.6**
Reservoir construction	crane	1	16	81		267		66.4	8	480	58
	front end loader	1	40	79	skid-steer loader	267		64.4	8	480	60
	flat bed truck	1	40	74	delivery trucks	267		59.4	8	480	55
	dozer	1	40	82		267		67.4	8	480	63
									Total for Reservoir construction Phase:		**66.4**
Pipeline, diversion structure, and treatment facility/pump installation	slurry trenching machine	1	50	80	trencher	440		61.1	8	480	58
	crane	1	16	81		440		62.1	8	480	54
	flat bed truck	1	40	74	hauling trucks	440		55.1	8	480	51
	front end loader	1	40	79	skid-steer loader	440		60.1	8	480	56
									Total for Pipeline, diversion structure, and treatment facility/pump installation Phase:		**61.6**
Field surface replacement	grader	1	40	85		240		71.4	8	480	67
	front end loader	1	40	79	skid-steer loader	240		65.4	8	480	61
	soil mix drill rig	1	50	80	turf aerator	240		66.4	8	480	63
	all other equipment > 5 HP	1	50	85	spreader sprayer	240		71.4	8	480	68
									Total for Field surface replacement Phase:		**72.0**
Restroom building construction	crane	1	16	81		275		66.2	8	480	58
	man lift	1	20	75	telehandler	275		60.2	8	480	53
	concrete mixer truck	1	40	79	cement mixer	275		64.2	8	480	60
	man lift	1	20	75	boom lift	275		60.2	8	480	53
									Total for Restroom building construction Phase:		**63.3**
Basketball court construction	crane	1	16	81		218		68.2	8	480	60
	man lift	1	20	75	telehandler	218		62.2	8	480	55
	concrete mixer truck	1	40	79	cement mixer	218		66.2	8	480	62
	man lift	1	20	75	boom lift	218		62.2	8	480	55
									Total for Basketball court construction Phase:		**65.3**
Parking reconstruction	front end loader	1	40	79	skid-steer loader	72		75.8	8	480	72
	roller	1	20	80	drum roller	72		76.8	8	480	70
	dump truck	1	40	76	dump trucks	72		72.8	8	480	69
	compactor (ground)	1	20	80		72		76.8	8	480	70

	paver	1	50	77	asphalt paver	72		73.8	8	480	71
									Total for Parking reconstruction Phase:		**77.4**
Concrete pathway improvements	concrete mixer truck	1	40	79	concrete mixer	60		77.4	8	480	73
									Total for Concrete pathway improvements Phase:		**73.4**
Pond and stream revitalization	front end loader	1	40	79	skid steer loader	105		72.6	8	480	69
	man lift	1	20	75	telehandler	105		68.6	8	480	62
	crane	1	16	81		105		74.6	8	480	67
	concrete mixer truck	1	40	79	cement mixer	105		72.6	8	480	69
									Total for Pond and stream revitalization Phase:		**73.1**
Ancillary park improvements	crane	1	16	81		60		79.4	8	480	71
	front end loader	1	40	79	skid steer loader	60		77.4	8	480	73
	man lift	1	20	75	fork lift	60		73.4	8	480	66
	concrete mixer truck	1	40	79	cement mixer	60		77.4	8	480	73
									Total for Ancillary park improvements Phase:		**78.0**

SOURCE: Dudek 2022

DUDEK

0 31 62 Feet

FIGURE 4

Estimated Submersible Pump Operation Noise Levels (above closed ground hatch of wet well)

Spane Park SWC Project

Appendix F
Tribal Cultural Resources Consultation Materials (Confidential)