Draft Report

43990 FREMONT BOULEVARD

Air Quality, Greenhouse Gas, and Energy Technical Report

Prepared for
North Palisade Partners

May 2024

ESA

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43990 FREMONT BOULEVARD PROJECT

Air Quality, Greenhouse Gas, and Energy Technical Report

1. Introduction

This technical memorandum describes and evaluates the potential for construction and operation of the 43990 Fremont Boulevard Project (Project) to result in significant air quality, greenhouse gas, and energy impacts. The Project includes construction and operation of an industrial manufacturing structure within the City of Fremont, California. Construction is proposed to take place from November 2024 to November 2025, with operations beginning in winter 2025.

This report incudes a discussion of the existing air quality conditions in the project area, existing greenhouse gas emissions within Alameda County (County), existing energy usage in the County, the regulatory framework for air quality, greenhouse gas (GHG) emissions, and energy management, and the potential for the Project to affect air quality conditions, contribute to global climate change, and impact energy resources. The report addresses both regional and local impacts due to activities that emit criteria pollutants and toxic air contaminants (TACs). It also analyzes the types and quantities of these emissions that would be generated on a temporary basis due to proposed construction activities as well as those generated over the long term from the operation of the Project. The analysis determines whether those emissions are significant in relation to the applicable air quality, greenhouse gas, and energy standards, and ultimately identifies feasible mitigation measures to address significant adverse impacts.

The analysis is based on a review of the existing air quality conditions in the region and the air quality, greenhouse gas, and energy regulations administered by the United States Environmental Protection Agency (U.S. EPA), the California Air Resources Board (CARB) and the Bay Area Air Quality Management District (BAAQMD).

1.1 Project Location and Description

The Project site is located at 43990 Fremont Boulevard, Fremont California and occupies approximately four acres of land that has an existing zoning designation of Regional Commercial (C-R) and a General Plan designation of Commercial-Regional. The Project would construct a 69,872 square-foot industrial warehouse to be used for general industrial manufacturing services. The current structure will be demolished with the Project. There are several retail and commercial businesses located in the same neighborhood as the Project site, with a vacant grass lot east of the site. The nearest residential neighborhood is approximately one-third mile to the north.

2. Air Quality Analysis

2.1 Environmental Setting

The Project site is located in the San Francisco Bay Area Air Basin (SFBAAB) under the jurisdiction of the BAAQMD, which includes all of Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, and Santa Clara counties, and the southern portions of Solano and Sonoma counties.

Under amendments to the federal Clean Air Act (CAA), the U.S. Environmental Protection Agency (USEPA) has classified air basins or portions thereof as either "attainment" or "non-attainment" for each criteria air pollutant, based on whether or not the National Ambient Air Quality Standards (NAAQS) have been achieved. The California CAA, which is patterned after the federal CAA, also requires areas to be designated as "attainment" or "non-attainment" for the California Ambient Air Quality Standards (CAAQS). Thus, areas in California have two sets of attainment designations: one set with respect to the NAAQS and one set with respect to the CAAQS. The SFAAB is currently designated as a nonattainment area for state and national ozone standards, state particulate matter (PM_{10} and $PM_{2.5}$) standards, and the federal $PM_{2.5}$ (24-hour) standard (BAAQMD 2022). The BAAQMD is the primary agency responsible for assuring both sets of ambient air quality standards are attained and maintained in the Bay Area.

Alameda County's attainment status for the criteria air pollutants with respect to the NAAQS and CAAQS is summarized in **Table 2-1.** As shown below, the county is a nonattainment area for the state 1-hour and 8-hour ozone standards and the federal 8-hour ozone standard.

TABLE 2-1
ALAMEDA COUNTY ATTAINMENT STATUS

Pollutant and Averaging Time	Designation/Classification	
	State Standards	Federal Standards
Ozone (1-hour)	Nonattainment	No Federal Standard
Ozone (8-hour)		Nonattainment
Carbon Monoxide (CO)	Attainment	Unclassified/Attainment
Nitrogen Dioxide (NO_2)	Attainment	Unclassified/Attainment
Sulfur Dioxide (SO_2)	Attainment	Unclassified/Attainment
Respirable Particulate Matter (PM_{10})	Nonattainment	Unclassified
Fine Particulate Matter ($PM_{2.5}$)	Nonattainment	Nonattainment
Lead	Attainment	Unclassified/Attainment
Visibility Reducing Particles	Unclassified	No Federal Standard
Sulfates	Attainment	No Federal Standard
Hydrogen Sulfide	Unclassified	No Federal Standard

NOTES: CARB makes area designations for ten criteria pollutants (ozone, CO, NO_2, SO_2, PM_{10}, $PM_{2.5}$, lead, visibility reducing particles, sulfates, and hydrogen sulfide. CARB does not designate areas according to the vinyl chloride standard.

SOURCES: CARB 2023a

Climate and Topography

The SFBAAB is characterized by complex terrain, consisting of coastal mountain ranges, inland valleys, and bays, which distort normal wind flow patterns. The climate is dominated by the strength and location of a semi-permanent, subtropical high-pressure cell. During the summer, the Pacific high-pressure cell is centered over the northeastern Pacific Ocean resulting in stable meteorological conditions and a steady northwesterly wind flow. Upwelling of cold ocean water occurs from below to the surface because of the northwesterly flow produces a band of cold water off the California coast. The cool and moisture-laden air approaching the coast from the Pacific Ocean is further cooled by the presence of the cold-water band resulting in condensation and the presence of fog and stratus clouds along the Northern California coast.

The topography of the SFBAAB consists of coastal mountain ranges, inland valleys and bays. These features, especially the higher elevations, distort the normal wind flow patterns in the SFBAAB. The greatest distortion occurs when low-level inversions are present and the air beneath the inversion flows independently of air above the inversion, a condition that is common in the summertime. The only major break in California's Coast Range occurs in the SFBAAB. Here the Coast Range splits into western and eastern ranges. Between the two ranges lies San Francisco Bay. The gap in the western coast range is known as the Golden Gate, and the gap in the eastern coast range is the Carquinez Strait. These gaps allow air to pass into and out of the SFBAAB and the Central Valley. (BAAQMD, 2017a)

Air Pollutants of Concern

Air pollutants of concern within the SFBAAB include criteria air pollutants and toxic air contaminants (TACs), along with GHGs which are discussed in a separate section, below.

Criteria Air Pollutants

Criteria air pollutants are a group of six common air pollutants for which the U.S. EPA has set ambient air quality standards. Criteria air pollutants include ground-level ozone, carbon monoxide (CO), nitrogen dioxide (NO_2), sulfur dioxide (SO_2), particulate matter (PM) in size fractions of 10 microns or less in diameter (PM_{10}) and 2.5 microns or less in diameter ($PM_{2.5}$), and lead. Most of the criteria air pollutants are directly emitted; however, ozone is a secondary pollutant that is formed in the atmosphere by chemical reactions between nitrogen oxides (NOx) and reactive organic gases (ROG). In addition to the criteria air pollutants that have been identified by the U.S. EPA, California has identified four additional criteria air pollutants (visibility reducing particles, sulfates, hydrogen sulfide, and vinyl chloride).

Criteria air pollutants of concern in Alameda County include ozone, $PM_{10,}$ and $PM_{2.5}$, as concentrations of these pollutants exceed either state standards, federal standards, or both. Concentrations of CO, NO_2, SO_2, lead, hydrogen sulfide, sulfates, and vinyl chloride are below the state and national air quality standards in Alameda County, according to the California Air Resources Board (CARB) Maps of State and Federal Area Designations (CARB 2023). Because of this, these pollutants are not discussed further in this analysis.

Health Effects of Criteria Air Pollutants

The California Air Resources Board (CARB) compiles an emissions inventory for all sources of emissions within the County. This inventory is used by the BAAQMD and CARB for regional air quality planning purposes and is the basis for the region's air quality plans. The inventory includes stationary sources (e.g., landfills, electric utilities, mineral processes); area-wide sources (e.g., farming operations, construction/demolition activities, residential fuel combustion); and mobile sources (e.g., automobiles, aircraft, off-road equipment). Concentrations of ozone, carbon monoxide (CO), nitrogen dioxide (NO_2), sulfur dioxide (SO_2), respirable and fine particulate matter (PM_{10} and $PM_{2.5}$), lead, sulfates, hydrogen sulfide, and vinyl chloride, which are criteria air pollutants, are used to indicate the quality of ambient air. Criteria air pollutants are also the most prevalent indicators of how air pollution is detrimental to human health. The health effects of each criteria air pollutant, as well as source of emissions are summarized in **Table 2-2**. Table 2-2 contains a comprehensive list of all pollutants for which there are California standards. The impact analysis focuses on the main pollutants of concern for the Project, which are ozone precursors (nitrogen oxides and reactive organic gases) and PM_{10} and $PM_{2.5}$.

Existing Ambient Air Quality

The nearby ambient air quality monitoring stations that are most representative of the ambient air quality in the project area are the Hayward-La Mesa station, and the San Jose-Jackson Street station. The Hayward station is located at 3466 La Mesa Drive in the city of Hayward and is approximately 11 miles north of the project site. The San Jose station is located at 158B Jackson Street in the city of San Jose and is approximately 11.5 miles south of the project site. **Table 2-3** presents the ambient air quality data collected at the two monitoring sites. Values that exceed the NAAQS or CAAQS are shown in bold.

Toxic Air Contaminants

TACs are airborne substances designated by CARB as capable of causing short-term (acute) and long-term (chronic or carcinogenic, i.e., cancer causing) adverse human health effects (i.e., injury or illness). TACs include both organic and inorganic chemical substances and may be emitted from a variety of common sources including gasoline stations, automobiles, diesel engines, dry cleaners, industrial operations, and painting operations. The main TAC of concern related to the Project is diesel particulate matter (DPM).

Diesel Particulate Matter

The exhaust from diesel engines includes hundreds of different gaseous and particulate components, many of which are toxic. Mobile sources such as trucks and buses are among the primary sources of diesel emissions, and concentrations of DPM are higher near heavily traveled highways. In addition, heavy construction equipment and trucks are mainly diesel-powered.

TABLE 2-2
SOURCES AND HEALTH EFFECTS OF CRITERIA AIR POLLUTANTS

Pollutant	Sources	Acute[a] Health Effects	Chronic[b] Health Effects
Ozone (O_3)	secondary pollutant resulting from reaction of reactive organic gases (ROG) and oxides of nitrogen (NO_x) in presence of sunlight; ROG results from incomplete combustion and evaporation of chemical solvents and fuels; NO_x results from the combustion of fuels	increased respiration and pulmonary resistance; cough, pain, shortness of breath, lung inflammation	permeability of respiratory epithelia, possibility of permanent lung impairment
Carbon monoxide (CO)	incomplete combustion of fuels; motor vehicle exhaust	headache, dizziness, fatigue, nausea, vomiting, death	permanent heart and brain damage
Nitrogen dioxide (NO_2)	combustion devices; e.g., boilers, gas turbines, and mobile and stationary reciprocating internal combustion engines	coughing, difficulty breathing, vomiting, headache, eye irritation, chemical pneumonitis or pulmonary edema; breathing abnormalities, cough, cyanosis, chest pain, rapid heartbeat, death	chronic bronchitis, decreased lung function
Sulfur dioxide (SO_2)	coal and oil combustion, steel mills, refineries, and pulp and paper mills	irritation of upper respiratory tract, increased asthma symptoms	insufficient evidence linking SO_2 exposure to chronic health impacts
Respirable	fugitive dust, soot, smoke, mobile and	breathing and respiratory symptoms,	alterations to the immune system,
particulate matter	stationary sources, construction, fires and	aggravation of existing respiratory and	carcinogenesis
(PM_{10}), Fine	natural windblown dust, and formation in the	cardiovascular diseases, premature	
particulate matter ($PM_{2.5}$)	atmosphere by condensation and/or transformation of SO_2 and ROG	death	
Lead	metal processing	reproductive/developmental effects (fetuses and children)	numerous effects including neurological, endocrine, and cardiovascular effects
Vinyl Chloride	Creation of polyvinyl chloride plastic and vinyl products	Eye irritation, Dizziness, drowsiness, headaches, and giddiness	Liver damage, numerous nervous system effects, effects of the peripherical nervous system, reproductive and developmental effects, and increased cancer risk
Hydrogen Sulfide	sewage treatment facilities extraction and processing of coal, natural gas, and oil petrochemical plants, coke oven plants, and kraft paper mills	Headaches, nausea, and vomiting	Cognitive function impacts, cardiovascular impacts
Sulfates	Combustion of sulfur-containing compounds in gasoline and diesel fuels	Acute bronchitis, asthma attacks	Chronic bronchitis, heart and lung-related issues, premature mortality.

NOTES:

a. Acute refers to effects of short-term exposures to criteria air pollutants, usually at fairly high concentrations.
b. Chronic refers to effects of long-term exposures to criteria air pollutants, usually at lower, ambient concentrations.

SOURCE: BAAQMD 2022 Appendix E, CARB 2022a

TABLE 2-3
AMBIENT AIR QUALITY MONITORING DATA [1]

Pollutant Standards	2020	2021	2022
Ozone (O_3)			
Maximum 1-hour concentration (ppm)	**.116**	**.097**	**.098**
Maximum 8-hour concentration (ppm)	**.092**	**.082**	**.073**
Number of days standard exceeded[a]			
NAAQS 1-hour (>0.12 ppm)	0	0	0
CAAQS 1-hour (>0.07 ppm)	3	1	2
NAAQS 8-hour (>0.07 ppm)	4	2	2
Carbon Monoxide (CO)			
Maximum 8-hour concentration (ppm)	1.5	1.5	1.4
Maximum 1-hour concentration (ppm)	1.8	1.7	1.7
Number of days standard exceeded[a]			
NAAQS 8-hour (>9.0 ppm)	0	0	0
CAAQS 8-hour (>9.0 ppm)	0	0	0
NAAQS 1-hour (>35 ppm)	0	0	0
CAAQS 1-hour (>20 ppm)	0	0	0
Particulate Matter ($PM_{2.5}$)[b]			
Maximum 24-hour concentration (µg/m^3)	120.5	38.1	36.2
Annual average concentration (µg/m^3)[e]	11.5	8.9	10.1
Number of days standard exceeded [a]			
NAAQS 24-hour (>150 µg/m^3)[f]	**12**	**1**	**2**
CAAQS 24-hour (>50 µg/m^3)[f]	*	*	*
Particulate Matter (PM_{10})[b]			
Maximum 24-hour concentration (µg/m^3)	**137.1**	45.1	44.1
Annual average concentration (µg/m^3)[e]	24.6	19.6	20.5
Number of days standard exceeded [a]			
NAAQS 24-hour (>150 µg/m^3)[f]	0	0	0
CAAQS 24-hour (>50 µg/m^3)[f]	**10**	0	0

NOTES:

CAAQS = California ambient air quality standards. NAAQS = national ambient air quality standards. Values in bold font indicate an exceedance.

The national 1-hour ozone standard was revoked in June 2005. Statistics related to the national 1-hour ozone standard are shown in *italics*

*Insufficient data to determine a value

a. An exceedance is not necessarily a violation. It should be noted that the federal ozone 1-hour standard has been revoked by EPA.
b. Measurements usually are collected every 6 days.
c. National statistics are based on standard conditions data. In addition, national statistics are based on samplers using federal reference or equivalent methods.
d. State statistics are based on local conditions data, except in the South Coast Air Basin, for which statistics are based on standard conditions data. In addition, state statistics are based on California-approved samplers.
e. State criteria for ensuring that data are sufficiently complete for calculating valid annual averages are more stringent than the national criteria.
f. Mathematical estimate of how many days concentrations would have been measured as higher than the level of the standard had each day been monitored.

SOURCES: CARB top 4 Summary and EPA Monitor Value Reports (CARB 2023c, EPA 2024)

[1] Stations were both in Alameda and Santa Clara counties in order to have a complete data set for relevant criteria pollutants.

The CARB identified DPM as a TAC in 1998, primarily based on evidence demonstrating cancer effects in humans. It is estimated that about 70 percent of total known cancer risks related to air toxics in California are attributable to DPM. More than 90 percent of DPM is less than 1 μm in diameter, and thus is a subset of $PM_{2.5}$; therefore, DPM contributes to the same non-cancer health effects as exposure to $PM_{2.5}$ which can get deep into the lungs and can even enter the bloodstream. Exposure to $PM_{2.5}$ can affect both the heart and the lungs, with scientific studies showing impacts including premature deaths in those with hearth and lung diseases and increased respiratory symptoms, such as irritation of the airways, coughing or difficulty breathing (U.S EPA, 2021).

In 2000, CARB approved a comprehensive Diesel Risk Reduction Plan to reduce diesel emissions from both new and existing diesel-fueled vehicles and engines. Subsequent CARB regulations apply to new trucks and diesel fuel. With new controls and fuel requirements, 60 trucks built in 2007 would have the same particulate exhaust emissions as one truck built in 1988. [2] The regulation was anticipated to result in an 80 percent decrease in statewide diesel health risk in 2020 as compared with the diesel risk in 2000. Many of the measures of the Diesel Risk Reduction Plan have been approved and adopted, including the federal on-road and off-road[3] diesel engine emission standards for new engines, as well as adoption of regulations for low sulfur fuel in California. Subsequent regulations regarding on-road diesel truck retrofits with particulate matter controls, 2010 or later engine standards, and fleet average emission rate standards to increase vehicle turnover have resulted in much lower DPM and $PM_{2.5}$ emissions over time. It is estimated that these regulations reduced diesel particulate emissions 78 percent from 1990 levels. [4]

Odors

Odors are generally regarded as an annoyance rather than a health hazard. Manifestations of a person's reaction to odors can range from psychological (e.g., irritation, anger, or anxiety) to physiological (e.g., circulatory and respiratory effects, nausea, vomiting, and headache). The ability to detect odors varies considerably among the population and overall is quite subjective.

People may have different reaction to the same odor and an odor that is offensive to one person may be perfectly acceptable to another (e.g., coffee roaster). An unfamiliar odor is more easily detected and is more likely to cause complaints than a familiar one. Known as odor fatigue, a person can become desensitized to almost any odor and recognition only occurs with an alteration in the intensity. The occurrence and severity of odor impacts depend on the nature, frequency, and intensity of the source; wind speed and direction; and the sensitivity of receptors.

2.2 Approach to Analysis

The analysis presented below follows the guidelines and recommendations of the BAAQMD in its 2022 *CEQA Guidelines* (BAAQMD, 2022). Potential air quality impacts are assessed by modeling the estimated average daily emissions generated by Project construction and operations

2 Pollution Engineering, New Clean Diesel Fuel Rules Start, July 2, 2006. Available at https://sj-admin.s3-us-west-2.amazonaws.com/2006_0700-PollutionEngineering_NewCleanDiesel.pdf. Accessed May 17, 2022.

3 Non-road is the term EPA uses for vehicles and equipment that are not on-road; in California the term is off-road.

4 CalMatters, New Study: California's Trailblazing Diesel Rules Save Lives, updated March 26, 2021. Available at https://calmatters.org/environment/2021/03/california-diesel-rules. Accessed May 17, 2022.

using the California Emissions Estimator Model (CalEEMod), version 2022.1.1.21 and comparing them to the BAAQMD's project-level thresholds of significance. CalEEMod was developed in collaboration with California air districts and is recommended by BAAQMD for use in CEQA analyses. BAAQMD's project-level significance thresholds are shown in **Table 2-4**.

TABLE 2-4
BAAQMD PROJECT-LEVEL AIR QUALITY THRESHOLDS OF SIGNIFICANCE

Pollutant	Construction-Related	Operational-Related	
	Average Daily Emissions, lbs./day	Average Daily Emissions, lbs./day	Maximum Annual Emissions, tons/year
ROG	54	54	10
NO_X	54	54	10
PM_{10}	82 (exhaust)	82	15
$PM_{2.5}$	54 (exhaust)	54	10
$PM_{10}/PM_{2.5}$ (fugitive dust)	BMPs	None	
Risks and Hazards (individual project)	Same as operational thresholds	Compliance with Qualified Community Risk Reduction Plan; or increased cancer risk of greater than 10.0 in a million; or increased non-cancer risk of greater than 1.0 hazard index (chronic or acute); or ambient $PM_{2.5}$ increase of greater than 0.3 µg/m^3 annual average	
Risks and Hazards (cumulative threshold)	Same as operational thresholds	Compliance with Qualified Community Risk Reduction Plan; or increased cancer risk of greater than 100 in a million from all local sources; or increased non-cancer risk of greater than 10.0 hazard index (chronic or acute) from all local sources; or ambient $PM_{2.5}$ increase of greater than 0.8 µg/m^3 annual average from all local sources	

NOTES:
BMPs = Best Management Practices

ABBREVIATIONS:
ROG = reactive organic gases; NO_X = oxides of nitrogen; PM_{10} = particulate matter with diameter equal to or less than 10 microns; $PM_{2.5}$ = particulate matter with diameter equal to or less than 2.5 microns.

SOURCE: BAAQMD, 2022

Construction

A CalEEMod annual average run was used to derive average daily emissions from construction. BAAQMD construction-related thresholds are based on average daily emissions in pounds per day. Emissions generated over the duration of each construction year were divided by the number of working days in a year to determine average daily emissions from construction. CalEEMod outputs are provided in Appendix A.

The Project applicant supplied construction phasing schedule and amount of material to be imported to the site which were used as model inputs for the Project.

Operations

The CalEEMod annual average run also provided operational emissions, which would occur once the Project became operational in 2025. BAAQMD operational-related thresholds are based on both average daily emissions in pounds per day and maximum annual emissions in tons per year. The annual run provided the annual emissions and was used to derive the average daily emissions from operations by dividing the emissions generated annually by the number of operational days in a year.

Operational trips numbers were supplied in the traffic analysis conducted by Fehr and Peers. The traffic analysis obtained net new daily trip numbers by subtracting existing daily trips associated with the existing office from the anticipated trips associated with the operations of the new warehouse. **Table 2-5** shows the traffic assumptions used in the model for operational trips.

TABLE 2-5
OPERATIONAL DAILY TRIPS

Trip Type	Daily trips
Passenger Vehicle Trips	390
Truck Trips	40
Total Trips	430

SOURCE: Fehr & Peers 2022

Sensitive Receptors

Air quality does not affect all individuals or groups within the population in the same way. Some groups are more sensitive to adverse health effects caused by exposure to air pollutants than others. Population subgroups sensitive to the health effects of air pollutants include the elderly, the young, those with higher rates of respiratory disease such as asthma and chronic obstructive pulmonary disease, and with other environmental or occupational health exposures (e.g., indoor air quality) that affect cardiovascular or respiratory diseases.

Land uses such as schools, children's daycare centers, hospitals, and nursing and convalescent homes are considered sensitive to poor indoor air quality because the population groups associated with these uses have increased susceptibility to respiratory distress. Parks and playgrounds are considered moderately sensitive to poor air quality because persons engaged in strenuous work or exercise also have increased sensitivity to poor air quality; however, exposure times are generally far shorter in parks and playgrounds than in residential locations and schools, which typically reduces the overall health risk associated with pollutant exposure. Residential areas are considered more sensitive to air quality conditions compared to commercial and industrial areas because people generally spend longer periods of time at their residences, with associated greater exposure to ambient air quality conditions. Workers are not considered sensitive receptors because all employers are required to follow regulations set forth by the Occupational Safety and Health Administration (OSHA) to ensure the health and well-being of their employees, including protecting them from air pollution.

The Project is located at 43990 Fremont Boulevard in the city of Fremont. The land surrounding the project site includes commercial retail spaces and residential neighborhoods to the north. The nearest sensitive receptors to the project site are the residences approximately 700 feet north of the site and the Lila Bringhurst Elementary school approximately 1,600 feet southwest of the site.

2.3 Impact Assessment

This impact assessment below follows the air quality impacts described within the CEQA Guidelines, Appendix G, Initial Study Checklist. **Table 2-6** presents a summary of the air quality issues and impacts.

TABLE 2-6
CEQA GUIDELINES AIR QUALITY ISSUES SUMMARY

Issue	Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
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?	☐	☐	☒	☐

SOURCE: CEQA Guidelines, Appendix G

Impact A: Construction and operational activities associated with the Project could conflict with or obstruct implementation of the applicable air quality plan.

The most recent air quality plan for the SFBAAB is BAAQMD's 2017 Clean Air Plan, *Spare the Air, Cool the Climate* (BAAQMD, 2017b). The plan's primary goals are to protect public health by achieving attainment of air quality standards. The plan includes a wide range of proposed control measures, which consist of actions to reduce the non-attainment pollutants discussed above. BAAQMD guidance states that "if approval of a project would not result in significant and unavoidable air quality impacts, after the application of all feasible mitigation, the project would be considered consistent with the Clean Air Plan (BAAQMD 2022)." As indicated in the discussion of questions b and c below, the Project would not result in significant air quality impacts. Therefore, this impact would less than significant.

Impact B: Construction and operation of the Project could result in emissions of criteria air pollutants that would exceed the BAAQMD thresholds of significance.

Construction Equipment and Dust

Emissions from the construction phase of the Project would be generated primarily from heavy duty, diesel-powered equipment such as graders, tractors, and forklifts. Criteria air pollutant emissions from equipment and on-road vehicle exhaust were estimated using CalEEMod; modeling output files are included in **Appendix A**. Construction is assumed to take place over a 12-month period, beginning in November 2024 and ending in November 2025. Project specific data for construction phasing schedule provided by the project applicant was used in the model to estimate emissions for the construction period. The total annual emissions were divided by the number of construction days within each construction year to determine average daily emissions from construction. This calculation conservatively estimates the average pounds of emissions per day of construction activity associated with the project. Emissions from equipment and vehicle exhaust are presented in **Table 2-7**, which shows average daily emissions, consistent with the BAAQMD thresholds for construction. As shown in the table, emissions of ROG, NOx, PM_{10}, and $PM_{2.5}$, without mitigation, would all be well below their respective significance thresholds, which for construction have been established by BAAQMD in terms of average daily emissions.

TABLE 2-7
AVERAGE DAILY CONSTRUCTION-RELATED CRITERIA POLLUTANT EMISSIONS (POUNDS PER DAY) WITHOUT MITIGATION

Project Average Daily Construction Emissions by Year	ROG	NO_x	Exhaust PM_{10}	Exhaust $PM_{2.5}$
2024	3.9	37.9	1.6	1.5
2025	4.8	12.7	0.5	0.5
BAAQMD Threshold for Significant Construction Impacts	54	54	82	54
Potential Significant Impact?	No	No	No	No

SOURCE: ESA (Appendix A)

Activities that generate dust include demolition, excavation, and equipment and vehicle movement across unpaved construction sites. Dust can be an irritant causing watering eyes or irritation to the lungs, nose, and throat. Excavation, grading, and other construction activities can cause wind-blown dust that adds PM_{10} and $PM_{2.5}$ to the local atmosphere. However, the City of Fremont's Standard Development Requirements to Address Resource Protection, outlined in Fremont Municipal Code Section 18.218.050(a), ensure the universal application of standard requirements for development projects that have the potential to adversely disturb or impact air quality due to dust-causing construction activities (City of Fremont 2019). These requirements for construction-related emissions include construction measures for all proposed development projects to address dust. With the implementation of the City's Standard Development Requirements, construction dust emissions would be accounted for, and the impact would be less than significant. The construction measures are as listed below.

All subsequent projects, regardless of size, shall implement the following best management practices to reduce construction impacts, particularly fugitive dust, to a less-than-significant level:

- All exposed surfaces (e.g., parking areas, staging areas, soil piles, graded areas, and unpaved access roads) shall be watered two times per day.
- All haul trucks transporting soil, sand, or other loose material off-site shall be covered.
- All visible mud or dirt track-out onto adjacent public roads shall be removed using wet power vacuum street sweepers at least once per day. The use of dry power sweeping is prohibited.
- All vehicle speeds on unpaved roads shall be limited to 15 mph.
- All roadways, driveways, and sidewalks to be paved shall be completed as soon as possible. Building pads shall be laid as soon as possible after grading unless seeding or soil binders are used.
- Idling times shall be minimized either by shutting equipment off when not in use or reducing the maximum idling time to 5 minutes (as required by the California airborne toxics control measure Title 13, Section 2485 of California Code of Regulations [CCR]). Clear signage shall be provided for construction workers at all access points.
- All construction equipment shall be maintained and properly tuned in accordance with manufacturer's specifications. All equipment shall be checked by a certified mechanic and determined to be running in proper condition prior to operation.
- Post a publicly visible sign with the telephone number and person to contact at the Lead Agency regarding dust complaints. This person shall respond and take corrective action within 48 hours. The Air District's phone number shall also be visible to ensure compliance with applicable regulations.

Operations

After the Project is built, operational emissions, including mobile and area sources, are anticipated to occur continuously throughout the Project's lifetime. There will be no natural gas associated with the operations of the Project. This Project is anticipated to begin operations in spring of 2025.

Operational-related mobile source activities, such as employee commuting, truck trips for delivery and materials hauling, use of landscape equipment, and other sources would generate emissions of criteria air pollutants, their precursors, and toxic air contaminants (TACs). Area sources generally include landscape maintenance equipment, and evaporative emissions from architectural coatings, and consumer products. **Table 2-8** and **Table 2-9** show the criteria pollutant emissions associated with operations of the Project for both average daily emissions and average annual emissions. These emissions do not exceed BAAQMD significance thresholds for criteria pollutants emitted during operations and are therefore less than significant.

TABLE 2-8
OPERATIONAL AVERAGE DAILY CRITERIA POLLUTANT EMISSIONS
(POUNDS PER DAY)

Project Operations Emissions by Category	ROG	NO_x	PM_{10}	$PM_{2.5}$
Mobile	0.80	2.92	3.44	0.90
Area	1.94	0.01	<0.01	<0.01
Energy	0	0	0	0
Water	N/A	N/A	N/A	N/A
Waste	N/A	N/A	N/A	N/A
Total	2.75	2.94	3.44	0.91
BAAQMD Threshold for Significant Operational Impacts	*54*	*54*	*82*	*54*
Potential Significant Impact?	No	No	No	No

NOTES: PM_{10} and $PM_{2.5}$ data includes exhaust and fugitive dust form entrained road dust, tire wear, and brake wear, etc.
Highest daily value between the Summer and Winter CalEEMod emissions output represented in pounds per day
SOURCE: ESA (Appendix A)

TABLE 2-9
OPERATIONAL AVERAGE ANNUAL CRITERIA POLLUTANT EMISSIONS
(TONS PER YEAR)

Project Operations Emissions by Category	ROG	NO_x	PM_{10}	$PM_{2.5}$
Mobile	0.15	0.53	0.63	0.16
Area	0.36	<0.01	<0.01	<0.01
Energy	0	0	0	0
Water	N/A	N/A	N/A	N/A
Waste	N/A	N/A	N/A	N/A
Total	0.50	0.53	0.63	0.16
BAAQMD Threshold for Significant Operational Impacts	*10*	*10*	*15*	*10*
Potential Significant Impact?	No	No	No	No

NOTES: PM_{10} and $PM_{2.5}$ data includes exhaust and fugitive dust form entrained road dust, tire wear, and brake wear, etc.
SOURCE: ESA (Appendix A)

Impact C: Implementation of the Project could expose sensitive receptors to substantial pollutant concentrations.

Construction

Construction equipment and associated heavy-duty truck traffic generate diesel exhaust, which is a known TAC. Construction exhaust emissions may pose health risks for sensitive receptors. The health risk assessment prepared for the Project evaluated the potential health effects to nearby sensitive and worker (employee) receptors from construction and operational emissions of DPM

and $PM_{2.5}$ (see Appendix A). This assessment included dispersion modeling to predict the off-site concentrations resulting from Project construction, so that lifetime cancer risks and non-cancer health effects could be evaluated. Because cancer risk is a cumulative impact, exposure to operational DPM and $PM_{2.5}$ emissions that would continue after the completion of construction was also evaluated at the maximally-exposed individual residential receptor location (MEIR) and maximally-exposed individual worker receptor location (MEIW) found from the construction health risk calculation.

Operations

The Project would also introduce a new source of DPM and $PM_{2.5}$ emissions from trucking activities associated with the Project operations. The health risk assessment prepared for the project evaluated the potential health effects to nearby sensitive and worker receptors from operational emissions of DPM and $PM_{2.5}$ (see Appendix A). This assessment was conducted as described above for construction of the Project.

Health Risk Assessment Methodology

The Health Risk Assessment (HRA) was conducted using the U.S. EPA AERMOD dispersion model (version 21112) and uses measured meteorology to predict conservative concentrations at specific locations defined by a Cartesian coordinate system. Diesel construction equipment would be used during the site preparation, grading, building construction, paving, and architectural coating phases. The proposed trucking activities would also be primarily diesel fueled.

A conservative representation of the on-site construction equipment within the Project site was modeled as an area source. The construction haul truck sources and operational trucking sources were modeled as line area sources, conservatively nearest to sensitive receptors, along Auto Mall Parkway. The modeling parameters are as follows:

- Off-site Construction: line area source representing the haul route along Auto Mall Parkway
  - Release height of 3.4 meters for haul truck exhaust;
  - Plume height of 6.8 meters;
  - Plume width of 10.0 meters;
  - Emissions occurring only between the hours of 6 AM and 6 PM, and;
- On-site Construction: one polygon area source dimensions covering the project site, with;
  - Release height of 5 meters for construction equipment exhaust;
  - Initial vertical dimension of 1.4 meters;
- Off-site Operational Mobile Sources: line area source dimensions overlaying Auto Mall Parkway within 1,500 feet of the project site, with:
  - Release height of 3.4 meters for trucking exhaust;
  - Plume height of 6.8 meters;
  - Plume width of 10.0 meters;

- Receptor flagpole height of 1.5 meters (ground-level receptor at breathing height); and
- Meteorological station of San Jose International Airport for the years 2013 through 2017.

The sources were modeled with an emission rate of one gram per second to obtain a dispersion factor (unit concentration) at each receptor location. The DPM and $PM_{2.5}$ concentrations were calculated using the dispersion factors and the DPM and $PM_{2.5}$ emissions from Table 2-7 and Table 2-8 for construction and operational TAC sources, respectively.

The HRA was based on recommended methodology of the Office of Environmental of Health Hazard Assessment (OEHHA) and adopted by the BAAQMD (OEHHA 2015). To calculate the resident child cancer risks, the 95th percentile daily child breathing rate is recommended by the BAAQMD for children under the age of two and 80th percentile rate for age groups that are 2 years old or older (BAAQMD 2022). These breathing rates were used along with the modeled annual TAC concentrations and assuming the exposure would occur for 350 days per year at the residence, as recommended by BAAQMD.

Table 2-10 summarizes the maximum cancer risks and chronic health hazard index for project-related construction activities affecting both the MEIR and MEIW. The MEIR is located approximately 980 feet north of the Project site and is shown in **Figure 1**, while the MEIW is located approximately 570 feet east of the Project site and is shown in **Figure 2**. The health risks at the nearby school would be even less than what is represented in the table below, as it is further away from the Project site than the MEIR. The maximum excess residential cancer risks at this location would not exceed the BAAQMD significance threshold of 10 in one million, the maximum chronic health hazard index would not exceed the BAAQMD threshold of 1.0, and the maximum annual $PM_{2.5}$ concentration would not exceed the BAAQMD threshold of 0.3 $\mu g/m^3$ for unmitigated construction activity. As a result, health risk impacts would be less than significant.

TABLE 2-10
HEALTH RISK IMPACTS AT THE MAXIMUM EXPOSED SENSITIVE RECEPTORS

Receptor Type / Risk Scenario	Maximum Cancer Risk (per million)	Chronic Hazard Index	$PM_{2.5}$ concentration ($\mu g/m^3$)
Construction MEIR			
Residential MEIR (592925.4 E, 4152388.0 N)	3.53	<0.01	0.02
Worker MEIW (593125.4 E, 4151988.0 N)	0.39	<0.01	0.04
BAAQMD Threshold of Significance	*10.0*	*1.0*	*0.3*
Exceeds Significance Threshold?	No	No	No
Operational MEIR			
Operational Risk (592825.4 E, 4152308.0 N)	1.72	<0.01	<0.01
BAAQMD Threshold of Significance	*10.0*	*1.0*	*0.3*
Potential Significant Impact?	No	No	No

SOURCE: ESA (Appendix A)

Figure 1: Distance of MEIR to Project Site

Impact D: Implementation of the project could result in odorous emissions that could adversely affect a substantial number of people.

During construction, the use of diesel-powered vehicles and equipment could temporarily generate localized odors, which would cease upon Project completion and would not result in a significant odor impact.

Typical land uses that have the potential to generate continuous odorous impacts and odor complaints during operation include wastewater treatment plants, landfills, confined animal facilities, composting stations, food manufacturing plants, refineries, and chemical plants. The Project is a warehouse that does not include land uses that are identified as common odor sources. Therefore, operation of the Project would result in a less than significant impact with respect to odorous emissions.

Figure 2: Distance of MEIW to Project Site

Cumulative Health Risk Impact at MEIRs

Consistent with BAAQMD's CEQA Guidelines, the health risk from cumulative exposure to $PM_{2.5}$, DPM, and other nearby sources of TACs was evaluated for the MEIR. The cumulative evaluation combines health risks from project construction and operation with other nearby, existing sources of $PM_{2.5}$ and TAC emissions within 1,000 feet of the project site boundary.

Within 1,000 feet of the project site, there are five stationary, permitted sources that would contribute to cumulative cancer risk at the MEIR. Other sources of TACs are mobile: rail and on-road vehicles emitting mainly volatile organic compounds in gasoline but also DPM. This analysis evaluated cancer risk and $PM_{2.5}$ concentrations from the stationary, rail, and mobile sources. Health risks from the stationary source were based on a BAAQMD stationary source screening map (BAAQMD, 2024). Health risks from mobile sources were based on a BAAQMD geographic information systems (GIS) dataset that provides separate health risk estimates for rail,

major streets, and highways (BAAQMD, 2022b). The BAAQMD GIS mobile source files were used to estimate cancer risk and annual average $PM_{2.5}$ concentrations from the nearby mobile sources located within 1,000 feet of the project boundary. Modeling assumptions, equations, and the cancer risk calculations are included in Appendix A.

Table 2-11 reports both the Project and existing cumulative community risk impacts. The cumulative cancer risk, chronic health hazard index, and $PM_{2.5}$ concentrations would not exceed their cumulative source thresholds of greater than 100 per million, greater than 10.0, and greater than 0.8 µg/m^3, respectively. Thus, a **less-than-significant cumulative** impact would occur during construction and operation of the Project.

Table 2-11
Cumulative Health Risk Impacts at the Maximum Exposed Sensitive Receptors

Receptor Type / Risk Scenario	Maximum Cancer Risk (per million)	Hazard Index	$PM_{2.5}$ concentration (µg/m^3)
Construction MEIR			
Project Risk	3.53	<0.01	0.02
Existing Mobile Source Risk	20.8	0.06	0.42
Existing Stationary Source Risk	0.49	<0.01	<0.01
Project + Existing	**24.8**	**0.06**	**0.44**
BAAQMD Cumulative Threshold of Significance	*100.0*	*10.0*	*0.8*
Exceeds Significance Threshold?	No	No	No
Operational MEIR			
Project Risk (Operational)	1.72	<0.01	<0.01
Existing Mobile Source Risk	20.8	0.06	0.42
Existing Stationary Source Risk	0.49	<0.01	<0.01
Project + Existing	**23.0**	**0.06**	**0.42**
BAAQMD Cumulative Threshold of Significance	*100.0*	*10.0*	*0.8*
Exceeds Significance Threshold?	No	No	No

SOURCE: ESA (Appendix A)

3. Greenhouse Gases

3.1 Environmental Setting

"Global warming" and "climate change" are common terms used to describe the increase in the average temperature of the Earth's near-surface air and oceans since the mid-20th century. Natural processes and human actions have been identified as impacting climate. Since the 19th century, increasing GHG concentrations resulting from human activity such as fossil fuel combustion, deforestation, and other activities are believed to be a major factor in climate change. GHGs in

the atmosphere naturally trap heat by impeding the exit of solar radiation – a phenomenon sometimes referred to as the "greenhouse effect." Some GHGs occur naturally and are necessary for keeping the Earth's surface inhabitable. However, increases in the concentrations of these gases in the atmosphere during the last 100 years have trapped solar radiation and decreased the amount that is reflected back into space, intensifying the natural greenhouse effect and resulting in the increase of global average temperature.

Carbon dioxide (CO_2), methane (CH_4), and nitrous oxide (N_2O) are the principal GHGs. When concentration of these gases exceed historical concentrations in the atmosphere, the greenhouse effect is intensified. CO_2 is the reference gas for climate change, as it is the GHG emitted in the highest volume. The effect that each of the GHGs have on global warming is the product of the mass of their emissions and their global warming potential (GWP). GWP indicates how much a gas is predicted to contribute to global warming relative to how much warming would be predicted to be caused by the same mass of CO_2. For example, CH_4 and N_2O are substantially more potent GHGs than CO_2, with GWPs of approximately 25 and approximately 298 times that of CO_2, which has a GWP of 1 (CARB, 2022).

In emissions inventories, GHG emissions are typically reported as metric tons of CO_2 equivalents (MT CO_2e). CO_2e is calculated as the product of the mass emitted of a given GHG and its specific GWP. While CH_4 and N_2O have much higher GWPs than CO_2, CO_2 is emitted in higher quantities and it accounts for the majority of GHG emissions in CO_2e, both from developments and human activity in general.

3.2 Approach to Analysis and Significance Thresholds

Both BAAQMD and the California Air Pollution Control Officers Association (CAPCOA) consider GHG impacts to be exclusively cumulative impacts (BAAQMD, 2022; CAPCOA, 2008); therefore, assessment of significance is based on a determination of whether the GHG emissions from a project represent a cumulatively considerable contribution to the global atmosphere. Significance of GHG impacts is generally evaluated by a) comparison to GHG thresholds and b) consistency with an adopted plan, policy, or regulation. For GHG thresholds, the BAAQMD published the 2022 Justification Report that presents GHG thresholds, which are based on AB 32 and California Climate Change Scoping Plan reduction targets and strategies developed to reduce GHG emissions statewide (BAAQMD, 2022). These thresholds are presented in **Table 3-1**.

GHG emissions resulting from the Project were estimated using CalEEMod, using assumptions included in **Appendix A**. CalEEMod defaults were used when Project-specific data was not available. Construction emissions were estimated for equipment and truck exhaust and construction worker vehicles. In regard to operations, vehicle trips were obtained from the traffic analysis conducted for the Project. As stated above, the traffic analysis provided net new trip numbers that were calculated based on the existing daily trip numbers and the anticipated operational daily trip numbers. The model makes adjustments for implementation of Pavley vehicle standards and Low Carbon Fuel Standards. This analysis focuses on presenting Project

TABLE 3-1
BAAQMD GHG THRESHOLDS OF SIGNIFICANCE (MUST INCLUDE A OR B)

Option	Air District Thresholds
Option A	Projects must include, at a minimum, the following project design elements: 1) Buildings a. No natural gas (residential and non-residential) b. No wasteful, inefficient, or unnecessary energy usage as determined by the analysis required under CEQA Section 21100(b)(3) and Section 15126.2(b) of the State CEQA Guidelines 2) Transportation a. Meet a locally adopted Senate Bill (SB) 743 VMT target b. Achieve compliance with EV requirements in the most recently adopted version of CALGreen Tier 2
Option B	Be consistent with a local GHG Reduction Strategy that meets the criteria under the CEQA Guidelines Section 15183.5(b)

SOURCES: BAAQMD 2022. *Justification Report: CEQA Thresholds for Evaluating the Significance of Climate Impacts from Land Use Projects and Plans*, April.

GHG emissions for informational purposes and evaluating the Project against the BAAQMD 2022 Option A GHG significance thresholds.

3.3 Impact Assessment

This impact assessment follows the GHG issues described within the CEQA Guidelines, Appendix G, Initial Study Checklist. **Table 3-2** presents a summary of the greenhouse gas issues and impacts.

TABLE 3-2
CEQA GUIDELINES GREENHOUSE GAS ISSUES SUMMARY

Issue	Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
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 adopted plan, policy, or regulation adopted for the purpose of reducing the emissions of greenhouse gases?	☐	☐	☒	☐

SOURCE: CEQA Guidelines, Appendix G

Impact A: Implementation of the Project would not result in direct and indirect emissions of GHGs that would result in a significant impact on the environment.

Construction

The combustion of diesel fuel to provide power for the operation of various construction equipment, and gasoline for worker commutes, result in the generation of GHGs. Construction emissions associated with the Project were estimated using Project-specific information provided by the client, such as construction schedule and phasing. Appendix A contains the data and assumptions used to estimate the construction-phase GHG emissions that would be associated with the Project.

CO_2, CH_4 and N_2O emissions from off-road construction equipment and construction vehicle trips were derived from the CalEEMod run to estimate criteria air pollutant emissions. N_2O and CH_4 emissions were multiplied by their respective Global Warming Potentials GWPs (25 and 298) and added to the CO_2 emissions to obtain CO_2e emissions.

Table 3-3 shows that Project construction would generate a total of approximately 429 $MTCO_2e$ over the 12-month construction period, with annual amortized averages for Project construction emission to be 14.3 $MTCO_2e$. The BAAQMD does not have adopted significance thresholds for construction related GHG emissions in its 2022 CEQA Guidelines (BAAQMD 2022). However, it recommends that the Lead Agency (i.e., the City of Fremont) quantify and disclose construction GHG emissions and incorporate best management practices to reduce GHG emissions during construction, as applicable.

TABLE 3-3
ANNUAL PROJECT CONSTRUCTION GHG EMISSIONS

Construction Year	CO_2e metric tons/year
2024	119
2025	309
Total	**428**
Amortized	**14.3**

NOTES:

$MTCO_2e$ = metric tons of carbon dioxide equivalent

Construction-related GHG emissions were amortized over 30 years, which is a commonly accepted method for including construction emissions as part of the Project's average annual emissions.

SOURCE: Data compiled by Environmental Science Associates in 2024 (Appendix A)

As discussed previously, the GHG thresholds published by the BAAQMD in response to SB 32's GHG reduction goals do not contain significance thresholds for construction (BAAQMD, 2022). GHG emissions from the construction phase of a project represent a very small portion of emissions over the project's lifetime, which for the projects such as the Project would be at least 30 years. The BAAQMD's proposed thresholds are instead designed to address operational GHG emissions from land use development projects which represent the majority of a project's GHG

emissions. The primary source of GHG emissions from construction is diesel-powered construction equipment. Large reductions in construction emissions are difficult to realize because there are currently no economical alternatives to diesel fuel for powering most construction equipment. Improvements in statewide regulations governing construction equipment and fuel standards driven by SB 32 and other initiatives will also contribute to reduced emissions from construction activities. Therefore, GHG emissions associated with Project construction would be considered less than significant.

Appendix A contains details on the calculations and assumptions used to estimate construction GHG emissions as well as model outputs.

Operations

Emissions during operations would occur from vehicle trips to the project site, energy use on-site, material handling equipment at the warehouse, and other on-site area sources, such as landscape maintenance and use of consumer cleaning products. Indirect emissions would come from electricity used to power the Project, treatment and transportation of water and wastewater, and disposal of generated solid waste. There are no backup generators associated with the Project, and no other sources of GHG emissions that would have unusual levels of emissions.

For informational purposes, Project operational emissions are presented in **Table 3-4**. As discussed above and shown in Table 3-1, the BAAQMD 2022 GHG thresholds are project design-based rather than a numeric threshold of GHG emissions.

TABLE 3-4
ANNUAL PROJECT OPERATIONAL GHG EMISSIONS

Operational Source	CO_2e metric tons/year
Mobile	700
Area	1.02
Energy	155
Water	31.9
Waste	20.5
Total Project Operations	**908**

SOURCES: Data compiled by Environmental Science Associates in 2024 (Appendix A)

The Project would meet BAAQMD GHG threshold option A in Table 3-1 for the following reasons:

- **Option A, 1a.) Buildings:** The Project would not include natural gas.
- **Option A, 1b.**) **Energy:** The Project would not result in any wasteful, inefficient, or unnecessary energy usage, as determined in Impact A of the Energy analysis of this technical report.
- **Option A, 2a.) Transportation:** The required number of EV charging stations in the most recently adopted version of CalGREEN Tier 2 will be included in the project design.

CalGREEN stipulates that a nonresidential project with 101-150 parking spaces must have a minimum of 25 EV capable spaces. The Project would have 107 parking spaces, and 28 EV capable spaces.

- **Option A, 2b.) Transportation:** The City of Fremont has locally adopted SB 743 VMT thresholds; for this Project, that threshold is the existing regional VMT per employee (City of Fremont, 2020). The locally adopted SB 743 VMT target reflects the recommendations provided in the Governor's Office of Planning and Research's (OPR) Technical Advisory on Evaluating Transportation Impacts in CEQA, and therefore aligns with long-term climate goals. The transportation analysis prepared by Fehr & Peers showed the existing regional VMT per employee to be 18.1 miles, and the VMT per employee for the Project to be 15.7, which is below the locally adopted threshold that is presented in **Table 3-5**.

TABLE 3-5
CITY OF FREMONT SB 743 VMT THRESHOLDS

Land Use	VMT per Employee
Project	15.7
Existing Regional VMT (threshold for industrial uses)	**18.1**

SOURCES: Fehr & Peers Transportation Analysis (2024), City of Fremont Transportation Impact Analysis Handbook Final (2024)

The Project would meet all the significance criteria listed in Option A, resulting in a **less-than-significant** impact with respect to GHG emissions.

Impact B: The project would not conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of greenhouse gases.

In response to AB 32 GHG reduction goals, CARB adopted the Climate Change Scoping Plan, which outlined a framework for achieving the emission reduction goals set in the California Global Warming Solutions Act. The Scoping Plan was most recently updated in 2022 and lays out a path to achieve targets for carbon neutrality and reduce anthropogenic GHG emissions by 85 percent below 1990 levels no later than 2045, as directed by AB 1279 (CARB 2022).

Option B would mean consistency with the local, adopted GHG reduction strategy, which is the City of Fremont's Climate Action Plan (CAP) titled *Climate Ready Fremont*, adopted in October 2023. The CAP has two main goals: to reduce GHG emissions from local activities to achieve GHG reduction targets, and to build community resilience to prepare for and adapt to the impacts of climate change. The CAP has a goal of 55% GHG emissions reduction target by 2030 from the 2005 baseline and achieving carbon neutrality by 2045 (Fremont, 2023).

A specific measure from the CAP that applies to construction is Measure IN-12, which requires new development projects to convert 40 percent of construction equipment to electric or be powered by renewable diesel by 2030, 80 percent by 2045, and 85 percent by 2050. However,

construction of the proposed project would be completed well before 2030 and therefore would not conflict with Measure IN-12. A specific measure that applies to operations of the Project is Measure BU-1, which requires a transition to 100 percent clean electricity consumption by 2030. Electricity for the Project would be supplied by Pacific Gas and Electric (PG&E). PG&E provided 100 percent GHG-free electricity to customers in 2023 and will continue to supply electricity from a diverse portfolio of GHG-free electricity from nuclear, renewables, and hydro-electric sources (PG&E, 2024a).

The Project would generate GHG emissions primarily from construction activities and mobile emissions during operations. The 2022 Scoping Plan Update contains one measure on emissions from construction and requires that 25 percent of energy demand from all construction equipment be electrified by 2023 and 75 percent by 2045. However, construction of the proposed project would be completed well before 2030 and therefore would align with the state-level targets. There will also be no natural gas consumption in the operations of the Project. All electricity for the Project will be supplied by PG&E, which is required to comply with SB 100 and RPS. SB 100 requires that the proportion of electricity from renewable sources be 60 percent by 2030 and 100 percent renewable power by 2045. Construction activities would comply with state and local requirements designed to minimize idling and associated emissions, which would also minimize the use of fuel. Specifically, pursuant to 13 CCR Sections 2485 and 2449, idling of commercial vehicles over 10,000 pounds and off-road equipment over 25 horsepower would be limited to a maximum of five minutes. Fuel use for Project construction would be consistent with typical construction and manufacturing practices, and energy standards such as the Energy Policy Acts of 1975 and 2005, which promote strategic planning and building standards that reduce consumption of fossil fuels, increase use of renewable resources, and enhance energy efficiency.

The Project would be consistent with the plans and policies described above, plus the Project would comply with state and local regulations and thresholds and would therefore have a less than significant impact.

4. Energy Analysis

4.1 Environmental Setting

Pacific Gas & Electric Company (PG&E) and Ava Community Energy (formally East Bay Community Energy) are the two electricity providers for residents and businesses in the City of Fremont. Ava is an electricity generation provider, with PG&E still serving as the power transmission and distribution entity. Ava buys its power from renewable and carbon-free sources such as wind, solar, and hydropower. In 2022, more than 40 percent of the electricity PG&E delivered to its customers came from eligible renewable resources including solar, wind, bioenergy, geothermal and small hydropower and is on target to meet the 2045 goal (PG&E, 2024b).

Policy and Regulations

The Energy Policy and Conservation Act of 1975 established nationwide fuel economy standards to conserve oil. Under this act, the National Highway Traffic and Safety Administration, is responsible for revising existing fuel economy standards and establishing new vehicle economy standards. The Corporate Average Fuel Economy (CAFE) program was established to determine vehicle manufacturer compliance with the government's fuel economy standards. Three Energy Policy Acts have been passed, in 1992, 2005, and 2007, to reduce dependence on foreign petroleum, provide tax incentives for alternative fuels, and support energy conservation.

The Energy Policy Act of 1992 (EPAct) was passed to reduce the country's dependence on foreign petroleum and improve air quality. EPAct includes several parts intended to build an inventory of alternative fuel vehicles (AFVs) in large, centrally fueled fleets in metropolitan areas. EPAct requires certain federal, state, and local government and private fleets to purchase a percentage of light-duty AFVs capable of running on alternative fuels each year. In addition, financial incentives are also included in EPAct. Federal tax deductions are allowed for businesses and individuals to cover the incremental cost of AFVs. States are also required by the act to consider a variety of incentive programs to help promote AFVs. The Energy Policy Act of 2005 provides renewed and expanded tax credits for electricity generated by qualified energy sources, such as landfill gas; provides bond financing, tax incentives, grants, and loan guarantees for clean renewable energy and rural community electrification; and establishes a federal purchase requirement for renewable energy.

The 2019 California Energy Efficiency Action Plan has three primary goals for the state: double energy efficiency savings by 2030 relative to a 2015 base year (per SB 350), expand energy efficiency in low-income and disadvantaged communities, and reduce greenhouse gas emissions from buildings. This plan provides guiding principles and recommendations on how the state would achieve those goals. These recommendations include:

- identifying funding sources that support energy efficiency programs,
- identifying opportunities to improve energy efficiency through data analysis,
- using program designs as a way to encourage increased energy efficiency on the consumer end,
- improving energy efficiency through workforce education and training, and
- supporting rulemaking and programs that incorporate energy demand flexibility and building decarbonization. (CEC 2019)

The energy consumption of new residential and nonresidential buildings in California is regulated by the state's Title 24, Part 6, Building Energy Efficiency Standards (California Energy Code). The California Energy Code was established by CEC in 1978 in response to a legislative mandate to create uniform building codes to reduce California's energy consumption and provide energy efficiency standards for residential and non-residential buildings. CEC updates the California Energy Code every 3 years with more stringent design requirements for reduced energy consumption, which results in the generation of fewer GHG emissions.

The 2019 California Energy Code was adopted by CEC on May 9, 2018 and applies to projects constructed after January 1, 2020. Non-residential buildings are anticipated to reduce energy consumption by 30 percent as compared to the 2016 California Energy Code primarily through prescriptive requirements for high-efficiency lighting (CEC 2018). The Energy Code is enforced through the local plan check and building permit process. Local government agencies may adopt and enforce additional energy standards for new buildings as reasonably necessary due to local climatologic, geologic, or topographic conditions, provided that these standards exceed those provided in the California Energy Code.

Various regulatory and planning efforts are aimed at reducing dependency on fossil fuels, increasing the use of alternative fuels, and improving California's vehicle fleet. Senate Bill (SB) 375 aligns regional transportation planning efforts, regional GHG emission reduction targets, and land use and housing allocation. CARB, in consultation with the metropolitan planning organizations, provides each affected region with reduction targets for GHGs emitted by passenger cars and light trucks in their respective regions for 2020 and 2035.

Pursuant to Assembly Bill (AB) 2076 (Chapter 936, Statutes of 2000), CEC and the CARB prepared and adopted a joint agency report in 2003, Reducing California's Petroleum Dependence. Included in this report are recommendations to increase the use of alternative fuels to 20 percent of on-road transportation fuel use by 2020 and 30 percent by 2030, significantly increase the efficiency of motor vehicles, and reduce per capita VMT (CEC and CARB 2003).

AB 1007 (Chapter 371, Statues of 2005) required CEC to prepare the State Alternative Fuels Plan to increase the use of alternative fuels in California.

In January 2012, CARB approved the Advanced Clean Cars program which combines the control of GHG emissions and criteria air pollutants, as well as requirements for greater numbers of zero-emission vehicles, into a single package of standards for vehicle model years 2017 through 2025. The program's zero-emission vehicle regulation requires battery, fuel cell, and/or plug-in hybrid electric vehicles to account for up to 15 percent of California's new vehicle sales by 2025.

SB X1-2 of 2011 requires all California utilities to generate 33 percent of their electricity from renewables by 2020. SB X1-2 also requires the renewable electricity standard to be met increasingly with renewable energy that is supplied to the California grid from sources within, or directly proximate to, California. SB X1-2 mandates that renewables from these sources make up at least 50 percent of the total renewable energy for the 2011-2013 compliance period, at least 65 percent for the 2014-2016 compliance period, and at least 75 percent for 2016 and beyond.

SB 100, signed in September 2018, requires that all California utilities, including independently-owned utilities, energy service providers, and community choice aggregators, supply 44 percent of retail sales from renewable resources by December 31, 2024, 50 percent of all electricity sold by December 31, 2026, 52 percent by December 31, 2027, and 60 percent by December 31, 2030. The law also requires that eligible renewable energy resources and zero-carbon resources supply 100 percent of retail sales of electricity to California end-use customers and 100 percent of electricity procured to serve all State agencies by December 31, 2045.

The Energy Independence and Security Act of 2007 is designed to improve vehicle fuel economy and help reduce U.S. dependence on oil. It represents a major step forward in expanding the production of renewable fuels, reducing dependence on oil, and confronting global climate change. The Energy Independence and Security Act of 2007 increases the supply of alternative fuel sources by setting a mandatory Renewable Fuel Standard requiring fuel producers to use at least 36 billion gallons of biofuel in 2022, which represents a nearly five-fold increase over current levels; and reduces U.S. demand for oil by setting a national fuel economy standard of 35 miles per gallon by 2020—an increase in fuel economy standards of 40 percent.

By addressing renewable fuels and the CAFE standards, the Energy Independence and Security Act of 2007 builds upon progress made by the Energy Policy Act of 2005 in setting out a comprehensive national energy strategy for the 21st century.

4.2 Approach to Analysis

CEQA focuses on the efficient use of energy rather than comparisons of estimated energy amounts to be consumed to quantitative significance thresholds. Energy efficiency can be achieved through a number of ways including utilizing sustainable design features, using renewable energy sources, and following regulations and policies regarding efficient energy usage. Efficiency is analyzed by comparing gasoline and diesel usage associated with the Project to usage in the County and assessing energy needs during both construction and operation of the Project.

4.3 Impact Assessment

Table 4-1 presents a summary of the Energy issues and impacts.

TABLE 4-1
CEQA GUIDELINES ENERGY ISSUES SUMMARY

Issue	Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
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?	☐	☐	☒	☐

SOURCE: CEQA Guidelines, Appendix G

Impact A: Result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation?

Both construction and operation of the Project would involve expenditure of energy. Below are discussions of the energy resources that would be consumed during construction and operation of the Project.

Construction

During construction, energy use would be both direct and indirect. Direct energy use would include the consumption of fuel (typically gasoline and diesel fuel) for the operation of construction equipment and vehicles. Energy in the form of electricity may also be consumed by some pieces of construction equipment, such as welding machines, power tools, lighting, etc.; however, the amount of consumed electricity would be relatively minimal. Indirect energy use would include the energy required to make the materials and components used in construction. This includes energy used for extraction of raw materials, manufacturing, and transportation associated with manufacturing.

Construction activities at the Project site would occur over a period of approximately 12 months. These activities would include use of heavy-duty construction equipment and offsite vehicles to transport equipment, materials, and workers to the project component sites.

Energy use requirements in the form of diesel fuel that would be consumed by off-road construction equipment at the project site have been estimated based on the GHG emissions estimates from obtained from the CalEEMod modeling conducted for the Air Quality and GHG analysis. GHG emissions from CalEEMod were used in conjunction with The Climate Registry's 2023 default factors for calculating CO_2 emissions from diesel fuel (TCR, 2023). The analysis assumes that all off-road construction equipment would be fueled by diesel.

The analysis assumes that light-duty automobiles and trucks used by commuting construction workers would be fueled by gasoline, and that vendor vehicles and trucks that would haul demolition debris, soil, and other materials would use diesel fuel. This analysis assumes that no electric on-road vehicles would be used during Project construction. The quantities of diesel fuel and gasoline required by on-road vehicles during construction have been calculated based on the GHG emissions associated with vendor, haul, and commuter trips and the Climate Registry's 2023 default factors for calculating CO_2 emissions from gasoline and diesel fuels (TCR, 2023). GHG emissions associated with commuting workers and vendor and haul trips were estimated using information provided by the transportation analysis conducted by Fehr & Peers for estimated trip counts and CalEEMod trip lengths. As stated above, the traffic analysis provided net new trip numbers that were calculated based on the existing daily trip numbers and the anticipated operational daily trip numbers.

In addition to fuels used by equipment and vehicles, construction activities would use water for dust suppression and management, which in turn would require electricity to supply, treat, and transport the water to the project area.

It is estimated that over the entire construction period of the Project, off-road equipment and on-road vender and haul trucks would consume approximately 39,358 gallons of diesel fuel and commuting worker vehicles would consume approximately 2,151 gallons of gasoline (see **Table 4-2**).

TABLE 4-2
CONSTRUCTION DIESEL AND GASOLINE USE

Fuel Type	Gallons Used
Diesel	39,358
Gasoline	2,151

SOURCES: Data calculated using CalEEMod outputs (Appendix A)

The consumption of fuel energy during construction would be temporary, localized, and would amount to a very small fraction of the 57 million gallons of diesel and 473 million gallons of gasoline sold in Alameda (California Energy Commission [CEC], 2024). Vehicles used for Project construction and operation would be required to comply with all federal and state efficiency standards. Additionally, there are no Project characteristics or features that would be inefficient or that would result in the use of equipment and vehicles in a manner that would be less energy efficient than similar construction projects.

Therefore, Project construction would not result in wasteful, inefficient, or unnecessary use of energy, and would result in a less-than-significant impact associated with energy consumption.

Operations

Once operational, the Project's power requirements would come from electricity needs in the warehouse (lighting, equipment, technology, etc.). Electricity needed to operate the facility would be sourced from an existing PG&E power drop to the site and no new distribution power line would be required for the Project. Electricity use would amount to up to approximately 1,624 megawatt hours per year. Project buildings would be subject to the most recent 2022 Title 24 energy efficiency standards that also emphasize use of renewable electricity by requiring photovoltaic (PV) panels be installed on all project buildings. Project vehicle trips would continue to be subject to increasingly stringent fuel efficiency standards which would increase the fuel efficiency of the overall fleet as newer fuel efficient and electric vehicles replace older less efficient vehicles.

Therefore, Project construction and operation would not result in wasteful, inefficient, or unnecessary consumption of energy resources, and would therefore have a less than significant impact.

Impact B: Conflict with or obstruct a state or local plan for renewable energy or energy efficiency?

As discussed above, Project construction would require the use of off-road construction equipment and on-road trucks. Construction activities would comply with state and local requirements designed to minimize idling and associated emissions, which would also minimize the use of fuel. Specifically, pursuant to 13 CCR Sections 2485 and 2449, idling of commercial vehicles over 10,000 pounds and off-road equipment over 25 horsepower would be limited to a maximum of five minutes. Fuel use for Project construction would be consistent with typical construction and manufacturing practices, and energy standards such as the Energy Policy Acts of 1975 and 2005, which promote strategic planning and building standards that reduce consumption of fossil fuels, increase use of renewable resources, and enhance energy efficiency.

Once operational, the Project's primary energy use would be electricity provided by PG&E, which would be subject to SB 100 under California's Renewable Portfolio Standard (RPS) Program. Signed into law by Governor Brown, SB 100 increased California's RPS target to 60 percent of total electric retail sales by 2030 and requires 100 percent of electric retail sales to come from eligible renewable or carbon-free resources by 2045. PG&E, as the utility provider, is subject to these requirements. There are no aspects of the Project that would conflict with or obstruct a state or local plan for renewable energy or energy efficiency and there would be no impact.

Cumulative Impacts

The Project, in combination with past, present, and probable future projects in the project area, would not result in significant adverse cumulative air quality, energy, or greenhouse gas impacts.

The air basin is a nonattainment area for both the federal and state ozone standards; therefore, an air quality impact already exists. Additional emissions of ozone precursors NO_X or ROG over threshold amounts would further degrade air quality related to ozone. Air Quality Impact B evaluates whether the Project's contribution to this significant impact would be considerable. In addition, the BAAQMD's project-level criteria air pollutant thresholds are based on levels below which new sources would not result in a cumulatively considerable net increase in criteria air pollutants for which the region is in nonattainment. The potential for the Project to result in significant criteria air pollutant emissions, and therefore a cumulatively considerable contribution to non-attainment criteria pollutants, is addressed under Impact B. Therefore, no separate cumulative criteria air pollutant analysis is required. Similarly, GHG emissions are considered a cumulative impact and are addressed above under GHG Impact A and B.

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Appendix A
Air Quality, GHG, and Energy Technical Analysis

ESA

A-1 CalEEMod Run

43990 Fremont Project Detailed Report

Table of Contents

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	43990 Fremont Project
Construction Start Date	11/1/2024
Operational Year	2025
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.70
Precipitation (days)	25.8
Location	43990 Fremont Blvd, Fremont, CA 94538, USA
County	Alameda
City	Fremont
Air District	Bay Area AQMD
Air Basin	San Francisco Bay Area
TAZ	1696
EDFZ	1
Electric Utility	Pacific Gas & Electric Company
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.24

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description

Unrefrigerated Warehouse-No Rail	69.9	1000sqft	4.17	69,872	21,186	—	—	—
Parking Lot	107	Space	0.96	0.00	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Construction	C-2*	Limit Heavy-Duty Diesel Vehicle Idling
Construction	C-10-C	Water Unpaved Construction Roads
Construction	C-11	Limit Vehicle Speeds on Unpaved Roads
Construction	C-13	Use Low-VOC Paints for Construction

* Qualitative or supporting measure. Emission reductions not included in the mitigated emissions results.

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.57	2.18	18.4	24.9	0.04	0.78	0.45	1.23	0.72	0.11	0.83	—	4,598	4,598	0.18	0.09	2.34	4,632
Mit.	2.57	2.18	18.4	24.9	0.04	0.78	0.45	1.23	0.72	0.11	0.83	—	4,598	4,598	0.18	0.09	2.34	4,632
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	33.5	33.3	62.2	56.3	0.09	2.68	3.11	5.56	2.46	1.42	3.67	—	9,935	9,935	0.41	0.23	0.09	10,014
Mit.	15.6	15.4	62.2	56.3	0.09	2.68	3.11	5.56	2.46	1.42	3.67	—	9,935	9,935	0.41	0.23	0.09	10,014

% Reduced	53%	54%	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.04	2.88	7.58	9.46	0.02	0.31	0.56	0.88	0.29	0.23	0.52	—	1,853	1,853	0.07	0.04	0.43	1,868
Mit.	1.92	1.76	7.58	9.46	0.02	0.31	0.56	0.88	0.29	0.23	0.52	—	1,853	1,853	0.07	0.04	0.43	1,868
% Reduced	37%	39%	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.56	0.53	1.38	1.73	< 0.005	0.06	0.10	0.16	0.05	0.04	0.09	—	307	307	0.01	0.01	0.07	309
Mit.	0.35	0.32	1.38	1.73	< 0.005	0.06	0.10	0.16	0.05	0.04	0.09	—	307	307	0.01	0.01	0.07	309
% Reduced	37%	39%	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

2.2. Construction Emissions by Year, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	2.57	2.18	18.4	24.9	0.04	0.78	0.45	1.23	0.72	0.11	0.83	—	4,598	4,598	0.18	0.09	2.34	4,632
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	7.64	6.39	62.2	56.3	0.09	2.68	3.11	5.56	2.46	1.42	3.67	—	9,935	9,935	0.41	0.23	0.09	10,014
2025	33.5	33.3	16.7	18.6	0.03	0.73	2.97	3.69	0.67	1.39	2.06	—	3,383	3,383	0.14	0.08	0.05	3,410
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	0.55	0.46	4.47	4.05	0.01	0.19	0.10	0.29	0.18	0.02	0.20	—	716	716	0.03	0.02	0.10	722

2025	3.04	2.88	7.58	9.46	0.02	0.31	0.56	0.88	0.29	0.23	0.52	—	1,853	1,853	0.07	0.04	0.43	1,868
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	0.10	0.08	0.82	0.74	< 0.005	0.04	0.02	0.05	0.03	< 0.005	0.04	—	119	119	< 0.005	< 0.005	0.02	119
2025	0.56	0.53	1.38	1.73	< 0.005	0.06	0.10	0.16	0.05	0.04	0.09	—	307	307	0.01	0.01	0.07	309

2.3. Construction Emissions by Year, Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	2.57	2.18	18.4	24.9	0.04	0.78	0.45	1.23	0.72	0.11	0.83	—	4,598	4,598	0.18	0.09	2.34	4,632
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	7.64	6.39	62.2	56.3	0.09	2.68	3.11	5.56	2.46	1.42	3.67	—	9,935	9,935	0.41	0.23	0.09	10,014
2025	15.6	15.4	16.7	18.6	0.03	0.73	2.97	3.69	0.67	1.39	2.06	—	3,383	3,383	0.14	0.08	0.05	3,410
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	0.55	0.46	4.47	4.05	0.01	0.19	0.10	0.29	0.18	0.02	0.20	—	716	716	0.03	0.02	0.10	722
2025	1.92	1.76	7.58	9.46	0.02	0.31	0.56	0.88	0.29	0.23	0.52	—	1,853	1,853	0.07	0.04	0.43	1,868
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	0.10	0.08	0.82	0.74	< 0.005	0.04	0.02	0.05	0.03	< 0.005	0.04	—	119	119	< 0.005	< 0.005	0.02	119
2025	0.35	0.32	1.38	1.73	< 0.005	0.06	0.10	0.16	0.05	0.04	0.09	—	307	307	0.01	0.01	0.07	309

2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.25	3.05	2.79	13.5	0.04	0.05	3.46	3.50	0.04	0.88	0.92	66.4	5,303	5,369	7.04	0.43	15.5	5,688
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.68	2.51	3.03	9.46	0.04	0.04	3.46	3.50	0.04	0.88	0.92	66.4	5,084	5,150	7.05	0.44	0.40	5,457
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.93	2.75	2.94	10.7	0.04	0.04	3.40	3.44	0.04	0.86	0.91	66.4	5,107	5,173	7.05	0.43	6.71	5,485
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.54	0.50	0.54	1.95	0.01	0.01	0.62	0.63	0.01	0.16	0.17	11.0	846	857	1.17	0.07	1.11	908

2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.01	0.85	2.77	10.5	0.04	0.04	3.46	3.50	0.04	0.88	0.92	—	4,303	4,303	0.17	0.33	15.5	4,421
Area	2.24	2.20	0.03	3.04	< 0.005	0.01	—	0.01	< 0.005	—	< 0.005	—	12.5	12.5	< 0.005	< 0.005	—	12.5
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	929	929	0.15	0.02	—	938
Water	—	—	—	—	—	—	—	—	—	—	—	31.0	59.1	90.1	3.18	0.08	—	193
Waste	—	—	—	—	—	—	—	—	—	—	—	35.4	0.00	35.4	3.54	0.00	—	124
Total	3.25	3.05	2.79	13.5	0.04	0.05	3.46	3.50	0.04	0.88	0.92	66.4	5,303	5,369	7.04	0.43	15.5	5,688
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Mobile	0.98	0.81	3.03	9.46	0.04	0.04	3.46	3.50	0.04	0.88	0.92	—	4,096	4,096	0.18	0.34	0.40	4,203
Area	1.70	1.70	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	929	929	0.15	0.02	—	938
Water	—	—	—	—	—	—	—	—	—	—	—	31.0	59.1	90.1	3.18	0.08	—	193
Waste	—	—	—	—	—	—	—	—	—	—	—	35.4	0.00	35.4	3.54	0.00	—	124
Total	2.68	2.51	3.03	9.46	0.04	0.04	3.46	3.50	0.04	0.88	0.92	66.4	5,084	5,150	7.05	0.44	0.40	5,457
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.97	0.80	2.93	9.17	0.04	0.04	3.40	3.44	0.04	0.86	0.90	—	4,113	4,113	0.18	0.34	6.71	4,225
Area	1.97	1.95	0.01	1.50	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.16	6.16	< 0.005	< 0.005	—	6.18
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	929	929	0.15	0.02	—	938
Water	—	—	—	—	—	—	—	—	—	—	—	31.0	59.1	90.1	3.18	0.08	—	193
Waste	—	—	—	—	—	—	—	—	—	—	—	35.4	0.00	35.4	3.54	0.00	—	124
Total	2.93	2.75	2.94	10.7	0.04	0.04	3.40	3.44	0.04	0.86	0.91	66.4	5,107	5,173	7.05	0.43	6.71	5,485
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.18	0.15	0.53	1.67	0.01	0.01	0.62	0.63	0.01	0.16	0.16	—	681	681	0.03	0.06	1.11	700
Area	0.36	0.36	< 0.005	0.27	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.02	1.02	< 0.005	< 0.005	—	1.02
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	154	154	0.02	< 0.005	—	155
Water	—	—	—	—	—	—	—	—	—	—	—	5.13	9.79	14.9	0.53	0.01	—	31.9
Waste	—	—	—	—	—	—	—	—	—	—	—	5.86	0.00	5.86	0.59	0.00	—	20.5
Total	0.54	0.50	0.54	1.95	0.01	0.01	0.62	0.63	0.01	0.16	0.17	11.0	846	857	1.17	0.07	1.11	908

2.6. Operations Emissions by Sector, Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Mobile	1.01	0.85	2.77	10.5	0.04	0.04	3.46	3.50	0.04	0.88	0.92	—	4,303	4,303	0.17	0.33	15.5	4,421
Area	2.24	2.20	0.03	3.04	< 0.005	0.01	—	0.01	< 0.005	—	< 0.005	—	12.5	12.5	< 0.005	< 0.005	—	12.5
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	929	929	0.15	0.02	—	938
Water	—	—	—	—	—	—	—	—	—	—	—	31.0	59.1	90.1	3.18	0.08	—	193
Waste	—	—	—	—	—	—	—	—	—	—	—	35.4	0.00	35.4	3.54	0.00	—	124
Total	3.25	3.05	2.79	13.5	0.04	0.05	3.46	3.50	0.04	0.88	0.92	66.4	5,303	5,369	7.04	0.43	15.5	5,688
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.98	0.81	3.03	9.46	0.04	0.04	3.46	3.50	0.04	0.88	0.92	—	4,096	4,096	0.18	0.34	0.40	4,203
Area	1.70	1.70	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	929	929	0.15	0.02	—	938
Water	—	—	—	—	—	—	—	—	—	—	—	31.0	59.1	90.1	3.18	0.08	—	193
Waste	—	—	—	—	—	—	—	—	—	—	—	35.4	0.00	35.4	3.54	0.00	—	124
Total	2.68	2.51	3.03	9.46	0.04	0.04	3.46	3.50	0.04	0.88	0.92	66.4	5,084	5,150	7.05	0.44	0.40	5,457
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.97	0.80	2.93	9.17	0.04	0.04	3.40	3.44	0.04	0.86	0.90	—	4,113	4,113	0.18	0.34	6.71	4,225
Area	1.97	1.95	0.01	1.50	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.16	6.16	< 0.005	< 0.005	—	6.18
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	929	929	0.15	0.02	—	938
Water	—	—	—	—	—	—	—	—	—	—	—	31.0	59.1	90.1	3.18	0.08	—	193
Waste	—	—	—	—	—	—	—	—	—	—	—	35.4	0.00	35.4	3.54	0.00	—	124
Total	2.93	2.75	2.94	10.7	0.04	0.04	3.40	3.44	0.04	0.86	0.91	66.4	5,107	5,173	7.05	0.43	6.71	5,485
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.18	0.15	0.53	1.67	0.01	0.01	0.62	0.63	0.01	0.16	0.16	—	681	681	0.03	0.06	1.11	700
Area	0.36	0.36	< 0.005	0.27	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.02	1.02	< 0.005	< 0.005	—	1.02
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	154	154	0.02	< 0.005	—	155
Water	—	—	—	—	—	—	—	—	—	—	—	5.13	9.79	14.9	0.53	0.01	—	31.9
Waste	—	—	—	—	—	—	—	—	—	—	—	5.86	0.00	5.86	0.59	0.00	—	20.5

Total	0.54	0.50	0.54	1.95	0.01	0.01	0.62	0.63	0.01	0.16	0.17	11.0	846	857	1.17	0.07	1.11	908

3. Construction Emissions Details

3.1. Demolition (2024) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.12	2.62	24.9	21.7	0.03	1.06	—	1.06	0.98	—	0.98	—	3,425	3,425	0.14	0.03	—	3,437
Demolition	—	—	—	—	—	—	0.74	0.74	—	0.11	0.11	—	—	—	—	—	—	—
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.22	0.19	1.77	1.55	< 0.005	0.08	—	0.08	0.07	—	0.07	—	244	244	0.01	< 0.005	—	245
Demolition	—	—	—	—	—	—	0.05	0.05	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.03	0.32	0.28	< 0.005	0.01	—	0.01	0.01	—	0.01	—	40.4	40.4	< 0.005	< 0.005	—	40.5

Demolition	—	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.05	0.55	0.00	0.00	0.12	0.12	0.00	0.03	0.03	—	123	123	< 0.005	0.01	0.01	125
Vendor	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	0.00
Hauling	0.07	0.02	1.22	0.47	0.01	0.02	0.25	0.26	0.02	0.07	0.08	—	948	948	0.05	0.15	0.05	994
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	8.81	8.81	< 0.005	< 0.005	0.02	8.95
Vendor	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	0.00
Hauling	0.01	< 0.005	0.09	0.03	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	67.5	67.5	< 0.005	0.01	0.06	70.8
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.46	1.46	< 0.005	< 0.005	< 0.005	1.48
Vendor	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	0.00
Hauling	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	11.2	11.2	< 0.005	< 0.005	0.01	11.7

3.2. Demolition (2024) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.12	2.62	24.9	21.7	0.03	1.06	—	1.06	0.98	—	0.98	—	3,425	3,425	0.14	0.03	—	3,437
Demolition	—	—	—	—	—	—	0.74	0.74	—	0.11	0.11	—	—	—	—	—	—	—
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.22	0.19	1.77	1.55	< 0.005	0.08	—	0.08	0.07	—	0.07	—	244	244	0.01	< 0.005	—	245
Demolition	—	—	—	—	—	—	0.05	0.05	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.03	0.32	0.28	< 0.005	0.01	—	0.01	0.01	—	0.01	—	40.4	40.4	< 0.005	< 0.005	—	40.5
Demolition	—	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.05	0.05	0.05	0.55	0.00	0.00	0.12	0.12	0.00	0.03	0.03	—	123	123	< 0.005	0.01	0.01	125
Vendor	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	0.00
Hauling	0.07	0.02	1.22	0.47	0.01	0.02	0.25	0.26	0.02	0.07	0.08	—	948	948	0.05	0.15	0.05	994
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	8.81	8.81	< 0.005	< 0.005	0.02	8.95
Vendor	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	0.00
Hauling	0.01	< 0.005	0.09	0.03	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	67.5	67.5	< 0.005	0.01	0.06	70.8
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.46	1.46	< 0.005	< 0.005	< 0.005	1.48
Vendor	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	0.00
Hauling	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	11.2	11.2	< 0.005	< 0.005	0.01	11.7

3.3. Site Preparation (2024) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	4.34	3.65	36.0	32.9	0.05	1.60	—	1.60	1.47	—	1.47	—	5,296	5,296	0.21	0.04	—	5,314
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.31	0.26	2.56	2.35	< 0.005	0.11	—	0.11	0.10	—	0.10	—	377	377	0.02	< 0.005	—	379
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.05	0.47	0.43	< 0.005	0.02	—	0.02	0.02	—	0.02	—	62.5	62.5	< 0.005	< 0.005	—	62.7
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.06	0.64	0.00	0.00	0.14	0.14	0.00	0.03	0.03	—	143	143	< 0.005	0.01	0.02	145
Vendor	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	0.00
Hauling	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	10.3	10.3	< 0.005	< 0.005	0.02	10.4
Vendor	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	0.00
Hauling	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.70	1.70	< 0.005	< 0.005	< 0.005	1.73
Vendor	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	0.00
Hauling	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	0.00

3.4. Site Preparation (2024) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	4.34	3.65	36.0	32.9	0.05	1.60	—	1.60	1.47	—	1.47	—	5,296	5,296	0.21	0.04	—	5,314
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.31	0.26	2.56	2.35	< 0.005	0.11	—	0.11	0.10	—	0.10	—	377	377	0.02	< 0.005	—	379
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.05	0.47	0.43	< 0.005	0.02	—	0.02	0.02	—	0.02	—	62.5	62.5	< 0.005	< 0.005	—	62.7
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.06	0.64	0.00	0.00	0.14	0.14	0.00	0.03	0.03	—	143	143	< 0.005	0.01	0.02	145
Vendor	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	0.00

Hauling	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	10.3	10.3	< 0.005	< 0.005	0.02	10.4
Vendor	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	0.00
Hauling	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.70	1.70	< 0.005	< 0.005	< 0.005	1.73
Vendor	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	0.00
Hauling	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	0.00

3.5. Grading (2024) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.26	1.90	18.2	18.8	0.03	0.84	—	0.84	0.77	—	0.77	—	2,958	2,958	0.12	0.02	—	2,969
Dust From Material Movement	—	—	—	—	—	—	2.76	2.76	—	1.34	1.34	—	—	—	—	—	—	—
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.01	< 0.005	0.04	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.95	6.95	< 0.005	< 0.005	—	6.97
Dust From Material Movement	—	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.15	1.15	< 0.005	< 0.005	—	1.15
Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.05	0.55	0.00	0.00	0.12	0.12	0.00	0.03	0.03	—	123	123	< 0.005	0.01	0.01	125
Vendor	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	0.00
Hauling	0.02	0.01	0.40	0.15	< 0.005	0.01	0.08	0.09	0.01	0.02	0.03	—	309	309	0.02	0.05	0.02	324
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.29	0.29	< 0.005	< 0.005	< 0.005	0.29
Vendor	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	0.00
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.72	0.72	< 0.005	< 0.005	< 0.005	0.76
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.05	0.05	< 0.005	< 0.005	< 0.005	0.05
Vendor	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	0.00
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.12	0.12	< 0.005	< 0.005	< 0.005	0.13

3.6. Grading (2024) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.26	1.90	18.2	18.8	0.03	0.84	—	0.84	0.77	—	0.77	—	2,958	2,958	0.12	0.02	—	2,969
Dust From Material Movement	—	—	—	—	—	—	2.76	2.76	—	1.34	1.34	—	—	—	—	—	—	—
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	< 0.005	0.04	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.95	6.95	< 0.005	< 0.005	—	6.97
Dust From Material Movement	—	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.15	1.15	< 0.005	< 0.005	—	1.15
Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.05	0.55	0.00	0.00	0.12	0.12	0.00	0.03	0.03	—	123	123	< 0.005	0.01	0.01	125
Vendor	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	0.00
Hauling	0.02	0.01	0.40	0.15	< 0.005	0.01	0.08	0.09	0.01	0.02	0.03	—	309	309	0.02	0.05	0.02	324
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.29	0.29	< 0.005	< 0.005	< 0.005	0.29
Vendor	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	0.00
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.72	0.72	< 0.005	< 0.005	< 0.005	0.76
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.05	0.05	< 0.005	< 0.005	< 0.005	0.05
Vendor	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	0.00
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.12	0.12	< 0.005	< 0.005	< 0.005	0.13

3.7. Grading (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.07	1.74	16.3	17.9	0.03	0.72	—	0.72	0.66	—	0.66	—	2,959	2,959	0.12	0.02	—	2,970
Dust From Material Movement	—	—	—	—	—	—	2.76	2.76	—	1.34	1.34	—	—	—	—	—	—	—
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.29	0.25	2.29	2.52	< 0.005	0.10	—	0.10	0.09	—	0.09	—	417	417	0.02	< 0.005	—	418
Dust From Material Movement	—	—	—	—	—	—	0.39	0.39	—	0.19	0.19	—	—	—	—	—	—	—
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.04	0.42	0.46	< 0.005	0.02	—	0.02	0.02	—	0.02	—	69.0	69.0	< 0.005	< 0.005	—	69.3
Dust From Material Movement	—	—	—	—	—	—	0.07	0.07	—	0.03	0.03	—	—	—	—	—	—	—
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.05	0.51	0.00	0.00	0.12	0.12	0.00	0.03	0.03	—	120	120	< 0.005	0.01	0.01	122
Vendor	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	0.00
Hauling	0.02	0.01	0.39	0.15	< 0.005	0.01	0.08	0.09	0.01	0.02	0.03	—	303	303	0.02	0.05	0.02	318
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.07	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	17.1	17.1	< 0.005	< 0.005	0.03	17.4
Vendor	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	0.00
Hauling	< 0.005	< 0.005	0.05	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	42.7	42.7	< 0.005	0.01	0.04	44.9
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.83	2.83	< 0.005	< 0.005	0.01	2.87
Vendor	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	0.00
Hauling	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	7.07	7.07	< 0.005	< 0.005	0.01	7.43

3.8. Grading (2025) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.07	1.74	16.3	17.9	0.03	0.72	—	0.72	0.66	—	0.66	—	2,959	2,959	0.12	0.02	—	2,970

Dust From Material Movement	—	—	—	—	—	—	2.76	2.76	—	1.34	1.34	—	—	—	—	—	—	—
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.29	0.25	2.29	2.52	< 0.005	0.10	—	0.10	0.09	—	0.09	—	417	417	0.02	< 0.005	—	418
Dust From Material Movement	—	—	—	—	—	—	0.39	0.39	—	0.19	0.19	—	—	—	—	—	—	—
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.04	0.42	0.46	< 0.005	0.02	—	0.02	0.02	—	0.02	—	69.0	69.0	< 0.005	< 0.005	—	69.3
Dust From Material Movement	—	—	—	—	—	—	0.07	0.07	—	0.03	0.03	—	—	—	—	—	—	—
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.05	0.51	0.00	0.00	0.12	0.12	0.00	0.03	0.03	—	120	120	< 0.005	0.01	0.01	122
Vendor	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	0.00
Hauling	0.02	0.01	0.39	0.15	< 0.005	0.01	0.08	0.09	0.01	0.02	0.03	—	303	303	0.02	0.05	0.02	318

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.07	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	17.1	17.1	< 0.005	< 0.005	0.03	17.4
Vendor	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	0.00
Hauling	< 0.005	< 0.005	0.05	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	42.7	42.7	< 0.005	0.01	0.04	44.9
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.83	2.83	< 0.005	< 0.005	0.01	2.87
Vendor	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	0.00
Hauling	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	7.07	7.07	< 0.005	< 0.005	0.01	7.43

3.9. Building Construction (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.35	1.13	10.4	13.0	0.02	0.43	—	0.43	0.40	—	0.40	—	2,398	2,398	0.10	0.02	—	2,406
Onsite truck	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.35	1.13	10.4	13.0	0.02	0.43	—	0.43	0.40	—	0.40	—	2,398	2,398	0.10	0.02	—	2,406
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.57	0.48	4.44	5.54	0.01	0.18	—	0.18	0.17	—	0.17	—	1,018	1,018	0.04	0.01	—	1,022
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10	0.09	0.81	1.01	< 0.005	0.03	—	0.03	0.03	—	0.03	—	169	169	0.01	< 0.005	—	169
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10	0.10	0.06	1.13	0.00	0.00	0.24	0.24	0.00	0.06	0.06	—	254	254	< 0.005	0.01	1.01	258
Vendor	0.02	0.01	0.37	0.16	< 0.005	< 0.005	0.08	0.08	< 0.005	0.02	0.03	—	305	305	0.01	0.04	0.82	319
Hauling	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10	0.10	0.09	1.00	0.00	0.00	0.24	0.24	0.00	0.06	0.06	—	236	236	0.01	0.01	0.03	239
Vendor	0.02	0.01	0.39	0.17	< 0.005	< 0.005	0.08	0.08	< 0.005	0.02	0.03	—	305	305	0.01	0.04	0.02	319
Hauling	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.03	0.41	0.00	0.00	0.10	0.10	0.00	0.02	0.02	—	101	101	< 0.005	< 0.005	0.19	102
Vendor	0.01	< 0.005	0.16	0.07	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01	—	130	130	0.01	0.02	0.15	135
Hauling	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.07	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	16.7	16.7	< 0.005	< 0.005	0.03	16.9
Vendor	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	21.5	21.5	< 0.005	< 0.005	0.02	22.4
Hauling	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	0.00

3.10. Building Construction (2025) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.35	1.13	10.4	13.0	0.02	0.43	—	0.43	0.40	—	0.40	—	2,398	2,398	0.10	0.02	—	2,406
Onsite truck	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.35	1.13	10.4	13.0	0.02	0.43	—	0.43	0.40	—	0.40	—	2,398	2,398	0.10	0.02	—	2,406
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.57	0.48	4.44	5.54	0.01	0.18	—	0.18	0.17	—	0.17	—	1,018	1,018	0.04	0.01	—	1,022
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10	0.09	0.81	1.01	< 0.005	0.03	—	0.03	0.03	—	0.03	—	169	169	0.01	< 0.005	—	169
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10	0.10	0.06	1.13	0.00	0.00	0.24	0.24	0.00	0.06	0.06	—	254	254	< 0.005	0.01	1.01	258
Vendor	0.02	0.01	0.37	0.16	< 0.005	< 0.005	0.08	0.08	< 0.005	0.02	0.03	—	305	305	0.01	0.04	0.82	319
Hauling	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10	0.10	0.09	1.00	0.00	0.00	0.24	0.24	0.00	0.06	0.06	—	236	236	0.01	0.01	0.03	239
Vendor	0.02	0.01	0.39	0.17	< 0.005	< 0.005	0.08	0.08	< 0.005	0.02	0.03	—	305	305	0.01	0.04	0.02	319
Hauling	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.03	0.41	0.00	0.00	0.10	0.10	0.00	0.02	0.02	—	101	101	< 0.005	< 0.005	0.19	102
Vendor	0.01	< 0.005	0.16	0.07	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01	—	130	130	0.01	0.02	0.15	135
Hauling	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.07	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	16.7	16.7	< 0.005	< 0.005	0.03	16.9
Vendor	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	21.5	21.5	< 0.005	< 0.005	0.02	22.4
Hauling	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	0.00

3.11. Paving (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.95	0.80	7.45	9.98	0.01	0.35	—	0.35	0.32	—	0.32	—	1,511	1,511	0.06	0.01	—	1,517
Paving	0.10	0.10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.95	0.80	7.45	9.98	0.01	0.35	—	0.35	0.32	—	0.32	—	1,511	1,511	0.06	0.01	—	1,517
Paving	0.10	0.10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.06	0.53	0.71	< 0.005	0.02	—	0.02	0.02	—	0.02	—	108	108	< 0.005	< 0.005	—	108
Paving	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.10	0.13	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	17.8	17.8	< 0.005	< 0.005	—	17.9
Paving	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.03	0.58	0.00	0.00	0.12	0.12	0.00	0.03	0.03	—	130	130	< 0.005	< 0.005	0.52	132
Vendor	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	0.00

Hauling	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.05	0.51	0.00	0.00	0.12	0.12	0.00	0.03	0.03	—	120	120	< 0.005	0.01	0.01	122
Vendor	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	0.00
Hauling	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	8.64	8.64	< 0.005	< 0.005	0.02	8.77
Vendor	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	0.00
Hauling	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.43	1.43	< 0.005	< 0.005	< 0.005	1.45
Vendor	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	0.00
Hauling	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	0.00

3.12. Paving (2025) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.95	0.80	7.45	9.98	0.01	0.35	—	0.35	0.32	—	0.32	—	1,511	1,511	0.06	0.01	—	1,517
Paving	0.10	0.10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	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	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.95	0.80	7.45	9.98	0.01	0.35	—	0.35	0.32	—	0.32	—	1,511	1,511	0.06	0.01	—	1,517
Paving	0.10	0.10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.06	0.53	0.71	< 0.005	0.02	—	0.02	0.02	—	0.02	—	108	108	< 0.005	< 0.005	—	108
Paving	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.10	0.13	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	17.8	17.8	< 0.005	< 0.005	—	17.9
Paving	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.03	0.58	0.00	0.00	0.12	0.12	0.00	0.03	0.03	—	130	130	< 0.005	< 0.005	0.52	132
Vendor	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	0.00
Hauling	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.05	0.51	0.00	0.00	0.12	0.12	0.00	0.03	0.03	—	120	120	< 0.005	0.01	0.01	122

Vendor	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	0.00
Hauling	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	8.64	8.64	< 0.005	< 0.005	0.02	8.77
Vendor	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	0.00
Hauling	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.43	1.43	< 0.005	< 0.005	< 0.005	1.45
Vendor	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	0.00
Hauling	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	0.00

3.13. Architectural Coating (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.15	0.13	0.88	1.14	< 0.005	0.03	—	0.03	0.03	—	0.03	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	32.2	32.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.01	0.01	0.06	0.07	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	8.41	8.41	< 0.005	< 0.005	—	8.44
Architectural Coatings	2.03	2.03	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.39	1.39	< 0.005	< 0.005	—	1.40
Architectural Coatings	0.37	0.37	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.20	0.00	0.00	0.05	0.05	0.00	0.01	0.01	—	47.1	47.1	< 0.005	< 0.005	0.01	47.8
Vendor	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	0.00
Hauling	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.99	2.99	< 0.005	< 0.005	0.01	3.04
Vendor	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	0.00
Hauling	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.50	0.50	< 0.005	< 0.005	< 0.005	0.50

Vendor	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	0.00
Hauling	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	0.00

3.14. Architectural Coating (2025) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.15	0.13	0.88	1.14	< 0.005	0.03	—	0.03	0.03	—	0.03	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	14.3	14.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.06	0.07	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	8.41	8.41	< 0.005	< 0.005	—	8.44
Architectural Coatings	0.90	0.90	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.39	1.39	< 0.005	< 0.005	—	1.40

Architect Coatings	0.16	0.16	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.20	0.00	0.00	0.05	0.05	0.00	0.01	0.01	—	47.1	47.1	< 0.005	< 0.005	0.01	47.8
Vendor	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	0.00
Hauling	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.99	2.99	< 0.005	< 0.005	0.01	3.04
Vendor	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	0.00
Hauling	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.50	0.50	< 0.005	< 0.005	< 0.005	0.50
Vendor	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	0.00
Hauling	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	0.00

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	1.01	0.85	2.77	10.5	0.04	0.04	3.46	3.50	0.04	0.88	0.92	—	4,303	4,303	0.17	0.33	15.5	4,421
Parking Lot	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	0.00
Total	1.01	0.85	2.77	10.5	0.04	0.04	3.46	3.50	0.04	0.88	0.92	—	4,303	4,303	0.17	0.33	15.5	4,421
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.98	0.81	3.03	9.46	0.04	0.04	3.46	3.50	0.04	0.88	0.92	—	4,096	4,096	0.18	0.34	0.40	4,203
Parking Lot	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	0.00
Total	0.98	0.81	3.03	9.46	0.04	0.04	3.46	3.50	0.04	0.88	0.92	—	4,096	4,096	0.18	0.34	0.40	4,203
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.18	0.15	0.53	1.67	0.01	0.01	0.62	0.63	0.01	0.16	0.16	—	681	681	0.03	0.06	1.11	700
Parking Lot	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	0.00
Total	0.18	0.15	0.53	1.67	0.01	0.01	0.62	0.63	0.01	0.16	0.16	—	681	681	0.03	0.06	1.11	700

4.1.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	1.01	0.85	2.77	10.5	0.04	0.04	3.46	3.50	0.04	0.88	0.92	—	4,303	4,303	0.17	0.33	15.5	4,421
Parking Lot	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	0.00
Total	1.01	0.85	2.77	10.5	0.04	0.04	3.46	3.50	0.04	0.88	0.92	—	4,303	4,303	0.17	0.33	15.5	4,421
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.98	0.81	3.03	9.46	0.04	0.04	3.46	3.50	0.04	0.88	0.92	—	4,096	4,096	0.18	0.34	0.40	4,203
Parking Lot	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	0.00
Total	0.98	0.81	3.03	9.46	0.04	0.04	3.46	3.50	0.04	0.88	0.92	—	4,096	4,096	0.18	0.34	0.40	4,203
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.18	0.15	0.53	1.67	0.01	0.01	0.62	0.63	0.01	0.16	0.16	—	681	681	0.03	0.06	1.11	700
Parking Lot	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	0.00

Total	0.18	0.15	0.53	1.67	0.01	0.01	0.62	0.63	0.01	0.16	0.16	—	681	681	0.03	0.06	1.11	700

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	908	908	0.15	0.02	—	917
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	20.5	20.5	< 0.005	< 0.005	—	20.7
Total	—	—	—	—	—	—	—	—	—	—	—	—	929	929	0.15	0.02	—	938
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	908	908	0.15	0.02	—	917
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	20.5	20.5	< 0.005	< 0.005	—	20.7
Total	—	—	—	—	—	—	—	—	—	—	—	—	929	929	0.15	0.02	—	938
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrigerated Warehouse-No	—	—	—	—	—	—	—	—	—	—	—	—	150	150	0.02	< 0.005	—	152
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	3.40	3.40	< 0.005	< 0.005	—	3.43
Total	—	—	—	—	—	—	—	—	—	—	—	—	154	154	0.02	< 0.005	—	155

4.2.2. Electricity Emissions By Land Use - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	908	908	0.15	0.02	—	917
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	20.5	20.5	< 0.005	< 0.005	—	20.7
Total	—	—	—	—	—	—	—	—	—	—	—	—	929	929	0.15	0.02	—	938
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	908	908	0.15	0.02	—	917
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	20.5	20.5	< 0.005	< 0.005	—	20.7
Total	—	—	—	—	—	—	—	—	—	—	—	—	929	929	0.15	0.02	—	938

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	150	150	0.02	< 0.005	—	152
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	3.40	3.40	< 0.005	< 0.005	—	3.43
Total	—	—	—	—	—	—	—	—	—	—	—	—	154	154	0.02	< 0.005	—	155

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	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
Parking Lot	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
Total	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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	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
Parking Lot	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

Total	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	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
Parking Lot	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
Total	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

4.2.4. Natural Gas Emissions By Land Use - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	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
Parking Lot	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
Total	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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	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

Parking Lot	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
Total	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	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
Parking Lot	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
Total	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

4.3. Area Emissions by Source

4.3.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	1.50	1.50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.20	0.20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.54	0.50	0.03	3.04	< 0.005	0.01	—	0.01	< 0.005	—	< 0.005	—	12.5	12.5	< 0.005	< 0.005	—	12.5
Total	2.24	2.20	0.03	3.04	< 0.005	0.01	—	0.01	< 0.005	—	< 0.005	—	12.5	12.5	< 0.005	< 0.005	—	12.5

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	1.50	1.50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.20	0.20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	1.70	1.70	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.27	0.27	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.04	0.04	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.05	0.04	< 0.005	0.27	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.02	1.02	< 0.005	< 0.005	—	1.02
Total	0.36	0.36	< 0.005	0.27	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.02	1.02	< 0.005	< 0.005	—	1.02

4.3.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	1.50	1.50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Architectural Coatings	0.20	0.20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.54	0.50	0.03	3.04	< 0.005	0.01	—	0.01	< 0.005	—	< 0.005	—	12.5	12.5	< 0.005	< 0.005	—	12.5
Total	2.24	2.20	0.03	3.04	< 0.005	0.01	—	0.01	< 0.005	—	< 0.005	—	12.5	12.5	< 0.005	< 0.005	—	12.5
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	1.50	1.50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.20	0.20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	1.70	1.70	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.27	0.27	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.04	0.04	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.05	0.04	< 0.005	0.27	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.02	1.02	< 0.005	< 0.005	—	1.02
Total	0.36	0.36	< 0.005	0.27	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.02	1.02	< 0.005	< 0.005	—	1.02

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	31.0	59.1	90.1	3.18	0.08	—	193
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	31.0	59.1	90.1	3.18	0.08	—	193
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	31.0	59.1	90.1	3.18	0.08	—	193
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	31.0	59.1	90.1	3.18	0.08	—	193
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	5.13	9.79	14.9	0.53	0.01	—	31.9
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	5.13	9.79	14.9	0.53	0.01	—	31.9

4.4.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	31.0	59.1	90.1	3.18	0.08	—	193
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	31.0	59.1	90.1	3.18	0.08	—	193
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	31.0	59.1	90.1	3.18	0.08	—	193
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	31.0	59.1	90.1	3.18	0.08	—	193
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	5.13	9.79	14.9	0.53	0.01	—	31.9
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Total	—	—	—	—	—	—	—	—	—	—	—	5.13	9.79	14.9	0.53	0.01	—	31.9

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	35.4	0.00	35.4	3.54	0.00	—	124
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	35.4	0.00	35.4	3.54	0.00	—	124
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	35.4	0.00	35.4	3.54	0.00	—	124
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	35.4	0.00	35.4	3.54	0.00	—	124
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrigerated Warehouse-No	—	—	—	—	—	—	—	—	—	—	—	5.86	0.00	5.86	0.59	0.00	—	20.5
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	5.86	0.00	5.86	0.59	0.00	—	20.5

4.5.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	35.4	0.00	35.4	3.54	0.00	—	124
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	35.4	0.00	35.4	3.54	0.00	—	124
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	35.4	0.00	35.4	3.54	0.00	—	124
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	35.4	0.00	35.4	3.54	0.00	—	124

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	5.86	0.00	5.86	0.59	0.00	—	20.5
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	5.86	0.00	5.86	0.59	0.00	—	20.5

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.6.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.7.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipme Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.8.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.9.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Sequest	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Remove	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Demolition	Demolition	11/1/2024	12/1/2024	6.00	26.0	—
Site Preparation	Site Preparation	12/1/2024	12/31/2024	6.00	26.0	—
Grading	Grading	12/31/2024	3/1/2025	6.00	53.0	—
Building Construction	Building Construction	3/11/2025	9/7/2025	6.00	155	—
Paving	Paving	9/7/2025	10/7/2025	6.00	26.0	—
Architectural Coating	Architectural Coating	10/7/2025	11/1/2025	6.00	23.0	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Concrete/Industrial Saws	Diesel	Average	1.00	8.00	33.0	0.73
Demolition	Excavators	Diesel	Average	3.00	8.00	36.0	0.38
Demolition	Rubber Tired Dozers	Diesel	Average	2.00	8.00	367	0.40
Site Preparation	Rubber Tired Dozers	Diesel	Average	3.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Average	4.00	8.00	84.0	0.37
Grading	Excavators	Diesel	Average	1.00	8.00	36.0	0.38

Grading	Graders	Diesel	Average	1.00	8.00	148	0.41
Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Grading	Tractors/Loaders/Backhoes	Diesel	Average	3.00	8.00	84.0	0.37
Building Construction	Cranes	Diesel	Average	1.00	7.00	367	0.29
Building Construction	Forklifts	Diesel	Average	3.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	3.00	7.00	84.0	0.37
Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Paving	Pavers	Diesel	Average	2.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Average	2.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Average	1.00	6.00	37.0	0.48

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Concrete/Industrial Saws	Diesel	Average	1.00	8.00	33.0	0.73
Demolition	Excavators	Diesel	Average	3.00	8.00	36.0	0.38
Demolition	Rubber Tired Dozers	Diesel	Average	2.00	8.00	367	0.40
Site Preparation	Rubber Tired Dozers	Diesel	Average	3.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Average	4.00	8.00	84.0	0.37
Grading	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
Grading	Graders	Diesel	Average	1.00	8.00	148	0.41
Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Grading	Tractors/Loaders/Backhoes	Diesel	Average	3.00	8.00	84.0	0.37

Building Construction	Cranes	Diesel	Average	1.00	7.00	367	0.29
Building Construction	Forklifts	Diesel	Average	3.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	3.00	7.00	84.0	0.37
Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Paving	Pavers	Diesel	Average	2.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Average	2.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Average	1.00	6.00	37.0	0.48

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	15.0	11.7	LDA,LDT1,LDT2
Demolition	Vendor	—	8.40	HHDT,MHDT
Demolition	Hauling	13.3	20.0	HHDT
Demolition	Onsite truck	—	—	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	17.5	11.7	LDA,LDT1,LDT2
Site Preparation	Vendor	—	8.40	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	15.0	11.7	LDA,LDT1,LDT2
Grading	Vendor	—	8.40	HHDT,MHDT

Grading	Hauling	4.32	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	29.3	11.7	LDA,LDT1,LDT2
Building Construction	Vendor	11.5	8.40	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	11.7	LDA,LDT1,LDT2
Paving	Vendor	—	8.40	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	5.87	11.7	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	8.40	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	15.0	11.7	LDA,LDT1,LDT2
Demolition	Vendor	—	8.40	HHDT,MHDT
Demolition	Hauling	13.3	20.0	HHDT
Demolition	Onsite truck	—	—	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	17.5	11.7	LDA,LDT1,LDT2

Site Preparation	Vendor	—	8.40	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	15.0	11.7	LDA,LDT1,LDT2
Grading	Vendor	—	8.40	HHDT,MHDT
Grading	Hauling	4.32	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	29.3	11.7	LDA,LDT1,LDT2
Building Construction	Vendor	11.5	8.40	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	11.7	LDA,LDT1,LDT2
Paving	Vendor	—	8.40	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	5.87	11.7	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	8.40	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
Architectural Coating	0.00	0.00	104,808	34,936	2,517

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (Cubic Yards)	Material Exported (Cubic Yards)	Acres Graded (acres)	Material Demolished (Building Square Footage)	Acres Paved (acres)
Demolition	0.00	0.00	0.00	29,931	—
Grading	1,830	0.00	53.0	0.00	—
Paving	0.00	0.00	0.00	0.00	0.96

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	2	61%	61%
Water Demolished Area	2	36%	36%

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Unrefrigerated Warehouse-No Rail	0.00	0%
Parking Lot	0.96	100%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2024	0.00	204	0.03	< 0.005
2025	0.00	204	0.03	< 0.005

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Unrefrigerated Warehouse-No Rail	430	430	430	156,950	4,824	4,824	4,824	1,760,783
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Unrefrigerated Warehouse-No Rail	430	430	430	156,950	4,824	4,824	4,824	1,760,783
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.1.2. Mitigated

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)

0	0.00	104,808	34,936	2,517

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	180

5.10.4. Landscape Equipment - Mitigated

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	180

5.11. Operational Energy Consumption

5.11.1. Unmitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Unrefrigerated Warehouse-No Rail	1,624,762	204	0.0330	0.0040	0.00
Parking Lot	36,747	204	0.0330	0.0040	0.00

5.11.2. Mitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Unrefrigerated Warehouse-No Rail	1,624,762	204	0.0330	0.0040	0.00
Parking Lot	36,747	204	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Unrefrigerated Warehouse-No Rail	16,157,900	240,701
Parking Lot	0.00	0.00

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Unrefrigerated Warehouse-No Rail	16,157,900	240,701
Parking Lot	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Unrefrigerated Warehouse-No Rail	65.7	—
Parking Lot	0.00	—

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Unrefrigerated Warehouse-No Rail	65.7	—
Parking Lot	0.00	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced

5.14.2. Mitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

5.15.2. Mitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor

5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)

5.17. User Defined

Equipment Type	Fuel Type

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

5.18.2.2. Mitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	14.2	annual days of extreme heat
Extreme Precipitation	3.25	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	0.00	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters
Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	1	0	0	N/A
Sea Level Rise	1	0	0	N/A
Wildfire	1	0	0	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A

Air Quality Degradation	0	0	0	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	1	1	1	2
Sea Level Rise	1	1	1	2
Wildfire	1	1	1	2
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	1	1	1	2

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—

AQ-Ozone	13.7
AQ-PM	24.0
AQ-DPM	92.7
Drinking Water	10.2
Lead Risk Housing	5.14
Pesticides	5.17
Toxic Releases	50.8
Traffic	87.3
Effect Indicators	—
CleanUp Sites	99.9
Groundwater	95.4
Haz Waste Facilities/Generators	99.5
Impaired Water Bodies	33.2
Solid Waste	93.0
Sensitive Population	—
Asthma	25.4
Cardio-vascular	40.4
Low Birth Weights	70.6
Socioeconomic Factor Indicators	—
Education	20.9
Housing	2.79
Linguistic	53.9
Poverty	3.54
Unemployment	40.6

7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	98.24201206
Employed	82.72808931
Median HI	97.34377005
Education	—
Bachelor's or higher	97.47209034
High school enrollment	100
Preschool enrollment	67.21416656
Transportation	—
Auto Access	76.73553189
Active commuting	55.34453997
Social	—
2-parent households	98.75529321
Voting	51.93122033
Neighborhood	—
Alcohol availability	69.39561145
Park access	32.96548184
Retail density	79.5970743
Supermarket access	40.89567561
Tree canopy	51.64891569
Housing	—
Homeownership	77.96740665
Housing habitability	96.39419992
Low-inc homeowner severe housing cost burden	94.99550879
Low-inc renter severe housing cost burden	93.13486462
Uncrowded housing	63.4800462

Health Outcomes	—
Insured adults	91.18439625
Arthritis	98.6
Asthma ER Admissions	74.4
High Blood Pressure	98.4
Cancer (excluding skin)	94.8
Asthma	99.9
Coronary Heart Disease	99.1
Chronic Obstructive Pulmonary Disease	99.7
Diagnosed Diabetes	96.7
Life Expectancy at Birth	78.5
Cognitively Disabled	66.4
Physically Disabled	87.9
Heart Attack ER Admissions	65.2
Mental Health Not Good	99.6
Chronic Kidney Disease	98.6
Obesity	99.9
Pedestrian Injuries	90.9
Physical Health Not Good	99.5
Stroke	99.1
Health Risk Behaviors	—
Binge Drinking	93.5
Current Smoker	98.5
No Leisure Time for Physical Activity	88.3
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	25.4

Children	17.1
Elderly	88.2
English Speaking	34.4
Foreign-born	97.3
Outdoor Workers	98.2
Climate Change Adaptive Capacity	—
Impervious Surface Cover	21.5
Traffic Density	83.1
Traffic Access	60.6
Other Indices	—
Hardship	8.8
Other Decision Support	—
2016 Voting	55.3

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	45.0
Healthy Places Index Score for Project Location (b)	97.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.
b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Land Use	Project specific information for acreage size.
Construction: Construction Phases	Project specific information.
Construction: Dust From Material Movement	Project specific information.
Operations: Vehicle Data	Trip rate adjusted based on transportation analysis.
Operations: Fleet Mix	90 percent of trips are associated with passenger vehicles and 10 percent associated with truck trips, as per the Project's TDM.
Operations: Energy Use	No natural gas will be used for the Project.

A-2 AERMOD Input and Output

*	AERMOD	(23132	):	C:\43990	Fremont	Blvd\4399	Fremont	Blvd.isc	2/8/2024				
*	AERMET	(	18081):	17:03:50									
*	MODELIN(	OPTIONS	USED:	RegDFAUL	CONC	ELEV	FLGPOL	URBAN	ADJ_U*				
*	PLOT	FILE	OF	ANNUAL	VALUES	AVERAGEI	ACROSS	5	YEARS	FOR	SOURCE	GROUP:	CNST
*	FOR	A	TOTAL	OF	1147	RECEPTORS.							
*	FORMAT:	(3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)											
*	X	Y	AVERAGE	CONC	ZELEV	ZHILL	ZFLAG	AVE	GRP	NUM	YRS	NET	ID
*	________	________	________	______	______	______	______	________	________	________			
	592825.4	4151648	0.48968	8.06	810.56	1.5	ANNUAL	CNST	5				
	592845.4	4151648	0.53101	7.95	810.56	1.5	ANNUAL	CNST	5				
	592865.4	4151648	0.58	8	810.56	1.5	ANNUAL	CNST	5				
	592885.4	4151648	0.64289	7.64	810.56	1.5	ANNUAL	CNST	5				
	592905.4	4151648	0.71884	7.61	810.56	1.5	ANNUAL	CNST	5				
	592925.4	4151648	0.81491	7.35	810.56	1.5	ANNUAL	CNST	5				
	592945.4	4151648	0.92976	7.08	810.56	1.5	ANNUAL	CNST	5				
	592965.4	4151648	1.06568	7.2	810.56	1.5	ANNUAL	CNST	5				
	592985.4	4151648	1.21947	7.53	810.56	1.5	ANNUAL	CNST	5				
	592765.4	4151668	0.43466	8.34	810.56	1.5	ANNUAL	CNST	5				
	592785.4	4151668	0.46427	8.35	810.56	1.5	ANNUAL	CNST	5				
	592805.4	4151668	0.49831	8.38	810.56	1.5	ANNUAL	CNST	5				
	592825.4	4151668	0.53979	8.02	810.56	1.5	ANNUAL	CNST	5				
	592845.4	4151668	0.58792	7.88	810.56	1.5	ANNUAL	CNST	5				
	592865.4	4151668	0.64542	7.92	810.56	1.5	ANNUAL	CNST	5				
	592885.4	4151668	0.71705	7.95	810.56	1.5	ANNUAL	CNST	5				
	592905.4	4151668	0.80573	8.13	810.56	1.5	ANNUAL	CNST	5				
	592925.4	4151668	0.91799	8.13	810.56	1.5	ANNUAL	CNST	5				
	592945.4	4151668	1.05738	7.95	810.56	1.5	ANNUAL	CNST	5				
	592965.4	4151668	1.22244	7.86	810.56	1.5	ANNUAL	CNST	5				
	592985.4	4151668	1.41005	7.97	810.56	1.5	ANNUAL	CNST	5				
	593005.4	4151668	1.62847	7.64	810.56	1.5	ANNUAL	CNST	5				
	593025.4	4151668	1.86833	7.32	810.56	1.5	ANNUAL	CNST	5				
	593045.4	4151668	2.1156	7.2	810.56	1.5	ANNUAL	CNST	5				
	592725.4	4151688	0.42601	7.62	810.56	1.5	ANNUAL	CNST	5				
	592745.4	4151688	0.44935	8.11	810.56	1.5	ANNUAL	CNST	5				
	592765.4	4151688	0.47738	8.39	810.56	1.5	ANNUAL	CNST	5				
	592785.4	4151688	0.51112	8.39	810.56	1.5	ANNUAL	CNST	5				
	592805.4	4151688	0.55046	8.36	810.56	1.5	ANNUAL	CNST	5				
	592825.4	4151688	0.59852	8	810.56	1.5	ANNUAL	CNST	5				
	592845.4	4151688	0.65526	7.79	810.56	1.5	ANNUAL	CNST	5				
	592865.4	4151688	0.72382	7.76	810.56	1.5	ANNUAL	CNST	5				
	592885.4	4151688	0.80812	7.96	810.56	1.5	ANNUAL	CNST	5				
	592905.4	4151688	0.91546	8.12	810.56	1.5	ANNUAL	CNST	5				
	592925.4	4151688	1.05241	8.11	810.56	1.5	ANNUAL	CNST	5				
	592945.4	4151688	1.22192	8.03	810.56	1.5	ANNUAL	CNST	5				
	592965.4	4151688	1.42148	8.13	810.56	1.5	ANNUAL	CNST	5				
	592985.4	4151688	1.65061	8.29	810.56	1.5	ANNUAL	CNST	5				
	593005.4	4151688	1.911	8.25	810.56	1.5	ANNUAL	CNST	5				
	593025.4	4151688	2.19642	8.12	810.56	1.5	ANNUAL	CNST	5				
	593045.4	4151688	2.481	8.55	810.56	1.5	ANNUAL	CNST	5				
	593065.4	4151688	2.78096	8.68	810.56	1.5	ANNUAL	CNST	5				
	593085.4	4151688	3.10199	8.21	810.56	1.5	ANNUAL	CNST	5				
	592705.4	4151708	0.44586	5.52	810.56	1.5	ANNUAL	CNST	5				
	592725.4	4151708	0.46901	7.74	810.56	1.5	ANNUAL	CNST	5				
	592745.4	4151708	0.49526	8.23	810.56	1.5	ANNUAL	CNST	5				
	592765.4	4151708	0.52821	8.27	810.56	1.5	ANNUAL	CNST	5				
	592785.4	4151708	0.56704	8.26	810.56	1.5	ANNUAL	CNST	5				
	592805.4	4151708	0.61268	8.22	810.56	1.5	ANNUAL	CNST	5				
	592825.4	4151708	0.66828	7.95	810.56	1.5	ANNUAL	CNST	5				
	592845.4	4151708	0.73501	7.77	810.56	1.5	ANNUAL	CNST	5				
	592865.4	4151708	0.81705	7.72	810.56	1.5	ANNUAL	CNST	5				
	592885.4	4151708	0.91921	7.9	810.56	1.5	ANNUAL	CNST	5				
	592905.4	4151708	1.05087	8.04	810.56	1.5	ANNUAL	CNST	5				
	592925.4	4151708	1.21988	8.05	810.56	1.5	ANNUAL	CNST	5				

592945.4	4151708	1.43115	7.95	810.56	1.5	ANNUAL	CNST	5
592965.4	4151708	1.6762	8.24	810.56	1.5	ANNUAL	CNST	5
592985.4	4151708	1.96593	8.23	810.56	1.5	ANNUAL	CNST	5
593005.4	4151708	2.2909	8.18	810.56	1.5	ANNUAL	CNST	5
593025.4	4151708	2.63243	8.41	810.56	1.5	ANNUAL	CNST	5
593045.4	4151708	2.98448	8.74	810.56	1.5	ANNUAL	CNST	5
593065.4	4151708	3.35981	8.58	810.56	1.5	ANNUAL	CNST	5
593085.4	4151708	3.74594	8.08	810.56	1.5	ANNUAL	CNST	5
593105.4	4151708	4.11124	7.69	810.56	1.5	ANNUAL	CNST	5
593125.4	4151708	4.40772	8.04	810.56	1.5	ANNUAL	CNST	5
592685.4	4151728	0.47185	7.47	810.56	1.5	ANNUAL	CNST	5
592705.4	4151728	0.49525	6.87	810.56	1.5	ANNUAL	CNST	5
592725.4	4151728	0.52224	7.36	810.56	1.5	ANNUAL	CNST	5
592745.4	4151728	0.54963	8.32	810.56	1.5	ANNUAL	CNST	5
592765.4	4151728	0.58761	8.3	810.56	1.5	ANNUAL	CNST	5
592785.4	4151728	0.63309	8.19	810.56	1.5	ANNUAL	CNST	5
592805.4	4151728	0.68645	8.14	810.56	1.5	ANNUAL	CNST	5
592825.4	4151728	0.75188	7.89	810.56	1.5	ANNUAL	CNST	5
592845.4	4151728	0.82984	7.87	810.56	1.5	ANNUAL	CNST	5
592865.4	4151728	0.92743	7.93	810.56	1.5	ANNUAL	CNST	5
592885.4	4151728	1.04819	8.42	810.56	1.5	ANNUAL	CNST	5
592905.4	4151728	1.21646	8.16	810.56	1.5	ANNUAL	CNST	5
592925.4	4151728	1.42837	8.15	810.56	1.5	ANNUAL	CNST	5
592945.4	4151728	1.68742	8.37	810.56	1.5	ANNUAL	CNST	5
592965.4	4151728	2.00086	8.48	810.56	1.5	ANNUAL	CNST	5
592985.4	4151728	2.37261	8.29	810.56	1.5	ANNUAL	CNST	5
593005.4	4151728	2.77555	8.42	810.56	1.5	ANNUAL	CNST	5
593025.4	4151728	3.20173	8.66	810.56	1.5	ANNUAL	CNST	5
593045.4	4151728	3.65362	8.63	810.56	1.5	ANNUAL	CNST	5
593065.4	4151728	4.10389	8.61	810.56	1.5	ANNUAL	CNST	5
593085.4	4151728	4.54281	8.47	810.56	1.5	ANNUAL	CNST	5
593105.4	4151728	4.94204	8.42	810.56	1.5	ANNUAL	CNST	5
593125.4	4151728	5.29459	8.32	810.56	1.5	ANNUAL	CNST	5
593145.4	4151728	5.59166	8.12	810.56	1.5	ANNUAL	CNST	5
592645.4	4151748	0.48878	7.7	810.56	1.5	ANNUAL	CNST	5
592665.4	4151748	0.50582	7.75	810.56	1.5	ANNUAL	CNST	5
592685.4	4151748	0.52554	7.99	810.56	1.5	ANNUAL	CNST	5
592705.4	4151748	0.55092	7.9	810.56	1.5	ANNUAL	CNST	5
592725.4	4151748	0.58391	6.01	810.56	1.5	ANNUAL	CNST	5
592745.4	4151748	0.61498	8.35	810.56	1.5	ANNUAL	CNST	5
592765.4	4151748	0.65742	8.52	810.56	1.5	ANNUAL	CNST	5
592785.4	4151748	0.70907	8.56	810.56	1.5	ANNUAL	CNST	5
592805.4	4151748	0.77064	8.61	810.56	1.5	ANNUAL	CNST	5
592825.4	4151748	0.85013	8.12	810.56	1.5	ANNUAL	CNST	5
592845.4	4151748	0.94527	7.96	810.56	1.5	ANNUAL	CNST	5
592865.4	4151748	1.06702	7.83	810.56	1.5	ANNUAL	CNST	5
592885.4	4151748	1.21884	8.22	810.56	1.5	ANNUAL	CNST	5
592905.4	4151748	1.42634	8.24	810.56	1.5	ANNUAL	CNST	5
592925.4	4151748	1.70282	7.97	810.56	1.5	ANNUAL	CNST	5
592945.4	4151748	2.02844	8.47	810.56	1.5	ANNUAL	CNST	5
592965.4	4151748	2.43446	8.51	810.56	1.5	ANNUAL	CNST	5
592985.4	4151748	2.90173	8.59	810.56	1.5	ANNUAL	CNST	5
593005.4	4151748	3.41927	8.65	810.56	1.5	ANNUAL	CNST	5
593025.4	4151748	3.97287	8.62	810.56	1.5	ANNUAL	CNST	5
593045.4	4151748	4.53542	8.6	810.56	1.5	ANNUAL	CNST	5
593065.4	4151748	5.07859	8.64	810.56	1.5	ANNUAL	CNST	5
593085.4	4151748	5.5898	8.57	810.56	1.5	ANNUAL	CNST	5
593105.4	4151748	6.04111	8.48	810.56	1.5	ANNUAL	CNST	5
593125.4	4151748	6.40362	8.52	810.56	1.5	ANNUAL	CNST	5
593145.4	4151748	6.67314	8.59	810.56	1.5	ANNUAL	CNST	5
593165.4	4151748	6.85323	8.56	810.56	1.5	ANNUAL	CNST	5
592625.4	4151768	0.53847	7.47	810.56	1.5	ANNUAL	CNST	5
592645.4	4151768	0.55227	8.02	810.56	1.5	ANNUAL	CNST	5

592665.4	4151768	0.57065	8.11	810.56	1.5	ANNUAL	CNST	5
592685.4	4151768	0.59326	8.12	810.56	1.5	ANNUAL	CNST	5
592705.4	4151768	0.62131	8.04	810.56	1.5	ANNUAL	CNST	5
592725.4	4151768	0.65911	5.85	810.56	1.5	ANNUAL	CNST	5
592745.4	4151768	0.69742	7.94	810.56	1.5	ANNUAL	CNST	5
592765.4	4151768	0.74623	8.18	810.56	1.5	ANNUAL	CNST	5
592785.4	4151768	0.80697	8.24	810.56	1.5	ANNUAL	CNST	5
592805.4	4151768	0.88058	8.28	810.56	1.5	ANNUAL	CNST	5
592825.4	4151768	0.97333	8.08	810.56	1.5	ANNUAL	CNST	5
592845.4	4151768	1.08784	8.03	810.56	1.5	ANNUAL	CNST	5
592865.4	4151768	1.23731	7.98	810.56	1.5	ANNUAL	CNST	5
592885.4	4151768	1.43507	8.07	810.56	1.5	ANNUAL	CNST	5
592905.4	4151768	1.70041	8.18	810.56	1.5	ANNUAL	CNST	5
592925.4	4151768	2.05506	8.1	810.56	1.5	ANNUAL	CNST	5
592945.4	4151768	2.49189	8.34	810.56	1.5	ANNUAL	CNST	5
592965.4	4151768	3.0267	8.4	810.56	1.5	ANNUAL	CNST	5
592985.4	4151768	3.63291	8.62	810.56	1.5	ANNUAL	CNST	5
593005.4	4151768	4.31302	8.57	810.56	1.5	ANNUAL	CNST	5
593025.4	4151768	5.02259	8.53	810.56	1.5	ANNUAL	CNST	5
593045.4	4151768	5.71279	8.65	810.56	1.5	ANNUAL	CNST	5
593065.4	4151768	6.37316	8.61	810.56	1.5	ANNUAL	CNST	5
593085.4	4151768	6.96742	8.46	810.56	1.5	ANNUAL	CNST	5
593105.4	4151768	7.43596	8.55	810.56	1.5	ANNUAL	CNST	5
593125.4	4151768	7.7886	8.57	810.56	1.5	ANNUAL	CNST	5
593145.4	4151768	7.99611	8.77	810.56	1.5	ANNUAL	CNST	5
593165.4	4151768	8.07492	8.99	810.56	1.5	ANNUAL	CNST	5
593185.4	4151768	8.05158	8.98	810.56	1.5	ANNUAL	CNST	5
592625.4	4151788	0.61744	7.39	810.56	1.5	ANNUAL	CNST	5
592645.4	4151788	0.63372	7.82	810.56	1.5	ANNUAL	CNST	5
592665.4	4151788	0.65357	8.08	810.56	1.5	ANNUAL	CNST	5
592685.4	4151788	0.67848	8.14	810.56	1.5	ANNUAL	CNST	5
592705.4	4151788	0.70941	8.12	810.56	1.5	ANNUAL	CNST	5
592725.4	4151788	0.75379	7.25	810.56	1.5	ANNUAL	CNST	5
592745.4	4151788	0.80014	7.52	810.56	1.5	ANNUAL	CNST	5
592765.4	4151788	0.85295	8.19	810.56	1.5	ANNUAL	CNST	5
592785.4	4151788	0.92403	8.31	810.56	1.5	ANNUAL	CNST	5
592805.4	4151788	1.0143	8.19	810.56	1.5	ANNUAL	CNST	5
592825.4	4151788	1.12872	7.91	810.56	1.5	ANNUAL	CNST	5
592845.4	4151788	1.26671	8.09	810.56	1.5	ANNUAL	CNST	5
592865.4	4151788	1.45586	8.01	810.56	1.5	ANNUAL	CNST	5
592885.4	4151788	1.70468	8.34	810.56	1.5	ANNUAL	CNST	5
592905.4	4151788	2.0495	8.54	810.56	1.5	ANNUAL	CNST	5
592925.4	4151788	2.51825	8.5	810.56	1.5	ANNUAL	CNST	5
592945.4	4151788	3.11546	8.49	810.56	1.5	ANNUAL	CNST	5
592965.4	4151788	3.82982	8.62	810.56	1.5	ANNUAL	CNST	5
592985.4	4151788	4.65577	8.62	810.56	1.5	ANNUAL	CNST	5
593005.4	4151788	5.56193	8.47	810.56	1.5	ANNUAL	CNST	5
593025.4	4151788	6.45801	8.59	810.56	1.5	ANNUAL	CNST	5
593045.4	4151788	7.3402	8.45	810.56	1.5	ANNUAL	CNST	5
593065.4	4151788	8.11671	8.42	810.56	1.5	ANNUAL	CNST	5
593085.4	4151788	8.7389	8.53	810.56	1.5	ANNUAL	CNST	5
593105.4	4151788	9.19087	8.67	810.56	1.5	ANNUAL	CNST	5
593125.4	4151788	9.48526	8.59	810.56	1.5	ANNUAL	CNST	5
593145.4	4151788	9.55914	8.94	810.56	1.5	ANNUAL	CNST	5
593165.4	4151788	9.47826	9.24	810.56	1.5	ANNUAL	CNST	5
593185.4	4151788	9.28469	9.22	810.56	1.5	ANNUAL	CNST	5
593205.4	4151788	8.97716	9.19	810.56	1.5	ANNUAL	CNST	5
592605.4	4151808	0.69418	7.78	810.56	1.5	ANNUAL	CNST	5
592625.4	4151808	0.7128	8	810.56	1.5	ANNUAL	CNST	5
592645.4	4151808	0.73721	7.47	810.56	1.5	ANNUAL	CNST	5
592665.4	4151808	0.75912	7.98	810.56	1.5	ANNUAL	CNST	5
592685.4	4151808	0.78991	7.72	810.56	1.5	ANNUAL	CNST	5
592705.4	4151808	0.82534	7.71	810.56	1.5	ANNUAL	CNST	5

592725.4	4151808	0.86799	7.83	810.56	1.5	ANNUAL	CNST	5
592745.4	4151808	0.92767	6.28	810.56	1.5	ANNUAL	CNST	5
592765.4	4151808	0.98745	8.19	810.56	1.5	ANNUAL	CNST	5
592785.4	4151808	1.06973	8.48	810.56	1.5	ANNUAL	CNST	5
592805.4	4151808	1.17857	8.38	810.56	1.5	ANNUAL	CNST	5
592825.4	4151808	1.31892	8.12	810.56	1.5	ANNUAL	CNST	5
592845.4	4151808	1.49616	8.11	810.56	1.5	ANNUAL	CNST	5
592865.4	4151808	1.74013	8.02	810.56	1.5	ANNUAL	CNST	5
592885.4	4151808	2.06679	8.43	810.56	1.5	ANNUAL	CNST	5
592905.4	4151808	2.53661	8.55	810.56	1.5	ANNUAL	CNST	5
592925.4	4151808	3.1805	8.53	810.56	1.5	ANNUAL	CNST	5
592945.4	4151808	3.9993	8.64	810.56	1.5	ANNUAL	CNST	5
592965.4	4151808	5.0016	8.59	810.56	1.5	ANNUAL	CNST	5
592985.4	4151808	6.14617	8.45	810.56	1.5	ANNUAL	CNST	5
593005.4	4151808	7.32202	8.56	810.56	1.5	ANNUAL	CNST	5
593025.4	4151808	8.49671	8.47	810.56	1.5	ANNUAL	CNST	5
593045.4	4151808	9.56338	8.36	810.56	1.5	ANNUAL	CNST	5
593065.4	4151808	10.43751	8.3	810.56	1.5	ANNUAL	CNST	5
593085.4	4151808	11.05392	8.39	810.56	1.5	ANNUAL	CNST	5
593105.4	4151808	11.39647	8.61	810.56	1.5	ANNUAL	CNST	5
593125.4	4151808	11.51459	8.61	810.56	1.5	ANNUAL	CNST	5
593145.4	4151808	11.39629	8.66	810.56	1.5	ANNUAL	CNST	5
593165.4	4151808	11.05822	9.01	810.56	1.5	ANNUAL	CNST	5
593185.4	4151808	10.59705	9.13	810.56	1.5	ANNUAL	CNST	5
593205.4	4151808	10.03433	9.22	810.56	1.5	ANNUAL	CNST	5
593225.4	4151808	9.41167	9.23	810.56	1.5	ANNUAL	CNST	5
592585.4	4151828	0.78545	7.92	810.56	1.5	ANNUAL	CNST	5
592605.4	4151828	0.81278	7.32	810.56	1.5	ANNUAL	CNST	5
592625.4	4151828	0.83491	8.07	810.56	1.5	ANNUAL	CNST	5
592645.4	4151828	0.86407	7.82	810.56	1.5	ANNUAL	CNST	5
592665.4	4151828	0.89674	7.55	810.56	1.5	ANNUAL	CNST	5
592685.4	4151828	0.93116	7.66	810.56	1.5	ANNUAL	CNST	5
592705.4	4151828	0.97347	7.59	810.56	1.5	ANNUAL	CNST	5
592725.4	4151828	1.02043	7.95	810.56	1.5	ANNUAL	CNST	5
592745.4	4151828	1.08974	5.75	810.56	1.5	ANNUAL	CNST	5
592765.4	4151828	1.16033	8.25	810.56	1.5	ANNUAL	CNST	5
592785.4	4151828	1.2584	8.56	810.56	1.5	ANNUAL	CNST	5
592805.4	4151828	1.39372	8.36	810.56	1.5	ANNUAL	CNST	5
592825.4	4151828	1.56801	8.18	810.56	1.5	ANNUAL	CNST	5
592845.4	4151828	1.7967	8.12	810.56	1.5	ANNUAL	CNST	5
592865.4	4151828	2.11646	8.1	810.56	1.5	ANNUAL	CNST	5
592885.4	4151828	2.56494	8.45	810.56	1.5	ANNUAL	CNST	5
592905.4	4151828	3.22724	8.52	810.56	1.5	ANNUAL	CNST	5
592925.4	4151828	4.14174	8.57	810.56	1.5	ANNUAL	CNST	5
592945.4	4151828	5.32163	8.63	810.56	1.5	ANNUAL	CNST	5
592965.4	4151828	6.77351	8.4	810.56	1.5	ANNUAL	CNST	5
592985.4	4151828	8.31724	8.57	810.56	1.5	ANNUAL	CNST	5
593005.4	4151828	9.91512	8.49	810.56	1.5	ANNUAL	CNST	5
593025.4	4151828	11.40352	8.34	810.56	1.5	ANNUAL	CNST	5
593045.4	4151828	12.61183	8.35	810.56	1.5	ANNUAL	CNST	5
593065.4	4151828	13.47994	8.38	810.56	1.5	ANNUAL	CNST	5
593085.4	4151828	13.98665	8.32	810.56	1.5	ANNUAL	CNST	5
593105.4	4151828	14.08112	8.5	810.56	1.5	ANNUAL	CNST	5
593125.4	4151828	13.87514	8.49	810.56	1.5	ANNUAL	CNST	5
593145.4	4151828	13.40079	8.47	810.56	1.5	ANNUAL	CNST	5
593165.4	4151828	12.71756	8.56	810.56	1.5	ANNUAL	CNST	5
593185.4	4151828	11.90823	8.65	810.56	1.5	ANNUAL	CNST	5
593205.4	4151828	11.02035	8.89	810.56	1.5	ANNUAL	CNST	5
593225.4	4151828	10.12129	9.03	810.56	1.5	ANNUAL	CNST	5
592585.4	4151848	0.91721	8.25	810.56	1.5	ANNUAL	CNST	5
592605.4	4151848	0.95169	8.16	810.56	1.5	ANNUAL	CNST	5
592625.4	4151848	0.98781	8.09	810.56	1.5	ANNUAL	CNST	5
592645.4	4151848	1.02641	7.97	810.56	1.5	ANNUAL	CNST	5

592665.4	4151848	1.0694	7.7	810.56	1.5	ANNUAL	CNST	5
592685.4	4151848	1.11405	7.77	810.56	1.5	ANNUAL	CNST	5
592705.4	4151848	1.16082	8.21	810.56	1.5	ANNUAL	CNST	5
592725.4	4151848	1.22085	8.25	810.56	1.5	ANNUAL	CNST	5
592745.4	4151848	1.31074	7.13	810.56	1.5	ANNUAL	CNST	5
592765.4	4151848	1.40661	7.45	810.56	1.5	ANNUAL	CNST	5
592785.4	4151848	1.51043	8.55	810.56	1.5	ANNUAL	CNST	5
592805.4	4151848	1.68041	8.29	810.56	1.5	ANNUAL	CNST	5
592825.4	4151848	1.90106	8.19	810.56	1.5	ANNUAL	CNST	5
592845.4	4151848	2.20203	8.12	810.56	1.5	ANNUAL	CNST	5
592865.4	4151848	2.63147	8.23	810.56	1.5	ANNUAL	CNST	5
592885.4	4151848	3.27506	8.46	810.56	1.5	ANNUAL	CNST	5
592905.4	4151848	4.25335	8.47	810.56	1.5	ANNUAL	CNST	5
592925.4	4151848	5.62798	8.48	810.56	1.5	ANNUAL	CNST	5
592945.4	4151848	7.39076	8.56	810.56	1.5	ANNUAL	CNST	5
592965.4	4151848	9.46212	8.59	810.56	1.5	ANNUAL	CNST	5
592985.4	4151848	11.67317	8.51	810.56	1.5	ANNUAL	CNST	5
593005.4	4151848	13.78532	8.37	810.56	1.5	ANNUAL	CNST	5
593025.4	4151848	15.54024	8.32	810.56	1.5	ANNUAL	CNST	5
593045.4	4151848	16.75435	8.46	810.56	1.5	ANNUAL	CNST	5
593065.4	4151848	17.41891	8.55	810.56	1.5	ANNUAL	CNST	5
593085.4	4151848	17.56095	8.47	810.56	1.5	ANNUAL	CNST	5
593105.4	4151848	17.19731	8.44	810.56	1.5	ANNUAL	CNST	5
593125.4	4151848	16.43413	8.51	810.56	1.5	ANNUAL	CNST	5
593145.4	4151848	15.41765	8.53	810.56	1.5	ANNUAL	CNST	5
593165.4	4151848	14.2391	8.65	810.56	1.5	ANNUAL	CNST	5
593185.4	4151848	13.00949	8.69	810.56	1.5	ANNUAL	CNST	5
593205.4	4151848	11.78529	8.73	810.56	1.5	ANNUAL	CNST	5
593225.4	4151848	10.61832	8.67	810.56	1.5	ANNUAL	CNST	5
593245.4	4151848	9.51322	8.84	810.56	1.5	ANNUAL	CNST	5
592565.4	4151868	1.02973	8.47	810.56	1.5	ANNUAL	CNST	5
592585.4	4151868	1.07691	8.26	810.56	1.5	ANNUAL	CNST	5
592605.4	4151868	1.12689	8.03	810.56	1.5	ANNUAL	CNST	5
592625.4	4151868	1.17816	8.03	810.56	1.5	ANNUAL	CNST	5
592645.4	4151868	1.22983	8.34	810.56	1.5	ANNUAL	CNST	5
592665.4	4151868	1.28784	8.27	810.56	1.5	ANNUAL	CNST	5
592685.4	4151868	1.35636	7.7	810.56	1.5	ANNUAL	CNST	5
592705.4	4151868	1.41893	8.24	810.56	1.5	ANNUAL	CNST	5
592725.4	4151868	1.49635	8.32	810.56	1.5	ANNUAL	CNST	5
592745.4	4151868	1.59795	7.92	810.56	1.5	ANNUAL	CNST	5
592765.4	4151868	1.72876	6.06	810.56	1.5	ANNUAL	CNST	5
592785.4	4151868	1.86086	8.42	810.56	1.5	ANNUAL	CNST	5
592805.4	4151868	2.07542	8.22	810.56	1.5	ANNUAL	CNST	5
592825.4	4151868	2.36506	8.11	810.56	1.5	ANNUAL	CNST	5
592845.4	4151868	2.76974	8.11	810.56	1.5	ANNUAL	CNST	5
592865.4	4151868	3.38636	8.12	810.56	1.5	ANNUAL	CNST	5
592885.4	4151868	4.36922	8.19	810.56	1.5	ANNUAL	CNST	5
592905.4	4151868	5.87625	8.41	810.56	1.5	ANNUAL	CNST	5
592925.4	4151868	8.03795	8.51	810.56	1.5	ANNUAL	CNST	5
592945.4	4151868	10.85524	8.32	810.56	1.5	ANNUAL	CNST	5
592965.4	4151868	13.89674	8.5	810.56	1.5	ANNUAL	CNST	5
592985.4	4151868	16.96852	8.38	810.56	1.5	ANNUAL	CNST	5
593005.4	4151868	19.59613	8.26	810.56	1.5	ANNUAL	CNST	5
593025.4	4151868	21.37847	8.44	810.56	1.5	ANNUAL	CNST	5
593045.4	4151868	22.33275	8.5	810.56	1.5	ANNUAL	CNST	5
593065.4	4151868	22.40459	8.6	810.56	1.5	ANNUAL	CNST	5
593085.4	4151868	21.76659	8.55	810.56	1.5	ANNUAL	CNST	5
593105.4	4151868	20.55001	8.57	810.56	1.5	ANNUAL	CNST	5
593125.4	4151868	18.92866	8.92	810.56	1.5	ANNUAL	CNST	5
593145.4	4151868	17.19053	9.04	810.56	1.5	ANNUAL	CNST	5
593165.4	4151868	15.45301	8.94	810.56	1.5	ANNUAL	CNST	5
593185.4	4151868	13.77555	8.82	810.56	1.5	ANNUAL	CNST	5
593205.4	4151868	12.20444	8.79	810.56	1.5	ANNUAL	CNST	5

593225.4	4151868	10.77645	8.78	810.56	1.5	ANNUAL	CNST	5
593245.4	4151868	9.49734	8.84	810.56	1.5	ANNUAL	CNST	5
592565.4	4151888	1.20397	7.84	810.56	1.5	ANNUAL	CNST	5
592585.4	4151888	1.26845	7.94	810.56	1.5	ANNUAL	CNST	5
592605.4	4151888	1.33817	7.91	810.56	1.5	ANNUAL	CNST	5
592625.4	4151888	1.41164	8.03	810.56	1.5	ANNUAL	CNST	5
592645.4	4151888	1.48812	8.35	810.56	1.5	ANNUAL	CNST	5
592665.4	4151888	1.57283	8.36	810.56	1.5	ANNUAL	CNST	5
592685.4	4151888	1.67248	7.77	810.56	1.5	ANNUAL	CNST	5
592705.4	4151888	1.7707	7.98	810.56	1.5	ANNUAL	CNST	5
592725.4	4151888	1.8842	7.95	810.56	1.5	ANNUAL	CNST	5
592745.4	4151888	2.01363	8	810.56	1.5	ANNUAL	CNST	5
592765.4	4151888	2.18903	6.26	810.56	1.5	ANNUAL	CNST	5
592785.4	4151888	2.37651	7.99	810.56	1.5	ANNUAL	CNST	5
592805.4	4151888	2.64671	8.13	810.56	1.5	ANNUAL	CNST	5
592825.4	4151888	3.02789	8.22	810.56	1.5	ANNUAL	CNST	5
592845.4	4151888	3.6026	8.13	810.56	1.5	ANNUAL	CNST	5
592865.4	4151888	4.51427	8.23	810.56	1.5	ANNUAL	CNST	5
592885.4	4151888	6.08405	8.33	810.56	1.5	ANNUAL	CNST	5
592905.4	4151888	8.60513	8.61	810.56	1.5	ANNUAL	CNST	5
592925.4	4151888	12.37962	8.33	810.56	1.5	ANNUAL	CNST	5
592945.4	4151888	16.80553	8.43	810.56	1.5	ANNUAL	CNST	5
592965.4	4151888	21.49076	8.18	810.56	1.5	ANNUAL	CNST	5
592985.4	4151888	25.39361	8.27	810.56	1.5	ANNUAL	CNST	5
593005.4	4151888	28.09384	8.5	810.56	1.5	ANNUAL	CNST	5
593025.4	4151888	29.50067	8.56	810.56	1.5	ANNUAL	CNST	5
593045.4	4151888	29.52286	8.57	810.56	1.5	ANNUAL	CNST	5
593065.4	4151888	28.33878	8.59	810.56	1.5	ANNUAL	CNST	5
593085.4	4151888	26.33311	8.53	810.56	1.5	ANNUAL	CNST	5
593105.4	4151888	23.84105	8.54	810.56	1.5	ANNUAL	CNST	5
593125.4	4151888	21.13563	8.9	810.56	1.5	ANNUAL	CNST	5
593145.4	4151888	18.55866	8.99	810.56	1.5	ANNUAL	CNST	5
593165.4	4151888	16.18016	9.02	810.56	1.5	ANNUAL	CNST	5
593185.4	4151888	14.05595	8.97	810.56	1.5	ANNUAL	CNST	5
593205.4	4151888	12.19198	8.9	810.56	1.5	ANNUAL	CNST	5
593225.4	4151888	10.56601	8.97	810.56	1.5	ANNUAL	CNST	5
593245.4	4151888	9.16996	9.06	810.56	1.5	ANNUAL	CNST	5
593265.4	4151888	7.98548	9.04	810.56	1.5	ANNUAL	CNST	5
592565.4	4151908	1.40081	7.96	810.56	1.5	ANNUAL	CNST	5
592585.4	4151908	1.49064	7.92	810.56	1.5	ANNUAL	CNST	5
592605.4	4151908	1.58839	7.93	810.56	1.5	ANNUAL	CNST	5
592625.4	4151908	1.69725	7.74	810.56	1.5	ANNUAL	CNST	5
592645.4	4151908	1.81364	7.83	810.56	1.5	ANNUAL	CNST	5
592665.4	4151908	1.93911	8.06	810.56	1.5	ANNUAL	CNST	5
592685.4	4151908	2.08403	7.82	810.56	1.5	ANNUAL	CNST	5
592705.4	4151908	2.2349	8.1	810.56	1.5	ANNUAL	CNST	5
592725.4	4151908	2.41174	7.97	810.56	1.5	ANNUAL	CNST	5
592745.4	4151908	2.61379	7.85	810.56	1.5	ANNUAL	CNST	5
592765.4	4151908	2.87029	7.3	810.56	1.5	ANNUAL	CNST	5
592785.4	4151908	3.16649	6.62	810.56	1.5	ANNUAL	CNST	5
592805.4	4151908	3.54828	7.6	810.56	1.5	ANNUAL	CNST	5
592825.4	4151908	4.05217	8.29	810.56	1.5	ANNUAL	CNST	5
592845.4	4151908	4.8806	8.42	810.56	1.5	ANNUAL	CNST	5
592865.4	4151908	6.38931	8.18	810.56	1.5	ANNUAL	CNST	5
592885.4	4151908	9.11582	8.53	810.56	1.5	ANNUAL	CNST	5
592905.4	4151908	13.92901	8.57	810.56	1.5	ANNUAL	CNST	5
592925.4	4151908	20.62445	8.51	810.56	1.5	ANNUAL	CNST	5
592945.4	4151908	27.85737	8.41	810.56	1.5	ANNUAL	CNST	5
592965.4	4151908	34.0179	8.49	810.56	1.5	ANNUAL	CNST	5
592985.4	4151908	38.64278	8.25	810.56	1.5	ANNUAL	CNST	5
593005.4	4151908	40.63558	8.46	810.56	1.5	ANNUAL	CNST	5
593025.4	4151908	40.30297	8.7	810.56	1.5	ANNUAL	CNST	5
593045.4	4151908	38.1518	8.68	810.56	1.5	ANNUAL	CNST	5

593065.4	4151908	34.67988	8.6	810.56	1.5	ANNUAL	CNST	5
593085.4	4151908	30.56333	8.62	810.56	1.5	ANNUAL	CNST	5
593105.4	4151908	26.41067	8.67	810.56	1.5	ANNUAL	CNST	5
593125.4	4151908	22.56724	8.69	810.56	1.5	ANNUAL	CNST	5
593145.4	4151908	19.17498	8.68	810.56	1.5	ANNUAL	CNST	5
593165.4	4151908	16.26664	8.63	810.56	1.5	ANNUAL	CNST	5
593185.4	4151908	13.79738	8.69	810.56	1.5	ANNUAL	CNST	5
593205.4	4151908	11.74289	8.66	810.56	1.5	ANNUAL	CNST	5
593225.4	4151908	10.00393	8.97	810.56	1.5	ANNUAL	CNST	5
593245.4	4151908	8.57543	9.1	810.56	1.5	ANNUAL	CNST	5
593265.4	4151908	7.39583	9.12	810.56	1.5	ANNUAL	CNST	5
592545.4	4151928	1.51708	7.96	810.56	1.5	ANNUAL	CNST	5
592565.4	4151928	1.62537	8	810.56	1.5	ANNUAL	CNST	5
592585.4	4151928	1.7464	7.97	810.56	1.5	ANNUAL	CNST	5
592605.4	4151928	1.88136	7.95	810.56	1.5	ANNUAL	CNST	5
592625.4	4151928	2.03229	7.95	810.56	1.5	ANNUAL	CNST	5
592645.4	4151928	2.20442	7.76	810.56	1.5	ANNUAL	CNST	5
592665.4	4151928	2.3925	7.97	810.56	1.5	ANNUAL	CNST	5
592685.4	4151928	2.61048	7.88	810.56	1.5	ANNUAL	CNST	5
592705.4	4151928	2.84297	8.43	810.56	1.5	ANNUAL	CNST	5
592725.4	4151928	3.12489	8.33	810.56	1.5	ANNUAL	CNST	5
592745.4	4151928	3.45718	8.1	810.56	1.5	ANNUAL	CNST	5
592765.4	4151928	3.85485	7.83	810.56	1.5	ANNUAL	CNST	5
592785.4	4151928	4.36269	6.68	810.56	1.5	ANNUAL	CNST	5
592805.4	4151928	4.92178	8.11	810.56	1.5	ANNUAL	CNST	5
592825.4	4151928	5.761	8.35	810.56	1.5	ANNUAL	CNST	5
592845.4	4151928	7.17379	8.1	810.56	1.5	ANNUAL	CNST	5
592865.4	4151928	9.81419	8.16	810.56	1.5	ANNUAL	CNST	5
592885.4	4151928	15.4599	8.51	810.56	1.5	ANNUAL	CNST	5
592905.4	4151928	25.81156	8.49	810.56	1.5	ANNUAL	CNST	5
592925.4	4151928	38.12883	8.44	810.56	1.5	ANNUAL	CNST	5
592945.4	4151928	48.30449	8.54	810.56	1.5	ANNUAL	CNST	5
592965.4	4151928	55.17528	8.57	810.56	1.5	ANNUAL	CNST	5
592985.4	4151928	58.69687	8.39	810.56	1.5	ANNUAL	CNST	5
593005.4	4151928	58.20307	8.31	810.56	1.5	ANNUAL	CNST	5
593025.4	4151928	53.94236	8.4	810.56	1.5	ANNUAL	CNST	5
593045.4	4151928	47.41445	8.5	810.56	1.5	ANNUAL	CNST	5
593065.4	4151928	40.26725	8.51	810.56	1.5	ANNUAL	CNST	5
593085.4	4151928	33.47736	8.62	810.56	1.5	ANNUAL	CNST	5
593105.4	4151928	27.59894	8.66	810.56	1.5	ANNUAL	CNST	5
593125.4	4151928	22.72867	8.57	810.56	1.5	ANNUAL	CNST	5
593145.4	4151928	18.69019	8.82	810.56	1.5	ANNUAL	CNST	5
593165.4	4151928	15.46671	8.89	810.56	1.5	ANNUAL	CNST	5
593185.4	4151928	12.89225	8.84	810.56	1.5	ANNUAL	CNST	5
593205.4	4151928	10.80727	8.92	810.56	1.5	ANNUAL	CNST	5
593225.4	4151928	9.13799	8.87	810.56	1.5	ANNUAL	CNST	5
593245.4	4151928	7.76888	9.03	810.56	1.5	ANNUAL	CNST	5
593265.4	4151928	6.66325	9.05	810.56	1.5	ANNUAL	CNST	5
592545.4	4151948	1.73837	7.96	810.56	1.5	ANNUAL	CNST	5
592565.4	4151948	1.87876	7.99	810.56	1.5	ANNUAL	CNST	5
592585.4	4151948	2.03786	8.01	810.56	1.5	ANNUAL	CNST	5
592605.4	4151948	2.21948	7.99	810.56	1.5	ANNUAL	CNST	5
592625.4	4151948	2.42799	7.94	810.56	1.5	ANNUAL	CNST	5
592645.4	4151948	2.67002	7.8	810.56	1.5	ANNUAL	CNST	5
592665.4	4151948	2.94545	7.96	810.56	1.5	ANNUAL	CNST	5
592685.4	4151948	3.27028	7.98	810.56	1.5	ANNUAL	CNST	5
592705.4	4151948	3.63929	8.45	810.56	1.5	ANNUAL	CNST	5
592725.4	4151948	4.09378	8.44	810.56	1.5	ANNUAL	CNST	5
592745.4	4151948	4.64484	8.39	810.56	1.5	ANNUAL	CNST	5
592765.4	4151948	5.33482	8.17	810.56	1.5	ANNUAL	CNST	5
592785.4	4151948	6.24437	6.28	810.56	1.5	ANNUAL	CNST	5
592805.4	4151948	7.31343	8.24	810.56	1.5	ANNUAL	CNST	5
592825.4	4151948	8.90084	8.33	810.56	1.5	ANNUAL	CNST	5

592845.4	4151948	11.56646	8.01	810.56	1.5	ANNUAL	CNST	5
592865.4	4151948	17.10959	7.92	810.56	1.5	ANNUAL	CNST	5
592885.4	4151948	31.95751	8.03	810.56	1.5	ANNUAL	CNST	5
592905.4	4151948	55.6625	8.06	810.56	1.5	ANNUAL	CNST	5
592925.4	4151948	74.05868	8.27	810.56	1.5	ANNUAL	CNST	5
592945.4	4151948	84.12451	8.53	810.56	1.5	ANNUAL	CNST	5
592965.4	4151948	88.58823	8.54	810.56	1.5	ANNUAL	CNST	5
592985.4	4151948	87.62254	8.47	810.56	1.5	ANNUAL	CNST	5
593005.4	4151948	79.96231	8.53	810.56	1.5	ANNUAL	CNST	5
593025.4	4151948	67.61484	8.53	810.56	1.5	ANNUAL	CNST	5
593045.4	4151948	54.54935	8.47	810.56	1.5	ANNUAL	CNST	5
593065.4	4151948	43.01389	8.65	810.56	1.5	ANNUAL	CNST	5
593085.4	4151948	33.89648	8.62	810.56	1.5	ANNUAL	CNST	5
593105.4	4151948	26.82034	8.6	810.56	1.5	ANNUAL	CNST	5
593125.4	4151948	21.37459	8.66	810.56	1.5	ANNUAL	CNST	5
593145.4	4151948	17.18443	8.83	810.56	1.5	ANNUAL	CNST	5
593165.4	4151948	13.97391	8.95	810.56	1.5	ANNUAL	CNST	5
593185.4	4151948	11.50777	8.92	810.56	1.5	ANNUAL	CNST	5
593205.4	4151948	9.55554	9.11	810.56	1.5	ANNUAL	CNST	5
593225.4	4151948	8.03466	9.1	810.56	1.5	ANNUAL	CNST	5
593245.4	4151948	6.81636	9.17	810.56	1.5	ANNUAL	CNST	5
593265.4	4151948	5.83938	9.19	810.56	1.5	ANNUAL	CNST	5
593285.4	4151948	5.06501	8.83	810.56	1.5	ANNUAL	CNST	5
592545.4	4151968	1.98773	7.59	810.56	1.5	ANNUAL	CNST	5
592565.4	4151968	2.16584	7.73	810.56	1.5	ANNUAL	CNST	5
592585.4	4151968	2.3726	7.71	810.56	1.5	ANNUAL	CNST	5
592605.4	4151968	2.61149	7.77	810.56	1.5	ANNUAL	CNST	5
592625.4	4151968	2.89161	7.79	810.56	1.5	ANNUAL	CNST	5
592645.4	4151968	3.22213	7.83	810.56	1.5	ANNUAL	CNST	5
592665.4	4151968	3.61283	8.02	810.56	1.5	ANNUAL	CNST	5
592685.4	4151968	4.08876	8.06	810.56	1.5	ANNUAL	CNST	5
592705.4	4151968	4.66959	8.17	810.56	1.5	ANNUAL	CNST	5
592725.4	4151968	5.39866	8.19	810.56	1.5	ANNUAL	CNST	5
592745.4	4151968	6.32783	8.23	810.56	1.5	ANNUAL	CNST	5
592765.4	4151968	7.57047	8.03	810.56	1.5	ANNUAL	CNST	5
592785.4	4151968	9.34672	6.74	810.56	1.5	ANNUAL	CNST	5
592805.4	4151968	11.56202	8.4	810.56	1.5	ANNUAL	CNST	5
592825.4	4151968	15.20898	8.36	810.56	1.5	ANNUAL	CNST	5
592845.4	4151968	21.09617	8.48	810.56	1.5	ANNUAL	CNST	5
592865.4	4151968	33.9667	8.39	810.56	1.5	ANNUAL	CNST	5
592885.4	4151968	73.40557	8.36	810.56	1.5	ANNUAL	CNST	5
592905.4	4151968	107.078	8.29	810.56	1.5	ANNUAL	CNST	5
592925.4	4151968	126.2973	8.14	810.56	1.5	ANNUAL	CNST	5
592945.4	4151968	135.1407	8.04	810.56	1.5	ANNUAL	CNST	5
592965.4	4151968	135.0818	8.14	810.56	1.5	ANNUAL	CNST	5
592985.4	4151968	124.7475	8.35	810.56	1.5	ANNUAL	CNST	5
593005.4	4151968	101.1447	8.46	810.56	1.5	ANNUAL	CNST	5
593025.4	4151968	75.63541	8.54	810.56	1.5	ANNUAL	CNST	5
593045.4	4151968	55.75103	8.57	810.56	1.5	ANNUAL	CNST	5
593065.4	4151968	41.37742	8.68	810.56	1.5	ANNUAL	CNST	5
593085.4	4151968	31.2329	8.7	810.56	1.5	ANNUAL	CNST	5
593105.4	4151968	24.0234	8.62	810.56	1.5	ANNUAL	CNST	5
593125.4	4151968	18.74202	8.78	810.56	1.5	ANNUAL	CNST	5
593145.4	4151968	14.89231	8.84	810.56	1.5	ANNUAL	CNST	5
593165.4	4151968	12.04149	8.78	810.56	1.5	ANNUAL	CNST	5
593185.4	4151968	9.86361	8.85	810.56	1.5	ANNUAL	CNST	5
593205.4	4151968	8.18553	8.96	810.56	1.5	ANNUAL	CNST	5
593225.4	4151968	6.87105	9.15	810.56	1.5	ANNUAL	CNST	5
593245.4	4151968	5.85155	9.07	810.56	1.5	ANNUAL	CNST	5
593265.4	4151968	5.02848	9.09	810.56	1.5	ANNUAL	CNST	5
593285.4	4151968	4.36425	9.05	810.56	1.5	ANNUAL	CNST	5
592545.4	4151988	2.26139	7.92	810.56	1.5	ANNUAL	CNST	5
592565.4	4151988	2.48695	7.87	810.56	1.5	ANNUAL	CNST	5

592585.4	4151988	2.75011	7.88	810.56	1.5	ANNUAL	CNST	5
592605.4	4151988	3.0625	7.8	810.56	1.5	ANNUAL	CNST	5
592625.4	4151988	3.43368	7.83	810.56	1.5	ANNUAL	CNST	5
592645.4	4151988	3.87588	8.12	810.56	1.5	ANNUAL	CNST	5
592665.4	4151988	4.42607	8.12	810.56	1.5	ANNUAL	CNST	5
592685.4	4151988	5.11342	8.12	810.56	1.5	ANNUAL	CNST	5
592705.4	4151988	5.98259	8.27	810.56	1.5	ANNUAL	CNST	5
592725.4	4151988	7.11877	8.42	810.56	1.5	ANNUAL	CNST	5
592745.4	4151988	8.68782	8.24	810.56	1.5	ANNUAL	CNST	5
592765.4	4151988	10.97526	7.69	810.56	1.5	ANNUAL	CNST	5
592785.4	4151988	14.37142	7.57	810.56	1.5	ANNUAL	CNST	5
592805.4	4151988	19.55017	8.52	810.56	1.5	ANNUAL	CNST	5
592825.4	4151988	29.49906	8.44	810.56	1.5	ANNUAL	CNST	5
592845.4	4151988	49.04692	8.44	810.56	1.5	ANNUAL	CNST	5
592865.4	4151988	83.25917	8.23	810.56	1.5	ANNUAL	CNST	5
592885.4	4151988	124.6701	8.47	810.56	1.5	ANNUAL	CNST	5
592905.4	4151988	151.6813	8.5	810.56	1.5	ANNUAL	CNST	5
592925.4	4151988	166.0274	8.48	810.56	1.5	ANNUAL	CNST	5
592945.4	4151988	171.208	8.5	810.56	1.5	ANNUAL	CNST	5
592965.4	4151988	169.5441	8.63	810.56	1.5	ANNUAL	CNST	5
592985.4	4151988	145.9252	8.93	810.56	1.5	ANNUAL	CNST	5
593005.4	4151988	103.497	8.68	810.56	1.5	ANNUAL	CNST	5
593025.4	4151988	71.58562	8.29	810.56	1.5	ANNUAL	CNST	5
593045.4	4151988	49.98553	8.18	810.56	1.5	ANNUAL	CNST	5
593065.4	4151988	35.7302	8.35	810.56	1.5	ANNUAL	CNST	5
593085.4	4151988	26.29422	8.55	810.56	1.5	ANNUAL	CNST	5
593105.4	4151988	19.87884	8.77	810.56	1.5	ANNUAL	CNST	5
593125.4	4151988	15.45749	8.76	810.56	1.5	ANNUAL	CNST	5
593145.4	4151988	12.26574	8.83	810.56	1.5	ANNUAL	CNST	5
593165.4	4151988	9.93481	8.8	810.56	1.5	ANNUAL	CNST	5
593185.4	4151988	8.15456	9.02	810.56	1.5	ANNUAL	CNST	5
593205.4	4151988	6.81363	9.03	810.56	1.5	ANNUAL	CNST	5
593225.4	4151988	5.76473	9.09	810.56	1.5	ANNUAL	CNST	5
593245.4	4151988	4.92477	9.32	810.56	1.5	ANNUAL	CNST	5
593265.4	4151988	4.26697	9.24	810.56	1.5	ANNUAL	CNST	5
593285.4	4151988	3.71987	9.44	810.56	1.5	ANNUAL	CNST	5
592545.4	4152008	2.57675	8.02	810.56	1.5	ANNUAL	CNST	5
592565.4	4152008	2.86192	7.74	810.56	1.5	ANNUAL	CNST	5
592585.4	4152008	3.19312	7.96	810.56	1.5	ANNUAL	CNST	5
592605.4	4152008	3.59205	8.1	810.56	1.5	ANNUAL	CNST	5
592625.4	4152008	4.08347	8	810.56	1.5	ANNUAL	CNST	5
592645.4	4152008	4.69082	7.95	810.56	1.5	ANNUAL	CNST	5
592665.4	4152008	5.44987	8.08	810.56	1.5	ANNUAL	CNST	5
592685.4	4152008	6.42666	8.22	810.56	1.5	ANNUAL	CNST	5
592705.4	4152008	7.71109	8.47	810.56	1.5	ANNUAL	CNST	5
592725.4	4152008	9.48975	8.48	810.56	1.5	ANNUAL	CNST	5
592745.4	4152008	12.04286	8.45	810.56	1.5	ANNUAL	CNST	5
592765.4	4152008	16.1488	6.77	810.56	1.5	ANNUAL	CNST	5
592785.4	4152008	22.26989	8.3	810.56	1.5	ANNUAL	CNST	5
592805.4	4152008	33.4686	8.51	810.56	1.5	ANNUAL	CNST	5
592825.4	4152008	55.37706	8.48	810.56	1.5	ANNUAL	CNST	5
592845.4	4152008	91.92809	8.34	810.56	1.5	ANNUAL	CNST	5
592865.4	4152008	122.9591	8.44	810.56	1.5	ANNUAL	CNST	5
592885.4	4152008	162.6231	8.64	810.56	1.5	ANNUAL	CNST	5
592905.4	4152008	188.5903	8.59	810.56	1.5	ANNUAL	CNST	5
592925.4	4152008	201.2123	8.64	810.56	1.5	ANNUAL	CNST	5
592945.4	4152008	198.5606	8.7	810.56	1.5	ANNUAL	CNST	5
592965.4	4152008	174.9933	8.65	810.56	1.5	ANNUAL	CNST	5
592985.4	4152008	131.7819	8.93	810.56	1.5	ANNUAL	CNST	5
593005.4	4152008	85.56975	9.15	810.56	1.5	ANNUAL	CNST	5
593025.4	4152008	57.02955	8.62	810.56	1.5	ANNUAL	CNST	5
593045.4	4152008	38.76525	8.76	810.56	1.5	ANNUAL	CNST	5
593065.4	4152008	27.45954	8.95	810.56	1.5	ANNUAL	CNST	5

593085.4	4152008	20.30896	8.88	810.56	1.5	ANNUAL	CNST	5
593105.4	4152008	15.59333	8.52	810.56	1.5	ANNUAL	CNST	5
593125.4	4152008	12.28902	8.21	810.56	1.5	ANNUAL	CNST	5
593145.4	4152008	9.81901	8.44	810.56	1.5	ANNUAL	CNST	5
593165.4	4152008	7.99474	8.77	810.56	1.5	ANNUAL	CNST	5
593185.4	4152008	6.6423	8.92	810.56	1.5	ANNUAL	CNST	5
593205.4	4152008	5.60578	9.01	810.56	1.5	ANNUAL	CNST	5
593225.4	4152008	4.79077	9.12	810.56	1.5	ANNUAL	CNST	5
593245.4	4152008	4.14009	9.24	810.56	1.5	ANNUAL	CNST	5
593265.4	4152008	3.61944	9.21	810.56	1.5	ANNUAL	CNST	5
593285.4	4152008	3.18513	9.37	810.56	1.5	ANNUAL	CNST	5
592545.4	4152028	2.94941	7.9	810.56	1.5	ANNUAL	CNST	5
592565.4	4152028	3.30313	7.83	810.56	1.5	ANNUAL	CNST	5
592585.4	4152028	3.72	8.25	810.56	1.5	ANNUAL	CNST	5
592605.4	4152028	4.23683	8.29	810.56	1.5	ANNUAL	CNST	5
592625.4	4152028	4.87236	8.51	810.56	1.5	ANNUAL	CNST	5
592645.4	4152028	5.68679	8.39	810.56	1.5	ANNUAL	CNST	5
592665.4	4152028	6.73995	8.25	810.56	1.5	ANNUAL	CNST	5
592685.4	4152028	8.12123	8.32	810.56	1.5	ANNUAL	CNST	5
592705.4	4152028	9.99018	8.52	810.56	1.5	ANNUAL	CNST	5
592725.4	4152028	12.64988	8.5	810.56	1.5	ANNUAL	CNST	5
592745.4	4152028	16.60129	8.29	810.56	1.5	ANNUAL	CNST	5
592765.4	4152028	22.92201	6.78	810.56	1.5	ANNUAL	CNST	5
592785.4	4152028	32.45506	8.43	810.56	1.5	ANNUAL	CNST	5
592805.4	4152028	48.95183	8.53	810.56	1.5	ANNUAL	CNST	5
592825.4	4152028	76.25848	8.53	810.56	1.5	ANNUAL	CNST	5
592845.4	4152028	113.8637	8.46	810.56	1.5	ANNUAL	CNST	5
592865.4	4152028	144.9338	8.59	810.56	1.5	ANNUAL	CNST	5
592885.4	4152028	177.272	8.64	810.56	1.5	ANNUAL	CNST	5
592905.4	4152028	199.6513	8.68	810.56	1.5	ANNUAL	CNST	5
592925.4	4152028	206.5876	8.72	810.56	1.5	ANNUAL	CNST	5
592945.4	4152028	192.6764	8.72	810.56	1.5	ANNUAL	CNST	5
592965.4	4152028	154.0024	8.72	810.56	1.5	ANNUAL	CNST	5
592985.4	4152028	99.55714	8.93	810.56	1.5	ANNUAL	CNST	5
593005.4	4152028	61.16727	9.33	810.56	1.5	ANNUAL	CNST	5
593025.4	4152028	40.03809	9.14	810.56	1.5	ANNUAL	CNST	5
593045.4	4152028	27.7521	8.81	810.56	1.5	ANNUAL	CNST	5
593065.4	4152028	19.93923	9.04	810.56	1.5	ANNUAL	CNST	5
593085.4	4152028	14.95058	9.25	810.56	1.5	ANNUAL	CNST	5
593105.4	4152028	11.70694	8.96	810.56	1.5	ANNUAL	CNST	5
593125.4	4152028	9.25644	9.64	810.56	1.5	ANNUAL	CNST	5
593145.4	4152028	7.58486	9.57	810.56	1.5	ANNUAL	CNST	5
593165.4	4152028	6.35192	9.25	810.56	1.5	ANNUAL	CNST	5
593185.4	4152028	5.40526	8.84	810.56	1.5	ANNUAL	CNST	5
593205.4	4152028	4.65269	8.51	810.56	1.5	ANNUAL	CNST	5
593225.4	4152028	4.02519	8.64	810.56	1.5	ANNUAL	CNST	5
593245.4	4152028	3.51093	8.94	810.56	1.5	ANNUAL	CNST	5
593265.4	4152028	3.09338	9.15	810.56	1.5	ANNUAL	CNST	5
593285.4	4152028	2.75264	9.16	810.56	1.5	ANNUAL	CNST	5
592545.4	4152048	3.39311	7.8	810.56	1.5	ANNUAL	CNST	5
592565.4	4152048	3.83157	7.97	810.56	1.5	ANNUAL	CNST	5
592585.4	4152048	4.36189	8.32	810.56	1.5	ANNUAL	CNST	5
592605.4	4152048	5.02274	8.46	810.56	1.5	ANNUAL	CNST	5
592625.4	4152048	5.85575	8.53	810.56	1.5	ANNUAL	CNST	5
592645.4	4152048	6.92499	8.54	810.56	1.5	ANNUAL	CNST	5
592665.4	4152048	8.3265	8.49	810.56	1.5	ANNUAL	CNST	5
592685.4	4152048	10.20092	8.46	810.56	1.5	ANNUAL	CNST	5
592705.4	4152048	12.76172	8.55	810.56	1.5	ANNUAL	CNST	5
592725.4	4152048	16.39005	8.52	810.56	1.5	ANNUAL	CNST	5
592745.4	4152048	21.90338	6.96	810.56	1.5	ANNUAL	CNST	5
592765.4	4152048	29.63631	8.04	810.56	1.5	ANNUAL	CNST	5
592785.4	4152048	41.40651	8.35	810.56	1.5	ANNUAL	CNST	5
592805.4	4152048	59.04399	8.6	810.56	1.5	ANNUAL	CNST	5

592825.4	4152048	84.92932	8.58	810.56	1.5	ANNUAL	CNST	5
592845.4	4152048	120.1428	8.48	810.56	1.5	ANNUAL	CNST	5
592865.4	4152048	151.5685	8.56	810.56	1.5	ANNUAL	CNST	5
592885.4	4152048	168.3952	8.67	810.56	1.5	ANNUAL	CNST	5
592905.4	4152048	183.1874	8.79	810.56	1.5	ANNUAL	CNST	5
592925.4	4152048	183.093	8.84	810.56	1.5	ANNUAL	CNST	5
592945.4	4152048	157.4805	8.78	810.56	1.5	ANNUAL	CNST	5
592965.4	4152048	107.0696	8.73	810.56	1.5	ANNUAL	CNST	5
592985.4	4152048	63.34914	9.05	810.56	1.5	ANNUAL	CNST	5
593005.4	4152048	39.23619	9.23	810.56	1.5	ANNUAL	CNST	5
593025.4	4152048	26.43161	9.14	810.56	1.5	ANNUAL	CNST	5
593045.4	4152048	19.05092	8.83	810.56	1.5	ANNUAL	CNST	5
593065.4	4152048	14.20592	9.12	810.56	1.5	ANNUAL	CNST	5
593085.4	4152048	11.01677	9.37	810.56	1.5	ANNUAL	CNST	5
593105.4	4152048	8.86302	9.22	810.56	1.5	ANNUAL	CNST	5
593125.4	4152048	7.22367	9.66	810.56	1.5	ANNUAL	CNST	5
593145.4	4152048	6.02497	9.87	810.56	1.5	ANNUAL	CNST	5
593165.4	4152048	5.12336	9.81	810.56	1.5	ANNUAL	CNST	5
593185.4	4152048	4.41193	9.76	810.56	1.5	ANNUAL	CNST	5
593205.4	4152048	3.83872	9.76	810.56	1.5	ANNUAL	CNST	5
593225.4	4152048	3.37825	9.59	810.56	1.5	ANNUAL	CNST	5
593245.4	4152048	2.99855	9.38	810.56	1.5	ANNUAL	CNST	5
593265.4	4152048	2.68483	9.01	810.56	1.5	ANNUAL	CNST	5
593285.4	4152048	2.41258	8.92	810.56	1.5	ANNUAL	CNST	5
592545.4	4152068	3.91588	7.88	810.56	1.5	ANNUAL	CNST	5
592565.4	4152068	4.45877	8.11	810.56	1.5	ANNUAL	CNST	5
592585.4	4152068	5.12891	8.22	810.56	1.5	ANNUAL	CNST	5
592605.4	4152068	5.96355	8.34	810.56	1.5	ANNUAL	CNST	5
592625.4	4152068	7.01906	8.45	810.56	1.5	ANNUAL	CNST	5
592645.4	4152068	8.37723	8.51	810.56	1.5	ANNUAL	CNST	5
592665.4	4152068	10.16033	8.44	810.56	1.5	ANNUAL	CNST	5
592685.4	4152068	12.53109	8.39	810.56	1.5	ANNUAL	CNST	5
592705.4	4152068	15.72096	8.5	810.56	1.5	ANNUAL	CNST	5
592725.4	4152068	20.14136	8.36	810.56	1.5	ANNUAL	CNST	5
592745.4	4152068	26.39847	6.55	810.56	1.5	ANNUAL	CNST	5
592765.4	4152068	34.81844	8.4	810.56	1.5	ANNUAL	CNST	5
592785.4	4152068	46.74414	8.37	810.56	1.5	ANNUAL	CNST	5
592805.4	4152068	62.60829	8.9	810.56	1.5	ANNUAL	CNST	5
592825.4	4152068	84.19094	8.75	810.56	1.5	ANNUAL	CNST	5
592845.4	4152068	110.4118	8.66	810.56	1.5	ANNUAL	CNST	5
592865.4	4152068	135.3402	8.73	810.56	1.5	ANNUAL	CNST	5
592885.4	4152068	149.5867	8.62	810.56	1.5	ANNUAL	CNST	5
592905.4	4152068	149.0727	8.82	810.56	1.5	ANNUAL	CNST	5
592925.4	4152068	134.0896	8.91	810.56	1.5	ANNUAL	CNST	5
592945.4	4152068	96.21711	8.73	810.56	1.5	ANNUAL	CNST	5
592965.4	4152068	58.03128	8.96	810.56	1.5	ANNUAL	CNST	5
592985.4	4152068	35.90036	8.82	810.56	1.5	ANNUAL	CNST	5
593005.4	4152068	24.31703	8.85	810.56	1.5	ANNUAL	CNST	5
593025.4	4152068	17.60476	8.93	810.56	1.5	ANNUAL	CNST	5
593045.4	4152068	13.38819	8.91	810.56	1.5	ANNUAL	CNST	5
593065.4	4152068	10.47891	9.18	810.56	1.5	ANNUAL	CNST	5
593085.4	4152068	8.43002	9.46	810.56	1.5	ANNUAL	CNST	5
593105.4	4152068	6.92593	9.81	810.56	1.5	ANNUAL	CNST	5
593125.4	4152068	5.81939	9.86	810.56	1.5	ANNUAL	CNST	5
593145.4	4152068	4.96494	9.85	810.56	1.5	ANNUAL	CNST	5
593165.4	4152068	4.28886	9.82	810.56	1.5	ANNUAL	CNST	5
593185.4	4152068	3.7437	9.79	810.56	1.5	ANNUAL	CNST	5
593205.4	4152068	3.29564	9.82	810.56	1.5	ANNUAL	CNST	5
593225.4	4152068	2.92501	9.84	810.56	1.5	ANNUAL	CNST	5
593245.4	4152068	2.61614	9.8	810.56	1.5	ANNUAL	CNST	5
593265.4	4152068	2.35922	9.54	810.56	1.5	ANNUAL	CNST	5
593285.4	4152068	2.1253	10.07	810.56	1.5	ANNUAL	CNST	5
592545.4	4152088	4.50524	8.62	810.56	1.5	ANNUAL	CNST	5

592565.4	4152088	5.17216	8.46	810.56	1.5	ANNUAL	CNST	5
592585.4	4152088	5.99684	8.22	810.56	1.5	ANNUAL	CNST	5
592605.4	4152088	7.01951	8.15	810.56	1.5	ANNUAL	CNST	5
592625.4	4152088	8.3036	8.2	810.56	1.5	ANNUAL	CNST	5
592645.4	4152088	9.93581	8.33	810.56	1.5	ANNUAL	CNST	5
592665.4	4152088	12.04393	8.38	810.56	1.5	ANNUAL	CNST	5
592685.4	4152088	14.80842	8.21	810.56	1.5	ANNUAL	CNST	5
592705.4	4152088	18.41958	8.22	810.56	1.5	ANNUAL	CNST	5
592725.4	4152088	23.3164	7.01	810.56	1.5	ANNUAL	CNST	5
592745.4	4152088	29.45079	8.19	810.56	1.5	ANNUAL	CNST	5
592765.4	4152088	37.54751	8.42	810.56	1.5	ANNUAL	CNST	5
592785.4	4152088	47.81202	8.73	810.56	1.5	ANNUAL	CNST	5
592805.4	4152088	60.45626	8.94	810.56	1.5	ANNUAL	CNST	5
592825.4	4152088	75.29972	8.91	810.56	1.5	ANNUAL	CNST	5
592845.4	4152088	91.02331	8.71	810.56	1.5	ANNUAL	CNST	5
592865.4	4152088	104.2339	8.74	810.56	1.5	ANNUAL	CNST	5
592885.4	4152088	110.9292	8.59	810.56	1.5	ANNUAL	CNST	5
592905.4	4152088	105.2375	8.7	810.56	1.5	ANNUAL	CNST	5
592925.4	4152088	83.88785	8.76	810.56	1.5	ANNUAL	CNST	5
592945.4	4152088	50.39895	8.84	810.56	1.5	ANNUAL	CNST	5
592965.4	4152088	32.01063	8.91	810.56	1.5	ANNUAL	CNST	5
592985.4	4152088	22.21433	8.94	810.56	1.5	ANNUAL	CNST	5
593005.4	4152088	16.44226	8.97	810.56	1.5	ANNUAL	CNST	5
593025.4	4152088	12.72157	8.98	810.56	1.5	ANNUAL	CNST	5
593045.4	4152088	10.13541	9.02	810.56	1.5	ANNUAL	CNST	5
593065.4	4152088	8.23537	9.25	810.56	1.5	ANNUAL	CNST	5
593085.4	4152088	6.81445	9.53	810.56	1.5	ANNUAL	CNST	5
593105.4	4152088	5.73379	9.76	810.56	1.5	ANNUAL	CNST	5
593125.4	4152088	4.901	9.82	810.56	1.5	ANNUAL	CNST	5
593145.4	4152088	4.24061	9.82	810.56	1.5	ANNUAL	CNST	5
593165.4	4152088	3.70599	9.82	810.56	1.5	ANNUAL	CNST	5
593185.4	4152088	3.26837	9.79	810.56	1.5	ANNUAL	CNST	5
593205.4	4152088	2.90307	9.83	810.56	1.5	ANNUAL	CNST	5
593225.4	4152088	2.59585	9.91	810.56	1.5	ANNUAL	CNST	5
593245.4	4152088	2.34075	9.74	810.56	1.5	ANNUAL	CNST	5
593265.4	4152088	2.11832	9.81	810.56	1.5	ANNUAL	CNST	5
593285.4	4152088	1.92364	10.11	810.56	1.5	ANNUAL	CNST	5
592545.4	4152108	5.16497	8.8	810.56	1.5	ANNUAL	CNST	5
592565.4	4152108	5.94882	8.65	810.56	1.5	ANNUAL	CNST	5
592585.4	4152108	6.90305	8.71	810.56	1.5	ANNUAL	CNST	5
592605.4	4152108	8.0854	8.66	810.56	1.5	ANNUAL	CNST	5
592625.4	4152108	9.55884	8.57	810.56	1.5	ANNUAL	CNST	5
592645.4	4152108	11.40805	8.43	810.56	1.5	ANNUAL	CNST	5
592665.4	4152108	13.71958	8.53	810.56	1.5	ANNUAL	CNST	5
592685.4	4152108	16.652	8.44	810.56	1.5	ANNUAL	CNST	5
592705.4	4152108	20.37596	8.13	810.56	1.5	ANNUAL	CNST	5
592725.4	4152108	25.1064	6.76	810.56	1.5	ANNUAL	CNST	5
592745.4	4152108	30.64173	8.52	810.56	1.5	ANNUAL	CNST	5
592765.4	4152108	37.5761	8.35	810.56	1.5	ANNUAL	CNST	5
592785.4	4152108	45.4227	8.79	810.56	1.5	ANNUAL	CNST	5
592805.4	4152108	54.20344	8.78	810.56	1.5	ANNUAL	CNST	5
592825.4	4152108	63.14752	8.59	810.56	1.5	ANNUAL	CNST	5
592845.4	4152108	71.2975	7.88	810.56	1.5	ANNUAL	CNST	5
592865.4	4152108	75.59912	7.82	810.56	1.5	ANNUAL	CNST	5
592885.4	4152108	72.84705	8.72	810.56	1.5	ANNUAL	CNST	5
592905.4	4152108	63.53456	8.76	810.56	1.5	ANNUAL	CNST	5
592925.4	4152108	47.8659	8.83	810.56	1.5	ANNUAL	CNST	5
592945.4	4152108	32.02991	8.99	810.56	1.5	ANNUAL	CNST	5
592965.4	4152108	21.87809	9.06	810.56	1.5	ANNUAL	CNST	5
592985.4	4152108	16.03637	9.15	810.56	1.5	ANNUAL	CNST	5
593005.4	4152108	12.45674	8.98	810.56	1.5	ANNUAL	CNST	5
593025.4	4152108	9.9912	8.99	810.56	1.5	ANNUAL	CNST	5
593045.4	4152108	8.20441	8.98	810.56	1.5	ANNUAL	CNST	5

593065.4	4152108	6.84013	9.1	810.56	1.5	ANNUAL	CNST	5
593085.4	4152108	5.76608	9.46	810.56	1.5	ANNUAL	CNST	5
593105.4	4152108	4.92746	9.71	810.56	1.5	ANNUAL	CNST	5
593125.4	4152108	4.26654	9.74	810.56	1.5	ANNUAL	CNST	5
593145.4	4152108	3.728	9.8	810.56	1.5	ANNUAL	CNST	5
593165.4	4152108	3.28639	9.82	810.56	1.5	ANNUAL	CNST	5
593185.4	4152108	2.92051	9.79	810.56	1.5	ANNUAL	CNST	5
593205.4	4152108	2.61145	9.84	810.56	1.5	ANNUAL	CNST	5
593225.4	4152108	2.34923	9.92	810.56	1.5	ANNUAL	CNST	5
593245.4	4152108	2.12992	9.72	810.56	1.5	ANNUAL	CNST	5
593265.4	4152108	1.93673	9.81	810.56	1.5	ANNUAL	CNST	5
592545.4	4152128	5.85528	8.67	810.56	1.5	ANNUAL	CNST	5
592565.4	4152128	6.74127	8.54	810.56	1.5	ANNUAL	CNST	5
592585.4	4152128	7.81025	8.54	810.56	1.5	ANNUAL	CNST	5
592605.4	4152128	9.11096	8.52	810.56	1.5	ANNUAL	CNST	5
592625.4	4152128	10.69579	8.54	810.56	1.5	ANNUAL	CNST	5
592645.4	4152128	12.6372	8.46	810.56	1.5	ANNUAL	CNST	5
592665.4	4152128	15.0035	8.42	810.56	1.5	ANNUAL	CNST	5
592685.4	4152128	17.87409	8.41	810.56	1.5	ANNUAL	CNST	5
592705.4	4152128	21.43805	7.16	810.56	1.5	ANNUAL	CNST	5
592725.4	4152128	25.44298	8.16	810.56	1.5	ANNUAL	CNST	5
592745.4	4152128	30.08579	8.55	810.56	1.5	ANNUAL	CNST	5
592765.4	4152128	35.3568	8.37	810.56	1.5	ANNUAL	CNST	5
592785.4	4152128	40.88495	8.28	810.56	1.5	ANNUAL	CNST	5
592805.4	4152128	46.13544	8.39	810.56	1.5	ANNUAL	CNST	5
592825.4	4152128	50.47621	8.42	810.56	1.5	ANNUAL	CNST	5
592845.4	4152128	52.82467	8.59	810.56	1.5	ANNUAL	CNST	5
592865.4	4152128	52.07758	8.86	810.56	1.5	ANNUAL	CNST	5
592885.4	4152128	47.90285	8.66	810.56	1.5	ANNUAL	CNST	5
592905.4	4152128	40.05324	8.79	810.56	1.5	ANNUAL	CNST	5
592925.4	4152128	30.65629	8.9	810.56	1.5	ANNUAL	CNST	5
592945.4	4152128	22.1325	9.07	810.56	1.5	ANNUAL	CNST	5
592965.4	4152128	16.1416	9.07	810.56	1.5	ANNUAL	CNST	5
592985.4	4152128	12.30335	9.36	810.56	1.5	ANNUAL	CNST	5
593005.4	4152128	9.85182	9.35	810.56	1.5	ANNUAL	CNST	5
593025.4	4152128	8.15285	9.1	810.56	1.5	ANNUAL	CNST	5
593045.4	4152128	6.86308	8.96	810.56	1.5	ANNUAL	CNST	5
593065.4	4152128	5.83945	9.01	810.56	1.5	ANNUAL	CNST	5
593085.4	4152128	5.00353	9.38	810.56	1.5	ANNUAL	CNST	5
593105.4	4152128	4.34238	9.41	810.56	1.5	ANNUAL	CNST	5
593125.4	4152128	3.79676	9.52	810.56	1.5	ANNUAL	CNST	5
593145.4	4152128	3.34756	9.55	810.56	1.5	ANNUAL	CNST	5
593165.4	4152128	2.97038	9.66	810.56	1.5	ANNUAL	CNST	5
593185.4	4152128	2.65424	9.72	810.56	1.5	ANNUAL	CNST	5
593205.4	4152128	2.38609	9.79	810.56	1.5	ANNUAL	CNST	5
593225.4	4152128	2.1579	9.81	810.56	1.5	ANNUAL	CNST	5
593245.4	4152128	1.96466	9.6	810.56	1.5	ANNUAL	CNST	5
593265.4	4152128	1.7943	9.62	810.56	1.5	ANNUAL	CNST	5
592565.4	4152148	7.48147	8.32	810.56	1.5	ANNUAL	CNST	5
592585.4	4152148	8.61698	8.38	810.56	1.5	ANNUAL	CNST	5
592605.4	4152148	9.97158	8.38	810.56	1.5	ANNUAL	CNST	5
592625.4	4152148	11.5848	8.34	810.56	1.5	ANNUAL	CNST	5
592645.4	4152148	13.4967	8.3	810.56	1.5	ANNUAL	CNST	5
592665.4	4152148	15.73361	8.44	810.56	1.5	ANNUAL	CNST	5
592685.4	4152148	18.35064	8.35	810.56	1.5	ANNUAL	CNST	5
592705.4	4152148	21.39132	6.58	810.56	1.5	ANNUAL	CNST	5
592725.4	4152148	24.60313	8.64	810.56	1.5	ANNUAL	CNST	5
592745.4	4152148	28.15152	8.58	810.56	1.5	ANNUAL	CNST	5
592765.4	4152148	31.74018	8.56	810.56	1.5	ANNUAL	CNST	5
592785.4	4152148	35.15242	8.28	810.56	1.5	ANNUAL	CNST	5
592805.4	4152148	37.85755	8.26	810.56	1.5	ANNUAL	CNST	5
592825.4	4152148	39.29673	8.58	810.56	1.5	ANNUAL	CNST	5
592845.4	4152148	39.18641	8.62	810.56	1.5	ANNUAL	CNST	5

592865.4	4152148	36.95136	8.91	810.56	1.5	ANNUAL	CNST	5
592885.4	4152148	32.86122	8.91	810.56	1.5	ANNUAL	CNST	5
592905.4	4152148	27.40962	8.87	810.56	1.5	ANNUAL	CNST	5
592925.4	4152148	21.56396	8.96	810.56	1.5	ANNUAL	CNST	5
592945.4	4152148	16.39597	8.95	810.56	1.5	ANNUAL	CNST	5
592965.4	4152148	12.45011	9.25	810.56	1.5	ANNUAL	CNST	5
592985.4	4152148	9.83108	9.27	810.56	1.5	ANNUAL	CNST	5
593005.4	4152148	8.03456	9.53	810.56	1.5	ANNUAL	CNST	5
593025.4	4152148	6.76812	9.56	810.56	1.5	ANNUAL	CNST	5
593045.4	4152148	5.8143	9.35	810.56	1.5	ANNUAL	CNST	5
593065.4	4152148	5.03357	9.41	810.56	1.5	ANNUAL	CNST	5
593085.4	4152148	4.38666	9.6	810.56	1.5	ANNUAL	CNST	5
593105.4	4152148	3.85884	9.5	810.56	1.5	ANNUAL	CNST	5
593125.4	4152148	3.41019	9.56	810.56	1.5	ANNUAL	CNST	5
593145.4	4152148	3.03668	9.4	810.56	1.5	ANNUAL	CNST	5
593165.4	4152148	2.71436	9.47	810.56	1.5	ANNUAL	CNST	5
593185.4	4152148	2.44145	9.43	810.56	1.5	ANNUAL	CNST	5
593205.4	4152148	2.20529	9.53	810.56	1.5	ANNUAL	CNST	5
593225.4	4152148	2.00359	9.5	810.56	1.5	ANNUAL	CNST	5
593245.4	4152148	1.82997	9.36	810.56	1.5	ANNUAL	CNST	5
593265.4	4152148	1.67171	9.9	810.56	1.5	ANNUAL	CNST	5
592565.4	4152168	8.095	8.51	810.56	1.5	ANNUAL	CNST	5
592585.4	4152168	9.24875	8.39	810.56	1.5	ANNUAL	CNST	5
592605.4	4152168	10.58812	8.33	810.56	1.5	ANNUAL	CNST	5
592625.4	4152168	12.13994	8.19	810.56	1.5	ANNUAL	CNST	5
592645.4	4152168	13.90694	8.27	810.56	1.5	ANNUAL	CNST	5
592665.4	4152168	15.88507	8.6	810.56	1.5	ANNUAL	CNST	5
592685.4	4152168	18.14022	8.09	810.56	1.5	ANNUAL	CNST	5
592705.4	4152168	20.52876	8.19	810.56	1.5	ANNUAL	CNST	5
592725.4	4152168	22.95874	8.68	810.56	1.5	ANNUAL	CNST	5
592745.4	4152168	25.41514	8.6	810.56	1.5	ANNUAL	CNST	5
592765.4	4152168	27.63811	8.6	810.56	1.5	ANNUAL	CNST	5
592785.4	4152168	29.41911	8.53	810.56	1.5	ANNUAL	CNST	5
592805.4	4152168	30.47939	8.48	810.56	1.5	ANNUAL	CNST	5
592825.4	4152168	30.52372	8.6	810.56	1.5	ANNUAL	CNST	5
592845.4	4152168	29.37166	8.85	810.56	1.5	ANNUAL	CNST	5
592865.4	4152168	27.14948	8.71	810.56	1.5	ANNUAL	CNST	5
592885.4	4152168	23.91343	8.64	810.56	1.5	ANNUAL	CNST	5
592905.4	4152168	20.03536	8.85	810.56	1.5	ANNUAL	CNST	5
592925.4	4152168	16.13712	8.98	810.56	1.5	ANNUAL	CNST	5
592945.4	4152168	12.70822	8.89	810.56	1.5	ANNUAL	CNST	5
592965.4	4152168	9.95149	9.37	810.56	1.5	ANNUAL	CNST	5
592985.4	4152168	8.05613	9.27	810.56	1.5	ANNUAL	CNST	5
593005.4	4152168	6.68603	9.78	810.56	1.5	ANNUAL	CNST	5
593025.4	4152168	5.71529	9.96	810.56	1.5	ANNUAL	CNST	5
593045.4	4152168	4.9844	9.8	810.56	1.5	ANNUAL	CNST	5
593065.4	4152168	4.38383	9.77	810.56	1.5	ANNUAL	CNST	5
593085.4	4152168	3.87766	9.81	810.56	1.5	ANNUAL	CNST	5
593105.4	4152168	3.44988	9.74	810.56	1.5	ANNUAL	CNST	5
593125.4	4152168	3.08029	9.76	810.56	1.5	ANNUAL	CNST	5
593145.4	4152168	2.76511	9.63	810.56	1.5	ANNUAL	CNST	5
593165.4	4152168	2.49054	9.62	810.56	1.5	ANNUAL	CNST	5
593185.4	4152168	2.25426	9.52	810.56	1.5	ANNUAL	CNST	5
593205.4	4152168	2.04777	9.52	810.56	1.5	ANNUAL	CNST	5
593225.4	4152168	1.87041	9.3	810.56	1.5	ANNUAL	CNST	5
593245.4	4152168	1.71292	9.31	810.56	1.5	ANNUAL	CNST	5
592585.4	4152188	9.65727	8.71	810.56	1.5	ANNUAL	CNST	5
592605.4	4152188	10.92127	8.45	810.56	1.5	ANNUAL	CNST	5
592625.4	4152188	12.3265	8.45	810.56	1.5	ANNUAL	CNST	5
592645.4	4152188	13.87748	8.45	810.56	1.5	ANNUAL	CNST	5
592665.4	4152188	15.55465	8.47	810.56	1.5	ANNUAL	CNST	5
592685.4	4152188	17.31861	8.53	810.56	1.5	ANNUAL	CNST	5
592705.4	4152188	19.0912	8.77	810.56	1.5	ANNUAL	CNST	5

592725.4	4152188	20.83568	8.64	810.56	1.5	ANNUAL	CNST	5
592745.4	4152188	22.38856	8.61	810.56	1.5	ANNUAL	CNST	5
592765.4	4152188	23.59818	8.7	810.56	1.5	ANNUAL	CNST	5
592785.4	4152188	24.34546	8.69	810.56	1.5	ANNUAL	CNST	5
592805.4	4152188	24.47371	8.71	810.56	1.5	ANNUAL	CNST	5
592825.4	4152188	23.88539	8.76	810.56	1.5	ANNUAL	CNST	5
592845.4	4152188	22.55352	8.84	810.56	1.5	ANNUAL	CNST	5
592865.4	4152188	20.5506	8.93	810.56	1.5	ANNUAL	CNST	5
592885.4	4152188	18.06667	8.93	810.56	1.5	ANNUAL	CNST	5
592905.4	4152188	15.34488	8.83	810.56	1.5	ANNUAL	CNST	5
592925.4	4152188	12.63218	8.78	810.56	1.5	ANNUAL	CNST	5
592945.4	4152188	10.18739	8.85	810.56	1.5	ANNUAL	CNST	5
592965.4	4152188	8.21295	8.99	810.56	1.5	ANNUAL	CNST	5
592985.4	4152188	6.73909	9.32	810.56	1.5	ANNUAL	CNST	5
593005.4	4152188	5.64891	10.25	810.56	1.5	ANNUAL	CNST	5
593025.4	4152188	4.89496	10.32	810.56	1.5	ANNUAL	CNST	5
593045.4	4152188	4.31954	10.2	810.56	1.5	ANNUAL	CNST	5
593065.4	4152188	3.84876	10.09	810.56	1.5	ANNUAL	CNST	5
593085.4	4152188	3.44785	10.02	810.56	1.5	ANNUAL	CNST	5
593105.4	4152188	3.0999	9.97	810.56	1.5	ANNUAL	CNST	5
593125.4	4152188	2.79523	9.94	810.56	1.5	ANNUAL	CNST	5
593145.4	4152188	2.52886	9.86	810.56	1.5	ANNUAL	CNST	5
593165.4	4152188	2.29416	9.83	810.56	1.5	ANNUAL	CNST	5
593185.4	4152188	2.08853	9.76	810.56	1.5	ANNUAL	CNST	5
593205.4	4152188	1.90779	9.68	810.56	1.5	ANNUAL	CNST	5
593225.4	4152188	1.74983	9.47	810.56	1.5	ANNUAL	CNST	5
593245.4	4152188	1.60666	9.69	810.56	1.5	ANNUAL	CNST	5
592585.4	4152208	9.8462	8.8	810.56	1.5	ANNUAL	CNST	5
592605.4	4152208	10.98242	8.5	810.56	1.5	ANNUAL	CNST	5
592625.4	4152208	12.1881	8.79	810.56	1.5	ANNUAL	CNST	5
592645.4	4152208	13.48508	8.67	810.56	1.5	ANNUAL	CNST	5
592665.4	4152208	14.83975	8.35	810.56	1.5	ANNUAL	CNST	5
592685.4	4152208	16.15649	8.61	810.56	1.5	ANNUAL	CNST	5
592705.4	4152208	17.40419	8.82	810.56	1.5	ANNUAL	CNST	5
592725.4	4152208	18.53623	8.68	810.56	1.5	ANNUAL	CNST	5
592745.4	4152208	19.40953	8.77	810.56	1.5	ANNUAL	CNST	5
592765.4	4152208	19.95376	8.85	810.56	1.5	ANNUAL	CNST	5
592785.4	4152208	20.09645	8.87	810.56	1.5	ANNUAL	CNST	5
592805.4	4152208	19.76949	8.93	810.56	1.5	ANNUAL	CNST	5
592825.4	4152208	18.95922	9	810.56	1.5	ANNUAL	CNST	5
592845.4	4152208	17.70242	9.02	810.56	1.5	ANNUAL	CNST	5
592865.4	4152208	16.06562	9.04	810.56	1.5	ANNUAL	CNST	5
592885.4	4152208	14.16239	9.07	810.56	1.5	ANNUAL	CNST	5
592905.4	4152208	12.12516	9.2	810.56	1.5	ANNUAL	CNST	5
592925.4	4152208	10.14094	9.19	810.56	1.5	ANNUAL	CNST	5
592945.4	4152208	8.35307	9.16	810.56	1.5	ANNUAL	CNST	5
592965.4	4152208	6.86541	9.33	810.56	1.5	ANNUAL	CNST	5
592985.4	4152208	5.70881	9.87	810.56	1.5	ANNUAL	CNST	5
593005.4	4152208	4.83872	10.87	810.56	1.5	ANNUAL	CNST	5
593025.4	4152208	4.23611	10.86	810.56	1.5	ANNUAL	CNST	5
593045.4	4152208	3.75759	11.23	810.56	1.5	ANNUAL	CNST	5
593065.4	4152208	3.37959	11.22	810.56	1.5	ANNUAL	CNST	5
593085.4	4152208	3.05765	11.21	810.56	1.5	ANNUAL	CNST	5
593105.4	4152208	2.78676	10.67	810.56	1.5	ANNUAL	CNST	5
593125.4	4152208	2.54246	10.25	810.56	1.5	ANNUAL	CNST	5
593145.4	4152208	2.32028	10.05	810.56	1.5	ANNUAL	CNST	5
593165.4	4152208	2.11922	10.05	810.56	1.5	ANNUAL	CNST	5
593185.4	4152208	1.94044	10.02	810.56	1.5	ANNUAL	CNST	5
593205.4	4152208	1.78228	9.88	810.56	1.5	ANNUAL	CNST	5
593225.4	4152208	1.64332	9.5	810.56	1.5	ANNUAL	CNST	5
592605.4	4152228	10.80569	8.45	810.56	1.5	ANNUAL	CNST	5
592625.4	4152228	11.8089	8.67	810.56	1.5	ANNUAL	CNST	5
592645.4	4152228	12.83486	8.73	810.56	1.5	ANNUAL	CNST	5

592665.4	4152228	13.91951	6.99	810.56	1.5	ANNUAL	CNST	5
592685.4	4152228	14.79166	8.8	810.56	1.5	ANNUAL	CNST	5
592705.4	4152228	15.63333	8.7	810.56	1.5	ANNUAL	CNST	5
592725.4	4152228	16.29627	8.67	810.56	1.5	ANNUAL	CNST	5
592745.4	4152228	16.7237	8.67	810.56	1.5	ANNUAL	CNST	5
592765.4	4152228	16.84305	8.91	810.56	1.5	ANNUAL	CNST	5
592785.4	4152228	16.67026	8.89	810.56	1.5	ANNUAL	CNST	5
592805.4	4152228	16.15627	8.98	810.56	1.5	ANNUAL	CNST	5
592825.4	4152228	15.31789	9.14	810.56	1.5	ANNUAL	CNST	5
592845.4	4152228	14.20949	9.22	810.56	1.5	ANNUAL	CNST	5
592865.4	4152228	12.87823	9.31	810.56	1.5	ANNUAL	CNST	5
592885.4	4152228	11.3999	9.38	810.56	1.5	ANNUAL	CNST	5
592905.4	4152228	9.8575	9.46	810.56	1.5	ANNUAL	CNST	5
592925.4	4152228	8.35163	9.54	810.56	1.5	ANNUAL	CNST	5
592945.4	4152228	6.98077	9.7	810.56	1.5	ANNUAL	CNST	5
592965.4	4152228	5.82372	9.99	810.56	1.5	ANNUAL	CNST	5
592985.4	4152228	4.9102	10.43	810.56	1.5	ANNUAL	CNST	5
593005.4	4152228	4.21779	11.02	810.56	1.5	ANNUAL	CNST	5
593025.4	4152228	3.69353	11.79	810.56	1.5	ANNUAL	CNST	5
593045.4	4152228	3.18451	12.68	810.56	1.5	ANNUAL	CNST	5
593065.4	4152228	2.86588	13.63	810.56	1.5	ANNUAL	CNST	5
593085.4	4152228	2.59367	14.49	810.56	1.5	ANNUAL	CNST	5
593105.4	4152228	2.36626	14.95	810.56	1.5	ANNUAL	CNST	5
593125.4	4152228	2.18744	14.64	810.56	1.5	ANNUAL	CNST	5
593145.4	4152228	2.04362	13.55	810.56	1.5	ANNUAL	CNST	5
593165.4	4152228	1.94384	11.79	810.56	1.5	ANNUAL	CNST	5
593185.4	4152228	1.80148	10.78	810.56	1.5	ANNUAL	CNST	5
593205.4	4152228	1.67072	9.81	810.56	1.5	ANNUAL	CNST	5
593225.4	4152228	1.54683	9.47	810.56	1.5	ANNUAL	CNST	5
592605.4	4152248	10.4219	8.83	810.56	1.5	ANNUAL	CNST	5
592625.4	4152248	11.22816	8.83	810.56	1.5	ANNUAL	CNST	5
592645.4	4152248	12.04941	7.98	810.56	1.5	ANNUAL	CNST	5
592665.4	4152248	12.77577	8.16	810.56	1.5	ANNUAL	CNST	5
592685.4	4152248	13.37506	8.91	810.56	1.5	ANNUAL	CNST	5
592705.4	4152248	13.88986	8.78	810.56	1.5	ANNUAL	CNST	5
592725.4	4152248	14.22693	8.77	810.56	1.5	ANNUAL	CNST	5
592745.4	4152248	14.3529	8.86	810.56	1.5	ANNUAL	CNST	5
592765.4	4152248	14.26633	8.78	810.56	1.5	ANNUAL	CNST	5
592785.4	4152248	13.93971	8.78	810.56	1.5	ANNUAL	CNST	5
592805.4	4152248	13.37355	8.93	810.56	1.5	ANNUAL	CNST	5
592825.4	4152248	12.58989	9.21	810.56	1.5	ANNUAL	CNST	5
592845.4	4152248	11.63613	9.44	810.56	1.5	ANNUAL	CNST	5
592865.4	4152248	10.55797	9.54	810.56	1.5	ANNUAL	CNST	5
592885.4	4152248	9.39357	9.59	810.56	1.5	ANNUAL	CNST	5
592905.4	4152248	8.19438	9.64	810.56	1.5	ANNUAL	CNST	5
592925.4	4152248	7.02736	9.68	810.56	1.5	ANNUAL	CNST	5
592945.4	4152248	5.95886	9.78	810.56	1.5	ANNUAL	CNST	5
592965.4	4152248	5.04533	9.92	810.56	1.5	ANNUAL	CNST	5
592985.4	4152248	4.31348	10	810.56	1.5	ANNUAL	CNST	5
593005.4	4152248	3.73603	10.53	810.56	1.5	ANNUAL	CNST	5
593025.4	4152248	3.31509	10.37	810.56	1.5	ANNUAL	CNST	5
593045.4	4152248	2.96432	11.37	810.56	1.5	ANNUAL	CNST	5
593065.4	4152248	2.60578	12.79	810.56	1.5	ANNUAL	CNST	5
593085.4	4152248	2.35435	14.34	810.56	1.5	ANNUAL	CNST	5
593105.4	4152248	2.13181	15.76	810.56	1.5	ANNUAL	CNST	5
593125.4	4152248	1.93963	16.85	810.56	1.5	ANNUAL	CNST	5
593145.4	4152248	1.77366	17.63	810.56	1.5	ANNUAL	CNST	5
593165.4	4152248	1.64231	17.75	810.56	1.5	ANNUAL	CNST	5
593185.4	4152248	1.55448	16.62	810.56	1.5	ANNUAL	CNST	5
593205.4	4152248	1.51662	12.85	810.56	1.5	ANNUAL	CNST	5
592625.4	4152268	10.53316	8.87	810.56	1.5	ANNUAL	CNST	5
592645.4	4152268	11.16384	6.8	810.56	1.5	ANNUAL	CNST	5
592665.4	4152268	11.60301	8.9	810.56	1.5	ANNUAL	CNST	5

592685.4	4152268	12.00406	8.84	810.56	1.5	ANNUAL	CNST	5
592705.4	4152268	12.27327	8.86	810.56	1.5	ANNUAL	CNST	5
592725.4	4152268	12.38975	8.92	810.56	1.5	ANNUAL	CNST	5
592745.4	4152268	12.34875	8.85	810.56	1.5	ANNUAL	CNST	5
592765.4	4152268	12.13624	8.79	810.56	1.5	ANNUAL	CNST	5
592785.4	4152268	11.75661	8.73	810.56	1.5	ANNUAL	CNST	5
592805.4	4152268	11.22211	8.67	810.56	1.5	ANNUAL	CNST	5
592825.4	4152268	10.55088	8.61	810.56	1.5	ANNUAL	CNST	5
592845.4	4152268	9.754	8.74	810.56	1.5	ANNUAL	CNST	5
592865.4	4152268	8.87177	8.82	810.56	1.5	ANNUAL	CNST	5
592885.4	4152268	7.93552	8.82	810.56	1.5	ANNUAL	CNST	5
592905.4	4152268	6.98002	8.8	810.56	1.5	ANNUAL	CNST	5
592925.4	4152268	6.05114	8.78	810.56	1.5	ANNUAL	CNST	5
592945.4	4152268	5.1946	8.84	810.56	1.5	ANNUAL	CNST	5
592965.4	4152268	4.45131	8.93	810.56	1.5	ANNUAL	CNST	5
592985.4	4152268	3.84272	8.95	810.56	1.5	ANNUAL	CNST	5
593005.4	4152268	3.35659	9.24	810.56	1.5	ANNUAL	CNST	5
593025.4	4152268	2.99271	8.95	810.56	1.5	ANNUAL	CNST	5
593045.4	4152268	2.70472	8.97	810.56	1.5	ANNUAL	CNST	5
593065.4	4152268	2.47372	9.05	810.56	1.5	ANNUAL	CNST	5
593085.4	4152268	2.27542	9.57	810.56	1.5	ANNUAL	CNST	5
593105.4	4152268	2.08737	11.39	810.56	1.5	ANNUAL	CNST	5
593125.4	4152268	1.86332	14.34	810.56	1.5	ANNUAL	CNST	5
593145.4	4152268	1.67125	16.92	810.56	1.5	ANNUAL	CNST	5
593165.4	4152268	1.5192	18.42	810.56	1.5	ANNUAL	CNST	5
593185.4	4152268	1.40817	18.84	810.56	1.5	ANNUAL	CNST	5
592645.4	4152288	10.22964	7.31	810.56	1.5	ANNUAL	CNST	5
592665.4	4152288	10.48841	9.05	810.56	1.5	ANNUAL	CNST	5
592685.4	4152288	10.7195	8.82	810.56	1.5	ANNUAL	CNST	5
592705.4	4152288	10.82762	8.81	810.56	1.5	ANNUAL	CNST	5
592725.4	4152288	10.80798	8.87	810.56	1.5	ANNUAL	CNST	5
592745.4	4152288	10.67603	8.6	810.56	1.5	ANNUAL	CNST	5
592765.4	4152288	10.41248	8.44	810.56	1.5	ANNUAL	CNST	5
592785.4	4152288	10.0283	8.33	810.56	1.5	ANNUAL	CNST	5
592805.4	4152288	9.53142	8.35	810.56	1.5	ANNUAL	CNST	5
592825.4	4152288	8.93527	8.52	810.56	1.5	ANNUAL	CNST	5
592845.4	4152288	8.26384	8.66	810.56	1.5	ANNUAL	CNST	5
592865.4	4152288	7.534	8.77	810.56	1.5	ANNUAL	CNST	5
592885.4	4152288	6.76926	8.79	810.56	1.5	ANNUAL	CNST	5
592905.4	4152288	5.99402	8.8	810.56	1.5	ANNUAL	CNST	5
592925.4	4152288	5.24222	8.8	810.56	1.5	ANNUAL	CNST	5
592945.4	4152288	4.54546	8.89	810.56	1.5	ANNUAL	CNST	5
592965.4	4152288	3.9368	8.88	810.56	1.5	ANNUAL	CNST	5
592985.4	4152288	3.4272	8.89	810.56	1.5	ANNUAL	CNST	5
593005.4	4152288	3.01656	8.94	810.56	1.5	ANNUAL	CNST	5
593025.4	4152288	2.69427	8.99	810.56	1.5	ANNUAL	CNST	5
593045.4	4152288	2.44265	9.02	810.56	1.5	ANNUAL	CNST	5
593065.4	4152288	2.24185	9.08	810.56	1.5	ANNUAL	CNST	5
593085.4	4152288	2.07631	9.11	810.56	1.5	ANNUAL	CNST	5
593105.4	4152288	1.93378	9.12	810.56	1.5	ANNUAL	CNST	5
593125.4	4152288	1.80609	9.16	810.56	1.5	ANNUAL	CNST	5
593145.4	4152288	1.67973	10.37	810.56	1.5	ANNUAL	CNST	5
593165.4	4152288	1.52741	13.53	810.56	1.5	ANNUAL	CNST	5
592665.4	4152308	9.44997	8.97	810.56	1.5	ANNUAL	CNST	5
592685.4	4152308	9.54911	8.88	810.56	1.5	ANNUAL	CNST	5
592705.4	4152308	9.55958	8.62	810.56	1.5	ANNUAL	CNST	5
592725.4	4152308	9.46342	8.56	810.56	1.5	ANNUAL	CNST	5
592745.4	4152308	9.27037	8.49	810.56	1.5	ANNUAL	CNST	5
592765.4	4152308	8.98074	8.54	810.56	1.5	ANNUAL	CNST	5
592785.4	4152308	8.60724	8.61	810.56	1.5	ANNUAL	CNST	5
592805.4	4152308	8.17689	8.24	810.56	1.5	ANNUAL	CNST	5
592825.4	4152308	7.66701	8.26	810.56	1.5	ANNUAL	CNST	5
592845.4	4152308	7.10289	8.27	810.56	1.5	ANNUAL	CNST	5

592865.4	4152308	6.49322	8.37	810.56	1.5	ANNUAL	CNST	5
592885.4	4152308	5.85531	8.54	810.56	1.5	ANNUAL	CNST	5
592905.4	4152308	5.2118	8.74	810.56	1.5	ANNUAL	CNST	5
592925.4	4152308	4.59164	8.84	810.56	1.5	ANNUAL	CNST	5
592945.4	4152308	4.01567	8.99	810.56	1.5	ANNUAL	CNST	5
592965.4	4152308	3.5078	9.02	810.56	1.5	ANNUAL	CNST	5
592985.4	4152308	3.07707	9.01	810.56	1.5	ANNUAL	CNST	5
593005.4	4152308	2.72607	8.89	810.56	1.5	ANNUAL	CNST	5
593025.4	4152308	2.44587	8.78	810.56	1.5	ANNUAL	CNST	5
593045.4	4152308	2.22317	8.8	810.56	1.5	ANNUAL	CNST	5
593065.4	4152308	2.04562	8.84	810.56	1.5	ANNUAL	CNST	5
593085.4	4152308	1.90004	8.89	810.56	1.5	ANNUAL	CNST	5
593105.4	4152308	1.77565	8.98	810.56	1.5	ANNUAL	CNST	5
593125.4	4152308	1.66535	9.08	810.56	1.5	ANNUAL	CNST	5
593145.4	4152308	1.56489	9.15	810.56	1.5	ANNUAL	CNST	5
592685.4	4152328	8.50181	9.05	810.56	1.5	ANNUAL	CNST	5
592705.4	4152328	8.44457	8.75	810.56	1.5	ANNUAL	CNST	5
592725.4	4152328	8.30692	8.57	810.56	1.5	ANNUAL	CNST	5
592745.4	4152328	8.07879	8.93	810.56	1.5	ANNUAL	CNST	5
592765.4	4152328	7.79734	8.91	810.56	1.5	ANNUAL	CNST	5
592785.4	4152328	7.45905	8.83	810.56	1.5	ANNUAL	CNST	5
592805.4	4152328	7.08201	8.3	810.56	1.5	ANNUAL	CNST	5
592825.4	4152328	6.63114	8.65	810.56	1.5	ANNUAL	CNST	5
592845.4	4152328	6.1507	8.67	810.56	1.5	ANNUAL	CNST	5
592865.4	4152328	5.64155	8.6	810.56	1.5	ANNUAL	CNST	5
592885.4	4152328	5.11366	8.53	810.56	1.5	ANNUAL	CNST	5
592905.4	4152328	4.58275	8.5	810.56	1.5	ANNUAL	CNST	5
592925.4	4152328	4.06801	8.51	810.56	1.5	ANNUAL	CNST	5
592945.4	4152328	3.58693	8.63	810.56	1.5	ANNUAL	CNST	5
592965.4	4152328	3.15416	8.89	810.56	1.5	ANNUAL	CNST	5
592985.4	4152328	2.78325	9.04	810.56	1.5	ANNUAL	CNST	5
593005.4	4152328	2.47574	9.11	810.56	1.5	ANNUAL	CNST	5
593025.4	4152328	2.22859	9.02	810.56	1.5	ANNUAL	CNST	5
593045.4	4152328	2.03088	8.98	810.56	1.5	ANNUAL	CNST	5
593065.4	4152328	1.87341	8.89	810.56	1.5	ANNUAL	CNST	5
593085.4	4152328	1.74556	8.74	810.56	1.5	ANNUAL	CNST	5
593105.4	4152328	1.6367	8.73	810.56	1.5	ANNUAL	CNST	5
593125.4	4152328	1.541	8.76	810.56	1.5	ANNUAL	CNST	5
592725.4	4152348	7.32487	8.63	810.56	1.5	ANNUAL	CNST	5
592745.4	4152348	7.09719	8.97	810.56	1.5	ANNUAL	CNST	5
592765.4	4152348	6.82856	9.07	810.56	1.5	ANNUAL	CNST	5
592785.4	4152348	6.52504	8.89	810.56	1.5	ANNUAL	CNST	5
592805.4	4152348	6.19109	8.37	810.56	1.5	ANNUAL	CNST	5
592825.4	4152348	5.79854	8.79	810.56	1.5	ANNUAL	CNST	5
592845.4	4152348	5.38513	8.85	810.56	1.5	ANNUAL	CNST	5
592865.4	4152348	4.94875	8.91	810.56	1.5	ANNUAL	CNST	5
592885.4	4152348	4.49854	9.02	810.56	1.5	ANNUAL	CNST	5
592905.4	4152348	4.05115	9.02	810.56	1.5	ANNUAL	CNST	5
592925.4	4152348	3.61964	8.97	810.56	1.5	ANNUAL	CNST	5
592945.4	4152348	3.218	8.83	810.56	1.5	ANNUAL	CNST	5
592965.4	4152348	2.85572	8.68	810.56	1.5	ANNUAL	CNST	5
592985.4	4152348	2.53747	8.7	810.56	1.5	ANNUAL	CNST	5
593005.4	4152348	2.26566	8.97	810.56	1.5	ANNUAL	CNST	5
593025.4	4152348	2.04273	9.2	810.56	1.5	ANNUAL	CNST	5
593045.4	4152348	1.86457	9.24	810.56	1.5	ANNUAL	CNST	5
593065.4	4152348	1.72303	9.09	810.56	1.5	ANNUAL	CNST	5
593085.4	4152348	1.60827	8.9	810.56	1.5	ANNUAL	CNST	5
593105.4	4152348	1.51148	8.85	810.56	1.5	ANNUAL	CNST	5
592765.4	4152368	6.02776	9.07	810.56	1.5	ANNUAL	CNST	5
592785.4	4152368	5.75469	8.9	810.56	1.5	ANNUAL	CNST	5
592805.4	4152368	5.45807	8.44	810.56	1.5	ANNUAL	CNST	5
592825.4	4152368	5.11629	8.85	810.56	1.5	ANNUAL	CNST	5
592845.4	4152368	4.75643	9.02	810.56	1.5	ANNUAL	CNST	5

592865.4	4152368	4.38159	9.08	810.56	1.5	ANNUAL	CNST	5
592885.4	4152368	3.99698	9.19	810.56	1.5	ANNUAL	CNST	5
592905.4	4152368	3.6166	9.16	810.56	1.5	ANNUAL	CNST	5
592925.4	4152368	3.24898	9.15	810.56	1.5	ANNUAL	CNST	5
592945.4	4152368	2.90519	9.11	810.56	1.5	ANNUAL	CNST	5
592965.4	4152368	2.59225	9.13	810.56	1.5	ANNUAL	CNST	5
592985.4	4152368	2.31814	9	810.56	1.5	ANNUAL	CNST	5
593005.4	4152368	2.08371	8.83	810.56	1.5	ANNUAL	CNST	5
593025.4	4152368	1.88662	8.83	810.56	1.5	ANNUAL	CNST	5
593045.4	4152368	1.72378	9.06	810.56	1.5	ANNUAL	CNST	5
593065.4	4152368	1.59246	9.24	810.56	1.5	ANNUAL	CNST	5
592825.4	4152388	4.5546	8.57	810.56	1.5	ANNUAL	CNST	5
592845.4	4152388	4.24172	8.69	810.56	1.5	ANNUAL	CNST	5
592865.4	4152388	3.91467	8.88	810.56	1.5	ANNUAL	CNST	5
592885.4	4152388	3.58201	9.06	810.56	1.5	ANNUAL	CNST	5
592905.4	4152388	3.25302	9.18	810.56	1.5	ANNUAL	CNST	5
592925.4	4152388	2.93611	9.27	810.56	1.5	ANNUAL	CNST	5
592945.4	4152388	2.63951	9.3	810.56	1.5	ANNUAL	CNST	5
592965.4	4152388	2.36903	9.29	810.56	1.5	ANNUAL	CNST	5
592985.4	4152388	2.12822	9.3	810.56	1.5	ANNUAL	CNST	5
593005.4	4152388	1.91975	9.29	810.56	1.5	ANNUAL	CNST	5

** CONCUNIT ug/m^3
** DEPUNIT g/m^2

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*    AERMOD (23132 ): C:\43990 Fremont Blvd\4399 Fremont Blvd.isc 2/8/2024
*    AERMET ( 18081): 17:03:50
*    MODELIN( OPTIONS USED: RegDFAUL CONC ELEV FLGPOL URBAN ADJ_U*
*    PLOT FILE OF ANNUAL VALUES AVERAGEI ACROSS 5 YEARS FOR SOURCE GROUP: HAUL
*    FOR A TOTAL OF 1147 RECEPTORS.
*    FORMAT: (3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)
*    X Y AVERAGE CONC ZELEV ZHILL ZFLAG AVE GRP NUM YRS NET ID
*
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X	Y	AVERAGE	CONC	ZELEV	ZHILL	ZFLAG	AVE	GRP	NUM	YRS	NET	ID
592825.4	4151648	0.72783	8.06	810.56	1.5	ANNUAL	HAUL		5			
592845.4	4151648	0.75029	7.95	810.56	1.5	ANNUAL	HAUL		5			
592865.4	4151648	0.7735	8	810.56	1.5	ANNUAL	HAUL		5			
592885.4	4151648	0.79816	7.64	810.56	1.5	ANNUAL	HAUL		5			
592905.4	4151648	0.82335	7.61	810.56	1.5	ANNUAL	HAUL		5			
592925.4	4151648	0.84951	7.35	810.56	1.5	ANNUAL	HAUL		5			
592945.4	4151648	0.87611	7.08	810.56	1.5	ANNUAL	HAUL		5			
592965.4	4151648	0.90369	7.2	810.56	1.5	ANNUAL	HAUL		5			
592985.4	4151648	0.93163	7.53	810.56	1.5	ANNUAL	HAUL		5			
592765.4	4151668	0.71108	8.34	810.56	1.5	ANNUAL	HAUL		5			
592785.4	4151668	0.73282	8.35	810.56	1.5	ANNUAL	HAUL		5			
592805.4	4151668	0.75563	8.38	810.56	1.5	ANNUAL	HAUL		5			
592825.4	4151668	0.78028	8.02	810.56	1.5	ANNUAL	HAUL		5			
592845.4	4151668	0.80562	7.88	810.56	1.5	ANNUAL	HAUL		5			
592865.4	4151668	0.83179	7.92	810.56	1.5	ANNUAL	HAUL		5			
592885.4	4151668	0.85902	7.95	810.56	1.5	ANNUAL	HAUL		5			
592905.4	4151668	0.88694	8.13	810.56	1.5	ANNUAL	HAUL		5			
592925.4	4151668	0.91611	8.13	810.56	1.5	ANNUAL	HAUL		5			
592945.4	4151668	0.94648	7.95	810.56	1.5	ANNUAL	HAUL		5			
592965.4	4151668	0.97731	7.86	810.56	1.5	ANNUAL	HAUL		5			
592985.4	4151668	1.00823	7.97	810.56	1.5	ANNUAL	HAUL		5			
593005.4	4151668	1.04031	7.64	810.56	1.5	ANNUAL	HAUL		5			
593025.4	4151668	1.0722	7.32	810.56	1.5	ANNUAL	HAUL		5			
593045.4	4151668	1.10388	7.2	810.56	1.5	ANNUAL	HAUL		5			
592725.4	4151688	0.71658	7.62	810.56	1.5	ANNUAL	HAUL		5			
592745.4	4151688	0.73811	8.11	810.56	1.5	ANNUAL	HAUL		5			
592765.4	4151688	0.7609	8.39	810.56	1.5	ANNUAL	HAUL		5			
592785.4	4151688	0.78548	8.39	810.56	1.5	ANNUAL	HAUL		5			
592805.4	4151688	0.81141	8.36	810.56	1.5	ANNUAL	HAUL		5			
592825.4	4151688	0.83932	8	810.56	1.5	ANNUAL	HAUL		5			
592845.4	4151688	0.86813	7.79	810.56	1.5	ANNUAL	HAUL		5			
592865.4	4151688	0.89787	7.76	810.56	1.5	ANNUAL	HAUL		5			
592885.4	4151688	0.92837	7.96	810.56	1.5	ANNUAL	HAUL		5			
592905.4	4151688	0.95991	8.12	810.56	1.5	ANNUAL	HAUL		5			
592925.4	4151688	0.9928	8.11	810.56	1.5	ANNUAL	HAUL		5			
592945.4	4151688	1.02667	8.03	810.56	1.5	ANNUAL	HAUL		5			
592965.4	4151688	1.06069	8.13	810.56	1.5	ANNUAL	HAUL		5			
592985.4	4151688	1.0949	8.29	810.56	1.5	ANNUAL	HAUL		5			
593005.4	4151688	1.13002	8.25	810.56	1.5	ANNUAL	HAUL		5			
593025.4	4151688	1.16554	8.12	810.56	1.5	ANNUAL	HAUL		5			
593045.4	4151688	1.19894	8.55	810.56	1.5	ANNUAL	HAUL		5			
593065.4	4151688	1.23314	8.68	810.56	1.5	ANNUAL	HAUL		5			
593085.4	4151688	1.26938	8.21	810.56	1.5	ANNUAL	HAUL		5			
592705.4	4151708	0.74063	5.52	810.56	1.5	ANNUAL	HAUL		5			
592725.4	4151708	0.76665	7.74	810.56	1.5	ANNUAL	HAUL		5			
592745.4	4151708	0.79087	8.23	810.56	1.5	ANNUAL	HAUL		5			
592765.4	4151708	0.81725	8.27	810.56	1.5	ANNUAL	HAUL		5			
592785.4	4151708	0.84523	8.26	810.56	1.5	ANNUAL	HAUL		5			
592805.4	4151708	0.87476	8.22	810.56	1.5	ANNUAL	HAUL		5			
592825.4	4151708	0.9063	7.95	810.56	1.5	ANNUAL	HAUL		5			
592845.4	4151708	0.93903	7.77	810.56	1.5	ANNUAL	HAUL		5			
592865.4	4151708	0.97289	7.72	810.56	1.5	ANNUAL	HAUL		5			
592885.4	4151708	1.00758	7.9	810.56	1.5	ANNUAL	HAUL		5			
592905.4	4151708	1.04338	8.04	810.56	1.5	ANNUAL	HAUL		5			
592925.4	4151708	1.08048	8.05	810.56	1.5	ANNUAL	HAUL		5			

592945.4	4151708	1.11868	7.95	810.56	1.5	ANNUAL	HAUL	5
592965.4	4151708	1.15618	8.24	810.56	1.5	ANNUAL	HAUL	5
592985.4	4151708	1.19499	8.23	810.56	1.5	ANNUAL	HAUL	5
593005.4	4151708	1.23409	8.18	810.56	1.5	ANNUAL	HAUL	5
593025.4	4151708	1.27195	8.41	810.56	1.5	ANNUAL	HAUL	5
593045.4	4151708	1.30893	8.74	810.56	1.5	ANNUAL	HAUL	5
593065.4	4151708	1.34768	8.58	810.56	1.5	ANNUAL	HAUL	5
593085.4	4151708	1.3872	8.08	810.56	1.5	ANNUAL	HAUL	5
593105.4	4151708	1.42466	7.69	810.56	1.5	ANNUAL	HAUL	5
593125.4	4151708	1.45939	8.04	810.56	1.5	ANNUAL	HAUL	5
592685.4	4151728	0.7711	7.47	810.56	1.5	ANNUAL	HAUL	5
592705.4	4151728	0.79596	6.87	810.56	1.5	ANNUAL	HAUL	5
592725.4	4151728	0.82323	7.36	810.56	1.5	ANNUAL	HAUL	5
592745.4	4151728	0.8503	8.32	810.56	1.5	ANNUAL	HAUL	5
592765.4	4151728	0.88057	8.3	810.56	1.5	ANNUAL	HAUL	5
592785.4	4151728	0.91283	8.19	810.56	1.5	ANNUAL	HAUL	5
592805.4	4151728	0.94666	8.14	810.56	1.5	ANNUAL	HAUL	5
592825.4	4151728	0.9827	7.89	810.56	1.5	ANNUAL	HAUL	5
592845.4	4151728	1.01981	7.87	810.56	1.5	ANNUAL	HAUL	5
592865.4	4151728	1.05823	7.93	810.56	1.5	ANNUAL	HAUL	5
592885.4	4151728	1.09644	8.42	810.56	1.5	ANNUAL	HAUL	5
592905.4	4151728	1.13852	8.16	810.56	1.5	ANNUAL	HAUL	5
592925.4	4151728	1.1806	8.15	810.56	1.5	ANNUAL	HAUL	5
592945.4	4151728	1.2224	8.37	810.56	1.5	ANNUAL	HAUL	5
592965.4	4151728	1.26502	8.48	810.56	1.5	ANNUAL	HAUL	5
592985.4	4151728	1.30922	8.29	810.56	1.5	ANNUAL	HAUL	5
593005.4	4151728	1.35181	8.42	810.56	1.5	ANNUAL	HAUL	5
593025.4	4151728	1.39342	8.66	810.56	1.5	ANNUAL	HAUL	5
593045.4	4151728	1.43583	8.63	810.56	1.5	ANNUAL	HAUL	5
593065.4	4151728	1.47738	8.61	810.56	1.5	ANNUAL	HAUL	5
593085.4	4151728	1.51856	8.47	810.56	1.5	ANNUAL	HAUL	5
593105.4	4151728	1.55805	8.42	810.56	1.5	ANNUAL	HAUL	5
593125.4	4151728	1.59639	8.32	810.56	1.5	ANNUAL	HAUL	5
593145.4	4151728	1.63353	8.12	810.56	1.5	ANNUAL	HAUL	5
592645.4	4151748	0.77495	7.7	810.56	1.5	ANNUAL	HAUL	5
592665.4	4151748	0.80016	7.75	810.56	1.5	ANNUAL	HAUL	5
592685.4	4151748	0.82666	7.99	810.56	1.5	ANNUAL	HAUL	5
592705.4	4151748	0.85559	7.9	810.56	1.5	ANNUAL	HAUL	5
592725.4	4151748	0.88484	6.01	810.56	1.5	ANNUAL	HAUL	5
592745.4	4151748	0.9178	8.35	810.56	1.5	ANNUAL	HAUL	5
592765.4	4151748	0.9519	8.52	810.56	1.5	ANNUAL	HAUL	5
592785.4	4151748	0.98846	8.56	810.56	1.5	ANNUAL	HAUL	5
592805.4	4151748	1.02696	8.61	810.56	1.5	ANNUAL	HAUL	5
592825.4	4151748	1.06955	8.12	810.56	1.5	ANNUAL	HAUL	5
592845.4	4151748	1.11269	7.96	810.56	1.5	ANNUAL	HAUL	5
592865.4	4151748	1.15741	7.83	810.56	1.5	ANNUAL	HAUL	5
592885.4	4151748	1.20167	8.22	810.56	1.5	ANNUAL	HAUL	5
592905.4	4151748	1.24843	8.24	810.56	1.5	ANNUAL	HAUL	5
592925.4	4151748	1.29733	7.97	810.56	1.5	ANNUAL	HAUL	5
592945.4	4151748	1.34319	8.47	810.56	1.5	ANNUAL	HAUL	5
592965.4	4151748	1.39141	8.51	810.56	1.5	ANNUAL	HAUL	5
592985.4	4151748	1.43929	8.59	810.56	1.5	ANNUAL	HAUL	5
593005.4	4151748	1.48684	8.65	810.56	1.5	ANNUAL	HAUL	5
593025.4	4151748	1.53422	8.62	810.56	1.5	ANNUAL	HAUL	5
593045.4	4151748	1.58054	8.6	810.56	1.5	ANNUAL	HAUL	5
593065.4	4151748	1.62524	8.64	810.56	1.5	ANNUAL	HAUL	5
593085.4	4151748	1.66913	8.57	810.56	1.5	ANNUAL	HAUL	5
593105.4	4151748	1.71145	8.48	810.56	1.5	ANNUAL	HAUL	5
593125.4	4151748	1.75111	8.52	810.56	1.5	ANNUAL	HAUL	5
593145.4	4151748	1.78858	8.59	810.56	1.5	ANNUAL	HAUL	5
593165.4	4151748	1.82444	8.56	810.56	1.5	ANNUAL	HAUL	5
592625.4	4151768	0.80414	7.47	810.56	1.5	ANNUAL	HAUL	5
592645.4	4151768	0.83037	8.02	810.56	1.5	ANNUAL	HAUL	5

592665.4	4151768	0.85893	8.11	810.56	1.5	ANNUAL	HAUL	5
592685.4	4151768	0.88968	8.12	810.56	1.5	ANNUAL	HAUL	5
592705.4	4151768	0.92289	8.04	810.56	1.5	ANNUAL	HAUL	5
592725.4	4151768	0.95669	5.85	810.56	1.5	ANNUAL	HAUL	5
592745.4	4151768	0.99627	7.94	810.56	1.5	ANNUAL	HAUL	5
592765.4	4151768	1.03569	8.18	810.56	1.5	ANNUAL	HAUL	5
592785.4	4151768	1.07803	8.24	810.56	1.5	ANNUAL	HAUL	5
592805.4	4151768	1.1228	8.28	810.56	1.5	ANNUAL	HAUL	5
592825.4	4151768	1.17085	8.08	810.56	1.5	ANNUAL	HAUL	5
592845.4	4151768	1.22034	8.03	810.56	1.5	ANNUAL	HAUL	5
592865.4	4151768	1.27163	7.98	810.56	1.5	ANNUAL	HAUL	5
592885.4	4151768	1.32377	8.07	810.56	1.5	ANNUAL	HAUL	5
592905.4	4151768	1.37681	8.18	810.56	1.5	ANNUAL	HAUL	5
592925.4	4151768	1.4315	8.1	810.56	1.5	ANNUAL	HAUL	5
592945.4	4151768	1.48467	8.34	810.56	1.5	ANNUAL	HAUL	5
592965.4	4151768	1.53869	8.4	810.56	1.5	ANNUAL	HAUL	5
592985.4	4151768	1.59111	8.62	810.56	1.5	ANNUAL	HAUL	5
593005.4	4151768	1.64444	8.57	810.56	1.5	ANNUAL	HAUL	5
593025.4	4151768	1.69648	8.53	810.56	1.5	ANNUAL	HAUL	5
593045.4	4151768	1.74584	8.65	810.56	1.5	ANNUAL	HAUL	5
593065.4	4151768	1.79449	8.61	810.56	1.5	ANNUAL	HAUL	5
593085.4	4151768	1.84182	8.46	810.56	1.5	ANNUAL	HAUL	5
593105.4	4151768	1.88521	8.55	810.56	1.5	ANNUAL	HAUL	5
593125.4	4151768	1.92664	8.57	810.56	1.5	ANNUAL	HAUL	5
593145.4	4151768	1.96426	8.77	810.56	1.5	ANNUAL	HAUL	5
593165.4	4151768	1.99906	8.99	810.56	1.5	ANNUAL	HAUL	5
593185.4	4151768	2.03255	8.98	810.56	1.5	ANNUAL	HAUL	5
592625.4	4151788	0.86365	7.39	810.56	1.5	ANNUAL	HAUL	5
592645.4	4151788	0.89398	7.82	810.56	1.5	ANNUAL	HAUL	5
592665.4	4151788	0.9263	8.08	810.56	1.5	ANNUAL	HAUL	5
592685.4	4151788	0.96156	8.14	810.56	1.5	ANNUAL	HAUL	5
592705.4	4151788	0.99975	8.12	810.56	1.5	ANNUAL	HAUL	5
592725.4	4151788	1.04253	7.25	810.56	1.5	ANNUAL	HAUL	5
592745.4	4151788	1.08628	7.52	810.56	1.5	ANNUAL	HAUL	5
592765.4	4151788	1.13109	8.19	810.56	1.5	ANNUAL	HAUL	5
592785.4	4151788	1.18019	8.31	810.56	1.5	ANNUAL	HAUL	5
592805.4	4151788	1.23323	8.19	810.56	1.5	ANNUAL	HAUL	5
592825.4	4151788	1.28961	7.91	810.56	1.5	ANNUAL	HAUL	5
592845.4	4151788	1.34609	8.09	810.56	1.5	ANNUAL	HAUL	5
592865.4	4151788	1.40567	8.01	810.56	1.5	ANNUAL	HAUL	5
592885.4	4151788	1.46421	8.34	810.56	1.5	ANNUAL	HAUL	5
592905.4	4151788	1.52414	8.54	810.56	1.5	ANNUAL	HAUL	5
592925.4	4151788	1.5861	8.5	810.56	1.5	ANNUAL	HAUL	5
592945.4	4151788	1.64771	8.49	810.56	1.5	ANNUAL	HAUL	5
592965.4	4151788	1.70762	8.62	810.56	1.5	ANNUAL	HAUL	5
592985.4	4151788	1.76743	8.62	810.56	1.5	ANNUAL	HAUL	5
593005.4	4151788	1.8269	8.47	810.56	1.5	ANNUAL	HAUL	5
593025.4	4151788	1.88231	8.59	810.56	1.5	ANNUAL	HAUL	5
593045.4	4151788	1.9375	8.45	810.56	1.5	ANNUAL	HAUL	5
593065.4	4151788	1.98923	8.42	810.56	1.5	ANNUAL	HAUL	5
593085.4	4151788	2.03707	8.53	810.56	1.5	ANNUAL	HAUL	5
593105.4	4151788	2.08171	8.67	810.56	1.5	ANNUAL	HAUL	5
593125.4	4151788	2.12494	8.59	810.56	1.5	ANNUAL	HAUL	5
593145.4	4151788	2.16169	8.94	810.56	1.5	ANNUAL	HAUL	5
593165.4	4151788	2.19555	9.24	810.56	1.5	ANNUAL	HAUL	5
593185.4	4151788	2.22848	9.22	810.56	1.5	ANNUAL	HAUL	5
593205.4	4151788	2.25788	9.19	810.56	1.5	ANNUAL	HAUL	5
592605.4	4151808	0.89694	7.78	810.56	1.5	ANNUAL	HAUL	5
592625.4	4151808	0.92969	8	810.56	1.5	ANNUAL	HAUL	5
592645.4	4151808	0.96637	7.47	810.56	1.5	ANNUAL	HAUL	5
592665.4	4151808	1.00337	7.98	810.56	1.5	ANNUAL	HAUL	5
592685.4	4151808	1.04532	7.72	810.56	1.5	ANNUAL	HAUL	5
592705.4	4151808	1.08985	7.71	810.56	1.5	ANNUAL	HAUL	5

592725.4	4151808	1.13746	7.83	810.56	1.5	ANNUAL	HAUL	5
592745.4	4151808	1.18803	6.28	810.56	1.5	ANNUAL	HAUL	5
592765.4	4151808	1.24234	8.19	810.56	1.5	ANNUAL	HAUL	5
592785.4	4151808	1.29898	8.48	810.56	1.5	ANNUAL	HAUL	5
592805.4	4151808	1.3612	8.38	810.56	1.5	ANNUAL	HAUL	5
592825.4	4151808	1.42741	8.12	810.56	1.5	ANNUAL	HAUL	5
592845.4	4151808	1.49443	8.11	810.56	1.5	ANNUAL	HAUL	5
592865.4	4151808	1.56378	8.02	810.56	1.5	ANNUAL	HAUL	5
592885.4	4151808	1.63062	8.43	810.56	1.5	ANNUAL	HAUL	5
592905.4	4151808	1.6999	8.55	810.56	1.5	ANNUAL	HAUL	5
592925.4	4151808	1.77018	8.53	810.56	1.5	ANNUAL	HAUL	5
592945.4	4151808	1.8385	8.64	810.56	1.5	ANNUAL	HAUL	5
592965.4	4151808	1.90688	8.59	810.56	1.5	ANNUAL	HAUL	5
592985.4	4151808	1.97415	8.45	810.56	1.5	ANNUAL	HAUL	5
593005.4	4151808	2.03673	8.56	810.56	1.5	ANNUAL	HAUL	5
593025.4	4151808	2.09829	8.47	810.56	1.5	ANNUAL	HAUL	5
593045.4	4151808	2.15682	8.36	810.56	1.5	ANNUAL	HAUL	5
593065.4	4151808	2.21137	8.3	810.56	1.5	ANNUAL	HAUL	5
593085.4	4151808	2.26104	8.39	810.56	1.5	ANNUAL	HAUL	5
593105.4	4151808	2.30579	8.61	810.56	1.5	ANNUAL	HAUL	5
593125.4	4151808	2.34862	8.61	810.56	1.5	ANNUAL	HAUL	5
593145.4	4151808	2.38713	8.66	810.56	1.5	ANNUAL	HAUL	5
593165.4	4151808	2.41929	9.01	810.56	1.5	ANNUAL	HAUL	5
593185.4	4151808	2.4494	9.13	810.56	1.5	ANNUAL	HAUL	5
593205.4	4151808	2.47567	9.22	810.56	1.5	ANNUAL	HAUL	5
593225.4	4151808	2.49828	9.23	810.56	1.5	ANNUAL	HAUL	5
592585.4	4151828	0.93157	7.92	810.56	1.5	ANNUAL	HAUL	5
592605.4	4151828	0.96921	7.32	810.56	1.5	ANNUAL	HAUL	5
592625.4	4151828	1.0058	8.07	810.56	1.5	ANNUAL	HAUL	5
592645.4	4151828	1.04781	7.82	810.56	1.5	ANNUAL	HAUL	5
592665.4	4151828	1.09291	7.55	810.56	1.5	ANNUAL	HAUL	5
592685.4	4151828	1.14089	7.66	810.56	1.5	ANNUAL	HAUL	5
592705.4	4151828	1.19338	7.59	810.56	1.5	ANNUAL	HAUL	5
592725.4	4151828	1.24866	7.95	810.56	1.5	ANNUAL	HAUL	5
592745.4	4151828	1.30733	5.75	810.56	1.5	ANNUAL	HAUL	5
592765.4	4151828	1.37294	8.25	810.56	1.5	ANNUAL	HAUL	5
592785.4	4151828	1.4398	8.56	810.56	1.5	ANNUAL	HAUL	5
592805.4	4151828	1.51427	8.36	810.56	1.5	ANNUAL	HAUL	5
592825.4	4151828	1.59182	8.18	810.56	1.5	ANNUAL	HAUL	5
592845.4	4151828	1.67085	8.12	810.56	1.5	ANNUAL	HAUL	5
592865.4	4151828	1.75112	8.1	810.56	1.5	ANNUAL	HAUL	5
592885.4	4151828	1.82866	8.45	810.56	1.5	ANNUAL	HAUL	5
592905.4	4151828	1.90844	8.52	810.56	1.5	ANNUAL	HAUL	5
592925.4	4151828	1.98738	8.57	810.56	1.5	ANNUAL	HAUL	5
592945.4	4151828	2.06442	8.63	810.56	1.5	ANNUAL	HAUL	5
592965.4	4151828	2.14205	8.4	810.56	1.5	ANNUAL	HAUL	5
592985.4	4151828	2.21238	8.57	810.56	1.5	ANNUAL	HAUL	5
593005.4	4151828	2.28178	8.49	810.56	1.5	ANNUAL	HAUL	5
593025.4	4151828	2.34787	8.34	810.56	1.5	ANNUAL	HAUL	5
593045.4	4151828	2.40802	8.35	810.56	1.5	ANNUAL	HAUL	5
593065.4	4151828	2.46348	8.38	810.56	1.5	ANNUAL	HAUL	5
593085.4	4151828	2.51516	8.32	810.56	1.5	ANNUAL	HAUL	5
593105.4	4151828	2.56	8.5	810.56	1.5	ANNUAL	HAUL	5
593125.4	4151828	2.602	8.49	810.56	1.5	ANNUAL	HAUL	5
593145.4	4151828	2.63948	8.47	810.56	1.5	ANNUAL	HAUL	5
593165.4	4151828	2.67145	8.56	810.56	1.5	ANNUAL	HAUL	5
593185.4	4151828	2.69886	8.65	810.56	1.5	ANNUAL	HAUL	5
593205.4	4151828	2.72047	8.89	810.56	1.5	ANNUAL	HAUL	5
593225.4	4151828	2.73811	9.03	810.56	1.5	ANNUAL	HAUL	5
592585.4	4151848	1.00616	8.25	810.56	1.5	ANNUAL	HAUL	5
592605.4	4151848	1.0485	8.16	810.56	1.5	ANNUAL	HAUL	5
592625.4	4151848	1.09335	8.09	810.56	1.5	ANNUAL	HAUL	5
592645.4	4151848	1.14184	7.97	810.56	1.5	ANNUAL	HAUL	5

592665.4	4151848	1.19513	7.7	810.56	1.5	ANNUAL	HAUL	5
592685.4	4151848	1.25181	7.77	810.56	1.5	ANNUAL	HAUL	5
592705.4	4151848	1.31136	8.21	810.56	1.5	ANNUAL	HAUL	5
592725.4	4151848	1.37835	8.25	810.56	1.5	ANNUAL	HAUL	5
592745.4	4151848	1.4559	7.13	810.56	1.5	ANNUAL	HAUL	5
592765.4	4151848	1.53388	7.45	810.56	1.5	ANNUAL	HAUL	5
592785.4	4151848	1.60887	8.55	810.56	1.5	ANNUAL	HAUL	5
592805.4	4151848	1.69826	8.29	810.56	1.5	ANNUAL	HAUL	5
592825.4	4151848	1.78947	8.19	810.56	1.5	ANNUAL	HAUL	5
592845.4	4151848	1.88259	8.12	810.56	1.5	ANNUAL	HAUL	5
592865.4	4151848	1.97486	8.23	810.56	1.5	ANNUAL	HAUL	5
592885.4	4151848	2.06542	8.46	810.56	1.5	ANNUAL	HAUL	5
592905.4	4151848	2.15713	8.47	810.56	1.5	ANNUAL	HAUL	5
592925.4	4151848	2.24652	8.48	810.56	1.5	ANNUAL	HAUL	5
592945.4	4151848	2.33183	8.56	810.56	1.5	ANNUAL	HAUL	5
592965.4	4151848	2.41379	8.59	810.56	1.5	ANNUAL	HAUL	5
592985.4	4151848	2.49253	8.51	810.56	1.5	ANNUAL	HAUL	5
593005.4	4151848	2.56694	8.37	810.56	1.5	ANNUAL	HAUL	5
593025.4	4151848	2.63484	8.32	810.56	1.5	ANNUAL	HAUL	5
593045.4	4151848	2.69503	8.46	810.56	1.5	ANNUAL	HAUL	5
593065.4	4151848	2.7502	8.55	810.56	1.5	ANNUAL	HAUL	5
593085.4	4151848	2.80171	8.47	810.56	1.5	ANNUAL	HAUL	5
593105.4	4151848	2.8471	8.44	810.56	1.5	ANNUAL	HAUL	5
593125.4	4151848	2.88608	8.51	810.56	1.5	ANNUAL	HAUL	5
593145.4	4151848	2.92034	8.53	810.56	1.5	ANNUAL	HAUL	5
593165.4	4151848	2.94853	8.65	810.56	1.5	ANNUAL	HAUL	5
593185.4	4151848	2.97235	8.69	810.56	1.5	ANNUAL	HAUL	5
593205.4	4151848	2.99094	8.73	810.56	1.5	ANNUAL	HAUL	5
593225.4	4151848	3.00481	8.67	810.56	1.5	ANNUAL	HAUL	5
593245.4	4151848	3.01139	8.84	810.56	1.5	ANNUAL	HAUL	5
592565.4	4151868	1.0455	8.47	810.56	1.5	ANNUAL	HAUL	5
592585.4	4151868	1.09304	8.26	810.56	1.5	ANNUAL	HAUL	5
592605.4	4151868	1.14308	8.03	810.56	1.5	ANNUAL	HAUL	5
592625.4	4151868	1.1952	8.03	810.56	1.5	ANNUAL	HAUL	5
592645.4	4151868	1.24965	8.34	810.56	1.5	ANNUAL	HAUL	5
592665.4	4151868	1.31184	8.27	810.56	1.5	ANNUAL	HAUL	5
592685.4	4151868	1.38336	7.7	810.56	1.5	ANNUAL	HAUL	5
592705.4	4151868	1.45417	8.24	810.56	1.5	ANNUAL	HAUL	5
592725.4	4151868	1.53453	8.32	810.56	1.5	ANNUAL	HAUL	5
592745.4	4151868	1.62596	7.92	810.56	1.5	ANNUAL	HAUL	5
592765.4	4151868	1.71984	6.06	810.56	1.5	ANNUAL	HAUL	5
592785.4	4151868	1.81499	8.42	810.56	1.5	ANNUAL	HAUL	5
592805.4	4151868	1.92157	8.22	810.56	1.5	ANNUAL	HAUL	5
592825.4	4151868	2.03024	8.11	810.56	1.5	ANNUAL	HAUL	5
592845.4	4151868	2.13913	8.11	810.56	1.5	ANNUAL	HAUL	5
592865.4	4151868	2.24776	8.12	810.56	1.5	ANNUAL	HAUL	5
592885.4	4151868	2.35396	8.19	810.56	1.5	ANNUAL	HAUL	5
592905.4	4151868	2.45499	8.41	810.56	1.5	ANNUAL	HAUL	5
592925.4	4151868	2.55334	8.51	810.56	1.5	ANNUAL	HAUL	5
592945.4	4151868	2.65068	8.32	810.56	1.5	ANNUAL	HAUL	5
592965.4	4151868	2.73681	8.5	810.56	1.5	ANNUAL	HAUL	5
592985.4	4151868	2.82076	8.38	810.56	1.5	ANNUAL	HAUL	5
593005.4	4151868	2.89779	8.26	810.56	1.5	ANNUAL	HAUL	5
593025.4	4151868	2.964	8.44	810.56	1.5	ANNUAL	HAUL	5
593045.4	4151868	3.02491	8.5	810.56	1.5	ANNUAL	HAUL	5
593065.4	4151868	3.07858	8.6	810.56	1.5	ANNUAL	HAUL	5
593085.4	4151868	3.12766	8.55	810.56	1.5	ANNUAL	HAUL	5
593105.4	4151868	3.16952	8.57	810.56	1.5	ANNUAL	HAUL	5
593125.4	4151868	3.20146	8.92	810.56	1.5	ANNUAL	HAUL	5
593145.4	4151868	3.23049	9.04	810.56	1.5	ANNUAL	HAUL	5
593165.4	4151868	3.2564	8.94	810.56	1.5	ANNUAL	HAUL	5
593185.4	4151868	3.27657	8.82	810.56	1.5	ANNUAL	HAUL	5
593205.4	4151868	3.28989	8.79	810.56	1.5	ANNUAL	HAUL	5

593225.4	4151868	3.29692	8.78	810.56	1.5	ANNUAL	HAUL	5
593245.4	4151868	3.29704	8.84	810.56	1.5	ANNUAL	HAUL	5
592565.4	4151888	1.14178	7.84	810.56	1.5	ANNUAL	HAUL	5
592585.4	4151888	1.19567	7.94	810.56	1.5	ANNUAL	HAUL	5
592605.4	4151888	1.25324	7.91	810.56	1.5	ANNUAL	HAUL	5
592625.4	4151888	1.3141	8.03	810.56	1.5	ANNUAL	HAUL	5
592645.4	4151888	1.37884	8.35	810.56	1.5	ANNUAL	HAUL	5
592665.4	4151888	1.4528	8.36	810.56	1.5	ANNUAL	HAUL	5
592685.4	4151888	1.53988	7.77	810.56	1.5	ANNUAL	HAUL	5
592705.4	4151888	1.62888	7.98	810.56	1.5	ANNUAL	HAUL	5
592725.4	4151888	1.72846	7.95	810.56	1.5	ANNUAL	HAUL	5
592745.4	4151888	1.83561	8	810.56	1.5	ANNUAL	HAUL	5
592765.4	4151888	1.95294	6.26	810.56	1.5	ANNUAL	HAUL	5
592785.4	4151888	2.07236	7.99	810.56	1.5	ANNUAL	HAUL	5
592805.4	4151888	2.19623	8.13	810.56	1.5	ANNUAL	HAUL	5
592825.4	4151888	2.3228	8.22	810.56	1.5	ANNUAL	HAUL	5
592845.4	4151888	2.45212	8.13	810.56	1.5	ANNUAL	HAUL	5
592865.4	4151888	2.57647	8.23	810.56	1.5	ANNUAL	HAUL	5
592885.4	4151888	2.69677	8.33	810.56	1.5	ANNUAL	HAUL	5
592905.4	4151888	2.80831	8.61	810.56	1.5	ANNUAL	HAUL	5
592925.4	4151888	2.92267	8.33	810.56	1.5	ANNUAL	HAUL	5
592945.4	4151888	3.02277	8.43	810.56	1.5	ANNUAL	HAUL	5
592965.4	4151888	3.12014	8.18	810.56	1.5	ANNUAL	HAUL	5
592985.4	4151888	3.20354	8.27	810.56	1.5	ANNUAL	HAUL	5
593005.4	4151888	3.27609	8.5	810.56	1.5	ANNUAL	HAUL	5
593025.4	4151888	3.34287	8.56	810.56	1.5	ANNUAL	HAUL	5
593045.4	4151888	3.40228	8.57	810.56	1.5	ANNUAL	HAUL	5
593065.4	4151888	3.45372	8.59	810.56	1.5	ANNUAL	HAUL	5
593085.4	4151888	3.49889	8.53	810.56	1.5	ANNUAL	HAUL	5
593105.4	4151888	3.53603	8.54	810.56	1.5	ANNUAL	HAUL	5
593125.4	4151888	3.56207	8.9	810.56	1.5	ANNUAL	HAUL	5
593145.4	4151888	3.58552	8.99	810.56	1.5	ANNUAL	HAUL	5
593165.4	4151888	3.60363	9.02	810.56	1.5	ANNUAL	HAUL	5
593185.4	4151888	3.61642	8.97	810.56	1.5	ANNUAL	HAUL	5
593205.4	4151888	3.62282	8.9	810.56	1.5	ANNUAL	HAUL	5
593225.4	4151888	3.62109	8.97	810.56	1.5	ANNUAL	HAUL	5
593245.4	4151888	3.61208	9.06	810.56	1.5	ANNUAL	HAUL	5
593265.4	4151888	3.59625	9.04	810.56	1.5	ANNUAL	HAUL	5
592565.4	4151908	1.24935	7.96	810.56	1.5	ANNUAL	HAUL	5
592585.4	4151908	1.31392	7.92	810.56	1.5	ANNUAL	HAUL	5
592605.4	4151908	1.38201	7.93	810.56	1.5	ANNUAL	HAUL	5
592625.4	4151908	1.45725	7.74	810.56	1.5	ANNUAL	HAUL	5
592645.4	4151908	1.53803	7.83	810.56	1.5	ANNUAL	HAUL	5
592665.4	4151908	1.62648	8.06	810.56	1.5	ANNUAL	HAUL	5
592685.4	4151908	1.72992	7.82	810.56	1.5	ANNUAL	HAUL	5
592705.4	4151908	1.83887	8.1	810.56	1.5	ANNUAL	HAUL	5
592725.4	4151908	1.96357	7.97	810.56	1.5	ANNUAL	HAUL	5
592745.4	4151908	2.09862	7.85	810.56	1.5	ANNUAL	HAUL	5
592765.4	4151908	2.2463	7.3	810.56	1.5	ANNUAL	HAUL	5
592785.4	4151908	2.39258	6.62	810.56	1.5	ANNUAL	HAUL	5
592805.4	4151908	2.54411	7.6	810.56	1.5	ANNUAL	HAUL	5
592825.4	4151908	2.68539	8.29	810.56	1.5	ANNUAL	HAUL	5
592845.4	4151908	2.83214	8.42	810.56	1.5	ANNUAL	HAUL	5
592865.4	4151908	2.98106	8.18	810.56	1.5	ANNUAL	HAUL	5
592885.4	4151908	3.11077	8.53	810.56	1.5	ANNUAL	HAUL	5
592905.4	4151908	3.23768	8.57	810.56	1.5	ANNUAL	HAUL	5
592925.4	4151908	3.35645	8.51	810.56	1.5	ANNUAL	HAUL	5
592945.4	4151908	3.46512	8.41	810.56	1.5	ANNUAL	HAUL	5
592965.4	4151908	3.55909	8.49	810.56	1.5	ANNUAL	HAUL	5
592985.4	4151908	3.64809	8.25	810.56	1.5	ANNUAL	HAUL	5
593005.4	4151908	3.71838	8.46	810.56	1.5	ANNUAL	HAUL	5
593025.4	4151908	3.77812	8.7	810.56	1.5	ANNUAL	HAUL	5
593045.4	4151908	3.83343	8.68	810.56	1.5	ANNUAL	HAUL	5

593065.4	4151908	3.88105	8.6	810.56	1.5	ANNUAL	HAUL	5
593085.4	4151908	3.91889	8.62	810.56	1.5	ANNUAL	HAUL	5
593105.4	4151908	3.9488	8.67	810.56	1.5	ANNUAL	HAUL	5
593125.4	4151908	3.97214	8.69	810.56	1.5	ANNUAL	HAUL	5
593145.4	4151908	3.98909	8.68	810.56	1.5	ANNUAL	HAUL	5
593165.4	4151908	3.99971	8.63	810.56	1.5	ANNUAL	HAUL	5
593185.4	4151908	4.00233	8.69	810.56	1.5	ANNUAL	HAUL	5
593205.4	4151908	3.99862	8.66	810.56	1.5	ANNUAL	HAUL	5
593225.4	4151908	3.98459	8.97	810.56	1.5	ANNUAL	HAUL	5
593245.4	4151908	3.96398	9.1	810.56	1.5	ANNUAL	HAUL	5
593265.4	4151908	3.9354	9.12	810.56	1.5	ANNUAL	HAUL	5
592545.4	4151928	1.3031	7.96	810.56	1.5	ANNUAL	HAUL	5
592565.4	4151928	1.37615	8	810.56	1.5	ANNUAL	HAUL	5
592585.4	4151928	1.45328	7.97	810.56	1.5	ANNUAL	HAUL	5
592605.4	4151928	1.53548	7.95	810.56	1.5	ANNUAL	HAUL	5
592625.4	4151928	1.62508	7.95	810.56	1.5	ANNUAL	HAUL	5
592645.4	4151928	1.72699	7.76	810.56	1.5	ANNUAL	HAUL	5
592665.4	4151928	1.8371	7.97	810.56	1.5	ANNUAL	HAUL	5
592685.4	4151928	1.96476	7.88	810.56	1.5	ANNUAL	HAUL	5
592705.4	4151928	2.09688	8.43	810.56	1.5	ANNUAL	HAUL	5
592725.4	4151928	2.25325	8.33	810.56	1.5	ANNUAL	HAUL	5
592745.4	4151928	2.42477	8.1	810.56	1.5	ANNUAL	HAUL	5
592765.4	4151928	2.60635	7.83	810.56	1.5	ANNUAL	HAUL	5
592785.4	4151928	2.79275	6.68	810.56	1.5	ANNUAL	HAUL	5
592805.4	4151928	2.96495	8.11	810.56	1.5	ANNUAL	HAUL	5
592825.4	4151928	3.1384	8.35	810.56	1.5	ANNUAL	HAUL	5
592845.4	4151928	3.31635	8.1	810.56	1.5	ANNUAL	HAUL	5
592865.4	4151928	3.47703	8.16	810.56	1.5	ANNUAL	HAUL	5
592885.4	4151928	3.61842	8.51	810.56	1.5	ANNUAL	HAUL	5
592905.4	4151928	3.75526	8.49	810.56	1.5	ANNUAL	HAUL	5
592925.4	4151928	3.87855	8.44	810.56	1.5	ANNUAL	HAUL	5
592945.4	4151928	3.98391	8.54	810.56	1.5	ANNUAL	HAUL	5
592965.4	4151928	4.07711	8.57	810.56	1.5	ANNUAL	HAUL	5
592985.4	4151928	4.16187	8.39	810.56	1.5	ANNUAL	HAUL	5
593005.4	4151928	4.23189	8.31	810.56	1.5	ANNUAL	HAUL	5
593025.4	4151928	4.28746	8.4	810.56	1.5	ANNUAL	HAUL	5
593045.4	4151928	4.33278	8.5	810.56	1.5	ANNUAL	HAUL	5
593065.4	4151928	4.37072	8.51	810.56	1.5	ANNUAL	HAUL	5
593085.4	4151928	4.39855	8.62	810.56	1.5	ANNUAL	HAUL	5
593105.4	4151928	4.41994	8.66	810.56	1.5	ANNUAL	HAUL	5
593125.4	4151928	4.43588	8.57	810.56	1.5	ANNUAL	HAUL	5
593145.4	4151928	4.4399	8.82	810.56	1.5	ANNUAL	HAUL	5
593165.4	4151928	4.43948	8.89	810.56	1.5	ANNUAL	HAUL	5
593185.4	4151928	4.43293	8.84	810.56	1.5	ANNUAL	HAUL	5
593205.4	4151928	4.41687	8.92	810.56	1.5	ANNUAL	HAUL	5
593225.4	4151928	4.39301	8.87	810.56	1.5	ANNUAL	HAUL	5
593245.4	4151928	4.35788	9.03	810.56	1.5	ANNUAL	HAUL	5
593265.4	4151928	4.3133	9.05	810.56	1.5	ANNUAL	HAUL	5
592545.4	4151948	1.43902	7.96	810.56	1.5	ANNUAL	HAUL	5
592565.4	4151948	1.52739	7.99	810.56	1.5	ANNUAL	HAUL	5
592585.4	4151948	1.62045	8.01	810.56	1.5	ANNUAL	HAUL	5
592605.4	4151948	1.72089	7.99	810.56	1.5	ANNUAL	HAUL	5
592625.4	4151948	1.83226	7.94	810.56	1.5	ANNUAL	HAUL	5
592645.4	4151948	1.95937	7.8	810.56	1.5	ANNUAL	HAUL	5
592665.4	4151948	2.09958	7.96	810.56	1.5	ANNUAL	HAUL	5
592685.4	4151948	2.26102	7.98	810.56	1.5	ANNUAL	HAUL	5
592705.4	4151948	2.43186	8.45	810.56	1.5	ANNUAL	HAUL	5
592725.4	4151948	2.62997	8.44	810.56	1.5	ANNUAL	HAUL	5
592745.4	4151948	2.84288	8.39	810.56	1.5	ANNUAL	HAUL	5
592765.4	4151948	3.06877	8.17	810.56	1.5	ANNUAL	HAUL	5
592785.4	4151948	3.30213	6.28	810.56	1.5	ANNUAL	HAUL	5
592805.4	4151948	3.50571	8.24	810.56	1.5	ANNUAL	HAUL	5
592825.4	4151948	3.71052	8.33	810.56	1.5	ANNUAL	HAUL	5

592845.4	4151948	3.91315	8.01	810.56	1.5	ANNUAL	HAUL	5
592865.4	4151948	4.092	7.92	810.56	1.5	ANNUAL	HAUL	5
592885.4	4151948	4.24766	8.03	810.56	1.5	ANNUAL	HAUL	5
592905.4	4151948	4.38635	8.06	810.56	1.5	ANNUAL	HAUL	5
592925.4	4151948	4.50201	8.27	810.56	1.5	ANNUAL	HAUL	5
592945.4	4151948	4.59835	8.53	810.56	1.5	ANNUAL	HAUL	5
592965.4	4151948	4.68531	8.54	810.56	1.5	ANNUAL	HAUL	5
592985.4	4151948	4.75955	8.47	810.56	1.5	ANNUAL	HAUL	5
593005.4	4151948	4.8172	8.53	810.56	1.5	ANNUAL	HAUL	5
593025.4	4151948	4.86472	8.53	810.56	1.5	ANNUAL	HAUL	5
593045.4	4151948	4.90318	8.47	810.56	1.5	ANNUAL	HAUL	5
593065.4	4151948	4.92724	8.65	810.56	1.5	ANNUAL	HAUL	5
593085.4	4151948	4.9474	8.62	810.56	1.5	ANNUAL	HAUL	5
593105.4	4151948	4.95927	8.6	810.56	1.5	ANNUAL	HAUL	5
593125.4	4151948	4.96211	8.66	810.56	1.5	ANNUAL	HAUL	5
593145.4	4151948	4.95585	8.83	810.56	1.5	ANNUAL	HAUL	5
593165.4	4151948	4.9427	8.95	810.56	1.5	ANNUAL	HAUL	5
593185.4	4151948	4.92287	8.92	810.56	1.5	ANNUAL	HAUL	5
593205.4	4151948	4.8912	9.11	810.56	1.5	ANNUAL	HAUL	5
593225.4	4151948	4.85098	9.1	810.56	1.5	ANNUAL	HAUL	5
593245.4	4151948	4.79837	9.17	810.56	1.5	ANNUAL	HAUL	5
593265.4	4151948	4.7334	9.19	810.56	1.5	ANNUAL	HAUL	5
593285.4	4151948	4.65632	8.83	810.56	1.5	ANNUAL	HAUL	5
592545.4	4151968	1.60495	7.59	810.56	1.5	ANNUAL	HAUL	5
592565.4	4151968	1.71299	7.73	810.56	1.5	ANNUAL	HAUL	5
592585.4	4151968	1.82879	7.71	810.56	1.5	ANNUAL	HAUL	5
592605.4	4151968	1.95321	7.77	810.56	1.5	ANNUAL	HAUL	5
592625.4	4151968	2.0931	7.79	810.56	1.5	ANNUAL	HAUL	5
592645.4	4151968	2.25326	7.83	810.56	1.5	ANNUAL	HAUL	5
592665.4	4151968	2.43501	8.02	810.56	1.5	ANNUAL	HAUL	5
592685.4	4151968	2.64647	8.06	810.56	1.5	ANNUAL	HAUL	5
592705.4	4151968	2.88125	8.17	810.56	1.5	ANNUAL	HAUL	5
592725.4	4151968	3.13892	8.19	810.56	1.5	ANNUAL	HAUL	5
592745.4	4151968	3.40836	8.23	810.56	1.5	ANNUAL	HAUL	5
592765.4	4151968	3.6891	8.03	810.56	1.5	ANNUAL	HAUL	5
592785.4	4151968	3.97131	6.74	810.56	1.5	ANNUAL	HAUL	5
592805.4	4151968	4.19642	8.4	810.56	1.5	ANNUAL	HAUL	5
592825.4	4151968	4.43134	8.36	810.56	1.5	ANNUAL	HAUL	5
592845.4	4151968	4.63667	8.48	810.56	1.5	ANNUAL	HAUL	5
592865.4	4151968	4.82486	8.39	810.56	1.5	ANNUAL	HAUL	5
592885.4	4151968	4.98543	8.36	810.56	1.5	ANNUAL	HAUL	5
592905.4	4151968	5.12297	8.29	810.56	1.5	ANNUAL	HAUL	5
592925.4	4151968	5.24006	8.14	810.56	1.5	ANNUAL	HAUL	5
592945.4	4151968	5.33442	8.04	810.56	1.5	ANNUAL	HAUL	5
592965.4	4151968	5.40626	8.14	810.56	1.5	ANNUAL	HAUL	5
592985.4	4151968	5.45972	8.35	810.56	1.5	ANNUAL	HAUL	5
593005.4	4151968	5.50243	8.46	810.56	1.5	ANNUAL	HAUL	5
593025.4	4151968	5.5347	8.54	810.56	1.5	ANNUAL	HAUL	5
593045.4	4151968	5.55852	8.57	810.56	1.5	ANNUAL	HAUL	5
593065.4	4151968	5.57157	8.68	810.56	1.5	ANNUAL	HAUL	5
593085.4	4151968	5.57868	8.7	810.56	1.5	ANNUAL	HAUL	5
593105.4	4151968	5.57955	8.62	810.56	1.5	ANNUAL	HAUL	5
593125.4	4151968	5.56789	8.78	810.56	1.5	ANNUAL	HAUL	5
593145.4	4151968	5.54964	8.84	810.56	1.5	ANNUAL	HAUL	5
593165.4	4151968	5.52359	8.78	810.56	1.5	ANNUAL	HAUL	5
593185.4	4151968	5.48555	8.85	810.56	1.5	ANNUAL	HAUL	5
593205.4	4151968	5.4357	8.96	810.56	1.5	ANNUAL	HAUL	5
593225.4	4151968	5.37243	9.15	810.56	1.5	ANNUAL	HAUL	5
593245.4	4151968	5.29648	9.07	810.56	1.5	ANNUAL	HAUL	5
593265.4	4151968	5.20436	9.09	810.56	1.5	ANNUAL	HAUL	5
593285.4	4151968	5.09631	9.05	810.56	1.5	ANNUAL	HAUL	5
592545.4	4151988	1.7981	7.92	810.56	1.5	ANNUAL	HAUL	5
592565.4	4151988	1.93567	7.87	810.56	1.5	ANNUAL	HAUL	5

592585.4	4151988	2.08109	7.88	810.56	1.5	ANNUAL	HAUL	5
592605.4	4151988	2.24219	7.8	810.56	1.5	ANNUAL	HAUL	5
592625.4	4151988	2.42352	7.83	810.56	1.5	ANNUAL	HAUL	5
592645.4	4151988	2.6288	8.12	810.56	1.5	ANNUAL	HAUL	5
592665.4	4151988	2.87814	8.12	810.56	1.5	ANNUAL	HAUL	5
592685.4	4151988	3.16553	8.12	810.56	1.5	ANNUAL	HAUL	5
592705.4	4151988	3.47912	8.27	810.56	1.5	ANNUAL	HAUL	5
592725.4	4151988	3.8121	8.42	810.56	1.5	ANNUAL	HAUL	5
592745.4	4151988	4.1652	8.24	810.56	1.5	ANNUAL	HAUL	5
592765.4	4151988	4.52366	7.69	810.56	1.5	ANNUAL	HAUL	5
592785.4	4151988	4.84009	7.57	810.56	1.5	ANNUAL	HAUL	5
592805.4	4151988	5.0849	8.52	810.56	1.5	ANNUAL	HAUL	5
592825.4	4151988	5.33881	8.44	810.56	1.5	ANNUAL	HAUL	5
592845.4	4151988	5.55353	8.44	810.56	1.5	ANNUAL	HAUL	5
592865.4	4151988	5.74321	8.23	810.56	1.5	ANNUAL	HAUL	5
592885.4	4151988	5.88136	8.47	810.56	1.5	ANNUAL	HAUL	5
592905.4	4151988	6.00031	8.5	810.56	1.5	ANNUAL	HAUL	5
592925.4	4151988	6.09652	8.48	810.56	1.5	ANNUAL	HAUL	5
592945.4	4151988	6.16985	8.5	810.56	1.5	ANNUAL	HAUL	5
592965.4	4151988	6.2213	8.63	810.56	1.5	ANNUAL	HAUL	5
592985.4	4151988	6.25202	8.93	810.56	1.5	ANNUAL	HAUL	5
593005.4	4151988	6.29118	8.68	810.56	1.5	ANNUAL	HAUL	5
593025.4	4151988	6.32206	8.29	810.56	1.5	ANNUAL	HAUL	5
593045.4	4151988	6.33312	8.18	810.56	1.5	ANNUAL	HAUL	5
593065.4	4151988	6.33121	8.35	810.56	1.5	ANNUAL	HAUL	5
593085.4	4151988	6.32014	8.55	810.56	1.5	ANNUAL	HAUL	5
593105.4	4151988	6.30057	8.77	810.56	1.5	ANNUAL	HAUL	5
593125.4	4151988	6.27664	8.76	810.56	1.5	ANNUAL	HAUL	5
593145.4	4151988	6.24104	8.83	810.56	1.5	ANNUAL	HAUL	5
593165.4	4151988	6.19511	8.8	810.56	1.5	ANNUAL	HAUL	5
593185.4	4151988	6.13374	9.02	810.56	1.5	ANNUAL	HAUL	5
593205.4	4151988	6.05963	9.03	810.56	1.5	ANNUAL	HAUL	5
593225.4	4151988	5.96853	9.09	810.56	1.5	ANNUAL	HAUL	5
593245.4	4151988	5.85875	9.32	810.56	1.5	ANNUAL	HAUL	5
593265.4	4151988	5.7311	9.24	810.56	1.5	ANNUAL	HAUL	5
593285.4	4151988	5.58343	9.44	810.56	1.5	ANNUAL	HAUL	5
592545.4	4152008	2.03813	8.02	810.56	1.5	ANNUAL	HAUL	5
592565.4	4152008	2.21978	7.74	810.56	1.5	ANNUAL	HAUL	5
592585.4	4152008	2.40361	7.96	810.56	1.5	ANNUAL	HAUL	5
592605.4	4152008	2.60884	8.1	810.56	1.5	ANNUAL	HAUL	5
592625.4	4152008	2.85598	8	810.56	1.5	ANNUAL	HAUL	5
592645.4	4152008	3.15141	7.95	810.56	1.5	ANNUAL	HAUL	5
592665.4	4152008	3.49628	8.08	810.56	1.5	ANNUAL	HAUL	5
592685.4	4152008	3.89148	8.22	810.56	1.5	ANNUAL	HAUL	5
592705.4	4152008	4.31417	8.47	810.56	1.5	ANNUAL	HAUL	5
592725.4	4152008	4.75973	8.48	810.56	1.5	ANNUAL	HAUL	5
592745.4	4152008	5.19256	8.45	810.56	1.5	ANNUAL	HAUL	5
592765.4	4152008	5.64001	6.77	810.56	1.5	ANNUAL	HAUL	5
592785.4	4152008	5.94722	8.3	810.56	1.5	ANNUAL	HAUL	5
592805.4	4152008	6.23221	8.51	810.56	1.5	ANNUAL	HAUL	5
592825.4	4152008	6.48148	8.48	810.56	1.5	ANNUAL	HAUL	5
592845.4	4152008	6.68995	8.34	810.56	1.5	ANNUAL	HAUL	5
592865.4	4152008	6.84266	8.44	810.56	1.5	ANNUAL	HAUL	5
592885.4	4152008	6.95413	8.64	810.56	1.5	ANNUAL	HAUL	5
592905.4	4152008	7.04951	8.59	810.56	1.5	ANNUAL	HAUL	5
592925.4	4152008	7.11491	8.64	810.56	1.5	ANNUAL	HAUL	5
592945.4	4152008	7.16038	8.7	810.56	1.5	ANNUAL	HAUL	5
592965.4	4152008	7.19577	8.65	810.56	1.5	ANNUAL	HAUL	5
592985.4	4152008	7.2043	8.93	810.56	1.5	ANNUAL	HAUL	5
593005.4	4152008	7.20674	9.15	810.56	1.5	ANNUAL	HAUL	5
593025.4	4152008	7.23226	8.62	810.56	1.5	ANNUAL	HAUL	5
593045.4	4152008	7.22283	8.76	810.56	1.5	ANNUAL	HAUL	5
593065.4	4152008	7.20466	8.95	810.56	1.5	ANNUAL	HAUL	5

593085.4	4152008	7.18627	8.88	810.56	1.5	ANNUAL	HAUL	5
593105.4	4152008	7.16204	8.52	810.56	1.5	ANNUAL	HAUL	5
593125.4	4152008	7.11853	8.21	810.56	1.5	ANNUAL	HAUL	5
593145.4	4152008	7.05927	8.44	810.56	1.5	ANNUAL	HAUL	5
593165.4	4152008	6.98407	8.77	810.56	1.5	ANNUAL	HAUL	5
593185.4	4152008	6.89316	8.92	810.56	1.5	ANNUAL	HAUL	5
593205.4	4152008	6.78343	9.01	810.56	1.5	ANNUAL	HAUL	5
593225.4	4152008	6.65251	9.12	810.56	1.5	ANNUAL	HAUL	5
593245.4	4152008	6.49892	9.24	810.56	1.5	ANNUAL	HAUL	5
593265.4	4152008	6.32189	9.21	810.56	1.5	ANNUAL	HAUL	5
593285.4	4152008	6.12206	9.37	810.56	1.5	ANNUAL	HAUL	5
592545.4	4152028	2.34479	7.9	810.56	1.5	ANNUAL	HAUL	5
592565.4	4152028	2.58075	7.83	810.56	1.5	ANNUAL	HAUL	5
592585.4	4152028	2.81963	8.25	810.56	1.5	ANNUAL	HAUL	5
592605.4	4152028	3.10243	8.29	810.56	1.5	ANNUAL	HAUL	5
592625.4	4152028	3.43435	8.51	810.56	1.5	ANNUAL	HAUL	5
592645.4	4152028	3.8643	8.39	810.56	1.5	ANNUAL	HAUL	5
592665.4	4152028	4.38594	8.25	810.56	1.5	ANNUAL	HAUL	5
592685.4	4152028	4.95961	8.32	810.56	1.5	ANNUAL	HAUL	5
592705.4	4152028	5.54282	8.52	810.56	1.5	ANNUAL	HAUL	5
592725.4	4152028	6.11697	8.5	810.56	1.5	ANNUAL	HAUL	5
592745.4	4152028	6.64642	8.29	810.56	1.5	ANNUAL	HAUL	5
592765.4	4152028	7.13191	6.78	810.56	1.5	ANNUAL	HAUL	5
592785.4	4152028	7.4228	8.43	810.56	1.5	ANNUAL	HAUL	5
592805.4	4152028	7.69396	8.53	810.56	1.5	ANNUAL	HAUL	5
592825.4	4152028	7.90807	8.53	810.56	1.5	ANNUAL	HAUL	5
592845.4	4152028	8.07252	8.46	810.56	1.5	ANNUAL	HAUL	5
592865.4	4152028	8.17743	8.59	810.56	1.5	ANNUAL	HAUL	5
592885.4	4152028	8.25273	8.64	810.56	1.5	ANNUAL	HAUL	5
592905.4	4152028	8.3013	8.68	810.56	1.5	ANNUAL	HAUL	5
592925.4	4152028	8.32951	8.72	810.56	1.5	ANNUAL	HAUL	5
592945.4	4152028	8.34562	8.72	810.56	1.5	ANNUAL	HAUL	5
592965.4	4152028	8.35158	8.72	810.56	1.5	ANNUAL	HAUL	5
592985.4	4152028	8.33915	8.93	810.56	1.5	ANNUAL	HAUL	5
593005.4	4152028	8.31178	9.33	810.56	1.5	ANNUAL	HAUL	5
593025.4	4152028	8.31161	9.14	810.56	1.5	ANNUAL	HAUL	5
593045.4	4152028	8.30858	8.81	810.56	1.5	ANNUAL	HAUL	5
593065.4	4152028	8.27302	9.04	810.56	1.5	ANNUAL	HAUL	5
593085.4	4152028	8.22898	9.25	810.56	1.5	ANNUAL	HAUL	5
593105.4	4152028	8.18667	8.96	810.56	1.5	ANNUAL	HAUL	5
593125.4	4152028	8.10347	9.64	810.56	1.5	ANNUAL	HAUL	5
593145.4	4152028	8.02161	9.57	810.56	1.5	ANNUAL	HAUL	5
593165.4	4152028	7.91927	9.25	810.56	1.5	ANNUAL	HAUL	5
593185.4	4152028	7.78773	8.84	810.56	1.5	ANNUAL	HAUL	5
593205.4	4152028	7.62561	8.51	810.56	1.5	ANNUAL	HAUL	5
593225.4	4152028	7.43871	8.64	810.56	1.5	ANNUAL	HAUL	5
593245.4	4152028	7.22488	8.94	810.56	1.5	ANNUAL	HAUL	5
593265.4	4152028	6.98208	9.15	810.56	1.5	ANNUAL	HAUL	5
593285.4	4152028	6.71135	9.16	810.56	1.5	ANNUAL	HAUL	5
592545.4	4152048	2.74054	7.8	810.56	1.5	ANNUAL	HAUL	5
592565.4	4152048	3.05848	7.97	810.56	1.5	ANNUAL	HAUL	5
592585.4	4152048	3.39659	8.32	810.56	1.5	ANNUAL	HAUL	5
592605.4	4152048	3.79744	8.46	810.56	1.5	ANNUAL	HAUL	5
592625.4	4152048	4.30711	8.53	810.56	1.5	ANNUAL	HAUL	5
592645.4	4152048	4.96658	8.54	810.56	1.5	ANNUAL	HAUL	5
592665.4	4152048	5.76269	8.49	810.56	1.5	ANNUAL	HAUL	5
592685.4	4152048	6.60873	8.46	810.56	1.5	ANNUAL	HAUL	5
592705.4	4152048	7.39455	8.55	810.56	1.5	ANNUAL	HAUL	5
592725.4	4152048	8.08033	8.52	810.56	1.5	ANNUAL	HAUL	5
592745.4	4152048	8.72749	6.96	810.56	1.5	ANNUAL	HAUL	5
592765.4	4152048	9.08804	8.04	810.56	1.5	ANNUAL	HAUL	5
592785.4	4152048	9.35562	8.35	810.56	1.5	ANNUAL	HAUL	5
592805.4	4152048	9.5394	8.6	810.56	1.5	ANNUAL	HAUL	5

592825.4	4152048	9.6812	8.58	810.56	1.5	ANNUAL	HAUL	5
592845.4	4152048	9.77622	8.48	810.56	1.5	ANNUAL	HAUL	5
592865.4	4152048	9.81353	8.56	810.56	1.5	ANNUAL	HAUL	5
592885.4	4152048	9.81959	8.67	810.56	1.5	ANNUAL	HAUL	5
592905.4	4152048	9.80604	8.79	810.56	1.5	ANNUAL	HAUL	5
592925.4	4152048	9.78747	8.84	810.56	1.5	ANNUAL	HAUL	5
592945.4	4152048	9.77231	8.78	810.56	1.5	ANNUAL	HAUL	5
592965.4	4152048	9.75455	8.73	810.56	1.5	ANNUAL	HAUL	5
592985.4	4152048	9.71183	9.05	810.56	1.5	ANNUAL	HAUL	5
593005.4	4152048	9.67984	9.23	810.56	1.5	ANNUAL	HAUL	5
593025.4	4152048	9.66288	9.14	810.56	1.5	ANNUAL	HAUL	5
593045.4	4152048	9.64787	8.83	810.56	1.5	ANNUAL	HAUL	5
593065.4	4152048	9.59224	9.12	810.56	1.5	ANNUAL	HAUL	5
593085.4	4152048	9.5248	9.37	810.56	1.5	ANNUAL	HAUL	5
593105.4	4152048	9.45178	9.22	810.56	1.5	ANNUAL	HAUL	5
593125.4	4152048	9.33869	9.66	810.56	1.5	ANNUAL	HAUL	5
593145.4	4152048	9.20623	9.87	810.56	1.5	ANNUAL	HAUL	5
593165.4	4152048	9.04822	9.81	810.56	1.5	ANNUAL	HAUL	5
593185.4	4152048	8.85509	9.76	810.56	1.5	ANNUAL	HAUL	5
593205.4	4152048	8.62569	9.76	810.56	1.5	ANNUAL	HAUL	5
593225.4	4152048	8.35902	9.59	810.56	1.5	ANNUAL	HAUL	5
593245.4	4152048	8.05497	9.38	810.56	1.5	ANNUAL	HAUL	5
593265.4	4152048	7.71451	9.01	810.56	1.5	ANNUAL	HAUL	5
593285.4	4152048	7.34776	8.92	810.56	1.5	ANNUAL	HAUL	5
592545.4	4152068	3.25953	7.88	810.56	1.5	ANNUAL	HAUL	5
592565.4	4152068	3.721	8.11	810.56	1.5	ANNUAL	HAUL	5
592585.4	4152068	4.2446	8.22	810.56	1.5	ANNUAL	HAUL	5
592605.4	4152068	4.87217	8.34	810.56	1.5	ANNUAL	HAUL	5
592625.4	4152068	5.71785	8.45	810.56	1.5	ANNUAL	HAUL	5
592645.4	4152068	6.83669	8.51	810.56	1.5	ANNUAL	HAUL	5
592665.4	4152068	8.11356	8.44	810.56	1.5	ANNUAL	HAUL	5
592685.4	4152068	9.30241	8.39	810.56	1.5	ANNUAL	HAUL	5
592705.4	4152068	10.22966	8.5	810.56	1.5	ANNUAL	HAUL	5
592725.4	4152068	10.93292	8.36	810.56	1.5	ANNUAL	HAUL	5
592745.4	4152068	11.4807	6.55	810.56	1.5	ANNUAL	HAUL	5
592765.4	4152068	11.66466	8.4	810.56	1.5	ANNUAL	HAUL	5
592785.4	4152068	11.83132	8.37	810.56	1.5	ANNUAL	HAUL	5
592805.4	4152068	11.8344	8.9	810.56	1.5	ANNUAL	HAUL	5
592825.4	4152068	11.8735	8.75	810.56	1.5	ANNUAL	HAUL	5
592845.4	4152068	11.86119	8.66	810.56	1.5	ANNUAL	HAUL	5
592865.4	4152068	11.80164	8.73	810.56	1.5	ANNUAL	HAUL	5
592885.4	4152068	11.74847	8.62	810.56	1.5	ANNUAL	HAUL	5
592905.4	4152068	11.65663	8.82	810.56	1.5	ANNUAL	HAUL	5
592925.4	4152068	11.58251	8.91	810.56	1.5	ANNUAL	HAUL	5
592945.4	4152068	11.54527	8.73	810.56	1.5	ANNUAL	HAUL	5
592965.4	4152068	11.48068	8.96	810.56	1.5	ANNUAL	HAUL	5
592985.4	4152068	11.45907	8.82	810.56	1.5	ANNUAL	HAUL	5
593005.4	4152068	11.42654	8.85	810.56	1.5	ANNUAL	HAUL	5
593025.4	4152068	11.38788	8.93	810.56	1.5	ANNUAL	HAUL	5
593045.4	4152068	11.34391	8.91	810.56	1.5	ANNUAL	HAUL	5
593065.4	4152068	11.26723	9.18	810.56	1.5	ANNUAL	HAUL	5
593085.4	4152068	11.16723	9.46	810.56	1.5	ANNUAL	HAUL	5
593105.4	4152068	11.03602	9.81	810.56	1.5	ANNUAL	HAUL	5
593125.4	4152068	10.87997	9.86	810.56	1.5	ANNUAL	HAUL	5
593145.4	4152068	10.68201	9.85	810.56	1.5	ANNUAL	HAUL	5
593165.4	4152068	10.43785	9.82	810.56	1.5	ANNUAL	HAUL	5
593185.4	4152068	10.14629	9.79	810.56	1.5	ANNUAL	HAUL	5
593205.4	4152068	9.80829	9.82	810.56	1.5	ANNUAL	HAUL	5
593225.4	4152068	9.42513	9.84	810.56	1.5	ANNUAL	HAUL	5
593245.4	4152068	8.99923	9.8	810.56	1.5	ANNUAL	HAUL	5
593265.4	4152068	8.53271	9.54	810.56	1.5	ANNUAL	HAUL	5
593285.4	4152068	8.04879	10.07	810.56	1.5	ANNUAL	HAUL	5
592545.4	4152088	3.92844	8.62	810.56	1.5	ANNUAL	HAUL	5

592565.4	4152088	4.6753	8.46	810.56	1.5	ANNUAL	HAUL	5
592585.4	4152088	5.57235	8.22	810.56	1.5	ANNUAL	HAUL	5
592605.4	4152088	6.70502	8.15	810.56	1.5	ANNUAL	HAUL	5
592625.4	4152088	8.35459	8.2	810.56	1.5	ANNUAL	HAUL	5
592645.4	4152088	10.40667	8.33	810.56	1.5	ANNUAL	HAUL	5
592665.4	4152088	12.31557	8.38	810.56	1.5	ANNUAL	HAUL	5
592685.4	4152088	13.73265	8.21	810.56	1.5	ANNUAL	HAUL	5
592705.4	4152088	14.54304	8.22	810.56	1.5	ANNUAL	HAUL	5
592725.4	4152088	15.0948	7.01	810.56	1.5	ANNUAL	HAUL	5
592745.4	4152088	15.12169	8.19	810.56	1.5	ANNUAL	HAUL	5
592765.4	4152088	15.08936	8.42	810.56	1.5	ANNUAL	HAUL	5
592785.4	4152088	14.95452	8.73	810.56	1.5	ANNUAL	HAUL	5
592805.4	4152088	14.78849	8.94	810.56	1.5	ANNUAL	HAUL	5
592825.4	4152088	14.63722	8.91	810.56	1.5	ANNUAL	HAUL	5
592845.4	4152088	14.49809	8.71	810.56	1.5	ANNUAL	HAUL	5
592865.4	4152088	14.31605	8.74	810.56	1.5	ANNUAL	HAUL	5
592885.4	4152088	14.17179	8.59	810.56	1.5	ANNUAL	HAUL	5
592905.4	4152088	14.01043	8.7	810.56	1.5	ANNUAL	HAUL	5
592925.4	4152088	13.88776	8.76	810.56	1.5	ANNUAL	HAUL	5
592945.4	4152088	13.7966	8.84	810.56	1.5	ANNUAL	HAUL	5
592965.4	4152088	13.7366	8.91	810.56	1.5	ANNUAL	HAUL	5
592985.4	4152088	13.7004	8.94	810.56	1.5	ANNUAL	HAUL	5
593005.4	4152088	13.66963	8.97	810.56	1.5	ANNUAL	HAUL	5
593025.4	4152088	13.63147	8.98	810.56	1.5	ANNUAL	HAUL	5
593045.4	4152088	13.56743	9.02	810.56	1.5	ANNUAL	HAUL	5
593065.4	4152088	13.45947	9.25	810.56	1.5	ANNUAL	HAUL	5
593085.4	4152088	13.30882	9.53	810.56	1.5	ANNUAL	HAUL	5
593105.4	4152088	13.11039	9.76	810.56	1.5	ANNUAL	HAUL	5
593125.4	4152088	12.85844	9.82	810.56	1.5	ANNUAL	HAUL	5
593145.4	4152088	12.54233	9.82	810.56	1.5	ANNUAL	HAUL	5
593165.4	4152088	12.16071	9.82	810.56	1.5	ANNUAL	HAUL	5
593185.4	4152088	11.7153	9.79	810.56	1.5	ANNUAL	HAUL	5
593205.4	4152088	11.21278	9.83	810.56	1.5	ANNUAL	HAUL	5
593225.4	4152088	10.65928	9.91	810.56	1.5	ANNUAL	HAUL	5
593245.4	4152088	10.05433	9.74	810.56	1.5	ANNUAL	HAUL	5
593265.4	4152088	9.42135	9.81	810.56	1.5	ANNUAL	HAUL	5
593285.4	4152088	8.76853	10.11	810.56	1.5	ANNUAL	HAUL	5
592545.4	4152108	4.91754	8.8	810.56	1.5	ANNUAL	HAUL	5
592565.4	4152108	6.20233	8.65	810.56	1.5	ANNUAL	HAUL	5
592585.4	4152108	7.83841	8.71	810.56	1.5	ANNUAL	HAUL	5
592605.4	4152108	10.21682	8.66	810.56	1.5	ANNUAL	HAUL	5
592625.4	4152108	14.02237	8.57	810.56	1.5	ANNUAL	HAUL	5
592645.4	4152108	17.69187	8.43	810.56	1.5	ANNUAL	HAUL	5
592665.4	4152108	19.72375	8.53	810.56	1.5	ANNUAL	HAUL	5
592685.4	4152108	20.55377	8.44	810.56	1.5	ANNUAL	HAUL	5
592705.4	4152108	20.74503	8.13	810.56	1.5	ANNUAL	HAUL	5
592725.4	4152108	20.6569	6.76	810.56	1.5	ANNUAL	HAUL	5
592745.4	4152108	20.01614	8.52	810.56	1.5	ANNUAL	HAUL	5
592765.4	4152108	19.67271	8.35	810.56	1.5	ANNUAL	HAUL	5
592785.4	4152108	19.12203	8.79	810.56	1.5	ANNUAL	HAUL	5
592805.4	4152108	18.70493	8.78	810.56	1.5	ANNUAL	HAUL	5
592825.4	4152108	18.34504	8.59	810.56	1.5	ANNUAL	HAUL	5
592845.4	4152108	18.09511	7.88	810.56	1.5	ANNUAL	HAUL	5
592865.4	4152108	17.73783	7.82	810.56	1.5	ANNUAL	HAUL	5
592885.4	4152108	17.30322	8.72	810.56	1.5	ANNUAL	HAUL	5
592905.4	4152108	17.07474	8.76	810.56	1.5	ANNUAL	HAUL	5
592925.4	4152108	16.91517	8.83	810.56	1.5	ANNUAL	HAUL	5
592945.4	4152108	16.80731	8.99	810.56	1.5	ANNUAL	HAUL	5
592965.4	4152108	16.76386	9.06	810.56	1.5	ANNUAL	HAUL	5
592985.4	4152108	16.74095	9.15	810.56	1.5	ANNUAL	HAUL	5
593005.4	4152108	16.74994	8.98	810.56	1.5	ANNUAL	HAUL	5
593025.4	4152108	16.70487	8.99	810.56	1.5	ANNUAL	HAUL	5
593045.4	4152108	16.60981	8.98	810.56	1.5	ANNUAL	HAUL	5

593065.4	4152108	16.44154	9.1	810.56	1.5	ANNUAL	HAUL	5
593085.4	4152108	16.1949	9.46	810.56	1.5	ANNUAL	HAUL	5
593105.4	4152108	15.86724	9.71	810.56	1.5	ANNUAL	HAUL	5
593125.4	4152108	15.44667	9.74	810.56	1.5	ANNUAL	HAUL	5
593145.4	4152108	14.93156	9.8	810.56	1.5	ANNUAL	HAUL	5
593165.4	4152108	14.32469	9.82	810.56	1.5	ANNUAL	HAUL	5
593185.4	4152108	13.63385	9.79	810.56	1.5	ANNUAL	HAUL	5
593205.4	4152108	12.8799	9.84	810.56	1.5	ANNUAL	HAUL	5
593225.4	4152108	12.0762	9.92	810.56	1.5	ANNUAL	HAUL	5
593245.4	4152108	11.2208	9.72	810.56	1.5	ANNUAL	HAUL	5
593265.4	4152108	10.35691	9.81	810.56	1.5	ANNUAL	HAUL	5
592545.4	4152128	6.41026	8.67	810.56	1.5	ANNUAL	HAUL	5
592565.4	4152128	8.93181	8.54	810.56	1.5	ANNUAL	HAUL	5
592585.4	4152128	13.04868	8.54	810.56	1.5	ANNUAL	HAUL	5
592605.4	4152128	20.80703	8.52	810.56	1.5	ANNUAL	HAUL	5
592625.4	4152128	29.21429	8.54	810.56	1.5	ANNUAL	HAUL	5
592645.4	4152128	32.14933	8.46	810.56	1.5	ANNUAL	HAUL	5
592665.4	4152128	31.95617	8.42	810.56	1.5	ANNUAL	HAUL	5
592685.4	4152128	30.71161	8.41	810.56	1.5	ANNUAL	HAUL	5
592705.4	4152128	29.90184	7.16	810.56	1.5	ANNUAL	HAUL	5
592725.4	4152128	28.27133	8.16	810.56	1.5	ANNUAL	HAUL	5
592745.4	4152128	26.96794	8.55	810.56	1.5	ANNUAL	HAUL	5
592765.4	4152128	26.0444	8.37	810.56	1.5	ANNUAL	HAUL	5
592785.4	4152128	25.12103	8.28	810.56	1.5	ANNUAL	HAUL	5
592805.4	4152128	24.19389	8.39	810.56	1.5	ANNUAL	HAUL	5
592825.4	4152128	23.39845	8.42	810.56	1.5	ANNUAL	HAUL	5
592845.4	4152128	22.66301	8.59	810.56	1.5	ANNUAL	HAUL	5
592865.4	4152128	22.01515	8.86	810.56	1.5	ANNUAL	HAUL	5
592885.4	4152128	21.6529	8.66	810.56	1.5	ANNUAL	HAUL	5
592905.4	4152128	21.34227	8.79	810.56	1.5	ANNUAL	HAUL	5
592925.4	4152128	21.18345	8.9	810.56	1.5	ANNUAL	HAUL	5
592945.4	4152128	21.11421	9.07	810.56	1.5	ANNUAL	HAUL	5
592965.4	4152128	21.14337	9.07	810.56	1.5	ANNUAL	HAUL	5
592985.4	4152128	21.11754	9.36	810.56	1.5	ANNUAL	HAUL	5
593005.4	4152128	21.13542	9.35	810.56	1.5	ANNUAL	HAUL	5
593025.4	4152128	21.11489	9.1	810.56	1.5	ANNUAL	HAUL	5
593045.4	4152128	20.94876	8.96	810.56	1.5	ANNUAL	HAUL	5
593065.4	4152128	20.64365	9.01	810.56	1.5	ANNUAL	HAUL	5
593085.4	4152128	20.21889	9.38	810.56	1.5	ANNUAL	HAUL	5
593105.4	4152128	19.63148	9.41	810.56	1.5	ANNUAL	HAUL	5
593125.4	4152128	18.90485	9.52	810.56	1.5	ANNUAL	HAUL	5
593145.4	4152128	18.0359	9.55	810.56	1.5	ANNUAL	HAUL	5
593165.4	4152128	17.05517	9.66	810.56	1.5	ANNUAL	HAUL	5
593185.4	4152128	15.97487	9.72	810.56	1.5	ANNUAL	HAUL	5
593205.4	4152128	14.83783	9.79	810.56	1.5	ANNUAL	HAUL	5
593225.4	4152128	13.66837	9.81	810.56	1.5	ANNUAL	HAUL	5
593245.4	4152128	12.46844	9.6	810.56	1.5	ANNUAL	HAUL	5
593265.4	4152128	11.29215	9.62	810.56	1.5	ANNUAL	HAUL	5
592565.4	4152148	14.19378	8.32	810.56	1.5	ANNUAL	HAUL	5
592585.4	4152148	18.01438	8.38	810.56	1.5	ANNUAL	HAUL	5
592605.4	4152148	43.94522	8.38	810.56	1.5	ANNUAL	HAUL	5
592625.4	4152148	62.3814	8.34	810.56	1.5	ANNUAL	HAUL	5
592645.4	4152148	56.02266	8.3	810.56	1.5	ANNUAL	HAUL	5
592665.4	4152148	50.07542	8.44	810.56	1.5	ANNUAL	HAUL	5
592685.4	4152148	45.78939	8.35	810.56	1.5	ANNUAL	HAUL	5
592705.4	4152148	43.18254	6.58	810.56	1.5	ANNUAL	HAUL	5
592725.4	4152148	39.76774	8.64	810.56	1.5	ANNUAL	HAUL	5
592745.4	4152148	37.57142	8.58	810.56	1.5	ANNUAL	HAUL	5
592765.4	4152148	35.50291	8.56	810.56	1.5	ANNUAL	HAUL	5
592785.4	4152148	33.82763	8.28	810.56	1.5	ANNUAL	HAUL	5
592805.4	4152148	32.19752	8.26	810.56	1.5	ANNUAL	HAUL	5
592825.4	4152148	30.63575	8.58	810.56	1.5	ANNUAL	HAUL	5
592845.4	4152148	29.497	8.62	810.56	1.5	ANNUAL	HAUL	5

592865.4	4152148	28.49184	8.91	810.56	1.5	ANNUAL	HAUL	5
592885.4	4152148	27.95356	8.91	810.56	1.5	ANNUAL	HAUL	5
592905.4	4152148	27.75048	8.87	810.56	1.5	ANNUAL	HAUL	5
592925.4	4152148	27.71403	8.96	810.56	1.5	ANNUAL	HAUL	5
592945.4	4152148	27.83071	8.95	810.56	1.5	ANNUAL	HAUL	5
592965.4	4152148	27.85359	9.25	810.56	1.5	ANNUAL	HAUL	5
592985.4	4152148	27.95861	9.27	810.56	1.5	ANNUAL	HAUL	5
593005.4	4152148	27.91755	9.53	810.56	1.5	ANNUAL	HAUL	5
593025.4	4152148	27.81687	9.56	810.56	1.5	ANNUAL	HAUL	5
593045.4	4152148	27.51853	9.35	810.56	1.5	ANNUAL	HAUL	5
593065.4	4152148	26.94541	9.41	810.56	1.5	ANNUAL	HAUL	5
593085.4	4152148	26.13002	9.6	810.56	1.5	ANNUAL	HAUL	5
593105.4	4152148	25.00563	9.5	810.56	1.5	ANNUAL	HAUL	5
593125.4	4152148	23.69353	9.56	810.56	1.5	ANNUAL	HAUL	5
593145.4	4152148	22.14055	9.4	810.56	1.5	ANNUAL	HAUL	5
593165.4	4152148	20.49507	9.47	810.56	1.5	ANNUAL	HAUL	5
593185.4	4152148	18.75512	9.43	810.56	1.5	ANNUAL	HAUL	5
593205.4	4152148	17.05746	9.53	810.56	1.5	ANNUAL	HAUL	5
593225.4	4152148	15.38091	9.5	810.56	1.5	ANNUAL	HAUL	5
593245.4	4152148	13.73411	9.36	810.56	1.5	ANNUAL	HAUL	5
593265.4	4152148	12.21658	9.9	810.56	1.5	ANNUAL	HAUL	5
592565.4	4152168	24.11666	8.51	810.56	1.5	ANNUAL	HAUL	5
592585.4	4152168	50.39095	8.39	810.56	1.5	ANNUAL	HAUL	5
592605.4	4152168	52.01473	8.33	810.56	1.5	ANNUAL	HAUL	5
592625.4	4152168	41.12426	8.19	810.56	1.5	ANNUAL	HAUL	5
592645.4	4152168	46.49296	8.27	810.56	1.5	ANNUAL	HAUL	5
592665.4	4152168	80.92632	8.6	810.56	1.5	ANNUAL	HAUL	5
592685.4	4152168	73.42552	8.09	810.56	1.5	ANNUAL	HAUL	5
592705.4	4152168	66.83939	8.19	810.56	1.5	ANNUAL	HAUL	5
592725.4	4152168	60.25489	8.68	810.56	1.5	ANNUAL	HAUL	5
592745.4	4152168	55.46866	8.6	810.56	1.5	ANNUAL	HAUL	5
592765.4	4152168	51.19284	8.6	810.56	1.5	ANNUAL	HAUL	5
592785.4	4152168	47.66925	8.53	810.56	1.5	ANNUAL	HAUL	5
592805.4	4152168	44.7529	8.48	810.56	1.5	ANNUAL	HAUL	5
592825.4	4152168	42.23125	8.6	810.56	1.5	ANNUAL	HAUL	5
592845.4	4152168	40.13759	8.85	810.56	1.5	ANNUAL	HAUL	5
592865.4	4152168	39.05398	8.71	810.56	1.5	ANNUAL	HAUL	5
592885.4	4152168	38.67082	8.64	810.56	1.5	ANNUAL	HAUL	5
592905.4	4152168	38.59746	8.85	810.56	1.5	ANNUAL	HAUL	5
592925.4	4152168	38.80407	8.98	810.56	1.5	ANNUAL	HAUL	5
592945.4	4152168	39.21027	8.89	810.56	1.5	ANNUAL	HAUL	5
592965.4	4152168	39.1843	9.37	810.56	1.5	ANNUAL	HAUL	5
592985.4	4152168	39.46274	9.27	810.56	1.5	ANNUAL	HAUL	5
593005.4	4152168	39.23636	9.78	810.56	1.5	ANNUAL	HAUL	5
593025.4	4152168	38.94872	9.96	810.56	1.5	ANNUAL	HAUL	5
593045.4	4152168	38.32474	9.8	810.56	1.5	ANNUAL	HAUL	5
593065.4	4152168	37.09788	9.77	810.56	1.5	ANNUAL	HAUL	5
593085.4	4152168	35.31658	9.81	810.56	1.5	ANNUAL	HAUL	5
593105.4	4152168	33.05406	9.74	810.56	1.5	ANNUAL	HAUL	5
593125.4	4152168	30.56564	9.76	810.56	1.5	ANNUAL	HAUL	5
593145.4	4152168	27.75201	9.63	810.56	1.5	ANNUAL	HAUL	5
593165.4	4152168	24.89417	9.62	810.56	1.5	ANNUAL	HAUL	5
593185.4	4152168	22.11664	9.52	810.56	1.5	ANNUAL	HAUL	5
593205.4	4152168	19.59773	9.52	810.56	1.5	ANNUAL	HAUL	5
593225.4	4152168	17.20143	9.3	810.56	1.5	ANNUAL	HAUL	5
593245.4	4152168	14.97888	9.31	810.56	1.5	ANNUAL	HAUL	5
592585.4	4152188	36.02364	8.71	810.56	1.5	ANNUAL	HAUL	5
592605.4	4152188	47.67172	8.45	810.56	1.5	ANNUAL	HAUL	5
592625.4	4152188	60.48273	8.45	810.56	1.5	ANNUAL	HAUL	5
592645.4	4152188	77.69661	8.45	810.56	1.5	ANNUAL	HAUL	5
592665.4	4152188	48.15044	8.47	810.56	1.5	ANNUAL	HAUL	5
592685.4	4152188	38.19181	8.53	810.56	1.5	ANNUAL	HAUL	5
592705.4	4152188	41.24632	8.77	810.56	1.5	ANNUAL	HAUL	5

592725.4	4152188	80.7756	8.64	810.56	1.5	ANNUAL	HAUL	5
592745.4	4152188	91.18103	8.61	810.56	1.5	ANNUAL	HAUL	5
592765.4	4152188	80.58742	8.7	810.56	1.5	ANNUAL	HAUL	5
592785.4	4152188	73.07359	8.69	810.56	1.5	ANNUAL	HAUL	5
592805.4	4152188	67.19417	8.71	810.56	1.5	ANNUAL	HAUL	5
592825.4	4152188	62.47055	8.76	810.56	1.5	ANNUAL	HAUL	5
592845.4	4152188	59.1821	8.84	810.56	1.5	ANNUAL	HAUL	5
592865.4	4152188	58.08465	8.93	810.56	1.5	ANNUAL	HAUL	5
592885.4	4152188	58.6249	8.93	810.56	1.5	ANNUAL	HAUL	5
592905.4	4152188	59.56797	8.83	810.56	1.5	ANNUAL	HAUL	5
592925.4	4152188	60.38012	8.78	810.56	1.5	ANNUAL	HAUL	5
592945.4	4152188	60.96481	8.85	810.56	1.5	ANNUAL	HAUL	5
592965.4	4152188	61.33998	8.99	810.56	1.5	ANNUAL	HAUL	5
592985.4	4152188	61.28998	9.32	810.56	1.5	ANNUAL	HAUL	5
593005.4	4152188	60.18995	10.25	810.56	1.5	ANNUAL	HAUL	5
593025.4	4152188	59.64065	10.32	810.56	1.5	ANNUAL	HAUL	5
593045.4	4152188	58.13618	10.2	810.56	1.5	ANNUAL	HAUL	5
593065.4	4152188	54.84218	10.09	810.56	1.5	ANNUAL	HAUL	5
593085.4	4152188	50.36901	10.02	810.56	1.5	ANNUAL	HAUL	5
593105.4	4152188	45.58029	9.97	810.56	1.5	ANNUAL	HAUL	5
593125.4	4152188	40.53064	9.94	810.56	1.5	ANNUAL	HAUL	5
593145.4	4152188	35.21817	9.86	810.56	1.5	ANNUAL	HAUL	5
593165.4	4152188	30.37984	9.83	810.56	1.5	ANNUAL	HAUL	5
593185.4	4152188	26.19423	9.76	810.56	1.5	ANNUAL	HAUL	5
593205.4	4152188	22.58117	9.68	810.56	1.5	ANNUAL	HAUL	5
593225.4	4152188	19.22795	9.47	810.56	1.5	ANNUAL	HAUL	5
593245.4	4152188	16.14051	9.69	810.56	1.5	ANNUAL	HAUL	5
592585.4	4152208	27.77511	8.8	810.56	1.5	ANNUAL	HAUL	5
592605.4	4152208	34.15242	8.5	810.56	1.5	ANNUAL	HAUL	5
592625.4	4152208	40.53999	8.79	810.56	1.5	ANNUAL	HAUL	5
592645.4	4152208	47.95747	8.67	810.56	1.5	ANNUAL	HAUL	5
592665.4	4152208	55.91545	8.35	810.56	1.5	ANNUAL	HAUL	5
592685.4	4152208	63.41469	8.61	810.56	1.5	ANNUAL	HAUL	5
592705.4	4152208	72.12788	8.82	810.56	1.5	ANNUAL	HAUL	5
592725.4	4152208	83.90914	8.68	810.56	1.5	ANNUAL	HAUL	5
592745.4	4152208	51.48841	8.77	810.56	1.5	ANNUAL	HAUL	5
592765.4	4152208	54.60962	8.85	810.56	1.5	ANNUAL	HAUL	5
592785.4	4152208	61.11992	8.87	810.56	1.5	ANNUAL	HAUL	5
592805.4	4152208	67.98739	8.93	810.56	1.5	ANNUAL	HAUL	5
592825.4	4152208	81.89249	9	810.56	1.5	ANNUAL	HAUL	5
592845.4	4152208	83.42265	9.02	810.56	1.5	ANNUAL	HAUL	5
592865.4	4152208	86.41054	9.04	810.56	1.5	ANNUAL	HAUL	5
592885.4	4152208	88.11073	9.07	810.56	1.5	ANNUAL	HAUL	5
592905.4	4152208	89.02567	9.2	810.56	1.5	ANNUAL	HAUL	5
592925.4	4152208	90.12907	9.19	810.56	1.5	ANNUAL	HAUL	5
592945.4	4152208	91.10926	9.16	810.56	1.5	ANNUAL	HAUL	5
592965.4	4152208	91.33359	9.33	810.56	1.5	ANNUAL	HAUL	5
592985.4	4152208	90.21987	9.87	810.56	1.5	ANNUAL	HAUL	5
593005.4	4152208	87.65391	10.87	810.56	1.5	ANNUAL	HAUL	5
593025.4	4152208	87.0241	10.86	810.56	1.5	ANNUAL	HAUL	5
593045.4	4152208	101.5657	11.23	810.56	1.5	ANNUAL	HAUL	5
593065.4	4152208	91.65981	11.22	810.56	1.5	ANNUAL	HAUL	5
593085.4	4152208	80.4912	11.21	810.56	1.5	ANNUAL	HAUL	5
593105.4	4152208	67.17284	10.67	810.56	1.5	ANNUAL	HAUL	5
593125.4	4152208	54.50149	10.25	810.56	1.5	ANNUAL	HAUL	5
593145.4	4152208	44.88132	10.05	810.56	1.5	ANNUAL	HAUL	5
593165.4	4152208	37.56649	10.05	810.56	1.5	ANNUAL	HAUL	5
593185.4	4152208	31.58139	10.02	810.56	1.5	ANNUAL	HAUL	5
593205.4	4152208	26.36215	9.88	810.56	1.5	ANNUAL	HAUL	5
593225.4	4152208	21.24186	9.5	810.56	1.5	ANNUAL	HAUL	5
592605.4	4152228	26.44504	8.45	810.56	1.5	ANNUAL	HAUL	5
592625.4	4152228	30.1366	8.67	810.56	1.5	ANNUAL	HAUL	5
592645.4	4152228	33.91147	8.73	810.56	1.5	ANNUAL	HAUL	5

592665.4	4152228	38.59974	6.99	810.56	1.5	ANNUAL	HAUL	5
592685.4	4152228	41.71608	8.8	810.56	1.5	ANNUAL	HAUL	5
592705.4	4152228	46.22019	8.7	810.56	1.5	ANNUAL	HAUL	5
592725.4	4152228	51.22771	8.67	810.56	1.5	ANNUAL	HAUL	5
592745.4	4152228	56.95612	8.67	810.56	1.5	ANNUAL	HAUL	5
592765.4	4152228	63.02078	8.91	810.56	1.5	ANNUAL	HAUL	5
592785.4	4152228	70.62144	8.89	810.56	1.5	ANNUAL	HAUL	5
592805.4	4152228	80.02502	8.98	810.56	1.5	ANNUAL	HAUL	5
592825.4	4152228	91.83325	9.14	810.56	1.5	ANNUAL	HAUL	5
592845.4	4152228	81.4186	9.22	810.56	1.5	ANNUAL	HAUL	5
592865.4	4152228	82.77542	9.31	810.56	1.5	ANNUAL	HAUL	5
592885.4	4152228	83.4931	9.38	810.56	1.5	ANNUAL	HAUL	5
592905.4	4152228	83.58198	9.46	810.56	1.5	ANNUAL	HAUL	5
592925.4	4152228	83.28652	9.54	810.56	1.5	ANNUAL	HAUL	5
592945.4	4152228	82.62037	9.7	810.56	1.5	ANNUAL	HAUL	5
592965.4	4152228	96.14779	9.99	810.56	1.5	ANNUAL	HAUL	5
592985.4	4152228	95.85021	10.43	810.56	1.5	ANNUAL	HAUL	5
593005.4	4152228	80.82584	11.02	810.56	1.5	ANNUAL	HAUL	5
593025.4	4152228	79.93708	11.79	810.56	1.5	ANNUAL	HAUL	5
593045.4	4152228	57.09733	12.68	810.56	1.5	ANNUAL	HAUL	5
593065.4	4152228	55.34247	13.63	810.56	1.5	ANNUAL	HAUL	5
593085.4	4152228	52.62038	14.49	810.56	1.5	ANNUAL	HAUL	5
593105.4	4152228	50.39937	14.95	810.56	1.5	ANNUAL	HAUL	5
593125.4	4152228	65.54639	14.64	810.56	1.5	ANNUAL	HAUL	5
593145.4	4152228	67.17119	13.55	810.56	1.5	ANNUAL	HAUL	5
593165.4	4152228	50.83673	11.79	810.56	1.5	ANNUAL	HAUL	5
593185.4	4152228	40.43263	10.78	810.56	1.5	ANNUAL	HAUL	5
593205.4	4152228	31.31697	9.81	810.56	1.5	ANNUAL	HAUL	5
593225.4	4152228	22.17688	9.47	810.56	1.5	ANNUAL	HAUL	5
592605.4	4152248	21.28429	8.83	810.56	1.5	ANNUAL	HAUL	5
592625.4	4152248	23.64779	8.83	810.56	1.5	ANNUAL	HAUL	5
592645.4	4152248	26.32132	7.98	810.56	1.5	ANNUAL	HAUL	5
592665.4	4152248	28.65182	8.16	810.56	1.5	ANNUAL	HAUL	5
592685.4	4152248	30.73429	8.91	810.56	1.5	ANNUAL	HAUL	5
592705.4	4152248	33.4167	8.78	810.56	1.5	ANNUAL	HAUL	5
592725.4	4152248	36.24926	8.77	810.56	1.5	ANNUAL	HAUL	5
592745.4	4152248	39.25729	8.86	810.56	1.5	ANNUAL	HAUL	5
592765.4	4152248	42.7235	8.78	810.56	1.5	ANNUAL	HAUL	5
592785.4	4152248	46.50977	8.78	810.56	1.5	ANNUAL	HAUL	5
592805.4	4152248	50.2435	8.93	810.56	1.5	ANNUAL	HAUL	5
592825.4	4152248	52.80366	9.21	810.56	1.5	ANNUAL	HAUL	5
592845.4	4152248	53.89828	9.44	810.56	1.5	ANNUAL	HAUL	5
592865.4	4152248	54.41208	9.54	810.56	1.5	ANNUAL	HAUL	5
592885.4	4152248	54.61023	9.59	810.56	1.5	ANNUAL	HAUL	5
592905.4	4152248	54.51891	9.64	810.56	1.5	ANNUAL	HAUL	5
592925.4	4152248	54.26583	9.68	810.56	1.5	ANNUAL	HAUL	5
592945.4	4152248	53.89467	9.78	810.56	1.5	ANNUAL	HAUL	5
592965.4	4152248	53.60124	9.92	810.56	1.5	ANNUAL	HAUL	5
592985.4	4152248	53.4194	10	810.56	1.5	ANNUAL	HAUL	5
593005.4	4152248	53.05345	10.53	810.56	1.5	ANNUAL	HAUL	5
593025.4	4152248	52.70036	10.37	810.56	1.5	ANNUAL	HAUL	5
593045.4	4152248	53.74487	11.37	810.56	1.5	ANNUAL	HAUL	5
593065.4	4152248	55.63266	12.79	810.56	1.5	ANNUAL	HAUL	5
593085.4	4152248	58.91791	14.34	810.56	1.5	ANNUAL	HAUL	5
593105.4	4152248	67.35479	15.76	810.56	1.5	ANNUAL	HAUL	5
593125.4	4152248	59.15662	16.85	810.56	1.5	ANNUAL	HAUL	5
593145.4	4152248	43.43593	17.63	810.56	1.5	ANNUAL	HAUL	5
593165.4	4152248	39.48329	17.75	810.56	1.5	ANNUAL	HAUL	5
593185.4	4152248	68.85461	16.62	810.56	1.5	ANNUAL	HAUL	5
593205.4	4152248	34.62266	12.85	810.56	1.5	ANNUAL	HAUL	5
592625.4	4152268	19.44867	8.87	810.56	1.5	ANNUAL	HAUL	5
592645.4	4152268	21.27678	6.8	810.56	1.5	ANNUAL	HAUL	5
592665.4	4152268	22.62489	8.9	810.56	1.5	ANNUAL	HAUL	5

592685.4	4152268	24.28703	8.84	810.56	1.5	ANNUAL	HAUL	5
592705.4	4152268	25.99745	8.86	810.56	1.5	ANNUAL	HAUL	5
592725.4	4152268	27.77945	8.92	810.56	1.5	ANNUAL	HAUL	5
592745.4	4152268	29.71209	8.85	810.56	1.5	ANNUAL	HAUL	5
592765.4	4152268	31.71589	8.79	810.56	1.5	ANNUAL	HAUL	5
592785.4	4152268	33.67817	8.73	810.56	1.5	ANNUAL	HAUL	5
592805.4	4152268	35.34602	8.67	810.56	1.5	ANNUAL	HAUL	5
592825.4	4152268	36.4966	8.61	810.56	1.5	ANNUAL	HAUL	5
592845.4	4152268	37.04255	8.74	810.56	1.5	ANNUAL	HAUL	5
592865.4	4152268	37.28346	8.82	810.56	1.5	ANNUAL	HAUL	5
592885.4	4152268	37.33137	8.82	810.56	1.5	ANNUAL	HAUL	5
592905.4	4152268	37.20219	8.8	810.56	1.5	ANNUAL	HAUL	5
592925.4	4152268	36.92267	8.78	810.56	1.5	ANNUAL	HAUL	5
592945.4	4152268	36.49983	8.84	810.56	1.5	ANNUAL	HAUL	5
592965.4	4152268	35.98378	8.93	810.56	1.5	ANNUAL	HAUL	5
592985.4	4152268	35.34286	8.95	810.56	1.5	ANNUAL	HAUL	5
593005.4	4152268	34.8449	9.24	810.56	1.5	ANNUAL	HAUL	5
593025.4	4152268	33.95954	8.95	810.56	1.5	ANNUAL	HAUL	5
593045.4	4152268	33.512	8.97	810.56	1.5	ANNUAL	HAUL	5
593065.4	4152268	33.62465	9.05	810.56	1.5	ANNUAL	HAUL	5
593085.4	4152268	35.06423	9.57	810.56	1.5	ANNUAL	HAUL	5
593105.4	4152268	38.83514	11.39	810.56	1.5	ANNUAL	HAUL	5
593125.4	4152268	46.1878	14.34	810.56	1.5	ANNUAL	HAUL	5
593145.4	4152268	55.94399	16.92	810.56	1.5	ANNUAL	HAUL	5
593165.4	4152268	61.40463	18.42	810.56	1.5	ANNUAL	HAUL	5
593185.4	4152268	24.62256	18.84	810.56	1.5	ANNUAL	HAUL	5
592645.4	4152288	17.8789	7.31	810.56	1.5	ANNUAL	HAUL	5
592665.4	4152288	18.79079	9.05	810.56	1.5	ANNUAL	HAUL	5
592685.4	4152288	20.01067	8.82	810.56	1.5	ANNUAL	HAUL	5
592705.4	4152288	21.2106	8.81	810.56	1.5	ANNUAL	HAUL	5
592725.4	4152288	22.41224	8.87	810.56	1.5	ANNUAL	HAUL	5
592745.4	4152288	23.69841	8.6	810.56	1.5	ANNUAL	HAUL	5
592765.4	4152288	24.90075	8.44	810.56	1.5	ANNUAL	HAUL	5
592785.4	4152288	25.94712	8.33	810.56	1.5	ANNUAL	HAUL	5
592805.4	4152288	26.72863	8.35	810.56	1.5	ANNUAL	HAUL	5
592825.4	4152288	27.20292	8.52	810.56	1.5	ANNUAL	HAUL	5
592845.4	4152288	27.45067	8.66	810.56	1.5	ANNUAL	HAUL	5
592865.4	4152288	27.52719	8.77	810.56	1.5	ANNUAL	HAUL	5
592885.4	4152288	27.48859	8.79	810.56	1.5	ANNUAL	HAUL	5
592905.4	4152288	27.3349	8.8	810.56	1.5	ANNUAL	HAUL	5
592925.4	4152288	27.08383	8.8	810.56	1.5	ANNUAL	HAUL	5
592945.4	4152288	26.7506	8.89	810.56	1.5	ANNUAL	HAUL	5
592965.4	4152288	26.34901	8.88	810.56	1.5	ANNUAL	HAUL	5
592985.4	4152288	25.90496	8.89	810.56	1.5	ANNUAL	HAUL	5
593005.4	4152288	25.47792	8.94	810.56	1.5	ANNUAL	HAUL	5
593025.4	4152288	25.1181	8.99	810.56	1.5	ANNUAL	HAUL	5
593045.4	4152288	24.90573	9.02	810.56	1.5	ANNUAL	HAUL	5
593065.4	4152288	24.97624	9.08	810.56	1.5	ANNUAL	HAUL	5
593085.4	4152288	25.35813	9.11	810.56	1.5	ANNUAL	HAUL	5
593105.4	4152288	25.98433	9.12	810.56	1.5	ANNUAL	HAUL	5
593125.4	4152288	26.55799	9.16	810.56	1.5	ANNUAL	HAUL	5
593145.4	4152288	26.5617	10.37	810.56	1.5	ANNUAL	HAUL	5
593165.4	4152288	24.48312	13.53	810.56	1.5	ANNUAL	HAUL	5
592665.4	4152308	16.06545	8.97	810.56	1.5	ANNUAL	HAUL	5
592685.4	4152308	16.93387	8.88	810.56	1.5	ANNUAL	HAUL	5
592705.4	4152308	17.82349	8.62	810.56	1.5	ANNUAL	HAUL	5
592725.4	4152308	18.66164	8.56	810.56	1.5	ANNUAL	HAUL	5
592745.4	4152308	19.45179	8.49	810.56	1.5	ANNUAL	HAUL	5
592765.4	4152308	20.1332	8.54	810.56	1.5	ANNUAL	HAUL	5
592785.4	4152308	20.6844	8.61	810.56	1.5	ANNUAL	HAUL	5
592805.4	4152308	21.1644	8.24	810.56	1.5	ANNUAL	HAUL	5
592825.4	4152308	21.42407	8.26	810.56	1.5	ANNUAL	HAUL	5
592845.4	4152308	21.54545	8.27	810.56	1.5	ANNUAL	HAUL	5

592865.4	4152308	21.54118	8.37	810.56	1.5	ANNUAL	HAUL	5
592885.4	4152308	21.43692	8.54	810.56	1.5	ANNUAL	HAUL	5
592905.4	4152308	21.26069	8.74	810.56	1.5	ANNUAL	HAUL	5
592925.4	4152308	21.03471	8.84	810.56	1.5	ANNUAL	HAUL	5
592945.4	4152308	20.76969	8.99	810.56	1.5	ANNUAL	HAUL	5
592965.4	4152308	20.46906	9.02	810.56	1.5	ANNUAL	HAUL	5
592985.4	4152308	20.14469	9.01	810.56	1.5	ANNUAL	HAUL	5
593005.4	4152308	19.7935	8.89	810.56	1.5	ANNUAL	HAUL	5
593025.4	4152308	19.46887	8.78	810.56	1.5	ANNUAL	HAUL	5
593045.4	4152308	19.24479	8.8	810.56	1.5	ANNUAL	HAUL	5
593065.4	4152308	19.08264	8.84	810.56	1.5	ANNUAL	HAUL	5
593085.4	4152308	18.90784	8.89	810.56	1.5	ANNUAL	HAUL	5
593105.4	4152308	18.55481	8.98	810.56	1.5	ANNUAL	HAUL	5
593125.4	4152308	17.69129	9.08	810.56	1.5	ANNUAL	HAUL	5
593145.4	4152308	15.89957	9.15	810.56	1.5	ANNUAL	HAUL	5
592685.4	4152328	14.58435	9.05	810.56	1.5	ANNUAL	HAUL	5
592705.4	4152328	15.2193	8.75	810.56	1.5	ANNUAL	HAUL	5
592725.4	4152328	15.80119	8.57	810.56	1.5	ANNUAL	HAUL	5
592745.4	4152328	16.25974	8.93	810.56	1.5	ANNUAL	HAUL	5
592765.4	4152328	16.68333	8.91	810.56	1.5	ANNUAL	HAUL	5
592785.4	4152328	17.0214	8.83	810.56	1.5	ANNUAL	HAUL	5
592805.4	4152328	17.30954	8.3	810.56	1.5	ANNUAL	HAUL	5
592825.4	4152328	17.40445	8.65	810.56	1.5	ANNUAL	HAUL	5
592845.4	4152328	17.44591	8.67	810.56	1.5	ANNUAL	HAUL	5
592865.4	4152328	17.41707	8.6	810.56	1.5	ANNUAL	HAUL	5
592885.4	4152328	17.31724	8.53	810.56	1.5	ANNUAL	HAUL	5
592905.4	4152328	17.15406	8.5	810.56	1.5	ANNUAL	HAUL	5
592925.4	4152328	16.94095	8.51	810.56	1.5	ANNUAL	HAUL	5
592945.4	4152328	16.70019	8.63	810.56	1.5	ANNUAL	HAUL	5
592965.4	4152328	16.45756	8.89	810.56	1.5	ANNUAL	HAUL	5
592985.4	4152328	16.19885	9.04	810.56	1.5	ANNUAL	HAUL	5
593005.4	4152328	15.9254	9.11	810.56	1.5	ANNUAL	HAUL	5
593025.4	4152328	15.61171	9.02	810.56	1.5	ANNUAL	HAUL	5
593045.4	4152328	15.27763	8.98	810.56	1.5	ANNUAL	HAUL	5
593065.4	4152328	14.8574	8.89	810.56	1.5	ANNUAL	HAUL	5
593085.4	4152328	14.27007	8.74	810.56	1.5	ANNUAL	HAUL	5
593105.4	4152328	13.44805	8.73	810.56	1.5	ANNUAL	HAUL	5
593125.4	4152328	12.25895	8.76	810.56	1.5	ANNUAL	HAUL	5
592725.4	4152348	13.58198	8.63	810.56	1.5	ANNUAL	HAUL	5
592745.4	4152348	13.87954	8.97	810.56	1.5	ANNUAL	HAUL	5
592765.4	4152348	14.13247	9.07	810.56	1.5	ANNUAL	HAUL	5
592785.4	4152348	14.34111	8.89	810.56	1.5	ANNUAL	HAUL	5
592805.4	4152348	14.50077	8.37	810.56	1.5	ANNUAL	HAUL	5
592825.4	4152348	14.52799	8.79	810.56	1.5	ANNUAL	HAUL	5
592845.4	4152348	14.51862	8.85	810.56	1.5	ANNUAL	HAUL	5
592865.4	4152348	14.45651	8.91	810.56	1.5	ANNUAL	HAUL	5
592885.4	4152348	14.3481	9.02	810.56	1.5	ANNUAL	HAUL	5
592905.4	4152348	14.20236	9.02	810.56	1.5	ANNUAL	HAUL	5
592925.4	4152348	14.01797	8.97	810.56	1.5	ANNUAL	HAUL	5
592945.4	4152348	13.79236	8.83	810.56	1.5	ANNUAL	HAUL	5
592965.4	4152348	13.52973	8.68	810.56	1.5	ANNUAL	HAUL	5
592985.4	4152348	13.2538	8.7	810.56	1.5	ANNUAL	HAUL	5
593005.4	4152348	12.98213	8.97	810.56	1.5	ANNUAL	HAUL	5
593025.4	4152348	12.66694	9.2	810.56	1.5	ANNUAL	HAUL	5
593045.4	4152348	12.2546	9.24	810.56	1.5	ANNUAL	HAUL	5
593065.4	4152348	11.70048	9.09	810.56	1.5	ANNUAL	HAUL	5
593085.4	4152348	10.98576	8.9	810.56	1.5	ANNUAL	HAUL	5
593105.4	4152348	10.10902	8.85	810.56	1.5	ANNUAL	HAUL	5
592765.4	4152368	12.16746	9.07	810.56	1.5	ANNUAL	HAUL	5
592785.4	4152368	12.28651	8.9	810.56	1.5	ANNUAL	HAUL	5
592805.4	4152368	12.36351	8.44	810.56	1.5	ANNUAL	HAUL	5
592825.4	4152368	12.35372	8.85	810.56	1.5	ANNUAL	HAUL	5
592845.4	4152368	12.31015	9.02	810.56	1.5	ANNUAL	HAUL	5

592865.4	4152368	12.23083	9.08	810.56	1.5	ANNUAL	HAUL	5
592885.4	4152368	12.11576	9.19	810.56	1.5	ANNUAL	HAUL	5
592905.4	4152368	11.96862	9.16	810.56	1.5	ANNUAL	HAUL	5
592925.4	4152368	11.7888	9.15	810.56	1.5	ANNUAL	HAUL	5
592945.4	4152368	11.57576	9.11	810.56	1.5	ANNUAL	HAUL	5
592965.4	4152368	11.33308	9.13	810.56	1.5	ANNUAL	HAUL	5
592985.4	4152368	11.04209	9	810.56	1.5	ANNUAL	HAUL	5
593005.4	4152368	10.69798	8.83	810.56	1.5	ANNUAL	HAUL	5
593025.4	4152368	10.30989	8.83	810.56	1.5	ANNUAL	HAUL	5
593045.4	4152368	9.8701	9.06	810.56	1.5	ANNUAL	HAUL	5
593065.4	4152368	9.32966	9.24	810.56	1.5	ANNUAL	HAUL	5
592825.4	4152388	10.65214	8.57	810.56	1.5	ANNUAL	HAUL	5
592845.4	4152388	10.58669	8.69	810.56	1.5	ANNUAL	HAUL	5
592865.4	4152388	10.48913	8.88	810.56	1.5	ANNUAL	HAUL	5
592885.4	4152388	10.36335	9.06	810.56	1.5	ANNUAL	HAUL	5
592905.4	4152388	10.2099	9.18	810.56	1.5	ANNUAL	HAUL	5
592925.4	4152388	10.02791	9.27	810.56	1.5	ANNUAL	HAUL	5
592945.4	4152388	9.81395	9.3	810.56	1.5	ANNUAL	HAUL	5
592965.4	4152388	9.56371	9.29	810.56	1.5	ANNUAL	HAUL	5
592985.4	4152388	9.27421	9.3	810.56	1.5	ANNUAL	HAUL	5
593005.4	4152388	8.93572	9.29	810.56	1.5	ANNUAL	HAUL	5

** CONCUNIT ug/m^3
** DEPUNIT g/m^2

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*         AERMOD (23132 ):  C:\43990 Fremont Blvd\4399 Fremont Blvd.isc  2/8/2024
*         AERMET (  18081):   17:03:50
*         MODELIN( OPTIONS  USED:  RegDFAUL CONC  ELEV  FLGPOL  URBAN  ADJ_U*
*         PLOT  FILE  OF  ANNUAL  VALUES  AVERAGEI ACROSS      5 YEARS  FOR  SOURCE  GROUP:  OPS
*         FOR  A  TOTAL  OF  1147 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)
*         X  Y  AVERAGE  CONC  ZELEV  ZHILL  ZFLAG  AVE  GRP  NUM  YRS  NET  ID
*
_________ _________ _________ _____ _____ _____ _____ _____ _____ _____
 592825.4 4151648 0.37791  8.06 810.56   1.5 ANNUAL OPS          5
 592845.4 4151648 0.39038  7.95 810.56   1.5 ANNUAL OPS          5
 592865.4 4151648 0.40348     8 810.56   1.5 ANNUAL OPS          5
 592885.4 4151648  0.4184  7.64 810.56   1.5 ANNUAL OPS          5
 592905.4 4151648 0.43384  7.61 810.56   1.5 ANNUAL OPS          5
 592925.4 4151648  0.4508  7.35 810.56   1.5 ANNUAL OPS          5
 592945.4 4151648 0.46871  7.08 810.56   1.5 ANNUAL OPS          5
 592965.4 4151648  0.4877   7.2 810.56   1.5 ANNUAL OPS          5
 592985.4 4151648 0.50741  7.53 810.56   1.5 ANNUAL OPS          5
 592765.4 4151668 0.37051  8.34 810.56   1.5 ANNUAL OPS          5
 592785.4 4151668 0.38194  8.35 810.56   1.5 ANNUAL OPS          5
 592805.4 4151668  0.3941  8.38 810.56   1.5 ANNUAL OPS          5
 592825.4 4151668 0.40815  8.02 810.56   1.5 ANNUAL OPS          5
 592845.4 4151668 0.42267  7.88 810.56   1.5 ANNUAL OPS          5
 592865.4 4151668 0.43793  7.92 810.56   1.5 ANNUAL OPS          5
 592885.4 4151668 0.45446  7.95 810.56   1.5 ANNUAL OPS          5
 592905.4 4151668 0.47186  8.13 810.56   1.5 ANNUAL OPS          5
 592925.4 4151668 0.49112  8.13 810.56   1.5 ANNUAL OPS          5
 592945.4 4151668 0.51229  7.95 810.56   1.5 ANNUAL OPS          5
 592965.4 4151668 0.53451  7.86 810.56   1.5 ANNUAL OPS          5
 592985.4 4151668 0.55733  7.97 810.56   1.5 ANNUAL OPS          5
 593005.4 4151668 0.58249  7.64 810.56   1.5 ANNUAL OPS          5
 593025.4 4151668 0.60824  7.32 810.56   1.5 ANNUAL OPS          5
 593045.4 4151668 0.63424   7.2 810.56   1.5 ANNUAL OPS          5
 592725.4 4151688 0.37645  7.62 810.56   1.5 ANNUAL OPS          5
 592745.4 4151688 0.38726  8.11 810.56   1.5 ANNUAL OPS          5
 592765.4 4151688 0.39891  8.39 810.56   1.5 ANNUAL OPS          5
 592785.4 4151688 0.41211  8.39 810.56   1.5 ANNUAL OPS          5
 592805.4 4151688 0.42637  8.36 810.56   1.5 ANNUAL OPS          5
 592825.4 4151688  0.4427     8 810.56   1.5 ANNUAL OPS          5
 592845.4 4151688 0.45983  7.79 810.56   1.5 ANNUAL OPS          5
 592865.4 4151688 0.47789  7.76 810.56   1.5 ANNUAL OPS          5
 592885.4 4151688 0.49682  7.96 810.56   1.5 ANNUAL OPS          5
 592905.4 4151688 0.51729  8.12 810.56   1.5 ANNUAL OPS          5
 592925.4 4151688 0.53985  8.11 810.56   1.5 ANNUAL OPS          5
 592945.4 4151688 0.56418  8.03 810.56   1.5 ANNUAL OPS          5
 592965.4 4151688 0.58923  8.13 810.56   1.5 ANNUAL OPS          5
 592985.4 4151688 0.61522  8.29 810.56   1.5 ANNUAL OPS          5
 593005.4 4151688 0.64311  8.25 810.56   1.5 ANNUAL OPS          5
 593025.4 4151688 0.67228  8.12 810.56   1.5 ANNUAL OPS          5
 593045.4 4151688 0.69936  8.55 810.56   1.5 ANNUAL OPS          5
 593065.4 4151688 0.72823  8.68 810.56   1.5 ANNUAL OPS          5
 593085.4 4151688 0.76047  8.21 810.56   1.5 ANNUAL OPS          5
 592705.4 4151708 0.39293  5.52 810.56   1.5 ANNUAL OPS          5
 592725.4 4151708 0.40526  7.74 810.56   1.5 ANNUAL OPS          5
 592745.4 4151708 0.41753  8.23 810.56   1.5 ANNUAL OPS          5
 592765.4 4151708 0.43173  8.27 810.56   1.5 ANNUAL OPS          5
 592785.4 4151708 0.44712  8.26 810.56   1.5 ANNUAL OPS          5
 592805.4 4151708 0.46381  8.22 810.56   1.5 ANNUAL OPS          5
 592825.4 4151708 0.48263  7.95 810.56   1.5 ANNUAL OPS          5
 592845.4 4151708 0.50268  7.77 810.56   1.5 ANNUAL OPS          5
 592865.4 4151708 0.52403  7.72 810.56   1.5 ANNUAL OPS          5
 592885.4 4151708 0.54644   7.9 810.56   1.5 ANNUAL OPS          5
 592905.4 4151708 0.57065  8.04 810.56   1.5 ANNUAL OPS          5
 592925.4 4151708 0.59705  8.05 810.56   1.5 ANNUAL OPS          5
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592945.4	4151708	0.62553	7.95	810.56	1.5	ANNUAL	OPS	5
592965.4	4151708	0.65374	8.24	810.56	1.5	ANNUAL	OPS	5
592985.4	4151708	0.68451	8.23	810.56	1.5	ANNUAL	OPS	5
593005.4	4151708	0.71647	8.18	810.56	1.5	ANNUAL	OPS	5
593025.4	4151708	0.7476	8.41	810.56	1.5	ANNUAL	OPS	5
593045.4	4151708	0.77845	8.74	810.56	1.5	ANNUAL	OPS	5
593065.4	4151708	0.81236	8.58	810.56	1.5	ANNUAL	OPS	5
593085.4	4151708	0.84817	8.08	810.56	1.5	ANNUAL	OPS	5
593105.4	4151708	0.88238	7.69	810.56	1.5	ANNUAL	OPS	5
593125.4	4151708	0.91313	8.04	810.56	1.5	ANNUAL	OPS	5
592685.4	4151728	0.4101	7.47	810.56	1.5	ANNUAL	OPS	5
592705.4	4151728	0.42419	6.87	810.56	1.5	ANNUAL	OPS	5
592725.4	4151728	0.43877	7.36	810.56	1.5	ANNUAL	OPS	5
592745.4	4151728	0.45208	8.32	810.56	1.5	ANNUAL	OPS	5
592765.4	4151728	0.46882	8.3	810.56	1.5	ANNUAL	OPS	5
592785.4	4151728	0.48721	8.19	810.56	1.5	ANNUAL	OPS	5
592805.4	4151728	0.50692	8.14	810.56	1.5	ANNUAL	OPS	5
592825.4	4151728	0.52906	7.89	810.56	1.5	ANNUAL	OPS	5
592845.4	4151728	0.55229	7.87	810.56	1.5	ANNUAL	OPS	5
592865.4	4151728	0.57721	7.93	810.56	1.5	ANNUAL	OPS	5
592885.4	4151728	0.60212	8.42	810.56	1.5	ANNUAL	OPS	5
592905.4	4151728	0.63255	8.16	810.56	1.5	ANNUAL	OPS	5
592925.4	4151728	0.66366	8.15	810.56	1.5	ANNUAL	OPS	5
592945.4	4151728	0.69519	8.37	810.56	1.5	ANNUAL	OPS	5
592965.4	4151728	0.72868	8.48	810.56	1.5	ANNUAL	OPS	5
592985.4	4151728	0.76513	8.29	810.56	1.5	ANNUAL	OPS	5
593005.4	4151728	0.80042	8.42	810.56	1.5	ANNUAL	OPS	5
593025.4	4151728	0.83537	8.66	810.56	1.5	ANNUAL	OPS	5
593045.4	4151728	0.87225	8.63	810.56	1.5	ANNUAL	OPS	5
593065.4	4151728	0.90891	8.61	810.56	1.5	ANNUAL	OPS	5
593085.4	4151728	0.94601	8.47	810.56	1.5	ANNUAL	OPS	5
593105.4	4151728	0.98183	8.42	810.56	1.5	ANNUAL	OPS	5
593125.4	4151728	1.01712	8.32	810.56	1.5	ANNUAL	OPS	5
593145.4	4151728	1.05193	8.12	810.56	1.5	ANNUAL	OPS	5
592645.4	4151748	0.41344	7.7	810.56	1.5	ANNUAL	OPS	5
592665.4	4151748	0.42772	7.75	810.56	1.5	ANNUAL	OPS	5
592685.4	4151748	0.44218	7.99	810.56	1.5	ANNUAL	OPS	5
592705.4	4151748	0.45838	7.9	810.56	1.5	ANNUAL	OPS	5
592725.4	4151748	0.47659	6.01	810.56	1.5	ANNUAL	OPS	5
592745.4	4151748	0.49194	8.35	810.56	1.5	ANNUAL	OPS	5
592765.4	4151748	0.51077	8.52	810.56	1.5	ANNUAL	OPS	5
592785.4	4151748	0.53179	8.56	810.56	1.5	ANNUAL	OPS	5
592805.4	4151748	0.55464	8.61	810.56	1.5	ANNUAL	OPS	5
592825.4	4151748	0.58229	8.12	810.56	1.5	ANNUAL	OPS	5
592845.4	4151748	0.61062	7.96	810.56	1.5	ANNUAL	OPS	5
592865.4	4151748	0.64122	7.83	810.56	1.5	ANNUAL	OPS	5
592885.4	4151748	0.67161	8.22	810.56	1.5	ANNUAL	OPS	5
592905.4	4151748	0.706	8.24	810.56	1.5	ANNUAL	OPS	5
592925.4	4151748	0.7441	7.97	810.56	1.5	ANNUAL	OPS	5
592945.4	4151748	0.77919	8.47	810.56	1.5	ANNUAL	OPS	5
592965.4	4151748	0.8184	8.51	810.56	1.5	ANNUAL	OPS	5
592985.4	4151748	0.85822	8.59	810.56	1.5	ANNUAL	OPS	5
593005.4	4151748	0.89867	8.65	810.56	1.5	ANNUAL	OPS	5
593025.4	4151748	0.93992	8.62	810.56	1.5	ANNUAL	OPS	5
593045.4	4151748	0.98085	8.6	810.56	1.5	ANNUAL	OPS	5
593065.4	4151748	1.02072	8.64	810.56	1.5	ANNUAL	OPS	5
593085.4	4151748	1.06059	8.57	810.56	1.5	ANNUAL	OPS	5
593105.4	4151748	1.09952	8.48	810.56	1.5	ANNUAL	OPS	5
593125.4	4151748	1.1361	8.52	810.56	1.5	ANNUAL	OPS	5
593145.4	4151748	1.17097	8.59	810.56	1.5	ANNUAL	OPS	5
593165.4	4151748	1.20506	8.56	810.56	1.5	ANNUAL	OPS	5
592625.4	4151768	0.43142	7.47	810.56	1.5	ANNUAL	OPS	5
592645.4	4151768	0.44591	8.02	810.56	1.5	ANNUAL	OPS	5

592665.4	4151768	0.46211	8.11	810.56	1.5	ANNUAL	OPS	5
592685.4	4151768	0.47949	8.12	810.56	1.5	ANNUAL	OPS	5
592705.4	4151768	0.49829	8.04	810.56	1.5	ANNUAL	OPS	5
592725.4	4151768	0.52015	5.85	810.56	1.5	ANNUAL	OPS	5
592745.4	4151768	0.53997	7.94	810.56	1.5	ANNUAL	OPS	5
592765.4	4151768	0.56224	8.18	810.56	1.5	ANNUAL	OPS	5
592785.4	4151768	0.58734	8.24	810.56	1.5	ANNUAL	OPS	5
592805.4	4151768	0.61491	8.28	810.56	1.5	ANNUAL	OPS	5
592825.4	4151768	0.64643	8.08	810.56	1.5	ANNUAL	OPS	5
592845.4	4151768	0.67992	8.03	810.56	1.5	ANNUAL	OPS	5
592865.4	4151768	0.71619	7.98	810.56	1.5	ANNUAL	OPS	5
592885.4	4151768	0.75428	8.07	810.56	1.5	ANNUAL	OPS	5
592905.4	4151768	0.79452	8.18	810.56	1.5	ANNUAL	OPS	5
592925.4	4151768	0.83805	8.1	810.56	1.5	ANNUAL	OPS	5
592945.4	4151768	0.88079	8.34	810.56	1.5	ANNUAL	OPS	5
592965.4	4151768	0.92585	8.4	810.56	1.5	ANNUAL	OPS	5
592985.4	4151768	0.97008	8.62	810.56	1.5	ANNUAL	OPS	5
593005.4	4151768	1.01664	8.57	810.56	1.5	ANNUAL	OPS	5
593025.4	4151768	1.06275	8.53	810.56	1.5	ANNUAL	OPS	5
593045.4	4151768	1.10661	8.65	810.56	1.5	ANNUAL	OPS	5
593065.4	4151768	1.15076	8.61	810.56	1.5	ANNUAL	OPS	5
593085.4	4151768	1.19448	8.46	810.56	1.5	ANNUAL	OPS	5
593105.4	4151768	1.23436	8.55	810.56	1.5	ANNUAL	OPS	5
593125.4	4151768	1.27304	8.57	810.56	1.5	ANNUAL	OPS	5
593145.4	4151768	1.30813	8.77	810.56	1.5	ANNUAL	OPS	5
593165.4	4151768	1.34103	8.99	810.56	1.5	ANNUAL	OPS	5
593185.4	4151768	1.37392	8.98	810.56	1.5	ANNUAL	OPS	5
592625.4	4151788	0.46734	7.39	810.56	1.5	ANNUAL	OPS	5
592645.4	4151788	0.48457	7.82	810.56	1.5	ANNUAL	OPS	5
592665.4	4151788	0.50276	8.08	810.56	1.5	ANNUAL	OPS	5
592685.4	4151788	0.52279	8.14	810.56	1.5	ANNUAL	OPS	5
592705.4	4151788	0.54458	8.12	810.56	1.5	ANNUAL	OPS	5
592725.4	4151788	0.57087	7.25	810.56	1.5	ANNUAL	OPS	5
592745.4	4151788	0.59587	7.52	810.56	1.5	ANNUAL	OPS	5
592765.4	4151788	0.62098	8.19	810.56	1.5	ANNUAL	OPS	5
592785.4	4151788	0.65086	8.31	810.56	1.5	ANNUAL	OPS	5
592805.4	4151788	0.68525	8.19	810.56	1.5	ANNUAL	OPS	5
592825.4	4151788	0.72389	7.91	810.56	1.5	ANNUAL	OPS	5
592845.4	4151788	0.76299	8.09	810.56	1.5	ANNUAL	OPS	5
592865.4	4151788	0.80689	8.01	810.56	1.5	ANNUAL	OPS	5
592885.4	4151788	0.85054	8.34	810.56	1.5	ANNUAL	OPS	5
592905.4	4151788	0.89729	8.54	810.56	1.5	ANNUAL	OPS	5
592925.4	4151788	0.94796	8.5	810.56	1.5	ANNUAL	OPS	5
592945.4	4151788	0.99962	8.49	810.56	1.5	ANNUAL	OPS	5
592965.4	4151788	1.05054	8.62	810.56	1.5	ANNUAL	OPS	5
592985.4	4151788	1.10271	8.62	810.56	1.5	ANNUAL	OPS	5
593005.4	4151788	1.15582	8.47	810.56	1.5	ANNUAL	OPS	5
593025.4	4151788	1.20513	8.59	810.56	1.5	ANNUAL	OPS	5
593045.4	4151788	1.25559	8.45	810.56	1.5	ANNUAL	OPS	5
593065.4	4151788	1.30306	8.42	810.56	1.5	ANNUAL	OPS	5
593085.4	4151788	1.34697	8.53	810.56	1.5	ANNUAL	OPS	5
593105.4	4151788	1.38826	8.67	810.56	1.5	ANNUAL	OPS	5
593125.4	4151788	1.42943	8.59	810.56	1.5	ANNUAL	OPS	5
593145.4	4151788	1.4637	8.94	810.56	1.5	ANNUAL	OPS	5
593165.4	4151788	1.49603	9.24	810.56	1.5	ANNUAL	OPS	5
593185.4	4151788	1.52911	9.22	810.56	1.5	ANNUAL	OPS	5
593205.4	4151788	1.5597	9.19	810.56	1.5	ANNUAL	OPS	5
592605.4	4151808	0.48722	7.78	810.56	1.5	ANNUAL	OPS	5
592625.4	4151808	0.50652	8	810.56	1.5	ANNUAL	OPS	5
592645.4	4151808	0.52937	7.47	810.56	1.5	ANNUAL	OPS	5
592665.4	4151808	0.55004	7.98	810.56	1.5	ANNUAL	OPS	5
592685.4	4151808	0.57501	7.72	810.56	1.5	ANNUAL	OPS	5
592705.4	4151808	0.60084	7.71	810.56	1.5	ANNUAL	OPS	5

592725.4	4151808	0.6284	7.83	810.56	1.5	ANNUAL	OPS	5
592745.4	4151808	0.66132	6.28	810.56	1.5	ANNUAL	OPS	5
592765.4	4151808	0.69085	8.19	810.56	1.5	ANNUAL	OPS	5
592785.4	4151808	0.72598	8.48	810.56	1.5	ANNUAL	OPS	5
592805.4	4151808	0.76777	8.38	810.56	1.5	ANNUAL	OPS	5
592825.4	4151808	0.81488	8.12	810.56	1.5	ANNUAL	OPS	5
592845.4	4151808	0.86384	8.11	810.56	1.5	ANNUAL	OPS	5
592865.4	4151808	0.91695	8.02	810.56	1.5	ANNUAL	OPS	5
592885.4	4151808	0.96838	8.43	810.56	1.5	ANNUAL	OPS	5
592905.4	4151808	1.0245	8.55	810.56	1.5	ANNUAL	OPS	5
592925.4	4151808	1.08352	8.53	810.56	1.5	ANNUAL	OPS	5
592945.4	4151808	1.14177	8.64	810.56	1.5	ANNUAL	OPS	5
592965.4	4151808	1.20169	8.59	810.56	1.5	ANNUAL	OPS	5
592985.4	4151808	1.26186	8.45	810.56	1.5	ANNUAL	OPS	5
593005.4	4151808	1.31769	8.56	810.56	1.5	ANNUAL	OPS	5
593025.4	4151808	1.37388	8.47	810.56	1.5	ANNUAL	OPS	5
593045.4	4151808	1.42791	8.36	810.56	1.5	ANNUAL	OPS	5
593065.4	4151808	1.47861	8.3	810.56	1.5	ANNUAL	OPS	5
593085.4	4151808	1.52474	8.39	810.56	1.5	ANNUAL	OPS	5
593105.4	4151808	1.56634	8.61	810.56	1.5	ANNUAL	OPS	5
593125.4	4151808	1.60746	8.61	810.56	1.5	ANNUAL	OPS	5
593145.4	4151808	1.64498	8.66	810.56	1.5	ANNUAL	OPS	5
593165.4	4151808	1.67614	9.01	810.56	1.5	ANNUAL	OPS	5
593185.4	4151808	1.70699	9.13	810.56	1.5	ANNUAL	OPS	5
593205.4	4151808	1.73524	9.22	810.56	1.5	ANNUAL	OPS	5
593225.4	4151808	1.76138	9.23	810.56	1.5	ANNUAL	OPS	5
592585.4	4151828	0.50813	7.92	810.56	1.5	ANNUAL	OPS	5
592605.4	4151828	0.53242	7.32	810.56	1.5	ANNUAL	OPS	5
592625.4	4151828	0.55322	8.07	810.56	1.5	ANNUAL	OPS	5
592645.4	4151828	0.57913	7.82	810.56	1.5	ANNUAL	OPS	5
592665.4	4151828	0.60651	7.55	810.56	1.5	ANNUAL	OPS	5
592685.4	4151828	0.63455	7.66	810.56	1.5	ANNUAL	OPS	5
592705.4	4151828	0.66572	7.59	810.56	1.5	ANNUAL	OPS	5
592725.4	4151828	0.6978	7.95	810.56	1.5	ANNUAL	OPS	5
592745.4	4151828	0.73874	5.75	810.56	1.5	ANNUAL	OPS	5
592765.4	4151828	0.77442	8.25	810.56	1.5	ANNUAL	OPS	5
592785.4	4151828	0.81749	8.56	810.56	1.5	ANNUAL	OPS	5
592805.4	4151828	0.86995	8.36	810.56	1.5	ANNUAL	OPS	5
592825.4	4151828	0.92703	8.18	810.56	1.5	ANNUAL	OPS	5
592845.4	4151828	0.98729	8.12	810.56	1.5	ANNUAL	OPS	5
592865.4	4151828	1.05078	8.1	810.56	1.5	ANNUAL	OPS	5
592885.4	4151828	1.11276	8.45	810.56	1.5	ANNUAL	OPS	5
592905.4	4151828	1.17949	8.52	810.56	1.5	ANNUAL	OPS	5
592925.4	4151828	1.24716	8.57	810.56	1.5	ANNUAL	OPS	5
592945.4	4151828	1.3144	8.63	810.56	1.5	ANNUAL	OPS	5
592965.4	4151828	1.38431	8.4	810.56	1.5	ANNUAL	OPS	5
592985.4	4151828	1.44697	8.57	810.56	1.5	ANNUAL	OPS	5
593005.4	4151828	1.51038	8.49	810.56	1.5	ANNUAL	OPS	5
593025.4	4151828	1.57162	8.34	810.56	1.5	ANNUAL	OPS	5
593045.4	4151828	1.62728	8.35	810.56	1.5	ANNUAL	OPS	5
593065.4	4151828	1.67904	8.38	810.56	1.5	ANNUAL	OPS	5
593085.4	4151828	1.72816	8.32	810.56	1.5	ANNUAL	OPS	5
593105.4	4151828	1.77053	8.5	810.56	1.5	ANNUAL	OPS	5
593125.4	4151828	1.81165	8.49	810.56	1.5	ANNUAL	OPS	5
593145.4	4151828	1.84931	8.47	810.56	1.5	ANNUAL	OPS	5
593165.4	4151828	1.88216	8.56	810.56	1.5	ANNUAL	OPS	5
593185.4	4151828	1.91164	8.65	810.56	1.5	ANNUAL	OPS	5
593205.4	4151828	1.93605	8.89	810.56	1.5	ANNUAL	OPS	5
593225.4	4151828	1.95835	9.03	810.56	1.5	ANNUAL	OPS	5
592585.4	4151848	0.55333	8.25	810.56	1.5	ANNUAL	OPS	5
592605.4	4151848	0.57993	8.16	810.56	1.5	ANNUAL	OPS	5
592625.4	4151848	0.6078	8.09	810.56	1.5	ANNUAL	OPS	5
592645.4	4151848	0.63768	7.97	810.56	1.5	ANNUAL	OPS	5

592665.4	4151848	0.67054	7.7	810.56	1.5	ANNUAL	OPS	5
592685.4	4151848	0.70427	7.77	810.56	1.5	ANNUAL	OPS	5
592705.4	4151848	0.7385	8.21	810.56	1.5	ANNUAL	OPS	5
592725.4	4151848	0.77943	8.25	810.56	1.5	ANNUAL	OPS	5
592745.4	4151848	0.83239	7.13	810.56	1.5	ANNUAL	OPS	5
592765.4	4151848	0.8833	7.45	810.56	1.5	ANNUAL	OPS	5
592785.4	4151848	0.93071	8.55	810.56	1.5	ANNUAL	OPS	5
592805.4	4151848	0.99657	8.29	810.56	1.5	ANNUAL	OPS	5
592825.4	4151848	1.06609	8.19	810.56	1.5	ANNUAL	OPS	5
592845.4	4151848	1.13987	8.12	810.56	1.5	ANNUAL	OPS	5
592865.4	4151848	1.2148	8.23	810.56	1.5	ANNUAL	OPS	5
592885.4	4151848	1.28997	8.46	810.56	1.5	ANNUAL	OPS	5
592905.4	4151848	1.36893	8.47	810.56	1.5	ANNUAL	OPS	5
592925.4	4151848	1.44737	8.48	810.56	1.5	ANNUAL	OPS	5
592945.4	4151848	1.52307	8.56	810.56	1.5	ANNUAL	OPS	5
592965.4	4151848	1.59688	8.59	810.56	1.5	ANNUAL	OPS	5
592985.4	4151848	1.66898	8.51	810.56	1.5	ANNUAL	OPS	5
593005.4	4151848	1.73799	8.37	810.56	1.5	ANNUAL	OPS	5
593025.4	4151848	1.80115	8.32	810.56	1.5	ANNUAL	OPS	5
593045.4	4151848	1.85685	8.46	810.56	1.5	ANNUAL	OPS	5
593065.4	4151848	1.90862	8.55	810.56	1.5	ANNUAL	OPS	5
593085.4	4151848	1.95838	8.47	810.56	1.5	ANNUAL	OPS	5
593105.4	4151848	2.00289	8.44	810.56	1.5	ANNUAL	OPS	5
593125.4	4151848	2.04172	8.51	810.56	1.5	ANNUAL	OPS	5
593145.4	4151848	2.07722	8.53	810.56	1.5	ANNUAL	OPS	5
593165.4	4151848	2.1075	8.65	810.56	1.5	ANNUAL	OPS	5
593185.4	4151848	2.13514	8.69	810.56	1.5	ANNUAL	OPS	5
593205.4	4151848	2.15907	8.73	810.56	1.5	ANNUAL	OPS	5
593225.4	4151848	2.18041	8.67	810.56	1.5	ANNUAL	OPS	5
593245.4	4151848	2.19514	8.84	810.56	1.5	ANNUAL	OPS	5
592565.4	4151868	0.57688	8.47	810.56	1.5	ANNUAL	OPS	5
592585.4	4151868	0.60757	8.26	810.56	1.5	ANNUAL	OPS	5
592605.4	4151868	0.6399	8.03	810.56	1.5	ANNUAL	OPS	5
592625.4	4151868	0.67248	8.03	810.56	1.5	ANNUAL	OPS	5
592645.4	4151868	0.70483	8.34	810.56	1.5	ANNUAL	OPS	5
592665.4	4151868	0.74296	8.27	810.56	1.5	ANNUAL	OPS	5
592685.4	4151868	0.78883	7.7	810.56	1.5	ANNUAL	OPS	5
592705.4	4151868	0.8302	8.24	810.56	1.5	ANNUAL	OPS	5
592725.4	4151868	0.88061	8.32	810.56	1.5	ANNUAL	OPS	5
592745.4	4151868	0.94268	7.92	810.56	1.5	ANNUAL	OPS	5
592765.4	4151868	1.01365	6.06	810.56	1.5	ANNUAL	OPS	5
592785.4	4151868	1.07346	8.42	810.56	1.5	ANNUAL	OPS	5
592805.4	4151868	1.15497	8.22	810.56	1.5	ANNUAL	OPS	5
592825.4	4151868	1.24117	8.11	810.56	1.5	ANNUAL	OPS	5
592845.4	4151868	1.33021	8.11	810.56	1.5	ANNUAL	OPS	5
592865.4	4151868	1.42174	8.12	810.56	1.5	ANNUAL	OPS	5
592885.4	4151868	1.51314	8.19	810.56	1.5	ANNUAL	OPS	5
592905.4	4151868	1.60102	8.41	810.56	1.5	ANNUAL	OPS	5
592925.4	4151868	1.68845	8.51	810.56	1.5	ANNUAL	OPS	5
592945.4	4151868	1.77745	8.32	810.56	1.5	ANNUAL	OPS	5
592965.4	4151868	1.85524	8.5	810.56	1.5	ANNUAL	OPS	5
592985.4	4151868	1.93316	8.38	810.56	1.5	ANNUAL	OPS	5
593005.4	4151868	2.00526	8.26	810.56	1.5	ANNUAL	OPS	5
593025.4	4151868	2.06635	8.44	810.56	1.5	ANNUAL	OPS	5
593045.4	4151868	2.12366	8.5	810.56	1.5	ANNUAL	OPS	5
593065.4	4151868	2.17462	8.6	810.56	1.5	ANNUAL	OPS	5
593085.4	4151868	2.22281	8.55	810.56	1.5	ANNUAL	OPS	5
593105.4	4151868	2.26472	8.57	810.56	1.5	ANNUAL	OPS	5
593125.4	4151868	2.2965	8.92	810.56	1.5	ANNUAL	OPS	5
593145.4	4151868	2.32785	9.04	810.56	1.5	ANNUAL	OPS	5
593165.4	4151868	2.35853	8.94	810.56	1.5	ANNUAL	OPS	5
593185.4	4151868	2.38528	8.82	810.56	1.5	ANNUAL	OPS	5
593205.4	4151868	2.40645	8.79	810.56	1.5	ANNUAL	OPS	5

593225.4	4151868	2.42307	8.78	810.56	1.5	ANNUAL	OPS	5
593245.4	4151868	2.43437	8.84	810.56	1.5	ANNUAL	OPS	5
592565.4	4151888	0.63941	7.84	810.56	1.5	ANNUAL	OPS	5
592585.4	4151888	0.67376	7.94	810.56	1.5	ANNUAL	OPS	5
592605.4	4151888	0.7108	7.91	810.56	1.5	ANNUAL	OPS	5
592625.4	4151888	0.74894	8.03	810.56	1.5	ANNUAL	OPS	5
592645.4	4151888	0.78792	8.35	810.56	1.5	ANNUAL	OPS	5
592665.4	4151888	0.83359	8.36	810.56	1.5	ANNUAL	OPS	5
592685.4	4151888	0.89064	7.77	810.56	1.5	ANNUAL	OPS	5
592705.4	4151888	0.94608	7.98	810.56	1.5	ANNUAL	OPS	5
592725.4	4151888	1.01156	7.95	810.56	1.5	ANNUAL	OPS	5
592745.4	4151888	1.08472	8	810.56	1.5	ANNUAL	OPS	5
592765.4	4151888	1.17623	6.26	810.56	1.5	ANNUAL	OPS	5
592785.4	4151888	1.25928	7.99	810.56	1.5	ANNUAL	OPS	5
592805.4	4151888	1.3561	8.13	810.56	1.5	ANNUAL	OPS	5
592825.4	4151888	1.45915	8.22	810.56	1.5	ANNUAL	OPS	5
592845.4	4151888	1.56885	8.13	810.56	1.5	ANNUAL	OPS	5
592865.4	4151888	1.67599	8.23	810.56	1.5	ANNUAL	OPS	5
592885.4	4151888	1.78168	8.33	810.56	1.5	ANNUAL	OPS	5
592905.4	4151888	1.88012	8.61	810.56	1.5	ANNUAL	OPS	5
592925.4	4151888	1.98544	8.33	810.56	1.5	ANNUAL	OPS	5
592945.4	4151888	2.07657	8.43	810.56	1.5	ANNUAL	OPS	5
592965.4	4151888	2.16787	8.18	810.56	1.5	ANNUAL	OPS	5
592985.4	4151888	2.24494	8.27	810.56	1.5	ANNUAL	OPS	5
593005.4	4151888	2.31162	8.5	810.56	1.5	ANNUAL	OPS	5
593025.4	4151888	2.37444	8.56	810.56	1.5	ANNUAL	OPS	5
593045.4	4151888	2.43131	8.57	810.56	1.5	ANNUAL	OPS	5
593065.4	4151888	2.48145	8.59	810.56	1.5	ANNUAL	OPS	5
593085.4	4151888	2.52711	8.53	810.56	1.5	ANNUAL	OPS	5
593105.4	4151888	2.56586	8.54	810.56	1.5	ANNUAL	OPS	5
593125.4	4151888	2.59316	8.9	810.56	1.5	ANNUAL	OPS	5
593145.4	4151888	2.62099	8.99	810.56	1.5	ANNUAL	OPS	5
593165.4	4151888	2.64552	9.02	810.56	1.5	ANNUAL	OPS	5
593185.4	4151888	2.66698	8.97	810.56	1.5	ANNUAL	OPS	5
593205.4	4151888	2.68413	8.9	810.56	1.5	ANNUAL	OPS	5
593225.4	4151888	2.69438	8.97	810.56	1.5	ANNUAL	OPS	5
593245.4	4151888	2.69934	9.06	810.56	1.5	ANNUAL	OPS	5
593265.4	4151888	2.70026	9.04	810.56	1.5	ANNUAL	OPS	5
592565.4	4151908	0.7077	7.96	810.56	1.5	ANNUAL	OPS	5
592585.4	4151908	0.75008	7.92	810.56	1.5	ANNUAL	OPS	5
592605.4	4151908	0.79442	7.93	810.56	1.5	ANNUAL	OPS	5
592625.4	4151908	0.84374	7.74	810.56	1.5	ANNUAL	OPS	5
592645.4	4151908	0.8947	7.83	810.56	1.5	ANNUAL	OPS	5
592665.4	4151908	0.94929	8.06	810.56	1.5	ANNUAL	OPS	5
592685.4	4151908	1.01661	7.82	810.56	1.5	ANNUAL	OPS	5
592705.4	4151908	1.08626	8.1	810.56	1.5	ANNUAL	OPS	5
592725.4	4151908	1.17212	7.97	810.56	1.5	ANNUAL	OPS	5
592745.4	4151908	1.26959	7.85	810.56	1.5	ANNUAL	OPS	5
592765.4	4151908	1.38389	7.3	810.56	1.5	ANNUAL	OPS	5
592785.4	4151908	1.50215	6.62	810.56	1.5	ANNUAL	OPS	5
592805.4	4151908	1.62205	7.6	810.56	1.5	ANNUAL	OPS	5
592825.4	4151908	1.73756	8.29	810.56	1.5	ANNUAL	OPS	5
592845.4	4151908	1.86419	8.42	810.56	1.5	ANNUAL	OPS	5
592865.4	4151908	1.9977	8.18	810.56	1.5	ANNUAL	OPS	5
592885.4	4151908	2.11224	8.53	810.56	1.5	ANNUAL	OPS	5
592905.4	4151908	2.2275	8.57	810.56	1.5	ANNUAL	OPS	5
592925.4	4151908	2.33699	8.51	810.56	1.5	ANNUAL	OPS	5
592945.4	4151908	2.4382	8.41	810.56	1.5	ANNUAL	OPS	5
592965.4	4151908	2.52523	8.49	810.56	1.5	ANNUAL	OPS	5
592985.4	4151908	2.61026	8.25	810.56	1.5	ANNUAL	OPS	5
593005.4	4151908	2.67545	8.46	810.56	1.5	ANNUAL	OPS	5
593025.4	4151908	2.73116	8.7	810.56	1.5	ANNUAL	OPS	5
593045.4	4151908	2.78526	8.68	810.56	1.5	ANNUAL	OPS	5

593065.4	4151908	2.83355	8.6	810.56	1.5	ANNUAL	OPS	5
593085.4	4151908	2.87312	8.62	810.56	1.5	ANNUAL	OPS	5
593105.4	4151908	2.90633	8.67	810.56	1.5	ANNUAL	OPS	5
593125.4	4151908	2.93502	8.69	810.56	1.5	ANNUAL	OPS	5
593145.4	4151908	2.95946	8.68	810.56	1.5	ANNUAL	OPS	5
593165.4	4151908	2.97986	8.63	810.56	1.5	ANNUAL	OPS	5
593185.4	4151908	2.99353	8.69	810.56	1.5	ANNUAL	OPS	5
593205.4	4151908	3.00368	8.66	810.56	1.5	ANNUAL	OPS	5
593225.4	4151908	3.00327	8.97	810.56	1.5	ANNUAL	OPS	5
593245.4	4151908	2.99984	9.1	810.56	1.5	ANNUAL	OPS	5
593265.4	4151908	2.99141	9.12	810.56	1.5	ANNUAL	OPS	5
592545.4	4151928	0.74147	7.96	810.56	1.5	ANNUAL	OPS	5
592565.4	4151928	0.78963	8	810.56	1.5	ANNUAL	OPS	5
592585.4	4151928	0.84107	7.97	810.56	1.5	ANNUAL	OPS	5
592605.4	4151928	0.89563	7.95	810.56	1.5	ANNUAL	OPS	5
592625.4	4151928	0.95427	7.95	810.56	1.5	ANNUAL	OPS	5
592645.4	4151928	1.02125	7.76	810.56	1.5	ANNUAL	OPS	5
592665.4	4151928	1.09096	7.97	810.56	1.5	ANNUAL	OPS	5
592685.4	4151928	1.17535	7.88	810.56	1.5	ANNUAL	OPS	5
592705.4	4151928	1.26085	8.43	810.56	1.5	ANNUAL	OPS	5
592725.4	4151928	1.37277	8.33	810.56	1.5	ANNUAL	OPS	5
592745.4	4151928	1.50304	8.1	810.56	1.5	ANNUAL	OPS	5
592765.4	4151928	1.64801	7.83	810.56	1.5	ANNUAL	OPS	5
592785.4	4151928	1.80766	6.68	810.56	1.5	ANNUAL	OPS	5
592805.4	4151928	1.94568	8.11	810.56	1.5	ANNUAL	OPS	5
592825.4	4151928	2.09529	8.35	810.56	1.5	ANNUAL	OPS	5
592845.4	4151928	2.25562	8.1	810.56	1.5	ANNUAL	OPS	5
592865.4	4151928	2.40054	8.16	810.56	1.5	ANNUAL	OPS	5
592885.4	4151928	2.52732	8.51	810.56	1.5	ANNUAL	OPS	5
592905.4	4151928	2.65367	8.49	810.56	1.5	ANNUAL	OPS	5
592925.4	4151928	2.76851	8.44	810.56	1.5	ANNUAL	OPS	5
592945.4	4151928	2.86615	8.54	810.56	1.5	ANNUAL	OPS	5
592965.4	4151928	2.95345	8.57	810.56	1.5	ANNUAL	OPS	5
592985.4	4151928	3.03502	8.39	810.56	1.5	ANNUAL	OPS	5
593005.4	4151928	3.10268	8.31	810.56	1.5	ANNUAL	OPS	5
593025.4	4151928	3.15629	8.4	810.56	1.5	ANNUAL	OPS	5
593045.4	4151928	3.2012	8.5	810.56	1.5	ANNUAL	OPS	5
593065.4	4151928	3.24115	8.51	810.56	1.5	ANNUAL	OPS	5
593085.4	4151928	3.27224	8.62	810.56	1.5	ANNUAL	OPS	5
593105.4	4151928	3.29947	8.66	810.56	1.5	ANNUAL	OPS	5
593125.4	4151928	3.32444	8.57	810.56	1.5	ANNUAL	OPS	5
593145.4	4151928	3.33717	8.82	810.56	1.5	ANNUAL	OPS	5
593165.4	4151928	3.34902	8.89	810.56	1.5	ANNUAL	OPS	5
593185.4	4151928	3.35805	8.84	810.56	1.5	ANNUAL	OPS	5
593205.4	4151928	3.35882	8.92	810.56	1.5	ANNUAL	OPS	5
593225.4	4151928	3.3553	8.87	810.56	1.5	ANNUAL	OPS	5
593245.4	4151928	3.34116	9.03	810.56	1.5	ANNUAL	OPS	5
593265.4	4151928	3.32096	9.05	810.56	1.5	ANNUAL	OPS	5
592545.4	4151948	0.82966	7.96	810.56	1.5	ANNUAL	OPS	5
592565.4	4151948	0.88901	7.99	810.56	1.5	ANNUAL	OPS	5
592585.4	4151948	0.95192	8.01	810.56	1.5	ANNUAL	OPS	5
592605.4	4151948	1.01976	7.99	810.56	1.5	ANNUAL	OPS	5
592625.4	4151948	1.09422	7.94	810.56	1.5	ANNUAL	OPS	5
592645.4	4151948	1.17892	7.8	810.56	1.5	ANNUAL	OPS	5
592665.4	4151948	1.27038	7.96	810.56	1.5	ANNUAL	OPS	5
592685.4	4151948	1.37976	7.98	810.56	1.5	ANNUAL	OPS	5
592705.4	4151948	1.49641	8.45	810.56	1.5	ANNUAL	OPS	5
592725.4	4151948	1.6441	8.44	810.56	1.5	ANNUAL	OPS	5
592745.4	4151948	1.8117	8.39	810.56	1.5	ANNUAL	OPS	5
592765.4	4151948	1.99939	8.17	810.56	1.5	ANNUAL	OPS	5
592785.4	4151948	2.21336	6.28	810.56	1.5	ANNUAL	OPS	5
592805.4	4151948	2.37699	8.24	810.56	1.5	ANNUAL	OPS	5
592825.4	4151948	2.55982	8.33	810.56	1.5	ANNUAL	OPS	5

592845.4	4151948	2.74692	8.01	810.56	1.5	ANNUAL	OPS	5
592865.4	4151948	2.9123	7.92	810.56	1.5	ANNUAL	OPS	5
592885.4	4151948	3.05581	8.03	810.56	1.5	ANNUAL	OPS	5
592905.4	4151948	3.18494	8.06	810.56	1.5	ANNUAL	OPS	5
592925.4	4151948	3.29156	8.27	810.56	1.5	ANNUAL	OPS	5
592945.4	4151948	3.38002	8.53	810.56	1.5	ANNUAL	OPS	5
592965.4	4151948	3.46226	8.54	810.56	1.5	ANNUAL	OPS	5
592985.4	4151948	3.53386	8.47	810.56	1.5	ANNUAL	OPS	5
593005.4	4151948	3.58955	8.53	810.56	1.5	ANNUAL	OPS	5
593025.4	4151948	3.63732	8.53	810.56	1.5	ANNUAL	OPS	5
593045.4	4151948	3.6785	8.47	810.56	1.5	ANNUAL	OPS	5
593065.4	4151948	3.70556	8.65	810.56	1.5	ANNUAL	OPS	5
593085.4	4151948	3.73279	8.62	810.56	1.5	ANNUAL	OPS	5
593105.4	4151948	3.7542	8.6	810.56	1.5	ANNUAL	OPS	5
593125.4	4151948	3.76848	8.66	810.56	1.5	ANNUAL	OPS	5
593145.4	4151948	3.77527	8.83	810.56	1.5	ANNUAL	OPS	5
593165.4	4151948	3.77812	8.95	810.56	1.5	ANNUAL	OPS	5
593185.4	4151948	3.77825	8.92	810.56	1.5	ANNUAL	OPS	5
593205.4	4151948	3.76703	9.11	810.56	1.5	ANNUAL	OPS	5
593225.4	4151948	3.75165	9.1	810.56	1.5	ANNUAL	OPS	5
593245.4	4151948	3.72552	9.17	810.56	1.5	ANNUAL	OPS	5
593265.4	4151948	3.68978	9.19	810.56	1.5	ANNUAL	OPS	5
593285.4	4151948	3.64737	8.83	810.56	1.5	ANNUAL	OPS	5
592545.4	4151968	0.9408	7.59	810.56	1.5	ANNUAL	OPS	5
592565.4	4151968	1.01442	7.73	810.56	1.5	ANNUAL	OPS	5
592585.4	4151968	1.09467	7.71	810.56	1.5	ANNUAL	OPS	5
592605.4	4151968	1.17991	7.77	810.56	1.5	ANNUAL	OPS	5
592625.4	4151968	1.27465	7.79	810.56	1.5	ANNUAL	OPS	5
592645.4	4151968	1.38206	7.83	810.56	1.5	ANNUAL	OPS	5
592665.4	4151968	1.50389	8.02	810.56	1.5	ANNUAL	OPS	5
592685.4	4151968	1.65267	8.06	810.56	1.5	ANNUAL	OPS	5
592705.4	4151968	1.8259	8.17	810.56	1.5	ANNUAL	OPS	5
592725.4	4151968	2.02786	8.19	810.56	1.5	ANNUAL	OPS	5
592745.4	4151968	2.24956	8.23	810.56	1.5	ANNUAL	OPS	5
592765.4	4151968	2.49255	8.03	810.56	1.5	ANNUAL	OPS	5
592785.4	4151968	2.75291	6.74	810.56	1.5	ANNUAL	OPS	5
592805.4	4151968	2.94255	8.4	810.56	1.5	ANNUAL	OPS	5
592825.4	4151968	3.15855	8.36	810.56	1.5	ANNUAL	OPS	5
592845.4	4151968	3.34785	8.48	810.56	1.5	ANNUAL	OPS	5
592865.4	4151968	3.52444	8.39	810.56	1.5	ANNUAL	OPS	5
592885.4	4151968	3.67534	8.36	810.56	1.5	ANNUAL	OPS	5
592905.4	4151968	3.80544	8.29	810.56	1.5	ANNUAL	OPS	5
592925.4	4151968	3.91736	8.14	810.56	1.5	ANNUAL	OPS	5
592945.4	4151968	4.0077	8.04	810.56	1.5	ANNUAL	OPS	5
592965.4	4151968	4.07538	8.14	810.56	1.5	ANNUAL	OPS	5
592985.4	4151968	4.12539	8.35	810.56	1.5	ANNUAL	OPS	5
593005.4	4151968	4.16734	8.46	810.56	1.5	ANNUAL	OPS	5
593025.4	4151968	4.20124	8.54	810.56	1.5	ANNUAL	OPS	5
593045.4	4151968	4.22956	8.57	810.56	1.5	ANNUAL	OPS	5
593065.4	4151968	4.24905	8.68	810.56	1.5	ANNUAL	OPS	5
593085.4	4151968	4.26635	8.7	810.56	1.5	ANNUAL	OPS	5
593105.4	4151968	4.28155	8.62	810.56	1.5	ANNUAL	OPS	5
593125.4	4151968	4.28473	8.78	810.56	1.5	ANNUAL	OPS	5
593145.4	4151968	4.28541	8.84	810.56	1.5	ANNUAL	OPS	5
593165.4	4151968	4.2825	8.78	810.56	1.5	ANNUAL	OPS	5
593185.4	4151968	4.26897	8.85	810.56	1.5	ANNUAL	OPS	5
593205.4	4151968	4.24578	8.96	810.56	1.5	ANNUAL	OPS	5
593225.4	4151968	4.21081	9.15	810.56	1.5	ANNUAL	OPS	5
593245.4	4151968	4.16862	9.07	810.56	1.5	ANNUAL	OPS	5
593265.4	4151968	4.11112	9.09	810.56	1.5	ANNUAL	OPS	5
593285.4	4151968	4.03989	9.05	810.56	1.5	ANNUAL	OPS	5
592545.4	4151988	1.0679	7.92	810.56	1.5	ANNUAL	OPS	5
592565.4	4151988	1.16454	7.87	810.56	1.5	ANNUAL	OPS	5

592585.4	4151988	1.26703	7.88	810.56	1.5	ANNUAL	OPS	5
592605.4	4151988	1.38071	7.8	810.56	1.5	ANNUAL	OPS	5
592625.4	4151988	1.50581	7.83	810.56	1.5	ANNUAL	OPS	5
592645.4	4151988	1.64367	8.12	810.56	1.5	ANNUAL	OPS	5
592665.4	4151988	1.81913	8.12	810.56	1.5	ANNUAL	OPS	5
592685.4	4151988	2.03135	8.12	810.56	1.5	ANNUAL	OPS	5
592705.4	4151988	2.27464	8.27	810.56	1.5	ANNUAL	OPS	5
592725.4	4151988	2.54758	8.42	810.56	1.5	ANNUAL	OPS	5
592745.4	4151988	2.85444	8.24	810.56	1.5	ANNUAL	OPS	5
592765.4	4151988	3.18085	7.69	810.56	1.5	ANNUAL	OPS	5
592785.4	4151988	3.4715	7.57	810.56	1.5	ANNUAL	OPS	5
592805.4	4151988	3.68891	8.52	810.56	1.5	ANNUAL	OPS	5
592825.4	4151988	3.92794	8.44	810.56	1.5	ANNUAL	OPS	5
592845.4	4151988	4.13053	8.44	810.56	1.5	ANNUAL	OPS	5
592865.4	4151988	4.31232	8.23	810.56	1.5	ANNUAL	OPS	5
592885.4	4151988	4.44042	8.47	810.56	1.5	ANNUAL	OPS	5
592905.4	4151988	4.55263	8.5	810.56	1.5	ANNUAL	OPS	5
592925.4	4151988	4.64395	8.48	810.56	1.5	ANNUAL	OPS	5
592945.4	4151988	4.71345	8.5	810.56	1.5	ANNUAL	OPS	5
592965.4	4151988	4.76159	8.63	810.56	1.5	ANNUAL	OPS	5
592985.4	4151988	4.78921	8.93	810.56	1.5	ANNUAL	OPS	5
593005.4	4151988	4.83306	8.68	810.56	1.5	ANNUAL	OPS	5
593025.4	4151988	4.87317	8.29	810.56	1.5	ANNUAL	OPS	5
593045.4	4151988	4.89353	8.18	810.56	1.5	ANNUAL	OPS	5
593065.4	4151988	4.90134	8.35	810.56	1.5	ANNUAL	OPS	5
593085.4	4151988	4.90309	8.55	810.56	1.5	ANNUAL	OPS	5
593105.4	4151988	4.89957	8.77	810.56	1.5	ANNUAL	OPS	5
593125.4	4151988	4.89816	8.76	810.56	1.5	ANNUAL	OPS	5
593145.4	4151988	4.88762	8.83	810.56	1.5	ANNUAL	OPS	5
593165.4	4151988	4.87124	8.8	810.56	1.5	ANNUAL	OPS	5
593185.4	4151988	4.83906	9.02	810.56	1.5	ANNUAL	OPS	5
593205.4	4151988	4.79953	9.03	810.56	1.5	ANNUAL	OPS	5
593225.4	4151988	4.7447	9.09	810.56	1.5	ANNUAL	OPS	5
593245.4	4151988	4.67113	9.32	810.56	1.5	ANNUAL	OPS	5
593265.4	4151988	4.58536	9.24	810.56	1.5	ANNUAL	OPS	5
593285.4	4151988	4.47706	9.44	810.56	1.5	ANNUAL	OPS	5
592545.4	4152008	1.22941	8.02	810.56	1.5	ANNUAL	OPS	5
592565.4	4152008	1.36156	7.74	810.56	1.5	ANNUAL	OPS	5
592585.4	4152008	1.49191	7.96	810.56	1.5	ANNUAL	OPS	5
592605.4	4152008	1.63699	8.1	810.56	1.5	ANNUAL	OPS	5
592625.4	4152008	1.81235	8	810.56	1.5	ANNUAL	OPS	5
592645.4	4152008	2.02213	7.95	810.56	1.5	ANNUAL	OPS	5
592665.4	4152008	2.27331	8.08	810.56	1.5	ANNUAL	OPS	5
592685.4	4152008	2.57844	8.22	810.56	1.5	ANNUAL	OPS	5
592705.4	4152008	2.92352	8.47	810.56	1.5	ANNUAL	OPS	5
592725.4	4152008	3.31004	8.48	810.56	1.5	ANNUAL	OPS	5
592745.4	4152008	3.70075	8.45	810.56	1.5	ANNUAL	OPS	5
592765.4	4152008	4.13533	6.77	810.56	1.5	ANNUAL	OPS	5
592785.4	4152008	4.40797	8.3	810.56	1.5	ANNUAL	OPS	5
592805.4	4152008	4.67718	8.51	810.56	1.5	ANNUAL	OPS	5
592825.4	4152008	4.9163	8.48	810.56	1.5	ANNUAL	OPS	5
592845.4	4152008	5.11781	8.34	810.56	1.5	ANNUAL	OPS	5
592865.4	4152008	5.26247	8.44	810.56	1.5	ANNUAL	OPS	5
592885.4	4152008	5.36585	8.64	810.56	1.5	ANNUAL	OPS	5
592905.4	4152008	5.45669	8.59	810.56	1.5	ANNUAL	OPS	5
592925.4	4152008	5.51768	8.64	810.56	1.5	ANNUAL	OPS	5
592945.4	4152008	5.55997	8.7	810.56	1.5	ANNUAL	OPS	5
592965.4	4152008	5.59539	8.65	810.56	1.5	ANNUAL	OPS	5
592985.4	4152008	5.60236	8.93	810.56	1.5	ANNUAL	OPS	5
593005.4	4152008	5.60698	9.15	810.56	1.5	ANNUAL	OPS	5
593025.4	4152008	5.64725	8.62	810.56	1.5	ANNUAL	OPS	5
593045.4	4152008	5.6482	8.76	810.56	1.5	ANNUAL	OPS	5
593065.4	4152008	5.64398	8.95	810.56	1.5	ANNUAL	OPS	5

593085.4	4152008	5.64763	8.88	810.56	1.5	ANNUAL	OPS	5
593105.4	4152008	5.65451	8.52	810.56	1.5	ANNUAL	OPS	5
593125.4	4152008	5.64601	8.21	810.56	1.5	ANNUAL	OPS	5
593145.4	4152008	5.61745	8.44	810.56	1.5	ANNUAL	OPS	5
593165.4	4152008	5.57447	8.77	810.56	1.5	ANNUAL	OPS	5
593185.4	4152008	5.52155	8.92	810.56	1.5	ANNUAL	OPS	5
593205.4	4152008	5.45317	9.01	810.56	1.5	ANNUAL	OPS	5
593225.4	4152008	5.36512	9.12	810.56	1.5	ANNUAL	OPS	5
593245.4	4152008	5.25584	9.24	810.56	1.5	ANNUAL	OPS	5
593265.4	4152008	5.12647	9.21	810.56	1.5	ANNUAL	OPS	5
593285.4	4152008	4.97169	9.37	810.56	1.5	ANNUAL	OPS	5
592545.4	4152028	1.44102	7.9	810.56	1.5	ANNUAL	OPS	5
592565.4	4152028	1.61385	7.83	810.56	1.5	ANNUAL	OPS	5
592585.4	4152028	1.78442	8.25	810.56	1.5	ANNUAL	OPS	5
592605.4	4152028	1.98986	8.29	810.56	1.5	ANNUAL	OPS	5
592625.4	4152028	2.22441	8.51	810.56	1.5	ANNUAL	OPS	5
592645.4	4152028	2.54003	8.39	810.56	1.5	ANNUAL	OPS	5
592665.4	4152028	2.94429	8.25	810.56	1.5	ANNUAL	OPS	5
592685.4	4152028	3.41498	8.32	810.56	1.5	ANNUAL	OPS	5
592705.4	4152028	3.92035	8.52	810.56	1.5	ANNUAL	OPS	5
592725.4	4152028	4.44457	8.5	810.56	1.5	ANNUAL	OPS	5
592745.4	4152028	4.94689	8.29	810.56	1.5	ANNUAL	OPS	5
592765.4	4152028	5.43567	6.78	810.56	1.5	ANNUAL	OPS	5
592785.4	4152028	5.69776	8.43	810.56	1.5	ANNUAL	OPS	5
592805.4	4152028	5.96226	8.53	810.56	1.5	ANNUAL	OPS	5
592825.4	4152028	6.17152	8.53	810.56	1.5	ANNUAL	OPS	5
592845.4	4152028	6.33192	8.46	810.56	1.5	ANNUAL	OPS	5
592865.4	4152028	6.43034	8.59	810.56	1.5	ANNUAL	OPS	5
592885.4	4152028	6.50041	8.64	810.56	1.5	ANNUAL	OPS	5
592905.4	4152028	6.54442	8.68	810.56	1.5	ANNUAL	OPS	5
592925.4	4152028	6.56907	8.72	810.56	1.5	ANNUAL	OPS	5
592945.4	4152028	6.5838	8.72	810.56	1.5	ANNUAL	OPS	5
592965.4	4152028	6.59071	8.72	810.56	1.5	ANNUAL	OPS	5
592985.4	4152028	6.57935	8.93	810.56	1.5	ANNUAL	OPS	5
593005.4	4152028	6.55456	9.33	810.56	1.5	ANNUAL	OPS	5
593025.4	4152028	6.56924	9.14	810.56	1.5	ANNUAL	OPS	5
593045.4	4152028	6.58919	8.81	810.56	1.5	ANNUAL	OPS	5
593065.4	4152028	6.57342	9.04	810.56	1.5	ANNUAL	OPS	5
593085.4	4152028	6.55502	9.25	810.56	1.5	ANNUAL	OPS	5
593105.4	4152028	6.55245	8.96	810.56	1.5	ANNUAL	OPS	5
593125.4	4152028	6.49757	9.64	810.56	1.5	ANNUAL	OPS	5
593145.4	4152028	6.4609	9.57	810.56	1.5	ANNUAL	OPS	5
593165.4	4152028	6.41222	9.25	810.56	1.5	ANNUAL	OPS	5
593185.4	4152028	6.3392	8.84	810.56	1.5	ANNUAL	OPS	5
593205.4	4152028	6.23597	8.51	810.56	1.5	ANNUAL	OPS	5
593225.4	4152028	6.09923	8.64	810.56	1.5	ANNUAL	OPS	5
593245.4	4152028	5.93266	8.94	810.56	1.5	ANNUAL	OPS	5
593265.4	4152028	5.73918	9.15	810.56	1.5	ANNUAL	OPS	5
593285.4	4152028	5.52081	9.16	810.56	1.5	ANNUAL	OPS	5
592545.4	4152048	1.71804	7.8	810.56	1.5	ANNUAL	OPS	5
592565.4	4152048	1.95246	7.97	810.56	1.5	ANNUAL	OPS	5
592585.4	4152048	2.20156	8.32	810.56	1.5	ANNUAL	OPS	5
592605.4	4152048	2.49712	8.46	810.56	1.5	ANNUAL	OPS	5
592625.4	4152048	2.87006	8.53	810.56	1.5	ANNUAL	OPS	5
592645.4	4152048	3.37098	8.54	810.56	1.5	ANNUAL	OPS	5
592665.4	4152048	4.02079	8.49	810.56	1.5	ANNUAL	OPS	5
592685.4	4152048	4.76108	8.46	810.56	1.5	ANNUAL	OPS	5
592705.4	4152048	5.486	8.55	810.56	1.5	ANNUAL	OPS	5
592725.4	4152048	6.14739	8.52	810.56	1.5	ANNUAL	OPS	5
592745.4	4152048	6.81362	6.96	810.56	1.5	ANNUAL	OPS	5
592765.4	4152048	7.16336	8.04	810.56	1.5	ANNUAL	OPS	5
592785.4	4152048	7.43155	8.35	810.56	1.5	ANNUAL	OPS	5
592805.4	4152048	7.61405	8.6	810.56	1.5	ANNUAL	OPS	5

592825.4	4152048	7.75505	8.58	810.56	1.5	ANNUAL	OPS	5
592845.4	4152048	7.84833	8.48	810.56	1.5	ANNUAL	OPS	5
592865.4	4152048	7.88027	8.56	810.56	1.5	ANNUAL	OPS	5
592885.4	4152048	7.88042	8.67	810.56	1.5	ANNUAL	OPS	5
592905.4	4152048	7.86135	8.79	810.56	1.5	ANNUAL	OPS	5
592925.4	4152048	7.83949	8.84	810.56	1.5	ANNUAL	OPS	5
592945.4	4152048	7.82477	8.78	810.56	1.5	ANNUAL	OPS	5
592965.4	4152048	7.81045	8.73	810.56	1.5	ANNUAL	OPS	5
592985.4	4152048	7.76929	9.05	810.56	1.5	ANNUAL	OPS	5
593005.4	4152048	7.74639	9.23	810.56	1.5	ANNUAL	OPS	5
593025.4	4152048	7.74941	9.14	810.56	1.5	ANNUAL	OPS	5
593045.4	4152048	7.76633	8.83	810.56	1.5	ANNUAL	OPS	5
593065.4	4152048	7.73809	9.12	810.56	1.5	ANNUAL	OPS	5
593085.4	4152048	7.7063	9.37	810.56	1.5	ANNUAL	OPS	5
593105.4	4152048	7.68381	9.22	810.56	1.5	ANNUAL	OPS	5
593125.4	4152048	7.61487	9.66	810.56	1.5	ANNUAL	OPS	5
593145.4	4152048	7.53548	9.87	810.56	1.5	ANNUAL	OPS	5
593165.4	4152048	7.43924	9.81	810.56	1.5	ANNUAL	OPS	5
593185.4	4152048	7.30912	9.76	810.56	1.5	ANNUAL	OPS	5
593205.4	4152048	7.1417	9.76	810.56	1.5	ANNUAL	OPS	5
593225.4	4152048	6.94032	9.59	810.56	1.5	ANNUAL	OPS	5
593245.4	4152048	6.70159	9.38	810.56	1.5	ANNUAL	OPS	5
593265.4	4152048	6.42843	9.01	810.56	1.5	ANNUAL	OPS	5
593285.4	4152048	6.12008	8.92	810.56	1.5	ANNUAL	OPS	5
592545.4	4152068	2.08327	7.88	810.56	1.5	ANNUAL	OPS	5
592565.4	4152068	2.42971	8.11	810.56	1.5	ANNUAL	OPS	5
592585.4	4152068	2.83146	8.22	810.56	1.5	ANNUAL	OPS	5
592605.4	4152068	3.30557	8.34	810.56	1.5	ANNUAL	OPS	5
592625.4	4152068	3.94144	8.45	810.56	1.5	ANNUAL	OPS	5
592645.4	4152068	4.83679	8.51	810.56	1.5	ANNUAL	OPS	5
592665.4	4152068	5.95261	8.44	810.56	1.5	ANNUAL	OPS	5
592685.4	4152068	7.06868	8.39	810.56	1.5	ANNUAL	OPS	5
592705.4	4152068	7.98748	8.5	810.56	1.5	ANNUAL	OPS	5
592725.4	4152068	8.72028	8.36	810.56	1.5	ANNUAL	OPS	5
592745.4	4152068	9.34793	6.55	810.56	1.5	ANNUAL	OPS	5
592765.4	4152068	9.51426	8.4	810.56	1.5	ANNUAL	OPS	5
592785.4	4152068	9.69632	8.37	810.56	1.5	ANNUAL	OPS	5
592805.4	4152068	9.69469	8.9	810.56	1.5	ANNUAL	OPS	5
592825.4	4152068	9.7337	8.75	810.56	1.5	ANNUAL	OPS	5
592845.4	4152068	9.7179	8.66	810.56	1.5	ANNUAL	OPS	5
592865.4	4152068	9.65146	8.73	810.56	1.5	ANNUAL	OPS	5
592885.4	4152068	9.5952	8.62	810.56	1.5	ANNUAL	OPS	5
592905.4	4152068	9.49548	8.82	810.56	1.5	ANNUAL	OPS	5
592925.4	4152068	9.41705	8.91	810.56	1.5	ANNUAL	OPS	5
592945.4	4152068	9.38364	8.73	810.56	1.5	ANNUAL	OPS	5
592965.4	4152068	9.31908	8.96	810.56	1.5	ANNUAL	OPS	5
592985.4	4152068	9.31147	8.82	810.56	1.5	ANNUAL	OPS	5
593005.4	4152068	9.29714	8.85	810.56	1.5	ANNUAL	OPS	5
593025.4	4152068	9.28452	8.93	810.56	1.5	ANNUAL	OPS	5
593045.4	4152068	9.27918	8.91	810.56	1.5	ANNUAL	OPS	5
593065.4	4152068	9.24358	9.18	810.56	1.5	ANNUAL	OPS	5
593085.4	4152068	9.19373	9.46	810.56	1.5	ANNUAL	OPS	5
593105.4	4152068	9.11889	9.81	810.56	1.5	ANNUAL	OPS	5
593125.4	4152068	9.0324	9.86	810.56	1.5	ANNUAL	OPS	5
593145.4	4152068	8.90936	9.85	810.56	1.5	ANNUAL	OPS	5
593165.4	4152068	8.74184	9.82	810.56	1.5	ANNUAL	OPS	5
593185.4	4152068	8.52567	9.79	810.56	1.5	ANNUAL	OPS	5
593205.4	4152068	8.25864	9.82	810.56	1.5	ANNUAL	OPS	5
593225.4	4152068	7.94387	9.84	810.56	1.5	ANNUAL	OPS	5
593245.4	4152068	7.58539	9.8	810.56	1.5	ANNUAL	OPS	5
593265.4	4152068	7.18897	9.54	810.56	1.5	ANNUAL	OPS	5
593285.4	4152068	6.75222	10.07	810.56	1.5	ANNUAL	OPS	5
592545.4	4152088	2.54278	8.62	810.56	1.5	ANNUAL	OPS	5

592565.4	4152088	3.12125	8.46	810.56	1.5	ANNUAL	OPS	5
592585.4	4152088	3.83497	8.22	810.56	1.5	ANNUAL	OPS	5
592605.4	4152088	4.71344	8.15	810.56	1.5	ANNUAL	OPS	5
592625.4	4152088	6.00208	8.2	810.56	1.5	ANNUAL	OPS	5
592645.4	4152088	7.76676	8.33	810.56	1.5	ANNUAL	OPS	5
592665.4	4152088	9.58634	8.38	810.56	1.5	ANNUAL	OPS	5
592685.4	4152088	11.05801	8.21	810.56	1.5	ANNUAL	OPS	5
592705.4	4152088	11.97375	8.22	810.56	1.5	ANNUAL	OPS	5
592725.4	4152088	12.66049	7.01	810.56	1.5	ANNUAL	OPS	5
592745.4	4152088	12.72885	8.19	810.56	1.5	ANNUAL	OPS	5
592765.4	4152088	12.72444	8.42	810.56	1.5	ANNUAL	OPS	5
592785.4	4152088	12.58971	8.73	810.56	1.5	ANNUAL	OPS	5
592805.4	4152088	12.41364	8.94	810.56	1.5	ANNUAL	OPS	5
592825.4	4152088	12.25255	8.91	810.56	1.5	ANNUAL	OPS	5
592845.4	4152088	12.10695	8.71	810.56	1.5	ANNUAL	OPS	5
592865.4	4152088	11.91505	8.74	810.56	1.5	ANNUAL	OPS	5
592885.4	4152088	11.76688	8.59	810.56	1.5	ANNUAL	OPS	5
592905.4	4152088	11.59725	8.7	810.56	1.5	ANNUAL	OPS	5
592925.4	4152088	11.47004	8.76	810.56	1.5	ANNUAL	OPS	5
592945.4	4152088	11.37791	8.84	810.56	1.5	ANNUAL	OPS	5
592965.4	4152088	11.32364	8.91	810.56	1.5	ANNUAL	OPS	5
592985.4	4152088	11.3042	8.94	810.56	1.5	ANNUAL	OPS	5
593005.4	4152088	11.30258	8.97	810.56	1.5	ANNUAL	OPS	5
593025.4	4152088	11.30776	8.98	810.56	1.5	ANNUAL	OPS	5
593045.4	4152088	11.30023	9.02	810.56	1.5	ANNUAL	OPS	5
593065.4	4152088	11.25541	9.25	810.56	1.5	ANNUAL	OPS	5
593085.4	4152088	11.17701	9.53	810.56	1.5	ANNUAL	OPS	5
593105.4	4152088	11.06128	9.76	810.56	1.5	ANNUAL	OPS	5
593125.4	4152088	10.90177	9.82	810.56	1.5	ANNUAL	OPS	5
593145.4	4152088	10.68099	9.82	810.56	1.5	ANNUAL	OPS	5
593165.4	4152088	10.39153	9.82	810.56	1.5	ANNUAL	OPS	5
593185.4	4152088	10.03308	9.79	810.56	1.5	ANNUAL	OPS	5
593205.4	4152088	9.608	9.83	810.56	1.5	ANNUAL	OPS	5
593225.4	4152088	9.12501	9.91	810.56	1.5	ANNUAL	OPS	5
593245.4	4152088	8.59443	9.74	810.56	1.5	ANNUAL	OPS	5
593265.4	4152088	8.02354	9.81	810.56	1.5	ANNUAL	OPS	5
593285.4	4152088	7.42177	10.11	810.56	1.5	ANNUAL	OPS	5
592545.4	4152108	3.23125	8.8	810.56	1.5	ANNUAL	OPS	5
592565.4	4152108	4.24066	8.65	810.56	1.5	ANNUAL	OPS	5
592585.4	4152108	5.54795	8.71	810.56	1.5	ANNUAL	OPS	5
592605.4	4152108	7.37966	8.66	810.56	1.5	ANNUAL	OPS	5
592625.4	4152108	10.51499	8.57	810.56	1.5	ANNUAL	OPS	5
592645.4	4152108	14.0873	8.43	810.56	1.5	ANNUAL	OPS	5
592665.4	4152108	16.37934	8.53	810.56	1.5	ANNUAL	OPS	5
592685.4	4152108	17.51832	8.44	810.56	1.5	ANNUAL	OPS	5
592705.4	4152108	17.97762	8.13	810.56	1.5	ANNUAL	OPS	5
592725.4	4152108	18.10048	6.76	810.56	1.5	ANNUAL	OPS	5
592745.4	4152108	17.4453	8.52	810.56	1.5	ANNUAL	OPS	5
592765.4	4152108	17.09913	8.35	810.56	1.5	ANNUAL	OPS	5
592785.4	4152108	16.50663	8.79	810.56	1.5	ANNUAL	OPS	5
592805.4	4152108	16.06231	8.78	810.56	1.5	ANNUAL	OPS	5
592825.4	4152108	15.68479	8.59	810.56	1.5	ANNUAL	OPS	5
592845.4	4152108	15.43634	7.88	810.56	1.5	ANNUAL	OPS	5
592865.4	4152108	15.06406	7.82	810.56	1.5	ANNUAL	OPS	5
592885.4	4152108	14.59251	8.72	810.56	1.5	ANNUAL	OPS	5
592905.4	4152108	14.35395	8.76	810.56	1.5	ANNUAL	OPS	5
592925.4	4152108	14.18646	8.83	810.56	1.5	ANNUAL	OPS	5
592945.4	4152108	14.0742	8.99	810.56	1.5	ANNUAL	OPS	5
592965.4	4152108	14.04208	9.06	810.56	1.5	ANNUAL	OPS	5
592985.4	4152108	14.04702	9.15	810.56	1.5	ANNUAL	OPS	5
593005.4	4152108	14.11351	8.98	810.56	1.5	ANNUAL	OPS	5
593025.4	4152108	14.13974	8.99	810.56	1.5	ANNUAL	OPS	5
593045.4	4152108	14.13584	8.98	810.56	1.5	ANNUAL	OPS	5

593065.4	4152108	14.06963	9.1	810.56	1.5	ANNUAL	OPS	5
593085.4	4152108	13.92535	9.46	810.56	1.5	ANNUAL	OPS	5
593105.4	4152108	13.71122	9.71	810.56	1.5	ANNUAL	OPS	5
593125.4	4152108	13.41302	9.74	810.56	1.5	ANNUAL	OPS	5
593145.4	4152108	13.01202	9.8	810.56	1.5	ANNUAL	OPS	5
593165.4	4152108	12.50906	9.82	810.56	1.5	ANNUAL	OPS	5
593185.4	4152108	11.91025	9.79	810.56	1.5	ANNUAL	OPS	5
593205.4	4152108	11.23279	9.84	810.56	1.5	ANNUAL	OPS	5
593225.4	4152108	10.49695	9.92	810.56	1.5	ANNUAL	OPS	5
593245.4	4152108	9.71486	9.72	810.56	1.5	ANNUAL	OPS	5
593265.4	4152108	8.90688	9.81	810.56	1.5	ANNUAL	OPS	5
592545.4	4152128	4.2325	8.67	810.56	1.5	ANNUAL	OPS	5
592565.4	4152128	6.21691	8.54	810.56	1.5	ANNUAL	OPS	5
592585.4	4152128	9.49036	8.54	810.56	1.5	ANNUAL	OPS	5
592605.4	4152128	15.23252	8.52	810.56	1.5	ANNUAL	OPS	5
592625.4	4152128	23.58907	8.54	810.56	1.5	ANNUAL	OPS	5
592645.4	4152128	27.76665	8.46	810.56	1.5	ANNUAL	OPS	5
592665.4	4152128	28.42233	8.42	810.56	1.5	ANNUAL	OPS	5
592685.4	4152128	27.74459	8.41	810.56	1.5	ANNUAL	OPS	5
592705.4	4152128	27.3302	7.16	810.56	1.5	ANNUAL	OPS	5
592725.4	4152128	25.68266	8.16	810.56	1.5	ANNUAL	OPS	5
592745.4	4152128	24.25608	8.55	810.56	1.5	ANNUAL	OPS	5
592765.4	4152128	23.23178	8.37	810.56	1.5	ANNUAL	OPS	5
592785.4	4152128	22.23681	8.28	810.56	1.5	ANNUAL	OPS	5
592805.4	4152128	21.25335	8.39	810.56	1.5	ANNUAL	OPS	5
592825.4	4152128	20.41457	8.42	810.56	1.5	ANNUAL	OPS	5
592845.4	4152128	19.63581	8.59	810.56	1.5	ANNUAL	OPS	5
592865.4	4152128	18.95069	8.86	810.56	1.5	ANNUAL	OPS	5
592885.4	4152128	18.57647	8.66	810.56	1.5	ANNUAL	OPS	5
592905.4	4152128	18.242	8.79	810.56	1.5	ANNUAL	OPS	5
592925.4	4152128	18.06308	8.9	810.56	1.5	ANNUAL	OPS	5
592945.4	4152128	17.98807	9.07	810.56	1.5	ANNUAL	OPS	5
592965.4	4152128	18.04772	9.07	810.56	1.5	ANNUAL	OPS	5
592985.4	4152128	18.073	9.36	810.56	1.5	ANNUAL	OPS	5
593005.4	4152128	18.18581	9.35	810.56	1.5	ANNUAL	OPS	5
593025.4	4152128	18.3013	9.1	810.56	1.5	ANNUAL	OPS	5
593045.4	4152128	18.29212	8.96	810.56	1.5	ANNUAL	OPS	5
593065.4	4152128	18.15095	9.01	810.56	1.5	ANNUAL	OPS	5
593085.4	4152128	17.87541	9.38	810.56	1.5	ANNUAL	OPS	5
593105.4	4152128	17.45561	9.41	810.56	1.5	ANNUAL	OPS	5
593125.4	4152128	16.87591	9.52	810.56	1.5	ANNUAL	OPS	5
593145.4	4152128	16.13383	9.55	810.56	1.5	ANNUAL	OPS	5
593165.4	4152128	15.24678	9.66	810.56	1.5	ANNUAL	OPS	5
593185.4	4152128	14.24095	9.72	810.56	1.5	ANNUAL	OPS	5
593205.4	4152128	13.16503	9.79	810.56	1.5	ANNUAL	OPS	5
593225.4	4152128	12.05288	9.81	810.56	1.5	ANNUAL	OPS	5
593245.4	4152128	10.91388	9.6	810.56	1.5	ANNUAL	OPS	5
593265.4	4152128	9.78072	9.62	810.56	1.5	ANNUAL	OPS	5
592565.4	4152148	9.60689	8.32	810.56	1.5	ANNUAL	OPS	5
592585.4	4152148	21.68074	8.38	810.56	1.5	ANNUAL	OPS	5
592605.4	4152148	54.23494	8.38	810.56	1.5	ANNUAL	OPS	5
592625.4	4152148	56.61306	8.34	810.56	1.5	ANNUAL	OPS	5
592645.4	4152148	52.24034	8.3	810.56	1.5	ANNUAL	OPS	5
592665.4	4152148	47.41864	8.44	810.56	1.5	ANNUAL	OPS	5
592685.4	4152148	43.86332	8.35	810.56	1.5	ANNUAL	OPS	5
592705.4	4152148	41.36146	6.58	810.56	1.5	ANNUAL	OPS	5
592725.4	4152148	37.19992	8.64	810.56	1.5	ANNUAL	OPS	5
592745.4	4152148	34.65957	8.58	810.56	1.5	ANNUAL	OPS	5
592765.4	4152148	32.40598	8.56	810.56	1.5	ANNUAL	OPS	5
592785.4	4152148	30.65208	8.28	810.56	1.5	ANNUAL	OPS	5
592805.4	4152148	28.93564	8.26	810.56	1.5	ANNUAL	OPS	5
592825.4	4152148	27.2628	8.58	810.56	1.5	ANNUAL	OPS	5
592845.4	4152148	26.05301	8.62	810.56	1.5	ANNUAL	OPS	5

592865.4	4152148	24.98678	8.91	810.56	1.5	ANNUAL	OPS	5
592885.4	4152148	24.40719	8.91	810.56	1.5	ANNUAL	OPS	5
592905.4	4152148	24.15275	8.87	810.56	1.5	ANNUAL	OPS	5
592925.4	4152148	24.07158	8.96	810.56	1.5	ANNUAL	OPS	5
592945.4	4152148	24.20617	8.95	810.56	1.5	ANNUAL	OPS	5
592965.4	4152148	24.29835	9.25	810.56	1.5	ANNUAL	OPS	5
592985.4	4152148	24.54379	9.27	810.56	1.5	ANNUAL	OPS	5
593005.4	4152148	24.66782	9.53	810.56	1.5	ANNUAL	OPS	5
593025.4	4152148	24.79143	9.56	810.56	1.5	ANNUAL	OPS	5
593045.4	4152148	24.76489	9.35	810.56	1.5	ANNUAL	OPS	5
593065.4	4152148	24.4441	9.41	810.56	1.5	ANNUAL	OPS	5
593085.4	4152148	23.85746	9.6	810.56	1.5	ANNUAL	OPS	5
593105.4	4152148	22.95738	9.5	810.56	1.5	ANNUAL	OPS	5
593125.4	4152148	21.80056	9.56	810.56	1.5	ANNUAL	OPS	5
593145.4	4152148	20.35735	9.4	810.56	1.5	ANNUAL	OPS	5
593165.4	4152148	18.75758	9.47	810.56	1.5	ANNUAL	OPS	5
593185.4	4152148	17.05303	9.43	810.56	1.5	ANNUAL	OPS	5
593205.4	4152148	15.37915	9.53	810.56	1.5	ANNUAL	OPS	5
593225.4	4152148	13.73027	9.5	810.56	1.5	ANNUAL	OPS	5
593245.4	4152148	12.10775	9.36	810.56	1.5	ANNUAL	OPS	5
593265.4	4152148	10.58271	9.9	810.56	1.5	ANNUAL	OPS	5
592565.4	4152168	15.32248	8.51	810.56	1.5	ANNUAL	OPS	5
592585.4	4152168	36.89103	8.39	810.56	1.5	ANNUAL	OPS	5
592605.4	4152168	27.99657	8.33	810.56	1.5	ANNUAL	OPS	5
592625.4	4152168	37.99605	8.19	810.56	1.5	ANNUAL	OPS	5
592645.4	4152168	50.8696	8.27	810.56	1.5	ANNUAL	OPS	5
592665.4	4152168	82.47371	8.6	810.56	1.5	ANNUAL	OPS	5
592685.4	4152168	73.54428	8.09	810.56	1.5	ANNUAL	OPS	5
592705.4	4152168	65.07405	8.19	810.56	1.5	ANNUAL	OPS	5
592725.4	4152168	57.44274	8.68	810.56	1.5	ANNUAL	OPS	5
592745.4	4152168	52.39365	8.6	810.56	1.5	ANNUAL	OPS	5
592765.4	4152168	47.96556	8.6	810.56	1.5	ANNUAL	OPS	5
592785.4	4152168	44.28072	8.53	810.56	1.5	ANNUAL	OPS	5
592805.4	4152168	41.13994	8.48	810.56	1.5	ANNUAL	OPS	5
592825.4	4152168	38.41902	8.6	810.56	1.5	ANNUAL	OPS	5
592845.4	4152168	36.19747	8.85	810.56	1.5	ANNUAL	OPS	5
592865.4	4152168	35.04697	8.71	810.56	1.5	ANNUAL	OPS	5
592885.4	4152168	34.5296	8.64	810.56	1.5	ANNUAL	OPS	5
592905.4	4152168	34.27003	8.85	810.56	1.5	ANNUAL	OPS	5
592925.4	4152168	34.42183	8.98	810.56	1.5	ANNUAL	OPS	5
592945.4	4152168	34.96477	8.89	810.56	1.5	ANNUAL	OPS	5
592965.4	4152168	35.13364	9.37	810.56	1.5	ANNUAL	OPS	5
592985.4	4152168	35.73102	9.27	810.56	1.5	ANNUAL	OPS	5
593005.4	4152168	35.82623	9.78	810.56	1.5	ANNUAL	OPS	5
593025.4	4152168	35.98015	9.96	810.56	1.5	ANNUAL	OPS	5
593045.4	4152168	35.82369	9.8	810.56	1.5	ANNUAL	OPS	5
593065.4	4152168	34.98426	9.77	810.56	1.5	ANNUAL	OPS	5
593085.4	4152168	33.53195	9.81	810.56	1.5	ANNUAL	OPS	5
593105.4	4152168	31.4857	9.74	810.56	1.5	ANNUAL	OPS	5
593125.4	4152168	29.04892	9.76	810.56	1.5	ANNUAL	OPS	5
593145.4	4152168	26.18734	9.63	810.56	1.5	ANNUAL	OPS	5
593165.4	4152168	23.25382	9.62	810.56	1.5	ANNUAL	OPS	5
593185.4	4152168	20.4351	9.52	810.56	1.5	ANNUAL	OPS	5
593205.4	4152168	17.88425	9.52	810.56	1.5	ANNUAL	OPS	5
593225.4	4152168	15.45598	9.3	810.56	1.5	ANNUAL	OPS	5
593245.4	4152168	13.18658	9.31	810.56	1.5	ANNUAL	OPS	5
592585.4	4152188	25.29669	8.71	810.56	1.5	ANNUAL	OPS	5
592605.4	4152188	36.08068	8.45	810.56	1.5	ANNUAL	OPS	5
592625.4	4152188	47.99868	8.45	810.56	1.5	ANNUAL	OPS	5
592645.4	4152188	61.84196	8.45	810.56	1.5	ANNUAL	OPS	5
592665.4	4152188	41.55551	8.47	810.56	1.5	ANNUAL	OPS	5
592685.4	4152188	43.40236	8.53	810.56	1.5	ANNUAL	OPS	5
592705.4	4152188	47.53631	8.77	810.56	1.5	ANNUAL	OPS	5

592725.4	4152188	54.07433	8.64	810.56	1.5	ANNUAL	OPS	5
592745.4	4152188	88.3086	8.61	810.56	1.5	ANNUAL	OPS	5
592765.4	4152188	77.51656	8.7	810.56	1.5	ANNUAL	OPS	5
592785.4	4152188	69.36412	8.69	810.56	1.5	ANNUAL	OPS	5
592805.4	4152188	63.00635	8.71	810.56	1.5	ANNUAL	OPS	5
592825.4	4152188	58.17577	8.76	810.56	1.5	ANNUAL	OPS	5
592845.4	4152188	54.78201	8.84	810.56	1.5	ANNUAL	OPS	5
592865.4	4152188	53.32716	8.93	810.56	1.5	ANNUAL	OPS	5
592885.4	4152188	53.25484	8.93	810.56	1.5	ANNUAL	OPS	5
592905.4	4152188	53.93343	8.83	810.56	1.5	ANNUAL	OPS	5
592925.4	4152188	55.03331	8.78	810.56	1.5	ANNUAL	OPS	5
592945.4	4152188	56.08859	8.85	810.56	1.5	ANNUAL	OPS	5
592965.4	4152188	56.99184	8.99	810.56	1.5	ANNUAL	OPS	5
592985.4	4152188	57.56247	9.32	810.56	1.5	ANNUAL	OPS	5
593005.4	4152188	57.19297	10.25	810.56	1.5	ANNUAL	OPS	5
593025.4	4152188	57.6709	10.32	810.56	1.5	ANNUAL	OPS	5
593045.4	4152188	56.90479	10.2	810.56	1.5	ANNUAL	OPS	5
593065.4	4152188	54.26545	10.09	810.56	1.5	ANNUAL	OPS	5
593085.4	4152188	50.10979	10.02	810.56	1.5	ANNUAL	OPS	5
593105.4	4152188	45.17979	9.97	810.56	1.5	ANNUAL	OPS	5
593125.4	4152188	39.69141	9.94	810.56	1.5	ANNUAL	OPS	5
593145.4	4152188	33.95251	9.86	810.56	1.5	ANNUAL	OPS	5
593165.4	4152188	28.85038	9.83	810.56	1.5	ANNUAL	OPS	5
593185.4	4152188	24.50933	9.76	810.56	1.5	ANNUAL	OPS	5
593205.4	4152188	20.73278	9.68	810.56	1.5	ANNUAL	OPS	5
593225.4	4152188	17.18874	9.47	810.56	1.5	ANNUAL	OPS	5
593245.4	4152188	13.96505	9.69	810.56	1.5	ANNUAL	OPS	5
592585.4	4152208	18.30735	8.8	810.56	1.5	ANNUAL	OPS	5
592605.4	4152208	23.48145	8.5	810.56	1.5	ANNUAL	OPS	5
592625.4	4152208	28.4431	8.79	810.56	1.5	ANNUAL	OPS	5
592645.4	4152208	34.08389	8.67	810.56	1.5	ANNUAL	OPS	5
592665.4	4152208	40.78244	8.35	810.56	1.5	ANNUAL	OPS	5
592685.4	4152208	47.74967	8.61	810.56	1.5	ANNUAL	OPS	5
592705.4	4152208	56.08781	8.82	810.56	1.5	ANNUAL	OPS	5
592725.4	4152208	67.1743	8.68	810.56	1.5	ANNUAL	OPS	5
592745.4	4152208	58.63747	8.77	810.56	1.5	ANNUAL	OPS	5
592765.4	4152208	48.37388	8.85	810.56	1.5	ANNUAL	OPS	5
592785.4	4152208	49.6016	8.87	810.56	1.5	ANNUAL	OPS	5
592805.4	4152208	52.7817	8.93	810.56	1.5	ANNUAL	OPS	5
592825.4	4152208	83.20239	9	810.56	1.5	ANNUAL	OPS	5
592845.4	4152208	82.38298	9.02	810.56	1.5	ANNUAL	OPS	5
592865.4	4152208	97.09967	9.04	810.56	1.5	ANNUAL	OPS	5
592885.4	4152208	97.30756	9.07	810.56	1.5	ANNUAL	OPS	5
592905.4	4152208	99.7318	9.2	810.56	1.5	ANNUAL	OPS	5
592925.4	4152208	102.8165	9.19	810.56	1.5	ANNUAL	OPS	5
592945.4	4152208	90.19422	9.16	810.56	1.5	ANNUAL	OPS	5
592965.4	4152208	91.30483	9.33	810.56	1.5	ANNUAL	OPS	5
592985.4	4152208	91.4157	9.87	810.56	1.5	ANNUAL	OPS	5
593005.4	4152208	90.06608	10.87	810.56	1.5	ANNUAL	OPS	5
593025.4	4152208	90.51273	10.86	810.56	1.5	ANNUAL	OPS	5
593045.4	4152208	87.96477	11.23	810.56	1.5	ANNUAL	OPS	5
593065.4	4152208	96.17944	11.22	810.56	1.5	ANNUAL	OPS	5
593085.4	4152208	84.13108	11.21	810.56	1.5	ANNUAL	OPS	5
593105.4	4152208	68.49054	10.67	810.56	1.5	ANNUAL	OPS	5
593125.4	4152208	54.27818	10.25	810.56	1.5	ANNUAL	OPS	5
593145.4	4152208	43.9302	10.05	810.56	1.5	ANNUAL	OPS	5
593165.4	4152208	36.18258	10.05	810.56	1.5	ANNUAL	OPS	5
593185.4	4152208	29.77704	10.02	810.56	1.5	ANNUAL	OPS	5
593205.4	4152208	23.99972	9.88	810.56	1.5	ANNUAL	OPS	5
593225.4	4152208	18.40827	9.5	810.56	1.5	ANNUAL	OPS	5
592605.4	4152228	16.88052	8.45	810.56	1.5	ANNUAL	OPS	5
592625.4	4152228	19.58576	8.67	810.56	1.5	ANNUAL	OPS	5
592645.4	4152228	22.46361	8.73	810.56	1.5	ANNUAL	OPS	5

592665.4	4152228	26.53545	6.99	810.56	1.5	ANNUAL	OPS	5
592685.4	4152228	28.95617	8.8	810.56	1.5	ANNUAL	OPS	5
592705.4	4152228	32.84525	8.7	810.56	1.5	ANNUAL	OPS	5
592725.4	4152228	37.17309	8.67	810.56	1.5	ANNUAL	OPS	5
592745.4	4152228	42.22612	8.67	810.56	1.5	ANNUAL	OPS	5
592765.4	4152228	47.86308	8.91	810.56	1.5	ANNUAL	OPS	5
592785.4	4152228	55.13768	8.89	810.56	1.5	ANNUAL	OPS	5
592805.4	4152228	63.80257	8.98	810.56	1.5	ANNUAL	OPS	5
592825.4	4152228	58.5467	9.14	810.56	1.5	ANNUAL	OPS	5
592845.4	4152228	62.74716	9.22	810.56	1.5	ANNUAL	OPS	5
592865.4	4152228	65.54361	9.31	810.56	1.5	ANNUAL	OPS	5
592885.4	4152228	67.42939	9.38	810.56	1.5	ANNUAL	OPS	5
592905.4	4152228	67.75476	9.46	810.56	1.5	ANNUAL	OPS	5
592925.4	4152228	67.29225	9.54	810.56	1.5	ANNUAL	OPS	5
592945.4	4152228	66.48335	9.7	810.56	1.5	ANNUAL	OPS	5
592965.4	4152228	65.44107	9.99	810.56	1.5	ANNUAL	OPS	5
592985.4	4152228	64.18962	10.43	810.56	1.5	ANNUAL	OPS	5
593005.4	4152228	62.83264	11.02	810.56	1.5	ANNUAL	OPS	5
593025.4	4152228	61.7855	11.79	810.56	1.5	ANNUAL	OPS	5
593045.4	4152228	61.57059	12.68	810.56	1.5	ANNUAL	OPS	5
593065.4	4152228	62.13735	13.63	810.56	1.5	ANNUAL	OPS	5
593085.4	4152228	45.76282	14.49	810.56	1.5	ANNUAL	OPS	5
593105.4	4152228	32.38553	14.95	810.56	1.5	ANNUAL	OPS	5
593125.4	4152228	67.53783	14.64	810.56	1.5	ANNUAL	OPS	5
593145.4	4152228	67.3701	13.55	810.56	1.5	ANNUAL	OPS	5
593165.4	4152228	49.59548	11.79	810.56	1.5	ANNUAL	OPS	5
593185.4	4152228	37.64396	10.78	810.56	1.5	ANNUAL	OPS	5
593205.4	4152228	27.00194	9.81	810.56	1.5	ANNUAL	OPS	5
593225.4	4152228	17.65953	9.47	810.56	1.5	ANNUAL	OPS	5
592605.4	4152248	12.85714	8.83	810.56	1.5	ANNUAL	OPS	5
592625.4	4152248	14.55171	8.83	810.56	1.5	ANNUAL	OPS	5
592645.4	4152248	16.60926	7.98	810.56	1.5	ANNUAL	OPS	5
592665.4	4152248	18.40566	8.16	810.56	1.5	ANNUAL	OPS	5
592685.4	4152248	19.98617	8.91	810.56	1.5	ANNUAL	OPS	5
592705.4	4152248	22.12408	8.78	810.56	1.5	ANNUAL	OPS	5
592725.4	4152248	24.40519	8.77	810.56	1.5	ANNUAL	OPS	5
592745.4	4152248	26.88059	8.86	810.56	1.5	ANNUAL	OPS	5
592765.4	4152248	29.81381	8.78	810.56	1.5	ANNUAL	OPS	5
592785.4	4152248	32.99398	8.78	810.56	1.5	ANNUAL	OPS	5
592805.4	4152248	36.07725	8.93	810.56	1.5	ANNUAL	OPS	5
592825.4	4152248	38.39437	9.21	810.56	1.5	ANNUAL	OPS	5
592845.4	4152248	39.85509	9.44	810.56	1.5	ANNUAL	OPS	5
592865.4	4152248	40.79334	9.54	810.56	1.5	ANNUAL	OPS	5
592885.4	4152248	41.13103	9.59	810.56	1.5	ANNUAL	OPS	5
592905.4	4152248	41.02022	9.64	810.56	1.5	ANNUAL	OPS	5
592925.4	4152248	40.74166	9.68	810.56	1.5	ANNUAL	OPS	5
592945.4	4152248	40.33762	9.78	810.56	1.5	ANNUAL	OPS	5
592965.4	4152248	39.90911	9.92	810.56	1.5	ANNUAL	OPS	5
592985.4	4152248	39.57835	10	810.56	1.5	ANNUAL	OPS	5
593005.4	4152248	39.07165	10.53	810.56	1.5	ANNUAL	OPS	5
593025.4	4152248	39.01989	10.37	810.56	1.5	ANNUAL	OPS	5
593045.4	4152248	39.47333	11.37	810.56	1.5	ANNUAL	OPS	5
593065.4	4152248	40.67863	12.79	810.56	1.5	ANNUAL	OPS	5
593085.4	4152248	43.66201	14.34	810.56	1.5	ANNUAL	OPS	5
593105.4	4152248	51.04282	15.76	810.56	1.5	ANNUAL	OPS	5
593125.4	4152248	64.33677	16.85	810.56	1.5	ANNUAL	OPS	5
593145.4	4152248	34.22524	17.63	810.56	1.5	ANNUAL	OPS	5
593165.4	4152248	35.53062	17.75	810.56	1.5	ANNUAL	OPS	5
593185.4	4152248	58.57065	16.62	810.56	1.5	ANNUAL	OPS	5
593205.4	4152248	24.73993	12.85	810.56	1.5	ANNUAL	OPS	5
592625.4	4152268	11.47694	8.87	810.56	1.5	ANNUAL	OPS	5
592645.4	4152268	12.91318	6.8	810.56	1.5	ANNUAL	OPS	5
592665.4	4152268	13.77927	8.9	810.56	1.5	ANNUAL	OPS	5

592685.4	4152268	15.01643	8.84	810.56	1.5	ANNUAL	OPS	5
592705.4	4152268	16.29586	8.86	810.56	1.5	ANNUAL	OPS	5
592725.4	4152268	17.64117	8.92	810.56	1.5	ANNUAL	OPS	5
592745.4	4152268	19.12978	8.85	810.56	1.5	ANNUAL	OPS	5
592765.4	4152268	20.68914	8.79	810.56	1.5	ANNUAL	OPS	5
592785.4	4152268	22.2421	8.73	810.56	1.5	ANNUAL	OPS	5
592805.4	4152268	23.64608	8.67	810.56	1.5	ANNUAL	OPS	5
592825.4	4152268	24.76456	8.61	810.56	1.5	ANNUAL	OPS	5
592845.4	4152268	25.40921	8.74	810.56	1.5	ANNUAL	OPS	5
592865.4	4152268	25.75775	8.82	810.56	1.5	ANNUAL	OPS	5
592885.4	4152268	25.88914	8.82	810.56	1.5	ANNUAL	OPS	5
592905.4	4152268	25.83939	8.8	810.56	1.5	ANNUAL	OPS	5
592925.4	4152268	25.6564	8.78	810.56	1.5	ANNUAL	OPS	5
592945.4	4152268	25.33551	8.84	810.56	1.5	ANNUAL	OPS	5
592965.4	4152268	24.93761	8.93	810.56	1.5	ANNUAL	OPS	5
592985.4	4152268	24.50544	8.95	810.56	1.5	ANNUAL	OPS	5
593005.4	4152268	24.13882	9.24	810.56	1.5	ANNUAL	OPS	5
593025.4	4152268	23.67042	8.95	810.56	1.5	ANNUAL	OPS	5
593045.4	4152268	23.49003	8.97	810.56	1.5	ANNUAL	OPS	5
593065.4	4152268	23.7635	9.05	810.56	1.5	ANNUAL	OPS	5
593085.4	4152268	24.99646	9.57	810.56	1.5	ANNUAL	OPS	5
593105.4	4152268	27.9709	11.39	810.56	1.5	ANNUAL	OPS	5
593125.4	4152268	33.52233	14.34	810.56	1.5	ANNUAL	OPS	5
593145.4	4152268	40.74405	16.92	810.56	1.5	ANNUAL	OPS	5
593165.4	4152268	45.03941	18.42	810.56	1.5	ANNUAL	OPS	5
593185.4	4152268	27.19643	18.84	810.56	1.5	ANNUAL	OPS	5
592645.4	4152288	10.4202	7.31	810.56	1.5	ANNUAL	OPS	5
592665.4	4152288	10.9934	9.05	810.56	1.5	ANNUAL	OPS	5
592685.4	4152288	11.86965	8.82	810.56	1.5	ANNUAL	OPS	5
592705.4	4152288	12.7291	8.81	810.56	1.5	ANNUAL	OPS	5
592725.4	4152288	13.59163	8.87	810.56	1.5	ANNUAL	OPS	5
592745.4	4152288	14.54704	8.6	810.56	1.5	ANNUAL	OPS	5
592765.4	4152288	15.45672	8.44	810.56	1.5	ANNUAL	OPS	5
592785.4	4152288	16.28391	8.33	810.56	1.5	ANNUAL	OPS	5
592805.4	4152288	16.94884	8.35	810.56	1.5	ANNUAL	OPS	5
592825.4	4152288	17.39773	8.52	810.56	1.5	ANNUAL	OPS	5
592845.4	4152288	17.67813	8.66	810.56	1.5	ANNUAL	OPS	5
592865.4	4152288	17.8105	8.77	810.56	1.5	ANNUAL	OPS	5
592885.4	4152288	17.84384	8.79	810.56	1.5	ANNUAL	OPS	5
592905.4	4152288	17.77775	8.8	810.56	1.5	ANNUAL	OPS	5
592925.4	4152288	17.63585	8.8	810.56	1.5	ANNUAL	OPS	5
592945.4	4152288	17.41876	8.89	810.56	1.5	ANNUAL	OPS	5
592965.4	4152288	17.18513	8.88	810.56	1.5	ANNUAL	OPS	5
592985.4	4152288	16.93414	8.89	810.56	1.5	ANNUAL	OPS	5
593005.4	4152288	16.7058	8.94	810.56	1.5	ANNUAL	OPS	5
593025.4	4152288	16.54524	8.99	810.56	1.5	ANNUAL	OPS	5
593045.4	4152288	16.50041	9.02	810.56	1.5	ANNUAL	OPS	5
593065.4	4152288	16.63572	9.08	810.56	1.5	ANNUAL	OPS	5
593085.4	4152288	16.95615	9.11	810.56	1.5	ANNUAL	OPS	5
593105.4	4152288	17.41484	9.12	810.56	1.5	ANNUAL	OPS	5
593125.4	4152288	17.80501	9.16	810.56	1.5	ANNUAL	OPS	5
593145.4	4152288	17.69558	10.37	810.56	1.5	ANNUAL	OPS	5
593165.4	4152288	15.97941	13.53	810.56	1.5	ANNUAL	OPS	5
592665.4	4152308	9.0925	8.97	810.56	1.5	ANNUAL	OPS	5
592685.4	4152308	9.69175	8.88	810.56	1.5	ANNUAL	OPS	5
592705.4	4152308	10.31787	8.62	810.56	1.5	ANNUAL	OPS	5
592725.4	4152308	10.90639	8.56	810.56	1.5	ANNUAL	OPS	5
592745.4	4152308	11.47206	8.49	810.56	1.5	ANNUAL	OPS	5
592765.4	4152308	11.97057	8.54	810.56	1.5	ANNUAL	OPS	5
592785.4	4152308	12.39666	8.61	810.56	1.5	ANNUAL	OPS	5
592805.4	4152308	12.82854	8.24	810.56	1.5	ANNUAL	OPS	5
592825.4	4152308	13.084	8.26	810.56	1.5	ANNUAL	OPS	5
592845.4	4152308	13.24101	8.27	810.56	1.5	ANNUAL	OPS	5

592865.4	4152308	13.2919	8.37	810.56	1.5	ANNUAL	OPS	5
592885.4	4152308	13.25264	8.54	810.56	1.5	ANNUAL	OPS	5
592905.4	4152308	13.15046	8.74	810.56	1.5	ANNUAL	OPS	5
592925.4	4152308	13.02474	8.84	810.56	1.5	ANNUAL	OPS	5
592945.4	4152308	12.86775	8.99	810.56	1.5	ANNUAL	OPS	5
592965.4	4152308	12.71026	9.02	810.56	1.5	ANNUAL	OPS	5
592985.4	4152308	12.55112	9.01	810.56	1.5	ANNUAL	OPS	5
593005.4	4152308	12.39466	8.89	810.56	1.5	ANNUAL	OPS	5
593025.4	4152308	12.25326	8.78	810.56	1.5	ANNUAL	OPS	5
593045.4	4152308	12.1541	8.8	810.56	1.5	ANNUAL	OPS	5
593065.4	4152308	12.07462	8.84	810.56	1.5	ANNUAL	OPS	5
593085.4	4152308	11.96382	8.89	810.56	1.5	ANNUAL	OPS	5
593105.4	4152308	11.71782	8.98	810.56	1.5	ANNUAL	OPS	5
593125.4	4152308	11.1373	9.08	810.56	1.5	ANNUAL	OPS	5
593145.4	4152308	10.01496	9.15	810.56	1.5	ANNUAL	OPS	5
592685.4	4152328	8.08538	9.05	810.56	1.5	ANNUAL	OPS	5
592705.4	4152328	8.52324	8.75	810.56	1.5	ANNUAL	OPS	5
592725.4	4152328	8.92911	8.57	810.56	1.5	ANNUAL	OPS	5
592745.4	4152328	9.23713	8.93	810.56	1.5	ANNUAL	OPS	5
592765.4	4152328	9.54746	8.91	810.56	1.5	ANNUAL	OPS	5
592785.4	4152328	9.81506	8.83	810.56	1.5	ANNUAL	OPS	5
592805.4	4152328	10.08827	8.3	810.56	1.5	ANNUAL	OPS	5
592825.4	4152328	10.17843	8.65	810.56	1.5	ANNUAL	OPS	5
592845.4	4152328	10.25409	8.67	810.56	1.5	ANNUAL	OPS	5
592865.4	4152328	10.28678	8.6	810.56	1.5	ANNUAL	OPS	5
592885.4	4152328	10.2688	8.53	810.56	1.5	ANNUAL	OPS	5
592905.4	4152328	10.20328	8.5	810.56	1.5	ANNUAL	OPS	5
592925.4	4152328	10.10204	8.51	810.56	1.5	ANNUAL	OPS	5
592945.4	4152328	9.97435	8.63	810.56	1.5	ANNUAL	OPS	5
592965.4	4152328	9.8346	8.89	810.56	1.5	ANNUAL	OPS	5
592985.4	4152328	9.69856	9.04	810.56	1.5	ANNUAL	OPS	5
593005.4	4152328	9.56144	9.11	810.56	1.5	ANNUAL	OPS	5
593025.4	4152328	9.40852	9.02	810.56	1.5	ANNUAL	OPS	5
593045.4	4152328	9.2284	8.98	810.56	1.5	ANNUAL	OPS	5
593065.4	4152328	8.98536	8.89	810.56	1.5	ANNUAL	OPS	5
593085.4	4152328	8.63256	8.74	810.56	1.5	ANNUAL	OPS	5
593105.4	4152328	8.13715	8.73	810.56	1.5	ANNUAL	OPS	5
593125.4	4152328	7.45106	8.76	810.56	1.5	ANNUAL	OPS	5
592725.4	4152348	7.44861	8.63	810.56	1.5	ANNUAL	OPS	5
592745.4	4152348	7.64762	8.97	810.56	1.5	ANNUAL	OPS	5
592765.4	4152348	7.83165	9.07	810.56	1.5	ANNUAL	OPS	5
592785.4	4152348	8.00409	8.89	810.56	1.5	ANNUAL	OPS	5
592805.4	4152348	8.16905	8.37	810.56	1.5	ANNUAL	OPS	5
592825.4	4152348	8.20153	8.79	810.56	1.5	ANNUAL	OPS	5
592845.4	4152348	8.22936	8.85	810.56	1.5	ANNUAL	OPS	5
592865.4	4152348	8.22174	8.91	810.56	1.5	ANNUAL	OPS	5
592885.4	4152348	8.17957	9.02	810.56	1.5	ANNUAL	OPS	5
592905.4	4152348	8.11968	9.02	810.56	1.5	ANNUAL	OPS	5
592925.4	4152348	8.03954	8.97	810.56	1.5	ANNUAL	OPS	5
592945.4	4152348	7.94193	8.83	810.56	1.5	ANNUAL	OPS	5
592965.4	4152348	7.82271	8.68	810.56	1.5	ANNUAL	OPS	5
592985.4	4152348	7.68269	8.7	810.56	1.5	ANNUAL	OPS	5
593005.4	4152348	7.52737	8.97	810.56	1.5	ANNUAL	OPS	5
593025.4	4152348	7.34678	9.2	810.56	1.5	ANNUAL	OPS	5
593045.4	4152348	7.11727	9.24	810.56	1.5	ANNUAL	OPS	5
593065.4	4152348	6.81244	9.09	810.56	1.5	ANNUAL	OPS	5
593085.4	4152348	6.41938	8.9	810.56	1.5	ANNUAL	OPS	5
593105.4	4152348	5.94311	8.85	810.56	1.5	ANNUAL	OPS	5
592765.4	4152368	6.55761	9.07	810.56	1.5	ANNUAL	OPS	5
592785.4	4152368	6.66365	8.9	810.56	1.5	ANNUAL	OPS	5
592805.4	4152368	6.75946	8.44	810.56	1.5	ANNUAL	OPS	5
592825.4	4152368	6.76543	8.85	810.56	1.5	ANNUAL	OPS	5
592845.4	4152368	6.76044	9.02	810.56	1.5	ANNUAL	OPS	5

592865.4	4152368	6.73764	9.08	810.56	1.5	ANNUAL	OPS	5
592885.4	4152368	6.68953	9.19	810.56	1.5	ANNUAL	OPS	5
592905.4	4152368	6.62837	9.16	810.56	1.5	ANNUAL	OPS	5
592925.4	4152368	6.54674	9.15	810.56	1.5	ANNUAL	OPS	5
592945.4	4152368	6.44728	9.11	810.56	1.5	ANNUAL	OPS	5
592965.4	4152368	6.32705	9.13	810.56	1.5	ANNUAL	OPS	5
592985.4	4152368	6.18583	9	810.56	1.5	ANNUAL	OPS	5
593005.4	4152368	6.01395	8.83	810.56	1.5	ANNUAL	OPS	5
593025.4	4152368	5.80728	8.83	810.56	1.5	ANNUAL	OPS	5
593045.4	4152368	5.56369	9.06	810.56	1.5	ANNUAL	OPS	5
593065.4	4152368	5.27255	9.24	810.56	1.5	ANNUAL	OPS	5
592825.4	4152388	5.69048	8.57	810.56	1.5	ANNUAL	OPS	5
592845.4	4152388	5.67173	8.69	810.56	1.5	ANNUAL	OPS	5
592865.4	4152388	5.63065	8.88	810.56	1.5	ANNUAL	OPS	5
592885.4	4152388	5.57257	9.06	810.56	1.5	ANNUAL	OPS	5
592905.4	4152388	5.50003	9.18	810.56	1.5	ANNUAL	OPS	5
592925.4	4152388	5.41201	9.27	810.56	1.5	ANNUAL	OPS	5
592945.4	4152388	5.30801	9.3	810.56	1.5	ANNUAL	OPS	5
592965.4	4152388	5.18508	9.29	810.56	1.5	ANNUAL	OPS	5
592985.4	4152388	5.03948	9.3	810.56	1.5	ANNUAL	OPS	5
593005.4	4152388	4.86811	9.29	810.56	1.5	ANNUAL	OPS	5

** CONCUNIT ug/m^3
** DEPUNIT g/m^2

A-3 Construction and Operational HRA

43990 Fremont
Worker Receptors - Construction Cancer Risk

Haul Truck Trip Lengths

	Haul	Vendor	
Trip Length	20	8.4	miles
	32187	13518	meters

Haul Truck Adjustment Factor to Model

Source	Haul	Vendor
Haul	0.02	0.05

Modeled Routes

	Haul	
Trip Length	618.3	meters

from AERMOD

	Days					Total Unmitigated DPM (tons)			Total Mitigated DPM (tons)		
Construction Year	Start Date	End Date	Age 16<70	Calendar Days		Onsite Offroad	Haul Truck	Vendor Trips	Onsite Offroad	Haul Truck	Vendor Trips
2024	11/1/2024	12/31/2024	61.00	61		3.49E-02	2.31E-04	0.00E+00	3.49E-02	2.31E-04	0.00E+00
2025	1/1/2025	11/1/2025	305.00	305		5.69E-02	1.47E-04	3.29E-04	5.64E-02	1.47E-04	3.29E-04

			Total Unmitigated DPM (g/s)		Total Mitigated DPM (g/s)	
Construction Year	Start Date	End Date	CSTN	HAUL	CSTN	HAUL
2024	11/1/2024	12/31/2024	6.01E-03	7.63E-07	6.01E-03	7.63E-07
2025	1/1/2025	11/1/2025	1.96E-03	6.15E-07	1.94E-03	6.15E-07

Risk Factors

	Abbreviation	UOM	Age 16<70
8HR Breathing Rate (95th %'ile)	8HR-BR	L/kg-day	230
Modeling adjustment factor	MAF	unitless	4.20
Exposure Frequency	EF	days/year	0.68
Age Sensitivity Factor	ASF	unitless	1
Inhalation Absorption Factor	A	unitless	1
Conversion Factor	CF_1	m^3/L	0.001
Conversion Factor	CF_2	$\mu g/m^3$	0.001
Cancer Potency Factor (diesel exha	CPF	$mg/kg\text{-}day^{-1}$	1.1
Averaging Time (for residential exp	AT	years	70.00

Intake Factor for Inhalation, IF (m^3/kg-day)

	Year	Equation	Age 16<70
Construction	2024	DBR*FAH*EF *ED*ASF*A* CF/AT	0.002
	2025		0.008

Risk Calculation Part 1, R1

Year		Age 16<70
2024	IF*CPF*CF	1.74E-06
2025		8.69E-06

MAX	Cancer Risk	UTM X	UTM Y
Unmitigated	0.39	593125.4	4151988
Mitigated	0.38	593125.4	4151988

Diesel Particulate Matter concentration, C_{DPM} (ug/m^3)

			Unmitigated		Mitigated	
Lookup	X (UTM)	Y (UTM	2024	2025	2024	2025
593105.4_41520	593105.4	4152028	2.95E-03	9.59E-04	2.95E-03	9.51E-04
593125.4_41520	593125.4	4152028	3.19E-03	1.04E-03	3.19E-03	1.03E-03
593085.4_41520	593085.4	4152048	3.49E-03	1.14E-03	3.49E-03	1.13E-03
593105.4_41520	593105.4	4152048	3.87E-03	1.26E-03	3.87E-03	1.25E-03
593125.4_41520	593125.4	4152048	4.32E-03	1.41E-03	4.32E-03	1.40E-03
593145.4_41520	593145.4	4152048	4.90E-03	1.60E-03	4.90E-03	1.58E-03
593165.4_41520	593165.4	4152048	5.59E-03	1.82E-03	5.59E-03	1.81E-03
593185.4_41520	593185.4	4152048	6.41E-03	2.09E-03	6.41E-03	2.07E-03
593205.4_41520	593205.4	4152048	7.33E-03	2.39E-03	7.33E-03	2.37E-03
593065.4_41520	593065.4	4152068	2.61E-03	8.52E-04	2.61E-03	8.44E-04
593085.4_41520	593085.4	4152068	2.79E-03	9.10E-04	2.79E-03	9.02E-04
593105.4_41520	593105.4	4152068	3.00E-03	9.76E-04	3.00E-03	9.68E-04
593125.4_41520	593125.4	4152068	3.25E-03	1.06E-03	3.25E-03	1.05E-03
593145.4_41520	593145.4	4152068	3.54E-03	1.15E-03	3.54E-03	1.14E-03
593165.4_41520	593165.4	4152068	3.88E-03	1.26E-03	3.88E-03	1.25E-03
593185.4_41520	593185.4	4152068	4.31E-03	1.40E-03	4.31E-03	1.39E-03
593205.4_41520	593205.4	4152068	4.85E-03	1.58E-03	4.85E-03	1.57E-03
593225.4_41520	593225.4	4152068	5.52E-03	1.80E-03	5.52E-03	1.78E-03
593065.4_41520	593065.4	4152088	6.36E-03	2.07E-03	6.36E-03	2.05E-03
593085.4_41520	593085.4	4152088	7.35E-03	2.39E-03	7.35E-03	2.37E-03
593105.4_41520	593105.4	4152088	8.48E-03	2.76E-03	8.48E-03	2.74E-03
593125.4_41520	593125.4	4152088	9.79E-03	3.19E-03	9.79E-03	3.16E-03
593145.4_41520	593145.4	4152088	1.12E-02	3.66E-03	1.12E-02	3.63E-03
593165.4_41520	593165.4	4152088	1.27E-02	4.14E-03	1.27E-02	4.11E-03
593185.4_41520	593185.4	4152088	2.56E-03	8.35E-04	2.56E-03	8.28E-04
593205.4_41520	593205.4	4152088	2.70E-03	8.80E-04	2.70E-03	8.73E-04
593225.4_41520	593225.4	4152088	2.87E-03	9.35E-04	2.87E-03	9.27E-04
593145.4_41521	593145.4	4152108	3.07E-03	1.00E-03	3.07E-03	9.93E-04
593165.4_41521	593165.4	4152108	3.31E-03	1.08E-03	3.31E-03	1.07E-03
593185.4_41521	593185.4	4152108	3.60E-03	1.17E-03	3.60E-03	1.16E-03
593205.4_41521	593205.4	4152108	3.94E-03	1.28E-03	3.94E-03	1.27E-03
593225.4_41521	593225.4	4152108	4.35E-03	1.42E-03	4.35E-03	1.41E-03
593225.4_41521	593225.4	4152128	4.86E-03	1.58E-03	4.86E-03	1.57E-03
593005.4_41520	593005.4	4152008	5.51E-03	1.79E-03	5.51E-03	1.78E-03
593025.4_41520	593025.4	4152008	6.33E-03	2.06E-03	6.33E-03	2.04E-03
593005.4_41520	593005.4	4152028	7.35E-03	2.39E-03	7.35E-03	2.37E-03
593025.4_41520	593025.4	4152028	8.55E-03	2.78E-03	8.55E-03	2.76E-03
592705.4_41520	592705.4	4152008	9.93E-03	3.23E-03	9.93E-03	3.21E-03
592725.4_41520	592725.4	4152008	1.15E-02	3.74E-03	1.15E-02	3.71E-03
592745.4_41520	592745.4	4152008	1.32E-02	4.30E-03	1.32E-02	4.27E-03
592705.4_41520	592705.4	4152028	1.49E-02	4.86E-03	1.49E-02	4.82E-03
592725.4_41520	592725.4	4152028	1.67E-02	5.45E-03	1.67E-02	5.40E-03
592685.4_41520	592685.4	4152048	1.87E-02	6.07E-03	1.87E-02	6.02E-03
592705.4_41520	592705.4	4152048	2.68E-03	8.73E-04	2.68E-03	8.66E-04
592725.4_41520	592725.4	4152048	2.82E-03	9.19E-04	2.82E-03	9.11E-04
592705.4_41520	592705.4	4152068	2.98E-03	9.70E-04	2.98E-03	9.62E-04
593065.4_41517	593065.4	4151728	3.18E-03	1.03E-03	3.18E-03	1.03E-03
593085.4_41517	593085.4	4151728	3.41E-03	1.11E-03	3.41E-03	1.10E-03
593105.4_41517	593105.4	4151728	3.69E-03	1.20E-03	3.69E-03	1.19E-03
593125.4_41517	593125.4	4151728	4.02E-03	1.31E-03	4.02E-03	1.30E-03
593045.4_41517	593045.4	4151748	4.42E-03	1.44E-03	4.42E-03	1.43E-03
593065.4_41517	593065.4	4151748	4.91E-03	1.60E-03	4.91E-03	1.59E-03
593085.4_41517	593085.4	4151748	5.53E-03	1.80E-03	5.53E-03	1.79E-03
593105.4_41517	593105.4	4151748	6.32E-03	2.06E-03	6.32E-03	2.04E-03
593125.4_41517	593125.4	4151748	7.34E-03	2.39E-03	7.34E-03	2.37E-03
593145.4_41517	593145.4	4151748	8.61E-03	2.80E-03	8.61E-03	2.78E-03
593165.4_41517	593165.4	4151748	1.01E-02	3.28E-03	1.01E-02	3.26E-03
593025.4_41517	593025.4	4151768	1.18E-02	3.85E-03	1.18E-02	3.82E-03
593045.4_41517	593045.4	4151768	1.38E-02	4.49E-03	1.38E-02	4.45E-03
593065.4_41517	593065.4	4151768	1.58E-02	5.16E-03	1.58E-02	5.11E-03
593085.4_41517	593085.4	4151768	1.80E-02	5.84E-03	1.80E-02	5.80E-03
593105.4_41517	593105.4	4151768	2.02E-02	6.58E-03	2.02E-02	6.52E-03
593125.4_41517	593125.4	4151768	2.25E-02	7.34E-03	2.25E-02	7.27E-03
593145.4_41517	593145.4	4151768	2.47E-02	8.05E-03	2.47E-02	7.98E-03
593165.4_41517	593165.4	4151768	2.65E-02	8.63E-03	2.65E-02	8.56E-03
593185.4_41517	593185.4	4151768	2.84E-03	9.24E-04	2.84E-03	9.17E-04
593005.4_41517	593005.4	4151788	2.98E-03	9.70E-04	2.98E-03	9.62E-04
593025.4_41517	593025.4	4151788	3.14E-03	1.02E-03	3.14E-03	1.01E-03
593045.4_41517	593045.4	4151788	3.31E-03	1.08E-03	3.31E-03	1.07E-03
593065.4_41517	593065.4	4151788	3.53E-03	1.15E-03	3.53E-03	1.14E-03
593085.4_41517	593085.4	4151788	3.81E-03	1.24E-03	3.81E-03	1.23E-03

Unmitigated Cancer Risk, Risk Calculation Part 2

$\sum R1*C_{DPM}$	
Age 16<70	Total
1.35E-08	0.01
1.46E-08	0.01
1.59E-08	0.02
1.77E-08	0.02
1.97E-08	0.02
2.24E-08	0.02
2.55E-08	0.03
2.93E-08	0.03
3.35E-08	0.03
1.19E-08	0.01
1.28E-08	0.01
1.37E-08	0.01
1.48E-08	0.01
1.62E-08	0.02
1.77E-08	0.02
1.97E-08	0.02
2.21E-08	0.02
2.52E-08	0.03
2.90E-08	0.03
3.36E-08	0.03
3.87E-08	0.04
4.47E-08	0.04
5.13E-08	0.05
5.81E-08	0.06
1.17E-08	0.01
1.23E-08	0.01
1.31E-08	0.01
1.40E-08	0.01
1.51E-08	0.02
1.64E-08	0.02
1.80E-08	0.02
1.99E-08	0.02
2.22E-08	0.02
2.51E-08	0.03
2.89E-08	0.03
3.36E-08	0.03
3.90E-08	0.04
4.53E-08	0.05
5.25E-08	0.05
6.03E-08	0.06
6.81E-08	0.07
7.64E-08	0.08
8.52E-08	0.09
1.22E-08	0.01
1.29E-08	0.01
1.36E-08	0.01
1.45E-08	0.01
1.56E-08	0.02
1.68E-08	0.02
1.84E-08	0.02
2.02E-08	0.02
2.24E-08	0.02
2.53E-08	0.03
2.89E-08	0.03
3.35E-08	0.03
3.93E-08	0.04
4.60E-08	0.05
5.40E-08	0.05
6.29E-08	0.06
7.23E-08	0.07
8.20E-08	0.08
9.23E-08	0.09
1.03E-07	0.10
1.13E-07	0.11
1.21E-07	0.12
1.30E-08	0.01
1.36E-08	0.01
1.43E-08	0.01
1.51E-08	0.02
1.61E-08	0.02
1.74E-08	0.02

Mitigated Cancer Risk, Risk Calculation Part 2

$\sum R1*C_{DPM}$	
Age 16<70	Total
1.34E-08	0.01
1.45E-08	0.01
1.59E-08	0.02
1.76E-08	0.02
1.96E-08	0.02
2.23E-08	0.02
2.54E-08	0.03
2.91E-08	0.03
3.33E-08	0.03
1.19E-08	0.01
1.27E-08	0.01
1.36E-08	0.01
1.48E-08	0.01
1.61E-08	0.02
1.76E-08	0.02
1.96E-08	0.02
2.20E-08	0.02
2.51E-08	0.03
2.89E-08	0.03
3.34E-08	0.03
3.85E-08	0.04
4.45E-08	0.04
5.11E-08	0.05
5.78E-08	0.06
1.16E-08	0.01
1.23E-08	0.01
1.30E-08	0.01
1.40E-08	0.01
1.50E-08	0.02
1.64E-08	0.02
1.79E-08	0.02
1.98E-08	0.02
2.21E-08	0.02
2.50E-08	0.03
2.88E-08	0.03
3.34E-08	0.03
3.88E-08	0.04
4.51E-08	0.05
5.22E-08	0.05
6.00E-08	0.06
6.78E-08	0.07
7.60E-08	0.08
8.48E-08	0.08
1.22E-08	0.01
1.28E-08	0.01
1.35E-08	0.01
1.44E-08	0.01
1.55E-08	0.02
1.67E-08	0.02
1.83E-08	0.02
2.01E-08	0.02
2.23E-08	0.02
2.51E-08	0.03
2.87E-08	0.03
3.33E-08	0.03
3.91E-08	0.04
4.58E-08	0.05
5.37E-08	0.05
6.26E-08	0.06
7.19E-08	0.07
8.15E-08	0.08
9.18E-08	0.09
1.02E-07	0.10
1.12E-07	0.11
1.20E-07	0.12
1.29E-08	0.01
1.35E-08	0.01
1.43E-08	0.01
1.50E-08	0.02
1.61E-08	0.02
1.73E-08	0.02

Diesel Particulate Matter concentration, C_{DPM} (ug/m^3)

			Unmitigated		Mitigated	
Lookup	X (UTM)	Y (UTM	2024	2025	2024	2025
593105.4_41517	593105.4	4151788	4.13E-03	1.34E-03	4.13E-03	1.33E-03
593125.4_41517	593125.4	4151788	4.52E-03	1.47E-03	4.52E-03	1.46E-03
593145.4_41517	593145.4	4151788	4.99E-03	1.63E-03	4.99E-03	1.61E-03
593165.4_41517	593165.4	4151788	5.58E-03	1.82E-03	5.58E-03	1.80E-03
593185.4_41517	593185.4	4151788	6.30E-03	2.05E-03	6.30E-03	2.04E-03
593205.4_41517	593205.4	4151788	7.32E-03	2.38E-03	7.32E-03	2.36E-03
592985.4_41518	592985.4	4151808	8.59E-03	2.80E-03	8.59E-03	2.77E-03
593005.4_41518	593005.4	4151808	1.01E-02	3.30E-03	1.01E-02	3.28E-03
593025.4_41518	593025.4	4151808	1.20E-02	3.92E-03	1.20E-02	3.89E-03
593045.4_41518	593045.4	4151808	1.43E-02	4.65E-03	1.43E-02	4.61E-03
593065.4_41518	593065.4	4151808	1.67E-02	5.44E-03	1.67E-02	5.39E-03
593085.4_41518	593085.4	4151808	1.93E-02	6.27E-03	1.93E-02	6.22E-03
593105.4_41518	593105.4	4151808	2.20E-02	7.16E-03	2.20E-02	7.10E-03
593125.4_41518	593125.4	4151808	2.47E-02	8.04E-03	2.47E-02	7.97E-03
593145.4_41518	593145.4	4151808	2.73E-02	8.90E-03	2.73E-02	8.82E-03
593165.4_41518	593165.4	4151808	2.97E-02	9.68E-03	2.97E-02	9.60E-03
593185.4_41518	593185.4	4151808	3.18E-02	1.04E-02	3.18E-02	1.03E-02
593205.4_41518	593205.4	4151808	3.36E-02	1.10E-02	3.36E-02	1.09E-02
592965.4_41518	592965.4	4151828	2.94E-03	9.58E-04	2.94E-03	9.50E-04
592985.4_41518	592985.4	4151828	3.04E-03	9.91E-04	3.04E-03	9.83E-04
593005.4_41518	593005.4	4151828	3.16E-03	1.03E-03	3.16E-03	1.02E-03
593025.4_41518	593025.4	4151828	3.31E-03	1.08E-03	3.31E-03	1.07E-03
593045.4_41518	593045.4	4151828	3.51E-03	1.14E-03	3.51E-03	1.13E-03
593065.4_41518	593065.4	4151828	3.70E-03	1.20E-03	3.70E-03	1.19E-03
593085.4_41518	593085.4	4151828	3.95E-03	1.29E-03	3.95E-03	1.28E-03
593105.4_41518	593105.4	4151828	4.27E-03	1.39E-03	4.27E-03	1.38E-03
593125.4_41518	593125.4	4151828	4.64E-03	1.51E-03	4.64E-03	1.50E-03
593145.4_41518	593145.4	4151828	5.11E-03	1.67E-03	5.11E-03	1.65E-03
593165.4_41518	593165.4	4151828	5.69E-03	1.85E-03	5.69E-03	1.84E-03
593185.4_41518	593185.4	4151828	6.42E-03	2.09E-03	6.42E-03	2.07E-03
593205.4_41518	593205.4	4151828	7.33E-03	2.39E-03	7.33E-03	2.37E-03
593225.4_41518	593225.4	4151828	8.58E-03	2.79E-03	8.58E-03	2.77E-03
592945.4_41518	592945.4	4151848	1.02E-02	3.34E-03	1.02E-02	3.31E-03
592965.4_41518	592965.4	4151848	1.22E-02	3.97E-03	1.22E-02	3.94E-03
592985.4_41518	592985.4	4151848	1.46E-02	4.77E-03	1.46E-02	4.73E-03
593005.4_41518	593005.4	4151848	1.75E-02	5.68E-03	1.75E-02	5.64E-03
593025.4_41518	593025.4	4151848	2.06E-02	6.70E-03	2.06E-02	6.64E-03
593045.4_41518	593045.4	4151848	2.39E-02	7.78E-03	2.39E-02	7.72E-03
593065.4_41518	593065.4	4151848	2.73E-02	8.88E-03	2.73E-02	8.81E-03
593085.4_41518	593085.4	4151848	3.05E-02	9.95E-03	3.05E-02	9.86E-03
593105.4_41518	593105.4	4151848	3.36E-02	1.09E-02	3.36E-02	1.09E-02
593125.4_41518	593125.4	4151848	3.63E-02	1.18E-02	3.63E-02	1.17E-02
593145.4_41518	593145.4	4151848	3.85E-02	1.25E-02	3.85E-02	1.24E-02
593165.4_41518	593165.4	4151848	4.01E-02	1.31E-02	4.01E-02	1.30E-02
593185.4_41518	593185.4	4151848	4.12E-02	1.34E-02	4.12E-02	1.33E-02
593205.4_41518	593205.4	4151848	3.24E-03	1.05E-03	3.24E-03	1.05E-03
593225.4_41518	593225.4	4151848	3.32E-03	1.08E-03	3.32E-03	1.07E-03
593245.4_41518	593245.4	4151848	3.43E-03	1.12E-03	3.43E-03	1.11E-03
592925.4_41518	592925.4	4151868	3.57E-03	1.16E-03	3.57E-03	1.15E-03
592945.4_41518	592945.4	4151868	3.74E-03	1.22E-03	3.74E-03	1.21E-03
592965.4_41518	592965.4	4151868	3.96E-03	1.29E-03	3.96E-03	1.28E-03
592985.4_41518	592985.4	4151868	4.20E-03	1.37E-03	4.20E-03	1.35E-03
593005.4_41518	593005.4	4151868	4.49E-03	1.46E-03	4.49E-03	1.45E-03
593025.4_41518	593025.4	4151868	4.85E-03	1.58E-03	4.85E-03	1.57E-03
593045.4_41518	593045.4	4151868	5.30E-03	1.72E-03	5.30E-03	1.71E-03
593065.4_41518	593065.4	4151868	5.85E-03	1.91E-03	5.85E-03	1.89E-03
593085.4_41518	593085.4	4151868	6.54E-03	2.13E-03	6.54E-03	2.11E-03
593105.4_41518	593105.4	4151868	7.44E-03	2.42E-03	7.44E-03	2.40E-03
593125.4_41518	593125.4	4151868	8.63E-03	2.81E-03	8.63E-03	2.79E-03
593145.4_41518	593145.4	4151868	1.02E-02	3.33E-03	1.02E-02	3.30E-03
593165.4_41518	593165.4	4151868	1.24E-02	4.02E-03	1.24E-02	3.99E-03
593185.4_41518	593185.4	4151868	1.50E-02	4.88E-03	1.50E-02	4.84E-03
593205.4_41518	593205.4	4151868	1.82E-02	5.93E-03	1.82E-02	5.88E-03
593225.4_41518	593225.4	4151868	2.19E-02	7.11E-03	2.19E-02	7.06E-03
593245.4_41518	593245.4	4151868	2.59E-02	8.45E-03	2.59E-02	8.38E-03
592905.4_41518	592905.4	4151888	3.02E-02	9.84E-03	3.02E-02	9.75E-03
592925.4_41518	592925.4	4151888	3.44E-02	1.12E-02	3.44E-02	1.11E-02
592945.4_41518	592945.4	4151888	3.83E-02	1.25E-02	3.83E-02	1.24E-02
592965.4_41518	592965.4	4151888	4.19E-02	1.36E-02	4.19E-02	1.35E-02
592985.4_41518	592985.4	4151888	4.47E-02	1.46E-02	4.47E-02	1.44E-02
593005.4_41518	593005.4	4151888	4.68E-02	1.53E-02	4.68E-02	1.51E-02
593025.4_41518	593025.4	4151888	4.81E-02	1.57E-02	4.81E-02	1.55E-02
593045.4_41518	593045.4	4151888	4.86E-02	1.58E-02	4.86E-02	1.57E-02
593065.4_41518	593065.4	4151888	4.84E-02	1.58E-02	4.84E-02	1.56E-02
593085.4_41518	593085.4	4151888	3.71E-03	1.21E-03	3.71E-03	1.20E-03
593105.4_41518	593105.4	4151888	3.81E-03	1.24E-03	3.81E-03	1.23E-03
593125.4_41518	593125.4	4151888	3.93E-03	1.28E-03	3.93E-03	1.27E-03
593145.4_41518	593145.4	4151888	4.08E-03	1.33E-03	4.08E-03	1.32E-03
593165.4_41518	593165.4	4151888	4.27E-03	1.39E-03	4.27E-03	1.38E-03
593185.4_41518	593185.4	4151888	4.53E-03	1.48E-03	4.53E-03	1.46E-03
593205.4_41518	593205.4	4151888	4.81E-03	1.57E-03	4.81E-03	1.55E-03
593225.4_41518	593225.4	4151888	5.13E-03	1.67E-03	5.13E-03	1.66E-03
593245.4_41518	593245.4	4151888	5.56E-03	1.81E-03	5.56E-03	1.79E-03
593265.4_41518	593265.4	4151888	6.10E-03	1.99E-03	6.10E-03	1.97E-03
592885.4_41519	592885.4	4151908	6.79E-03	2.21E-03	6.79E-03	2.19E-03
592905.4_41519	592905.4	4151908	7.62E-03	2.48E-03	7.62E-03	2.46E-03
592925.4_41519	592925.4	4151908	8.76E-03	2.85E-03	8.76E-03	2.83E-03
592945.4_41519	592945.4	4151908	1.03E-02	3.34E-03	1.03E-02	3.31E-03
592965.4_41519	592965.4	4151908	1.23E-02	4.01E-03	1.23E-02	3.98E-03
592985.4_41519	592985.4	4151908	1.51E-02	4.93E-03	1.51E-02	4.89E-03
593005.4_41519	593005.4	4151908	1.87E-02	6.10E-03	1.87E-02	6.05E-03
593025.4_41519	593025.4	4151908	2.30E-02	7.50E-03	2.30E-02	7.44E-03
593045.4_41519	593045.4	4151908	2.80E-02	9.12E-03	2.80E-02	9.04E-03
593065.4_41519	593065.4	4151908	3.35E-02	1.09E-02	3.35E-02	1.08E-02
593085.4_41519	593085.4	4151908	3.88E-02	1.26E-02	3.88E-02	1.25E-02
593105.4_41519	593105.4	4151908	4.41E-02	1.44E-02	4.41E-02	1.43E-02
593125.4_41519	593125.4	4151908	4.88E-02	1.59E-02	4.88E-02	1.58E-02
593145.4_41519	593145.4	4151908	5.26E-02	1.71E-02	5.26E-02	1.70E-02
593165.4_41519	593165.4	4151908	5.53E-02	1.80E-02	5.53E-02	1.78E-02
593185.4_41519	593185.4	4151908	5.70E-02	1.86E-02	5.70E-02	1.84E-02
593205.4_41519	593205.4	4151908	5.75E-02	1.87E-02	5.75E-02	1.86E-02
593225.4_41519	593225.4	4151908	5.70E-02	1.86E-02	5.70E-02	1.84E-02
593245.4_41519	593245.4	4151908	5.58E-02	1.82E-02	5.58E-02	1.80E-02
593265.4_41519	593265.4	4151908	5.40E-02	1.76E-02	5.40E-02	1.74E-02
592885.4_41519	592885.4	4151928	4.18E-03	1.36E-03	4.18E-03	1.35E-03
592905.4_41519	592905.4	4151928	4.29E-03	1.40E-03	4.29E-03	1.38E-03
592925.4_41519	592925.4	4151928	4.43E-03	1.44E-03	4.43E-03	1.43E-03
592945.4_41519	592945.4	4151928	4.57E-03	1.49E-03	4.57E-03	1.47E-03
592965.4_41519	592965.4	4151928	4.75E-03	1.55E-03	4.75E-03	1.53E-03
592985.4_41519	592985.4	4151928	4.96E-03	1.62E-03	4.96E-03	1.60E-03
593005.4_41519	593005.4	4151928	5.22E-03	1.70E-03	5.22E-03	1.69E-03
593025.4_41519	593025.4	4151928	5.58E-03	1.82E-03	5.58E-03	1.80E-03
593045.4_41519	593045.4	4151928	5.94E-03	1.93E-03	5.94E-03	1.92E-03
593065.4_41519	593065.4	4151928	6.43E-03	2.10E-03	6.43E-03	2.08E-03
593085.4_41519	593085.4	4151928	7.09E-03	2.31E-03	7.09E-03	2.29E-03
593105.4_41519	593105.4	4151928	7.93E-03	2.58E-03	7.93E-03	2.56E-03
593125.4_41519	593125.4	4151928	9.00E-03	2.93E-03	9.00E-03	2.91E-03
593145.4_41519	593145.4	4151928	1.05E-02	3.41E-03	1.05E-02	3.38E-03

Unmitigated Cancer Risk, Risk Calculation Part 2

$\sum R1*C_{DPM}$	
Age 16<70	Total
1.89E-08	0.02
2.07E-08	0.02
2.28E-08	0.02
2.55E-08	0.03
2.88E-08	0.03
3.34E-08	0.03
3.92E-08	0.04
4.63E-08	0.05
5.50E-08	0.05
6.52E-08	0.07
7.62E-08	0.08
8.79E-08	0.09
1.00E-07	0.10
1.13E-07	0.11
1.25E-07	0.12
1.36E-07	0.14
1.45E-07	0.15
1.54E-07	0.15
1.34E-08	0.01
1.39E-08	0.01
1.44E-08	0.01
1.51E-08	0.02
1.60E-08	0.02
1.69E-08	0.02
1.81E-08	0.02
1.95E-08	0.02
2.12E-08	0.02
2.34E-08	0.02
2.60E-08	0.03
2.93E-08	0.03
3.35E-08	0.03
3.92E-08	0.04
4.68E-08	0.05
5.57E-08	0.06
6.69E-08	0.07
7.97E-08	0.08
9.39E-08	0.09
1.09E-07	0.11
1.25E-07	0.12
1.39E-07	0.14
1.54E-07	0.15
1.66E-07	0.17
1.76E-07	0.18
1.83E-07	0.18
1.88E-07	0.19
1.48E-08	0.01
1.52E-08	0.02
1.57E-08	0.02
1.63E-08	0.02
1.71E-08	0.02
1.81E-08	0.02
1.92E-08	0.02
2.05E-08	0.02
2.22E-08	0.02
2.42E-08	0.02
2.67E-08	0.03
2.99E-08	0.03
3.40E-08	0.03
3.94E-08	0.04
4.67E-08	0.05
5.64E-08	0.06
6.84E-08	0.07
8.31E-08	0.08
9.98E-08	0.10
1.18E-07	0.12
1.38E-07	0.14
1.57E-07	0.16
1.75E-07	0.18
1.91E-07	0.19
2.04E-07	0.20
2.14E-07	0.21
2.20E-07	0.22
2.22E-07	0.22
2.21E-07	0.22
1.70E-08	0.02
1.74E-08	0.02
1.80E-08	0.02
1.86E-08	0.02
1.95E-08	0.02
2.07E-08	0.02
2.20E-08	0.02
2.34E-08	0.02
2.54E-08	0.03
2.79E-08	0.03
3.10E-08	0.03
3.48E-08	0.03
4.00E-08	0.04
4.68E-08	0.05
5.63E-08	0.06
6.92E-08	0.07
8.56E-08	0.09
1.05E-07	0.11
1.28E-07	0.13
1.53E-07	0.15
1.77E-07	0.18
2.02E-07	0.20
2.23E-07	0.22
2.40E-07	0.24
2.52E-07	0.25
2.61E-07	0.26
2.63E-07	0.26
2.60E-07	0.26
2.55E-07	0.25
2.47E-07	0.25
1.91E-08	0.02
1.96E-08	0.02
2.03E-08	0.02
2.09E-08	0.02
2.17E-08	0.02
2.27E-08	0.02
2.38E-08	0.02
2.55E-08	0.03
2.71E-08	0.03
2.94E-08	0.03
3.24E-08	0.03
3.62E-08	0.04
4.11E-08	0.04
4.78E-08	0.05

Mitigated Cancer Risk, Risk Calculation Part 2

$\sum R1*C_{DPM}$	
Age 16<70	Total
1.88E-08	0.02
2.05E-08	0.02
2.27E-08	0.02
2.53E-08	0.03
2.86E-08	0.03
3.32E-08	0.03
3.90E-08	0.04
4.61E-08	0.05
5.47E-08	0.05
6.48E-08	0.06
7.58E-08	0.08
8.75E-08	0.09
9.98E-08	0.10
1.12E-07	0.11
1.24E-07	0.12
1.35E-07	0.14
1.45E-07	0.14
1.53E-07	0.15
1.34E-08	0.01
1.38E-08	0.01
1.44E-08	0.01
1.51E-08	0.02
1.60E-08	0.02
1.68E-08	0.02
1.80E-08	0.02
1.94E-08	0.02
2.11E-08	0.02
2.32E-08	0.02
2.58E-08	0.03
2.92E-08	0.03
3.33E-08	0.03
3.90E-08	0.04
4.65E-08	0.05
5.54E-08	0.06
6.65E-08	0.07
7.93E-08	0.08
9.34E-08	0.09
1.09E-07	0.11
1.24E-07	0.12
1.39E-07	0.14
1.53E-07	0.15
1.65E-07	0.17
1.75E-07	0.17
1.82E-07	0.18
1.87E-07	0.19
1.47E-08	0.01
1.51E-08	0.02
1.56E-08	0.02
1.62E-08	0.02
1.70E-08	0.02
1.80E-08	0.02
1.91E-08	0.02
2.04E-08	0.02
2.21E-08	0.02
2.41E-08	0.02
2.66E-08	0.03
2.97E-08	0.03
3.38E-08	0.03
3.92E-08	0.04
4.65E-08	0.05
5.62E-08	0.06
6.81E-08	0.07
8.27E-08	0.08
9.93E-08	0.10
1.18E-07	0.12
1.37E-07	0.14
1.56E-07	0.16
1.74E-07	0.17
1.90E-07	0.19
2.03E-07	0.20
2.13E-07	0.21
2.18E-07	0.22
2.21E-07	0.22
2.20E-07	0.22
1.69E-08	0.02
1.73E-08	0.02
1.79E-08	0.02
1.85E-08	0.02
1.94E-08	0.02
2.06E-08	0.02
2.19E-08	0.02
2.33E-08	0.02
2.53E-08	0.03
2.77E-08	0.03
3.08E-08	0.03
3.46E-08	0.03
3.98E-08	0.04
4.66E-08	0.05
5.60E-08	0.06
6.88E-08	0.07
8.51E-08	0.09
1.05E-07	0.10
1.27E-07	0.13
1.52E-07	0.15
1.76E-07	0.18
2.01E-07	0.20
2.22E-07	0.22
2.39E-07	0.24
2.51E-07	0.25
2.59E-07	0.26
2.61E-07	0.26
2.59E-07	0.26
2.54E-07	0.25
2.45E-07	0.25
1.90E-08	0.02
1.95E-08	0.02
2.01E-08	0.02
2.07E-08	0.02
2.16E-08	0.02
2.26E-08	0.02
2.37E-08	0.02
2.54E-08	0.03
2.70E-08	0.03
2.92E-08	0.03
3.22E-08	0.03
3.60E-08	0.04
4.09E-08	0.04
4.76E-08	0.05

Diesel Particulate Matter concentration, C_{DPM} (ug/m^3)

			Unmitigated		Mitigated	
Lookup	X (UTM)	Y (UTM	2024	2025	2024	2025
593165.4_41519	593165.4	4151928	1.24E-02	4.05E-03	1.24E-02	4.01E-03
593185.4_41519	593185.4	4151928	1.53E-02	4.97E-03	1.53E-02	4.93E-03
593205.4_41519	593205.4	4151928	1.91E-02	6.23E-03	1.91E-02	6.18E-03
593225.4_41519	593225.4	4151928	2.41E-02	7.83E-03	2.41E-02	7.77E-03
593245.4_41519	593245.4	4151928	3.01E-02	9.79E-03	3.01E-02	9.71E-03
593265.4_41519	593265.4	4151928	3.70E-02	1.20E-02	3.70E-02	1.19E-02
592945.4_41519	592945.4	4151948	4.40E-02	1.43E-02	4.40E-02	1.42E-02
592965.4_41519	592965.4	4151948	5.11E-02	1.66E-02	5.11E-02	1.65E-02
592985.4_41519	592985.4	4151948	5.75E-02	1.87E-02	5.75E-02	1.86E-02
593005.4_41519	593005.4	4151948	6.28E-02	2.04E-02	6.28E-02	2.03E-02
593025.4_41519	593025.4	4151948	6.65E-02	2.16E-02	6.65E-02	2.15E-02
593045.4_41519	593045.4	4151948	6.85E-02	2.23E-02	6.85E-02	2.21E-02
593065.4_41519	593065.4	4151948	6.93E-02	2.25E-02	6.93E-02	2.24E-02
593085.4_41519	593085.4	4151948	6.85E-02	2.23E-02	6.85E-02	2.21E-02
593105.4_41519	593105.4	4151948	6.65E-02	2.17E-02	6.65E-02	2.15E-02
593125.4_41519	593125.4	4151948	6.37E-02	2.08E-02	6.37E-02	2.06E-02
593145.4_41519	593145.4	4151948	6.04E-02	1.96E-02	6.04E-02	1.95E-02
593165.4_41519	593165.4	4151948	5.66E-02	1.84E-02	5.66E-02	1.83E-02
593185.4_41519	593185.4	4151948	4.72E-03	1.54E-03	4.72E-03	1.53E-03
593205.4_41519	593205.4	4151948	4.89E-03	1.59E-03	4.89E-03	1.58E-03
593225.4_41519	593225.4	4151948	5.02E-03	1.64E-03	5.02E-03	1.62E-03
593245.4_41519	593245.4	4151948	5.20E-03	1.69E-03	5.20E-03	1.68E-03
593265.4_41519	593265.4	4151948	5.39E-03	1.76E-03	5.39E-03	1.74E-03
593285.4_41519	593285.4	4151948	5.60E-03	1.82E-03	5.60E-03	1.81E-03
592985.4_41519	592985.4	4151968	5.86E-03	1.91E-03	5.86E-03	1.89E-03
593005.4_41519	593005.4	4151968	6.14E-03	2.00E-03	6.14E-03	1.98E-03
593025.4_41519	593025.4	4151968	6.55E-03	2.13E-03	6.55E-03	2.12E-03
593045.4_41519	593045.4	4151968	6.98E-03	2.27E-03	6.98E-03	2.25E-03
593065.4_41519	593065.4	4151968	7.57E-03	2.46E-03	7.57E-03	2.44E-03
593085.4_41519	593085.4	4151968	8.38E-03	2.73E-03	8.38E-03	2.71E-03
593105.4_41519	593105.4	4151968	9.43E-03	3.07E-03	9.43E-03	3.05E-03
593125.4_41519	593125.4	4151968	1.08E-02	3.52E-03	1.08E-02	3.49E-03
593145.4_41519	593145.4	4151968	1.27E-02	4.15E-03	1.27E-02	4.11E-03
593165.4_41519	593165.4	4151968	1.54E-02	5.02E-03	1.54E-02	4.98E-03
593185.4_41519	593185.4	4151968	1.94E-02	6.32E-03	1.94E-02	6.27E-03
593205.4_41519	593205.4	4151968	2.49E-02	8.11E-03	2.49E-02	8.04E-03
593225.4_41519	593225.4	4151968	3.20E-02	1.04E-02	3.20E-02	1.03E-02
593245.4_41519	593245.4	4151968	4.07E-02	1.33E-02	4.07E-02	1.32E-02
593265.4_41519	593265.4	4151968	5.00E-02	1.63E-02	5.00E-02	1.62E-02
593285.4_41519	593285.4	4151968	5.96E-02	1.94E-02	5.96E-02	1.93E-02
593045.4_41519	593045.4	4151988	6.86E-02	2.23E-02	6.86E-02	2.21E-02
593065.4_41519	593065.4	4151988	7.59E-02	2.47E-02	7.59E-02	2.45E-02
593085.4_41519	593085.4	4151988	8.11E-02	2.64E-02	8.11E-02	2.62E-02
593105.4_41519	593105.4	4151988	8.41E-02	2.74E-02	8.41E-02	2.72E-02
593125.4_41519	593125.4	4151988	8.47E-02	2.76E-02	8.47E-02	2.73E-02
593145.4_41519	593145.4	4151988	8.35E-02	2.72E-02	8.35E-02	2.69E-02
593165.4_41519	593165.4	4151988	8.06E-02	2.62E-02	8.06E-02	2.60E-02
593185.4_41519	593185.4	4151988	7.65E-02	2.49E-02	7.65E-02	2.47E-02
593205.4_41519	593205.4	4151988	7.16E-02	2.33E-02	7.16E-02	2.31E-02
593225.4_41519	593225.4	4151988	6.63E-02	2.16E-02	6.63E-02	2.14E-02
593245.4_41519	593245.4	4151988	6.09E-02	1.98E-02	6.09E-02	1.97E-02
593265.4_41519	593265.4	4151988	5.52E-03	1.80E-03	5.52E-03	1.78E-03
593285.4_41519	593285.4	4151988	5.72E-03	1.86E-03	5.72E-03	1.85E-03
593125.4_41520	593125.4	4152008	5.94E-03	1.93E-03	5.94E-03	1.92E-03
593145.4_41520	593145.4	4152008	6.17E-03	2.01E-03	6.17E-03	1.99E-03
593165.4_41520	593165.4	4152008	6.43E-03	2.09E-03	6.43E-03	2.08E-03
593185.4_41520	593185.4	4152008	6.70E-03	2.18E-03	6.70E-03	2.16E-03
593205.4_41520	593205.4	4152008	6.98E-03	2.27E-03	6.98E-03	2.25E-03
593225.4_41520	593225.4	4152008	7.34E-03	2.39E-03	7.34E-03	2.37E-03
593245.4_41520	593245.4	4152008	7.88E-03	2.57E-03	7.88E-03	2.55E-03
593265.4_41520	593265.4	4152008	8.46E-03	2.76E-03	8.46E-03	2.73E-03
593285.4_41520	593285.4	4152008	9.09E-03	2.96E-03	9.09E-03	2.93E-03
593225.4_41520	593225.4	4152028	1.01E-02	3.29E-03	1.01E-02	3.26E-03
593245.4_41520	593245.4	4152028	1.14E-02	3.72E-03	1.14E-02	3.69E-03
593265.4_41520	593265.4	4152028	1.32E-02	4.31E-03	1.32E-02	4.28E-03
593285.4_41520	593285.4	4152028	1.58E-02	5.15E-03	1.58E-02	5.11E-03
592965.4_41521	592965.4	4152108	1.97E-02	6.41E-03	1.97E-02	6.36E-03
592985.4_41521	592985.4	4152108	2.56E-02	8.33E-03	2.56E-02	8.26E-03
592965.4_41521	592965.4	4152128	3.38E-02	1.10E-02	3.38E-02	1.09E-02
592965.4_41521	592965.4	4152148	4.45E-02	1.45E-02	4.45E-02	1.44E-02
592965.4_41521	592965.4	4152168	5.69E-02	1.85E-02	5.69E-02	1.84E-02

Unmitigated Cancer Risk, Risk Calculation Part 2

∑R1*C_{DPM}	
Age 16<70	Total
5.68E-08	0.06
6.97E-08	0.07
8.74E-08	0.09
1.10E-07	0.11
1.37E-07	0.14
1.69E-07	0.17
2.01E-07	0.20
2.33E-07	0.23
2.63E-07	0.26
2.87E-07	0.29
3.04E-07	0.30
3.13E-07	0.31
3.16E-07	0.32
3.13E-07	0.31
3.04E-07	0.30
2.91E-07	0.29
2.76E-07	0.28
2.58E-07	0.26
2.16E-08	0.02
2.23E-08	0.02
2.29E-08	0.02
2.37E-08	0.02
2.46E-08	0.02
2.56E-08	0.03
2.67E-08	0.03
2.80E-08	0.03
2.99E-08	0.03
3.19E-08	0.03
3.46E-08	0.03
3.83E-08	0.04
4.31E-08	0.04
4.94E-08	0.05
5.81E-08	0.06
7.05E-08	0.07
8.86E-08	0.09
1.14E-07	0.11
1.46E-07	0.15
1.86E-07	0.19
2.28E-07	0.23
2.72E-07	0.27
3.13E-07	0.31
3.46E-07	0.35
3.70E-07	0.37
3.84E-07	0.38
3.87E-07	0.39
3.81E-07	0.38
3.68E-07	0.37
3.49E-07	0.35
3.27E-07	0.33
3.03E-07	0.30
2.78E-07	0.28
2.52E-08	0.03
2.61E-08	0.03
2.71E-08	0.03
2.82E-08	0.03
2.94E-08	0.03
3.06E-08	0.03
3.19E-08	0.03
3.35E-08	0.03
3.60E-08	0.04
3.86E-08	0.04
4.15E-08	0.04
4.62E-08	0.05
5.22E-08	0.05
6.05E-08	0.06
7.23E-08	0.07
9.00E-08	0.09
1.17E-07	0.12
1.55E-07	0.15
2.03E-07	0.20
2.60E-07	0.26

Mitigated Cancer Risk, Risk Calculation Part 2

∑R1*C_{DPM}	
Age 16<70	Total
5.65E-08	0.06
6.93E-08	0.07
8.69E-08	0.09
1.09E-07	0.11
1.37E-07	0.14
1.68E-07	0.17
2.00E-07	0.20
2.32E-07	0.23
2.61E-07	0.26
2.85E-07	0.29
3.02E-07	0.30
3.11E-07	0.31
3.15E-07	0.31
3.11E-07	0.31
3.02E-07	0.30
2.90E-07	0.29
2.74E-07	0.27
2.57E-07	0.26
2.15E-08	0.02
2.22E-08	0.02
2.28E-08	0.02
2.36E-08	0.02
2.45E-08	0.02
2.54E-08	0.03
2.66E-08	0.03
2.79E-08	0.03
2.98E-08	0.03
3.17E-08	0.03
3.44E-08	0.03
3.81E-08	0.04
4.28E-08	0.04
4.91E-08	0.05
5.78E-08	0.06
7.01E-08	0.07
8.82E-08	0.09
1.13E-07	0.11
1.45E-07	0.15
1.85E-07	0.19
2.27E-07	0.23
2.71E-07	0.27
3.12E-07	0.31
3.45E-07	0.34
3.68E-07	0.37
3.82E-07	0.38
3.85E-07	0.38
3.79E-07	0.38
3.66E-07	0.37
3.47E-07	0.35
3.25E-07	0.33
3.01E-07	0.30
2.77E-07	0.28
2.51E-08	0.03
2.60E-08	0.03
2.70E-08	0.03
2.80E-08	0.03
2.92E-08	0.03
3.04E-08	0.03
3.17E-08	0.03
3.34E-08	0.03
3.58E-08	0.04
3.84E-08	0.04
4.13E-08	0.04
4.59E-08	0.05
5.20E-08	0.05
6.02E-08	0.06
7.19E-08	0.07
8.95E-08	0.09
1.16E-07	0.12
1.54E-07	0.15
2.02E-07	0.20
2.59E-07	0.26

Diesel Particulate Matter concentration, C_{DPM} (ug/m^3)

			Unmitigated	
Lookup	X (UTM)	Y (UTM	2024	2025

Mitigated	
2024	2025

Unmitigated Cancer Risk, Risk Calculation Part 2

∑R1*C_{DPM}	
Age 16<70	Total

Mitigated Cancer Risk, Risk Calculation Part 2

∑R1*C_{DPM}	
Age 16<70	Total

Diesel Particulate Matter concentration, C_{DPM} (ug/m^3)

			Unmitigated	
Lookup	X (UTM)	Y (UTM	2024	2025

Mitigated	
2024	2025

Unmitigated Cancer Risk, Risk Calculation Part 2

∑R1*C_{DPM}	
Age 16<70	Total

Mitigated Cancer Risk, Risk Calculation Part 2

∑R1*C_{DPM}	
Age 16<70	Total

Diesel Particulate Matter concentration, C_{DPM} (ug/m^3)

			Unmitigated	
Lookup	X (UTM)	Y (UTM	2024	2025

Mitigated	
2024	2025

Unmitigated Cancer Risk, Risk Calculation Part 2

∑R1*C_{DPM}	
Age 16<70	Total

Mitigated Cancer Risk, Risk Calculation Part 2

∑R1*C_{DPM}	
Age 16<70	Total

Diesel Particulate Matter concentration, C_{DPM} (ug/m^3)

			Unmitigated	
Lookup	X (UTM)	Y (UTM	2024	2025

Mitigated	
2024	2025

Unmitigated Cancer Risk, Risk Calculation Part 2

$\sum$R1*C_{DPM}	
Age 16<70	Total

Mitigated Cancer Risk, Risk Calculation Part 2

$\sum$R1*C_{DPM}	
Age 16<70	Total

43990 Fremont
Worker Receptors - Construction Hazard Index Risk

Haul Truck Trip Lengths

	Haul	Vendor	
Trip Length	20	8.4	miles
	32187	13518	meters

Haul Truck Adjustment Factor to Model

Source	Haul	Vendor
Haul	0.02	0.05

Modeled Routes

	Haul	
Trip Length	618.3	meters

from AERMOD

			Days				Total Unmitigated DPM (tons)			Total Mitigated DPM (tons)		
Construction Year	Start Date	End Date	Age 16<70			Calendar Days	Onsite Offroad	Haul Truck	Vendor Trips	Onsite Offroad	Haul Truck	Vendor Trips
2024	11/1/2024	12/31/2024	250.00			365	3.49E-02	2.31E-04	0.00E+00	3.49E-02	2.31E-04	0.00E+00
2025	1/1/2025	11/1/2025	250.00			365	5.69E-02	1.47E-04	3.29E-04	5.64E-02	1.47E-04	3.29E-04

			Total Unmitigated DPM (g/s)		Total Mitigated DPM (g/s)	
Construction Year	Start Date	End Date	CSTN	HAUL	CSTN	HAUL
2024	11/1/2024	12/31/2024	1.01E-03	1.27E-07	1.01E-03	1.27E-07
2025	1/1/2025	11/1/2025	1.64E-03	5.14E-07	1.62E-03	5.14E-07

Risk Factors

	Abbreviation	UOM	
Chronic Inhalation	REL	ug/m^3	5

MAX	HI	UTM X	UTM Y
Unmitigated	0.00	593125.4	4151988
Mitigated	0.00	593125.4	4151988

Diesel Particulate Matter concentration, C_{DPM} (ug/m^3)

			Unmitigated		Mitigated	
Lookup	X (UTM)	Y (UTM	2024	2025	2024	2025
593105.4_41520	593105.4	4152028	4.92E-04	8.02E-04	4.92E-04	7.95E-04
593125.4_41520	593125.4	4152028	5.34E-04	8.69E-04	5.34E-04	8.62E-04
593085.4_41520	593085.4	4152048	5.83E-04	9.49E-04	5.83E-04	9.41E-04
593105.4_41520	593105.4	4152048	6.46E-04	1.05E-03	6.46E-04	1.04E-03
593125.4_41520	593125.4	4152048	7.23E-04	1.18E-03	7.23E-04	1.17E-03
593145.4_41520	593145.4	4152048	8.19E-04	1.33E-03	8.19E-04	1.32E-03
593165.4_41520	593165.4	4152048	9.35E-04	1.52E-03	9.35E-04	1.51E-03
593185.4_41520	593185.4	4152048	1.07E-03	1.74E-03	1.07E-03	1.73E-03
593205.4_41520	593205.4	4152048	1.23E-03	2.00E-03	1.23E-03	1.98E-03
593065.4_41520	593065.4	4152068	4.37E-04	7.12E-04	4.37E-04	7.06E-04
593085.4_41520	593085.4	4152068	4.67E-04	7.60E-04	4.67E-04	7.54E-04
593105.4_41520	593105.4	4152068	5.01E-04	8.16E-04	5.01E-04	8.09E-04
593125.4_41520	593125.4	4152068	5.43E-04	8.84E-04	5.43E-04	8.76E-04
593145.4_41520	593145.4	4152068	5.91E-04	9.62E-04	5.91E-04	9.54E-04
593165.4_41520	593165.4	4152068	6.49E-04	1.06E-03	6.49E-04	1.05E-03
593185.4_41520	593185.4	4152068	7.21E-04	1.17E-03	7.21E-04	1.16E-03
593205.4_41520	593205.4	4152068	8.10E-04	1.32E-03	8.10E-04	1.31E-03
593225.4_41520	593225.4	4152068	9.23E-04	1.50E-03	9.23E-04	1.49E-03
593065.4_41520	593065.4	4152088	1.06E-03	1.73E-03	1.06E-03	1.72E-03
593085.4_41520	593085.4	4152088	1.23E-03	2.00E-03	1.23E-03	1.98E-03
593105.4_41520	593105.4	4152088	1.42E-03	2.31E-03	1.42E-03	2.29E-03
593125.4_41520	593125.4	4152088	1.64E-03	2.67E-03	1.64E-03	2.64E-03
593145.4_41520	593145.4	4152088	1.88E-03	3.06E-03	1.88E-03	3.03E-03
593165.4_41520	593165.4	4152088	2.13E-03	3.46E-03	2.13E-03	3.43E-03
593185.4_41520	593185.4	4152088	4.28E-04	6.97E-04	4.28E-04	6.92E-04
593205.4_41520	593205.4	4152088	4.52E-04	7.36E-04	4.52E-04	7.29E-04
593225.4_41520	593225.4	4152088	4.80E-04	7.81E-04	4.80E-04	7.75E-04
593145.4_41521	593145.4	4152108	5.14E-04	8.37E-04	5.14E-04	8.30E-04
593165.4_41521	593165.4	4152108	5.53E-04	9.01E-04	5.53E-04	8.94E-04
593185.4_41521	593185.4	4152108	6.02E-04	9.80E-04	6.02E-04	9.72E-04
593205.4_41521	593205.4	4152108	6.59E-04	1.07E-03	6.59E-04	1.06E-03
593225.4_41521	593225.4	4152108	7.28E-04	1.18E-03	7.28E-04	1.17E-03
593225.4_41521	593225.4	4152128	8.12E-04	1.32E-03	8.12E-04	1.31E-03
593005.4_41520	593005.4	4152008	9.20E-04	1.50E-03	9.20E-04	1.49E-03
593025.4_41520	593025.4	4152008	1.06E-03	1.72E-03	1.06E-03	1.71E-03
593005.4_41520	593005.4	4152028	1.23E-03	2.00E-03	1.23E-03	1.98E-03
593025.4_41520	593025.4	4152028	1.43E-03	2.33E-03	1.43E-03	2.31E-03
592705.4_41520	592705.4	4152008	1.66E-03	2.70E-03	1.66E-03	2.68E-03
592725.4_41520	592725.4	4152008	1.92E-03	3.13E-03	1.92E-03	3.10E-03
592745.4_41520	592745.4	4152008	2.21E-03	3.59E-03	2.21E-03	3.56E-03
592705.4_41520	592705.4	4152028	2.49E-03	4.06E-03	2.49E-03	4.03E-03
592725.4_41520	592725.4	4152028	2.80E-03	4.55E-03	2.80E-03	4.51E-03
592685.4_41520	592685.4	4152048	3.12E-03	5.08E-03	3.12E-03	5.03E-03
592705.4_41520	592705.4	4152048	4.48E-04	7.30E-04	4.48E-04	7.24E-04
592725.4_41520	592725.4	4152048	4.72E-04	7.68E-04	4.72E-04	7.61E-04
592705.4_41520	592705.4	4152068	4.98E-04	8.11E-04	4.98E-04	8.04E-04
593065.4_41517	593065.4	4151728	5.31E-04	8.65E-04	5.31E-04	8.57E-04
593085.4_41517	593085.4	4151728	5.70E-04	9.28E-04	5.70E-04	9.20E-04
593105.4_41517	593105.4	4151728	6.16E-04	1.00E-03	6.16E-04	9.95E-04
593125.4_41517	593125.4	4151728	6.72E-04	1.09E-03	6.72E-04	1.08E-03
593045.4_41517	593045.4	4151748	7.39E-04	1.20E-03	7.39E-04	1.19E-03
593065.4_41517	593065.4	4151748	8.21E-04	1.34E-03	8.21E-04	1.33E-03
593085.4_41517	593085.4	4151748	9.24E-04	1.50E-03	9.24E-04	1.49E-03
593105.4_41517	593105.4	4151748	1.06E-03	1.72E-03	1.06E-03	1.71E-03
593125.4_41517	593125.4	4151748	1.23E-03	2.00E-03	1.23E-03	1.98E-03
593145.4_41517	593145.4	4151748	1.44E-03	2.34E-03	1.44E-03	2.32E-03
593165.4_41517	593165.4	4151748	1.68E-03	2.74E-03	1.68E-03	2.72E-03
593025.4_41517	593025.4	4151768	1.98E-03	3.22E-03	1.98E-03	3.19E-03
593045.4_41517	593045.4	4151768	2.30E-03	3.75E-03	2.30E-03	3.72E-03
593065.4_41517	593065.4	4151768	2.65E-03	4.31E-03	2.65E-03	4.27E-03
593085.4_41517	593085.4	4151768	3.00E-03	4.88E-03	3.00E-03	4.84E-03
593105.4_41517	593105.4	4151768	3.38E-03	5.50E-03	3.38E-03	5.45E-03
593125.4_41517	593125.4	4151768	3.77E-03	6.13E-03	3.77E-03	6.08E-03
593145.4_41517	593145.4	4151768	4.13E-03	6.73E-03	4.13E-03	6.67E-03
593165.4_41517	593165.4	4151768	4.43E-03	7.21E-03	4.43E-03	7.15E-03
593185.4_41517	593185.4	4151768	4.74E-04	7.72E-04	4.74E-04	7.66E-04
593005.4_41517	593005.4	4151788	4.98E-04	8.11E-04	4.98E-04	8.04E-04
593025.4_41517	593025.4	4151788	5.25E-04	8.55E-04	5.25E-04	8.48E-04
593045.4_41517	593045.4	4151788	5.53E-04	9.00E-04	5.53E-04	8.92E-04
593065.4_41517	593065.4	4151788	5.91E-04	9.62E-04	5.91E-04	9.54E-04
593085.4_41517	593085.4	4151788	6.36E-04	1.04E-03	6.36E-04	1.03E-03
593105.4_41517	593105.4	4151788	6.90E-04	1.12E-03	6.90E-04	1.11E-03
593125.4_41517	593125.4	4151788	7.56E-04	1.23E-03	7.56E-04	1.22E-03
593145.4_41517	593145.4	4151788	8.34E-04	1.36E-03	8.34E-04	1.35E-03
593165.4_41517	593165.4	4151788	9.32E-04	1.52E-03	9.32E-04	1.51E-03
593185.4_41517	593185.4	4151788	1.05E-03	1.72E-03	1.05E-03	1.70E-03
593205.4_41517	593205.4	4151788	1.22E-03	1.99E-03	1.22E-03	1.97E-03
592985.4_41518	592985.4	4151808	1.44E-03	2.34E-03	1.44E-03	2.32E-03
593005.4_41518	593005.4	4151808	1.70E-03	2.76E-03	1.70E-03	2.74E-03
593025.4_41518	593025.4	4151808	2.01E-03	3.27E-03	2.01E-03	3.25E-03
593045.4_41518	593045.4	4151808	2.38E-03	3.88E-03	2.38E-03	3.85E-03
593065.4_41518	593065.4	4151808	2.79E-03	4.54E-03	2.79E-03	4.50E-03
593085.4_41518	593085.4	4151808	3.22E-03	5.24E-03	3.22E-03	5.20E-03
593105.4_41518	593105.4	4151808	3.67E-03	5.98E-03	3.67E-03	5.93E-03
593125.4_41518	593125.4	4151808	4.13E-03	6.72E-03	4.13E-03	6.66E-03
593145.4_41518	593145.4	4151808	4.57E-03	7.43E-03	4.57E-03	7.37E-03
593165.4_41518	593165.4	4151808	4.97E-03	8.09E-03	4.97E-03	8.02E-03
593185.4_41518	593185.4	4151808	5.32E-03	8.66E-03	5.32E-03	8.59E-03
593205.4_41518	593205.4	4151808	5.62E-03	9.15E-03	5.62E-03	9.07E-03

Unmitigated HI Risk

	C_{DPM}/REL		
2024	2025	Max	
9.85E-05	1.60E-04	0.00	
1.07E-04	1.74E-04	0.00	
1.17E-04	1.90E-04	0.00	
1.29E-04	2.10E-04	0.00	
1.45E-04	2.35E-04	0.00	
1.64E-04	2.67E-04	0.00	
1.87E-04	3.04E-04	0.00	
2.14E-04	3.49E-04	0.00	
2.45E-04	3.99E-04	0.00	
8.74E-05	1.42E-04	0.00	
9.33E-05	1.52E-04	0.00	
1.00E-04	1.63E-04	0.00	
1.09E-04	1.77E-04	0.00	
1.18E-04	1.92E-04	0.00	
1.30E-04	2.11E-04	0.00	
1.44E-04	2.35E-04	0.00	
1.62E-04	2.64E-04	0.00	
1.85E-04	3.01E-04	0.00	
2.13E-04	3.46E-04	0.00	
2.46E-04	4.00E-04	0.00	
2.83E-04	4.62E-04	0.00	
3.27E-04	5.33E-04	0.00	
3.76E-04	6.12E-04	0.00	
4.25E-04	6.92E-04	0.00	
8.57E-05	1.39E-04	0.00	
9.03E-05	1.47E-04	0.00	
9.60E-05	1.56E-04	0.00	
1.03E-04	1.67E-04	0.00	
1.11E-04	1.80E-04	0.00	
1.20E-04	1.96E-04	0.00	
1.32E-04	2.15E-04	0.00	
1.46E-04	2.37E-04	0.00	
1.62E-04	2.65E-04	0.00	
1.84E-04	3.00E-04	0.00	
2.12E-04	3.44E-04	0.00	
2.46E-04	4.00E-04	0.00	
2.86E-04	4.65E-04	0.00	
3.32E-04	5.40E-04	0.00	
3.84E-04	6.25E-04	0.00	
4.42E-04	7.19E-04	0.00	
4.99E-04	8.12E-04	0.00	
5.59E-04	9.10E-04	0.00	
6.24E-04	1.02E-03	0.00	
8.96E-05	1.46E-04	0.00	
9.43E-05	1.54E-04	0.00	
9.96E-05	1.62E-04	0.00	
1.06E-04	1.73E-04	0.00	
1.14E-04	1.86E-04	0.00	
1.23E-04	2.01E-04	0.00	
1.34E-04	2.19E-04	0.00	
1.48E-04	2.41E-04	0.00	
1.64E-04	2.67E-04	0.00	
1.85E-04	3.01E-04	0.00	
2.11E-04	3.44E-04	0.00	
2.45E-04	3.99E-04	0.00	
2.88E-04	4.68E-04	0.00	
3.37E-04	5.49E-04	0.00	
3.95E-04	6.43E-04	0.00	
4.61E-04	7.50E-04	0.00	
5.29E-04	8.62E-04	0.00	
6.00E-04	9.77E-04	0.00	
6.75E-04	1.10E-03	0.00	
7.53E-04	1.23E-03	0.00	
8.26E-04	1.35E-03	0.00	
8.86E-04	1.44E-03	0.00	
9.49E-05	1.54E-04	0.00	
9.96E-05	1.62E-04	0.00	
1.05E-04	1.71E-04	0.00	
1.11E-04	1.80E-04	0.00	
1.18E-04	1.92E-04	0.00	
1.27E-04	2.07E-04	0.00	
1.38E-04	2.25E-04	0.00	
1.51E-04	2.46E-04	0.00	
1.67E-04	2.72E-04	0.00	
1.86E-04	3.04E-04	0.00	
2.11E-04	3.43E-04	0.00	
2.45E-04	3.98E-04	0.00	
2.87E-04	4.68E-04	0.00	
3.39E-04	5.52E-04	0.00	
4.02E-04	6.55E-04	0.00	
4.77E-04	7.77E-04	0.00	
5.58E-04	9.08E-04	0.00	
6.44E-04	1.05E-03	0.00	
7.35E-04	1.20E-03	0.00	
8.25E-04	1.34E-03	0.00	
9.13E-04	1.49E-03	0.00	
9.94E-04	1.62E-03	0.00	
1.06E-03	1.73E-03	0.00	
1.12E-03	1.83E-03	0.00	

Mitigated HI Risk

	C_{DPM}/REL	
2024	2025	Max
9.85E-05	1.59E-04	0.00
1.07E-04	1.72E-04	0.00
1.17E-04	1.88E-04	0.00
1.29E-04	2.09E-04	0.00
1.45E-04	2.33E-04	0.00
1.64E-04	2.65E-04	0.00
1.87E-04	3.02E-04	0.00
2.14E-04	3.46E-04	0.00
2.45E-04	3.96E-04	0.00
8.74E-05	1.41E-04	0.00
9.33E-05	1.51E-04	0.00
1.00E-04	1.62E-04	0.00
1.09E-04	1.75E-04	0.00
1.18E-04	1.91E-04	0.00
1.30E-04	2.10E-04	0.00
1.44E-04	2.33E-04	0.00
1.62E-04	2.62E-04	0.00
1.85E-04	2.98E-04	0.00
2.13E-04	3.43E-04	0.00
2.46E-04	3.97E-04	0.00
2.83E-04	4.58E-04	0.00
3.27E-04	5.29E-04	0.00
3.76E-04	6.06E-04	0.00
4.25E-04	6.87E-04	0.00
8.57E-05	1.38E-04	0.00
9.03E-05	1.46E-04	0.00
9.60E-05	1.55E-04	0.00
1.03E-04	1.66E-04	0.00
1.11E-04	1.79E-04	0.00
1.20E-04	1.94E-04	0.00
1.32E-04	2.13E-04	0.00
1.46E-04	2.35E-04	0.00
1.62E-04	2.62E-04	0.00
1.84E-04	2.97E-04	0.00
2.12E-04	3.42E-04	0.00
2.46E-04	3.97E-04	0.00
2.86E-04	4.61E-04	0.00
3.32E-04	5.36E-04	0.00
3.84E-04	6.20E-04	0.00
4.42E-04	7.13E-04	0.00
4.99E-04	8.05E-04	0.00
5.59E-04	9.03E-04	0.00
6.24E-04	1.01E-03	0.00
8.96E-05	1.45E-04	0.00
9.43E-05	1.52E-04	0.00
9.96E-05	1.61E-04	0.00
1.06E-04	1.71E-04	0.00
1.14E-04	1.84E-04	0.00
1.23E-04	1.99E-04	0.00
1.34E-04	2.17E-04	0.00
1.48E-04	2.39E-04	0.00
1.64E-04	2.65E-04	0.00
1.85E-04	2.98E-04	0.00
2.11E-04	3.41E-04	0.00
2.45E-04	3.96E-04	0.00
2.88E-04	4.65E-04	0.00
3.37E-04	5.44E-04	0.00
3.95E-04	6.38E-04	0.00
4.61E-04	7.44E-04	0.00
5.29E-04	8.54E-04	0.00
6.00E-04	9.69E-04	0.00
6.75E-04	1.09E-03	0.00
7.53E-04	1.22E-03	0.00
8.26E-04	1.33E-03	0.00
8.86E-04	1.43E-03	0.00
9.49E-05	1.53E-04	0.00
9.96E-05	1.61E-04	0.00
1.05E-04	1.70E-04	0.00
1.11E-04	1.78E-04	0.00
1.18E-04	1.91E-04	0.00
1.27E-04	2.06E-04	0.00
1.38E-04	2.23E-04	0.00
1.51E-04	2.44E-04	0.00
1.67E-04	2.69E-04	0.00
1.86E-04	3.01E-04	0.00
2.11E-04	3.40E-04	0.00
2.45E-04	3.95E-04	0.00
2.87E-04	4.64E-04	0.00
3.39E-04	5.48E-04	0.00
4.02E-04	6.49E-04	0.00
4.77E-04	7.70E-04	0.00
5.58E-04	9.01E-04	0.00
6.44E-04	1.04E-03	0.00
7.35E-04	1.19E-03	0.00
8.25E-04	1.33E-03	0.00
9.13E-04	1.47E-03	0.00
9.94E-04	1.60E-03	0.00
1.06E-03	1.72E-03	0.00
1.12E-03	1.81E-03	0.00

Diesel Particulate Matter concentration, C_{DPM} (ug/m^3)

			Unmitigated		Mitigated	
Lookup	X (UTM)	Y (UTM	2024	2025	2024	2025
592965.4_41518	592965.4	4151828	4.91E-04	8.00E-04	4.91E-04	7.93E-04
592985.4_41518	592985.4	4151828	5.09E-04	8.28E-04	5.09E-04	8.21E-04
593005.4_41518	593005.4	4151828	5.28E-04	8.60E-04	5.28E-04	8.53E-04
593025.4_41518	593025.4	4151828	5.54E-04	9.02E-04	5.54E-04	8.94E-04
593045.4_41518	593045.4	4151828	5.87E-04	9.56E-04	5.87E-04	9.48E-04
593065.4_41518	593065.4	4151828	6.18E-04	1.01E-03	6.18E-04	9.98E-04
593085.4_41518	593085.4	4151828	6.61E-04	1.08E-03	6.61E-04	1.07E-03
593105.4_41518	593105.4	4151828	7.13E-04	1.16E-03	7.13E-04	1.15E-03
593125.4_41518	593125.4	4151828	7.75E-04	1.26E-03	7.75E-04	1.25E-03
593145.4_41518	593145.4	4151828	8.55E-04	1.39E-03	8.55E-04	1.38E-03
593165.4_41518	593165.4	4151828	9.50E-04	1.55E-03	9.50E-04	1.53E-03
593185.4_41518	593185.4	4151828	1.07E-03	1.75E-03	1.07E-03	1.73E-03
593205.4_41518	593205.4	4151828	1.23E-03	1.99E-03	1.23E-03	1.98E-03
593225.4_41518	593225.4	4151828	1.43E-03	2.33E-03	1.43E-03	2.31E-03
592945.4_41518	592945.4	4151848	1.71E-03	2.79E-03	1.71E-03	2.76E-03
592965.4_41518	592965.4	4151848	2.04E-03	3.32E-03	2.04E-03	3.29E-03
592985.4_41518	592985.4	4151848	2.45E-03	3.98E-03	2.45E-03	3.95E-03
593005.4_41518	593005.4	4151848	2.92E-03	4.75E-03	2.92E-03	4.71E-03
593025.4_41518	593025.4	4151848	3.44E-03	5.60E-03	3.44E-03	5.55E-03
593045.4_41518	593045.4	4151848	3.99E-03	6.50E-03	3.99E-03	6.45E-03
593065.4_41518	593065.4	4151848	4.56E-03	7.42E-03	4.56E-03	7.36E-03
593085.4_41518	593085.4	4151848	5.10E-03	8.31E-03	5.10E-03	8.24E-03
593105.4_41518	593105.4	4151848	5.62E-03	9.15E-03	5.62E-03	9.07E-03
593125.4_41518	593125.4	4151848	6.07E-03	9.89E-03	6.07E-03	9.80E-03
593145.4_41518	593145.4	4151848	6.44E-03	1.05E-02	6.44E-03	1.04E-02
593165.4_41518	593165.4	4151848	6.71E-03	1.09E-02	6.71E-03	1.08E-02
593185.4_41518	593185.4	4151848	6.89E-03	1.12E-02	6.89E-03	1.11E-02
593205.4_41518	593205.4	4151848	5.41E-04	8.81E-04	5.41E-04	8.74E-04
593225.4_41518	593225.4	4151848	5.55E-04	9.04E-04	5.55E-04	8.97E-04
593245.4_41518	593245.4	4151848	5.74E-04	9.34E-04	5.74E-04	9.26E-04
592925.4_41518	592925.4	4151868	5.96E-04	9.71E-04	5.96E-04	9.63E-04
592945.4_41518	592945.4	4151868	6.25E-04	1.02E-03	6.25E-04	1.01E-03
592965.4_41518	592965.4	4151868	6.63E-04	1.08E-03	6.63E-04	1.07E-03
592985.4_41518	592985.4	4151868	7.01E-04	1.14E-03	7.01E-04	1.13E-03
593005.4_41518	593005.4	4151868	7.50E-04	1.22E-03	7.50E-04	1.21E-03
593025.4_41518	593025.4	4151868	8.11E-04	1.32E-03	8.11E-04	1.31E-03
593045.4_41518	593045.4	4151868	8.85E-04	1.44E-03	8.85E-04	1.43E-03
593065.4_41518	593065.4	4151868	9.78E-04	1.59E-03	9.78E-04	1.58E-03
593085.4_41518	593085.4	4151868	1.09E-03	1.78E-03	1.09E-03	1.77E-03
593105.4_41518	593105.4	4151868	1.24E-03	2.03E-03	1.24E-03	2.01E-03
593125.4_41518	593125.4	4151868	1.44E-03	2.35E-03	1.44E-03	2.33E-03
593145.4_41518	593145.4	4151868	1.71E-03	2.78E-03	1.71E-03	2.76E-03
593165.4_41518	593165.4	4151868	2.07E-03	3.36E-03	2.07E-03	3.34E-03
593185.4_41518	593185.4	4151868	2.50E-03	4.08E-03	2.50E-03	4.04E-03
593205.4_41518	593205.4	4151868	3.04E-03	4.95E-03	3.04E-03	4.91E-03
593225.4_41518	593225.4	4151868	3.65E-03	5.95E-03	3.65E-03	5.90E-03
593245.4_41518	593245.4	4151868	4.34E-03	7.06E-03	4.34E-03	7.00E-03
592905.4_41518	592905.4	4151888	5.05E-03	8.22E-03	5.05E-03	8.15E-03
592925.4_41518	592925.4	4151888	5.74E-03	9.35E-03	5.74E-03	9.27E-03
592945.4_41518	592945.4	4151888	6.41E-03	1.04E-02	6.41E-03	1.03E-02
592965.4_41518	592965.4	4151888	7.00E-03	1.14E-02	7.00E-03	1.13E-02
592985.4_41518	592985.4	4151888	7.47E-03	1.22E-02	7.47E-03	1.21E-02
593005.4_41518	593005.4	4151888	7.83E-03	1.27E-02	7.83E-03	1.26E-02
593025.4_41518	593025.4	4151888	8.04E-03	1.31E-02	8.04E-03	1.30E-02
593045.4_41518	593045.4	4151888	8.12E-03	1.32E-02	8.12E-03	1.31E-02
593065.4_41518	593065.4	4151888	8.09E-03	1.32E-02	8.09E-03	1.31E-02
593085.4_41518	593085.4	4151888	6.21E-04	1.01E-03	6.21E-04	1.00E-03
593105.4_41518	593105.4	4151888	6.37E-04	1.04E-03	6.37E-04	1.03E-03
593125.4_41518	593125.4	4151888	6.57E-04	1.07E-03	6.57E-04	1.06E-03
593145.4_41518	593145.4	4151888	6.82E-04	1.11E-03	6.82E-04	1.10E-03
593165.4_41518	593165.4	4151888	7.13E-04	1.16E-03	7.13E-04	1.15E-03
593185.4_41518	593185.4	4151888	7.58E-04	1.23E-03	7.58E-04	1.22E-03
593205.4_41518	593205.4	4151888	8.04E-04	1.31E-03	8.04E-04	1.30E-03
593225.4_41518	593225.4	4151888	8.57E-04	1.40E-03	8.57E-04	1.38E-03
593245.4_41518	593245.4	4151888	9.29E-04	1.51E-03	9.29E-04	1.50E-03
593265.4_41518	593265.4	4151888	1.02E-03	1.66E-03	1.02E-03	1.65E-03
592885.4_41519	592885.4	4151908	1.13E-03	1.85E-03	1.13E-03	1.83E-03
592905.4_41519	592905.4	4151908	1.27E-03	2.07E-03	1.27E-03	2.06E-03
592925.4_41519	592925.4	4151908	1.46E-03	2.38E-03	1.46E-03	2.36E-03
592945.4_41519	592945.4	4151908	1.71E-03	2.79E-03	1.71E-03	2.77E-03
592965.4_41519	592965.4	4151908	2.06E-03	3.35E-03	2.06E-03	3.33E-03
592985.4_41519	592985.4	4151908	2.53E-03	4.12E-03	2.53E-03	4.09E-03
593005.4_41519	593005.4	4151908	3.13E-03	5.10E-03	3.13E-03	5.06E-03
593025.4_41519	593025.4	4151908	3.85E-03	6.27E-03	3.85E-03	6.21E-03
593045.4_41519	593045.4	4151908	4.68E-03	7.62E-03	4.68E-03	7.56E-03
593065.4_41519	593065.4	4151908	5.59E-03	9.10E-03	5.59E-03	9.03E-03
593085.4_41519	593085.4	4151908	6.49E-03	1.06E-02	6.49E-03	1.05E-02
593105.4_41519	593105.4	4151908	7.38E-03	1.20E-02	7.38E-03	1.19E-02
593125.4_41519	593125.4	4151908	8.16E-03	1.33E-02	8.16E-03	1.32E-02
593145.4_41519	593145.4	4151908	8.78E-03	1.43E-02	8.78E-03	1.42E-02
593165.4_41519	593165.4	4151908	9.24E-03	1.50E-02	9.24E-03	1.49E-02
593185.4_41519	593185.4	4151908	9.53E-03	1.55E-02	9.53E-03	1.54E-02
593205.4_41519	593205.4	4151908	9.61E-03	1.56E-02	9.61E-03	1.55E-02
593225.4_41519	593225.4	4151908	9.53E-03	1.55E-02	9.53E-03	1.54E-02
593245.4_41519	593245.4	4151908	9.33E-03	1.52E-02	9.33E-03	1.51E-02
593265.4_41519	593265.4	4151908	9.02E-03	1.47E-02	9.02E-03	1.46E-02
592885.4_41519	592885.4	4151928	6.98E-04	1.14E-03	6.98E-04	1.13E-03
592905.4_41519	592905.4	4151928	7.17E-04	1.17E-03	7.17E-04	1.16E-03
592925.4_41519	592925.4	4151928	7.41E-04	1.21E-03	7.41E-04	1.20E-03
592945.4_41519	592945.4	4151928	7.63E-04	1.24E-03	7.63E-04	1.23E-03
592965.4_41519	592965.4	4151928	7.94E-04	1.29E-03	7.94E-04	1.28E-03
592985.4_41519	592985.4	4151928	8.30E-04	1.35E-03	8.30E-04	1.34E-03
593005.4_41519	593005.4	4151928	8.73E-04	1.42E-03	8.73E-04	1.41E-03
593025.4_41519	593025.4	4151928	9.33E-04	1.52E-03	9.33E-04	1.51E-03
593045.4_41519	593045.4	4151928	9.93E-04	1.62E-03	9.93E-04	1.60E-03
593065.4_41519	593065.4	4151928	1.08E-03	1.75E-03	1.08E-03	1.74E-03
593085.4_41519	593085.4	4151928	1.18E-03	1.93E-03	1.18E-03	1.91E-03
593105.4_41519	593105.4	4151928	1.33E-03	2.16E-03	1.33E-03	2.14E-03
593125.4_41519	593125.4	4151928	1.50E-03	2.45E-03	1.50E-03	2.43E-03
593145.4_41519	593145.4	4151928	1.75E-03	2.85E-03	1.75E-03	2.82E-03
593165.4_41519	593165.4	4151928	2.08E-03	3.38E-03	2.08E-03	3.35E-03
593185.4_41519	593185.4	4151928	2.55E-03	4.15E-03	2.55E-03	4.12E-03
593205.4_41519	593205.4	4151928	3.20E-03	5.20E-03	3.20E-03	5.16E-03
593225.4_41519	593225.4	4151928	4.02E-03	6.54E-03	4.02E-03	6.49E-03
593245.4_41519	593245.4	4151928	5.03E-03	8.18E-03	5.03E-03	8.12E-03
593265.4_41519	593265.4	4151928	6.18E-03	1.01E-02	6.18E-03	9.97E-03
592945.4_41519	592945.4	4151948	7.36E-03	1.20E-02	7.36E-03	1.19E-02
592965.4_41519	592965.4	4151948	8.54E-03	1.39E-02	8.54E-03	1.38E-02
592985.4_41519	592985.4	4151948	9.61E-03	1.56E-02	9.61E-03	1.55E-02
593005.4_41519	593005.4	4151948	1.05E-02	1.71E-02	1.05E-02	1.69E-02
593025.4_41519	593025.4	4151948	1.11E-02	1.81E-02	1.11E-02	1.79E-02
593045.4_41519	593045.4	4151948	1.15E-02	1.86E-02	1.15E-02	1.85E-02
593065.4_41519	593065.4	4151948	1.16E-02	1.88E-02	1.16E-02	1.87E-02
593085.4_41519	593085.4	4151948	1.15E-02	1.86E-02	1.15E-02	1.85E-02
593105.4_41519	593105.4	4151948	1.11E-02	1.81E-02	1.11E-02	1.79E-02
593125.4_41519	593125.4	4151948	1.07E-02	1.73E-02	1.07E-02	1.72E-02
593145.4_41519	593145.4	4151948	1.01E-02	1.64E-02	1.01E-02	1.63E-02
593165.4_41519	593165.4	4151948	9.46E-03	1.54E-02	9.46E-03	1.53E-02

Unmitigated HI Risk

	C_{DPM}/REL		
2024	2025	Max
9.83E-05	1.60E-04	0.00
1.02E-04	1.66E-04	0.00
1.06E-04	1.72E-04	0.00
1.11E-04	1.80E-04	0.00
1.17E-04	1.91E-04	0.00
1.24E-04	2.01E-04	0.00
1.32E-04	2.15E-04	0.00
1.43E-04	2.32E-04	0.00
1.55E-04	2.52E-04	0.00
1.71E-04	2.78E-04	0.00
1.90E-04	3.09E-04	0.00
2.15E-04	3.49E-04	0.00
2.45E-04	3.99E-04	0.00
2.87E-04	4.67E-04	0.00
3.42E-04	5.57E-04	0.00
4.08E-04	6.64E-04	0.00
4.89E-04	7.97E-04	0.00
5.83E-04	9.50E-04	0.00
6.87E-04	1.12E-03	0.00
7.99E-04	1.30E-03	0.00
9.12E-04	1.48E-03	0.00
1.02E-03	1.66E-03	0.00
1.12E-03	1.83E-03	0.00
1.21E-03	1.98E-03	0.00
1.29E-03	2.10E-03	0.00
1.34E-03	2.18E-03	0.00
1.38E-03	2.24E-03	0.00
1.08E-04	1.76E-04	0.00
1.11E-04	1.81E-04	0.00
1.15E-04	1.87E-04	0.00
1.19E-04	1.94E-04	0.00
1.25E-04	2.03E-04	0.00
1.33E-04	2.16E-04	0.00
1.40E-04	2.28E-04	0.00
1.50E-04	2.44E-04	0.00
1.62E-04	2.64E-04	0.00
1.77E-04	2.88E-04	0.00
1.96E-04	3.19E-04	0.00
2.19E-04	3.56E-04	0.00
2.49E-04	4.05E-04	0.00
2.89E-04	4.70E-04	0.00
3.42E-04	5.57E-04	0.00
4.13E-04	6.73E-04	0.00
5.01E-04	8.16E-04	0.00
6.08E-04	9.91E-04	0.00
7.30E-04	1.19E-03	0.00
8.67E-04	1.41E-03	0.00
1.01E-03	1.64E-03	0.00
1.15E-03	1.87E-03	0.00
1.28E-03	2.09E-03	0.00
1.40E-03	2.28E-03	0.00
1.49E-03	2.43E-03	0.00
1.57E-03	2.55E-03	0.00
1.61E-03	2.62E-03	0.00
1.62E-03	2.64E-03	0.00
1.62E-03	2.64E-03	0.00
1.24E-04	2.02E-04	0.00
1.27E-04	2.07E-04	0.00
1.31E-04	2.14E-04	0.00
1.36E-04	2.22E-04	0.00
1.43E-04	2.32E-04	0.00
1.52E-04	2.47E-04	0.00
1.61E-04	2.62E-04	0.00
1.71E-04	2.79E-04	0.00
1.86E-04	3.03E-04	0.00
2.04E-04	3.32E-04	0.00
2.27E-04	3.70E-04	0.00
2.55E-04	4.15E-04	0.00
2.93E-04	4.77E-04	0.00
3.43E-04	5.58E-04	0.00
4.12E-04	6.71E-04	0.00
5.06E-04	8.24E-04	0.00
6.26E-04	1.02E-03	0.00
7.70E-04	1.25E-03	0.00
9.36E-04	1.52E-03	0.00
1.12E-03	1.82E-03	0.00
1.30E-03	2.11E-03	0.00
1.48E-03	2.40E-03	0.00
1.63E-03	2.66E-03	0.00
1.76E-03	2.86E-03	0.00
1.85E-03	3.01E-03	0.00
1.91E-03	3.10E-03	0.00
1.92E-03	3.13E-03	0.00
1.91E-03	3.10E-03	0.00
1.87E-03	3.04E-03	0.00
1.80E-03	2.94E-03	0.00
1.40E-04	2.27E-04	0.00
1.43E-04	2.33E-04	0.00
1.48E-04	2.41E-04	0.00
1.53E-04	2.49E-04	0.00
1.59E-04	2.59E-04	0.00
1.66E-04	2.70E-04	0.00
1.75E-04	2.84E-04	0.00
1.87E-04	3.04E-04	0.00
1.99E-04	3.23E-04	0.00
2.15E-04	3.50E-04	0.00
2.37E-04	3.86E-04	0.00
2.65E-04	4.32E-04	0.00
3.01E-04	4.90E-04	0.00
3.50E-04	5.70E-04	0.00
4.16E-04	6.77E-04	0.00
5.10E-04	8.30E-04	0.00
6.39E-04	1.04E-03	0.00
8.04E-04	1.31E-03	0.00
1.01E-03	1.64E-03	0.00
1.24E-03	2.01E-03	0.00
1.47E-03	2.40E-03	0.00
1.71E-03	2.78E-03	0.00
1.92E-03	3.13E-03	0.00
2.10E-03	3.42E-03	0.00
2.22E-03	3.62E-03	0.00
2.29E-03	3.73E-03	0.00
2.31E-03	3.77E-03	0.00
2.29E-03	3.73E-03	0.00
2.22E-03	3.62E-03	0.00
2.13E-03	3.47E-03	0.00
2.02E-03	3.28E-03	0.00
1.89E-03	3.08E-03	0.00

Mitigated HI Risk

	C_{DPM}/REL	
2024	2025	Max
9.83E-05	1.59E-04	0.00
1.02E-04	1.64E-04	0.00
1.06E-04	1.71E-04	0.00
1.11E-04	1.79E-04	0.00
1.17E-04	1.90E-04	0.00
1.24E-04	2.00E-04	0.00
1.32E-04	2.13E-04	0.00
1.43E-04	2.30E-04	0.00
1.55E-04	2.50E-04	0.00
1.71E-04	2.76E-04	0.00
1.90E-04	3.07E-04	0.00
2.15E-04	3.46E-04	0.00
2.45E-04	3.96E-04	0.00
2.87E-04	4.63E-04	0.00
3.42E-04	5.53E-04	0.00
4.08E-04	6.58E-04	0.00
4.89E-04	7.90E-04	0.00
5.83E-04	9.42E-04	0.00
6.87E-04	1.11E-03	0.00
7.99E-04	1.29E-03	0.00
9.12E-04	1.47E-03	0.00
1.02E-03	1.65E-03	0.00
1.12E-03	1.81E-03	0.00
1.21E-03	1.96E-03	0.00
1.29E-03	2.08E-03	0.00
1.34E-03	2.17E-03	0.00
1.38E-03	2.22E-03	0.00
1.08E-04	1.75E-04	0.00
1.11E-04	1.79E-04	0.00
1.15E-04	1.85E-04	0.00
1.19E-04	1.93E-04	0.00
1.25E-04	2.02E-04	0.00
1.33E-04	2.14E-04	0.00
1.40E-04	2.26E-04	0.00
1.50E-04	2.42E-04	0.00
1.62E-04	2.62E-04	0.00
1.77E-04	2.86E-04	0.00
1.96E-04	3.16E-04	0.00
2.19E-04	3.53E-04	0.00
2.49E-04	4.02E-04	0.00
2.89E-04	4.66E-04	0.00
3.42E-04	5.52E-04	0.00
4.13E-04	6.67E-04	0.00
5.01E-04	8.09E-04	0.00
6.08E-04	9.82E-04	0.00
7.30E-04	1.18E-03	0.00
8.67E-04	1.40E-03	0.00
1.01E-03	1.63E-03	0.00
1.15E-03	1.85E-03	0.00
1.28E-03	2.07E-03	0.00
1.40E-03	2.26E-03	0.00
1.49E-03	2.41E-03	0.00
1.57E-03	2.53E-03	0.00
1.61E-03	2.60E-03	0.00
1.62E-03	2.62E-03	0.00
1.62E-03	2.61E-03	0.00
1.24E-04	2.00E-04	0.00
1.27E-04	2.06E-04	0.00
1.31E-04	2.12E-04	0.00
1.36E-04	2.20E-04	0.00
1.43E-04	2.30E-04	0.00
1.52E-04	2.45E-04	0.00
1.61E-04	2.60E-04	0.00
1.71E-04	2.77E-04	0.00
1.86E-04	3.00E-04	0.00
2.04E-04	3.29E-04	0.00
2.27E-04	3.66E-04	0.00
2.55E-04	4.11E-04	0.00
2.93E-04	4.73E-04	0.00
3.43E-04	5.53E-04	0.00
4.12E-04	6.65E-04	0.00
5.06E-04	8.17E-04	0.00
6.26E-04	1.01E-03	0.00
7.70E-04	1.24E-03	0.00
9.36E-04	1.51E-03	0.00
1.12E-03	1.81E-03	0.00
1.30E-03	2.10E-03	0.00
1.48E-03	2.38E-03	0.00
1.63E-03	2.63E-03	0.00
1.76E-03	2.84E-03	0.00
1.85E-03	2.98E-03	0.00
1.91E-03	3.08E-03	0.00
1.92E-03	3.10E-03	0.00
1.91E-03	3.08E-03	0.00
1.87E-03	3.01E-03	0.00
1.80E-03	2.91E-03	0.00
1.40E-04	2.25E-04	0.00
1.43E-04	2.31E-04	0.00
1.48E-04	2.39E-04	0.00
1.53E-04	2.46E-04	0.00
1.59E-04	2.56E-04	0.00
1.66E-04	2.68E-04	0.00
1.75E-04	2.82E-04	0.00
1.87E-04	3.01E-04	0.00
1.99E-04	3.21E-04	0.00
2.15E-04	3.47E-04	0.00
2.37E-04	3.83E-04	0.00
2.65E-04	4.28E-04	0.00
3.01E-04	4.86E-04	0.00
3.50E-04	5.65E-04	0.00
4.16E-04	6.71E-04	0.00
5.10E-04	8.23E-04	0.00
6.39E-04	1.03E-03	0.00
8.04E-04	1.30E-03	0.00
1.01E-03	1.62E-03	0.00
1.24E-03	1.99E-03	0.00
1.47E-03	2.38E-03	0.00
1.71E-03	2.76E-03	0.00
1.92E-03	3.10E-03	0.00
2.10E-03	3.39E-03	0.00
2.22E-03	3.59E-03	0.00
2.29E-03	3.70E-03	0.00
2.31E-03	3.74E-03	0.00
2.29E-03	3.70E-03	0.00
2.22E-03	3.59E-03	0.00
2.13E-03	3.44E-03	0.00
2.02E-03	3.26E-03	0.00
1.89E-03	3.05E-03	0.00

Diesel Particulate Matter concentration, C_{DPM} (ug/m^3)

			Unmitigated		Mitigated	
Lookup	X (UTM)	Y (UTM	2024	2025	2024	2025
593185.4_41519	593185.4	4151948	7.90E-04	1.29E-03	7.90E-04	1.27E-03
593205.4_41519	593205.4	4151948	8.17E-04	1.33E-03	8.17E-04	1.32E-03
593225.4_41519	593225.4	4151948	8.39E-04	1.37E-03	8.39E-04	1.36E-03
593245.4_41519	593245.4	4151948	8.69E-04	1.41E-03	8.69E-04	1.40E-03
593265.4_41519	593265.4	4151948	9.01E-04	1.47E-03	9.01E-04	1.46E-03
593285.4_41519	593285.4	4151948	9.36E-04	1.52E-03	9.36E-04	1.51E-03
592985.4_41519	592985.4	4151968	9.79E-04	1.59E-03	9.79E-04	1.58E-03
593005.4_41519	593005.4	4151968	1.03E-03	1.67E-03	1.03E-03	1.66E-03
593025.4_41519	593025.4	4151968	1.10E-03	1.78E-03	1.10E-03	1.77E-03
593045.4_41519	593045.4	4151968	1.17E-03	1.90E-03	1.17E-03	1.88E-03
593065.4_41519	593065.4	4151968	1.27E-03	2.06E-03	1.27E-03	2.04E-03
593085.4_41519	593085.4	4151968	1.40E-03	2.28E-03	1.40E-03	2.26E-03
593105.4_41519	593105.4	4151968	1.58E-03	2.57E-03	1.58E-03	2.54E-03
593125.4_41519	593125.4	4151968	1.81E-03	2.94E-03	1.81E-03	2.92E-03
593145.4_41519	593145.4	4151968	2.13E-03	3.46E-03	2.13E-03	3.43E-03
593165.4_41519	593165.4	4151968	2.58E-03	4.20E-03	2.58E-03	4.16E-03
593185.4_41519	593185.4	4151968	3.24E-03	5.28E-03	3.24E-03	5.24E-03
593205.4_41519	593205.4	4151968	4.16E-03	6.78E-03	4.16E-03	6.72E-03
593225.4_41519	593225.4	4151968	5.35E-03	8.71E-03	5.35E-03	8.64E-03
593245.4_41519	593245.4	4151968	6.81E-03	1.11E-02	6.81E-03	1.10E-02
593265.4_41519	593265.4	4151968	8.36E-03	1.36E-02	8.36E-03	1.35E-02
593285.4_41519	593285.4	4151968	9.97E-03	1.62E-02	9.97E-03	1.61E-02
593045.4_41519	593045.4	4151988	1.15E-02	1.87E-02	1.15E-02	1.85E-02
593065.4_41519	593065.4	4151988	1.27E-02	2.06E-02	1.27E-02	2.05E-02
593085.4_41519	593085.4	4151988	1.35E-02	2.21E-02	1.35E-02	2.19E-02
593105.4_41519	593105.4	4151988	1.41E-02	2.29E-02	1.41E-02	2.27E-02
593125.4_41519	593125.4	4151988	1.42E-02	2.30E-02	1.42E-02	2.28E-02
593145.4_41519	593145.4	4151988	1.39E-02	2.27E-02	1.39E-02	2.25E-02
593165.4_41519	593165.4	4151988	1.35E-02	2.19E-02	1.35E-02	2.17E-02
593185.4_41519	593185.4	4151988	1.28E-02	2.08E-02	1.28E-02	2.06E-02
593205.4_41519	593205.4	4151988	1.20E-02	1.95E-02	1.20E-02	1.93E-02
593225.4_41519	593225.4	4151988	1.11E-02	1.80E-02	1.11E-02	1.79E-02
593245.4_41519	593245.4	4151988	1.02E-02	1.66E-02	1.02E-02	1.64E-02
593265.4_41519	593265.4	4151988	9.22E-04	1.50E-03	9.22E-04	1.49E-03
593285.4_41519	593285.4	4151988	9.57E-04	1.56E-03	9.57E-04	1.54E-03
593125.4_41520	593125.4	4152008	9.93E-04	1.62E-03	9.93E-04	1.60E-03
593145.4_41520	593145.4	4152008	1.03E-03	1.68E-03	1.03E-03	1.67E-03
593165.4_41520	593165.4	4152008	1.08E-03	1.75E-03	1.08E-03	1.74E-03
593185.4_41520	593185.4	4152008	1.12E-03	1.82E-03	1.12E-03	1.81E-03
593205.4_41520	593205.4	4152008	1.17E-03	1.90E-03	1.17E-03	1.88E-03
593225.4_41520	593225.4	4152008	1.23E-03	2.00E-03	1.23E-03	1.98E-03
593245.4_41520	593245.4	4152008	1.32E-03	2.15E-03	1.32E-03	2.13E-03
593265.4_41520	593265.4	4152008	1.41E-03	2.30E-03	1.41E-03	2.28E-03
593285.4_41520	593285.4	4152008	1.52E-03	2.47E-03	1.52E-03	2.45E-03
593225.4_41520	593225.4	4152028	1.69E-03	2.75E-03	1.69E-03	2.73E-03
593245.4_41520	593245.4	4152028	1.91E-03	3.11E-03	1.91E-03	3.09E-03
593265.4_41520	593265.4	4152028	2.21E-03	3.60E-03	2.21E-03	3.57E-03
593285.4_41520	593285.4	4152028	2.65E-03	4.31E-03	2.65E-03	4.27E-03
592965.4_41521	592965.4	4152108	3.29E-03	5.36E-03	3.29E-03	5.31E-03
592985.4_41521	592985.4	4152108	4.28E-03	6.96E-03	4.28E-03	6.90E-03
592965.4_41521	592965.4	4152128	5.66E-03	9.21E-03	5.66E-03	9.13E-03
592965.4_41521	592965.4	4152148	7.43E-03	1.21E-02	7.43E-03	1.20E-02
592965.4_41521	592965.4	4152168	9.51E-03	1.55E-02	9.51E-03	1.54E-02

Unmitigated HI Risk

	C_{DPM}/REL		
2024	2025	Max
1.58E-04	2.57E-04	0.00
1.63E-04	2.66E-04	0.00
1.68E-04	2.73E-04	0.00
1.74E-04	2.83E-04	0.00
1.80E-04	2.94E-04	0.00
1.87E-04	3.05E-04	0.00
1.96E-04	3.19E-04	0.00
2.05E-04	3.34E-04	0.00
2.19E-04	3.57E-04	0.00
2.33E-04	3.80E-04	0.00
2.53E-04	4.12E-04	0.00
2.80E-04	4.56E-04	0.00
3.15E-04	5.13E-04	0.00
3.61E-04	5.88E-04	0.00
4.26E-04	6.93E-04	0.00
5.16E-04	8.40E-04	0.00
6.49E-04	1.06E-03	0.00
8.33E-04	1.36E-03	0.00
1.07E-03	1.74E-03	0.00
1.36E-03	2.22E-03	0.00
1.67E-03	2.72E-03	0.00
1.99E-03	3.24E-03	0.00
2.29E-03	3.73E-03	0.00
2.54E-03	4.13E-03	0.00
2.71E-03	4.41E-03	0.00
2.81E-03	4.58E-03	0.00
2.83E-03	4.61E-03	0.00
2.79E-03	4.54E-03	0.00
2.69E-03	4.39E-03	0.00
2.56E-03	4.16E-03	0.00
2.39E-03	3.90E-03	0.00
2.22E-03	3.61E-03	0.00
2.03E-03	3.31E-03	0.00
1.84E-04	3.00E-04	0.00
1.91E-04	3.12E-04	0.00
1.99E-04	3.23E-04	0.00
2.06E-04	3.36E-04	0.00
2.15E-04	3.50E-04	0.00
2.24E-04	3.65E-04	0.00
2.33E-04	3.80E-04	0.00
2.45E-04	4.00E-04	0.00
2.64E-04	4.29E-04	0.00
2.83E-04	4.60E-04	0.00
3.04E-04	4.94E-04	0.00
3.38E-04	5.50E-04	0.00
3.82E-04	6.22E-04	0.00
4.43E-04	7.21E-04	0.00
5.29E-04	8.61E-04	0.00
6.58E-04	1.07E-03	0.00
8.55E-04	1.39E-03	0.00
1.13E-03	1.84E-03	0.00
1.49E-03	2.42E-03	0.00
1.90E-03	3.10E-03	0.00

Mitigated HI Risk

	C_{DPM}/REL	
2024	2025	Max
1.58E-04	2.55E-04	0.00
1.63E-04	2.64E-04	0.00
1.68E-04	2.71E-04	0.00
1.74E-04	2.81E-04	0.00
1.80E-04	2.91E-04	0.00
1.87E-04	3.02E-04	0.00
1.96E-04	3.16E-04	0.00
2.05E-04	3.31E-04	0.00
2.19E-04	3.54E-04	0.00
2.33E-04	3.77E-04	0.00
2.53E-04	4.09E-04	0.00
2.80E-04	4.52E-04	0.00
3.15E-04	5.09E-04	0.00
3.61E-04	5.83E-04	0.00
4.26E-04	6.87E-04	0.00
5.16E-04	8.33E-04	0.00
6.49E-04	1.05E-03	0.00
8.33E-04	1.34E-03	0.00
1.07E-03	1.73E-03	0.00
1.36E-03	2.20E-03	0.00
1.67E-03	2.70E-03	0.00
1.99E-03	3.22E-03	0.00
2.29E-03	3.70E-03	0.00
2.54E-03	4.09E-03	0.00
2.71E-03	4.37E-03	0.00
2.81E-03	4.54E-03	0.00
2.83E-03	4.57E-03	0.00
2.79E-03	4.50E-03	0.00
2.69E-03	4.35E-03	0.00
2.56E-03	4.13E-03	0.00
2.39E-03	3.86E-03	0.00
2.22E-03	3.58E-03	0.00
2.03E-03	3.28E-03	0.00
1.84E-04	2.98E-04	0.00
1.91E-04	3.09E-04	0.00
1.99E-04	3.21E-04	0.00
2.06E-04	3.33E-04	0.00
2.15E-04	3.47E-04	0.00
2.24E-04	3.62E-04	0.00
2.33E-04	3.77E-04	0.00
2.45E-04	3.96E-04	0.00
2.64E-04	4.25E-04	0.00
2.83E-04	4.57E-04	0.00
3.04E-04	4.90E-04	0.00
3.38E-04	5.45E-04	0.00
3.82E-04	6.17E-04	0.00
4.43E-04	7.15E-04	0.00
5.29E-04	8.54E-04	0.00
6.58E-04	1.06E-03	0.00
8.55E-04	1.38E-03	0.00
1.13E-03	1.83E-03	0.00
1.49E-03	2.40E-03	0.00
1.90E-03	3.07E-03	0.00

Diesel Particulate Matter concentration, C_{DPM} (ug/m^3)

			Unmitigated		Mitigated	
Lookup	X (UTM)	Y (UTM	2024	2025	2024	2025

Unmitigated HI Risk

C_{DPM}/REL		
2024	2025	Max

Mitigated HI Risk

C_{DPM}/REL		
2024	2025	Max

Diesel Particulate Matter concentration, C_{DPM} (ug/m^3)

			Unmitigated		Mitigated	
Lookup	X (UTM)	Y (UTM	2024	2025	2024	2025

Unmitigated HI Risk

C_{DPM}/REL		
2024	2025	Max

Mitigated HI Risk

C_{DPM}/REL		
2024	2025	Max

Diesel Particulate Matter concentration, C_{DPM} (ug/m^3)

			Unmitigated		Mitigated	
Lookup	X (UTM)	Y (UTM	2024	2025	2024	2025

Unmitigated HI Risk

C_{DPM}/REL		
2024	2025	Max

Mitigated HI Risk

C_{DPM}/REL		
2024	2025	Max

Diesel Particulate Matter concentration, C_{DPM} (ug/m^3)

			Unmitigated		Mitigated	
Lookup	X (UTM)	Y (UTM	2024	2025	2024	2025

Unmitigated HI Risk

C_{DPM}/REL		
2024	2025	Max

Mitigated HI Risk

C_{DPM}/REL		
2024	2025	Max

43990 Fremont
Worker Receptors - Construction Annual Average PM $_{2.5}$ Concentration

Haul Truck Trip Lengths

	Haul	Vendor	Worker	
Trip Length	20	8.4	11.7	miles
	32187	13518	18829	meters

Haul Truck Adjustment Factor to Model

Source	Haul	Vendor	Worker
Haul	0.02	0.05	0.03

Modeled Routes

	Haul
Trip Length	618.3 meters

from AERMOD

			Days				Total Unmitigated PM$_{2.5}$ (tons)				Total Mitigated PM$_{2.5}$ (tons)			
Construction Year	Start Date	End Date	Age 16<70			Calendar Days	Onsite Offroad	Haul Truck	Vendor Trips	Worker Trips	Onsite Offroad	Haul Truck	Vendor Trips	Worker Trips
2024	11/1/2024	12/31/2024	250.00			365	3.42E-02	1.11E-03	0.00E+00	8.16E-04	3.42E-02	1.11E-03	0.00E+00	8.16E-04
2025	1/1/2025	11/1/2025	250.00			365	8.67E-02	7.04E-04	2.03E-03	5.56E-03	8.62E-02	7.04E-04	2.03E-03	5.74E-03

			Total Unmitigated DPM (g/s)		Total Mitigated DPM (g/s)	
Construction Year	Start Date	End Date	CSTN	HAUL	CSTN	HAUL
2024	11/1/2024	12/31/2024	9.83E-04	1.38E-06	9.83E-04	1.38E-06
2025	1/1/2025	11/1/2025	2.49E-03	8.32E-06	2.48E-03	8.49E-06

MAX	PM2.5	UTM X	UTM Y	Year
Unmitigated	0.04	593125.4	4151988	2025
Mitigated	0.03	593125.4	4151988	2025

Particulate Matter concentration, $C_{PM2.5}$ (ug/m^3)

			Unmitigated		Mitigated		Unmitigated PM$_{2.5}$ Concentration		Mitigated PM$_{2.5}$ Concentration	
Lookup	X (UTM)	Y (UTM	2024	2025	2024	2025	Max	Max Year	Max	Max Year
593105.4_41520	593105.4	4152028	4.82E-04	1.23E-03	4.82E-04	1.22E-03	1.23E-03	2025	1.22E-03	2025
593125.4_41520	593125.4	4152028	5.23E-04	1.33E-03	5.23E-04	1.32E-03	1.33E-03	2025	1.32E-03	2025
593085.4_41520	593085.4	4152048	5.71E-04	1.45E-03	5.71E-04	1.45E-03	1.45E-03	2025	1.45E-03	2025
593105.4_41520	593105.4	4152048	6.33E-04	1.61E-03	6.33E-04	1.60E-03	1.61E-03	2025	1.60E-03	2025
593125.4_41520	593125.4	4152048	7.08E-04	1.80E-03	7.08E-04	1.79E-03	1.80E-03	2025	1.79E-03	2025
593145.4_41520	593145.4	4152048	8.02E-04	2.04E-03	8.02E-04	2.03E-03	2.04E-03	2025	2.03E-03	2025
593165.4_41520	593165.4	4152048	9.15E-04	2.33E-03	9.15E-04	2.31E-03	2.33E-03	2025	2.31E-03	2025
593185.4_41520	593185.4	4152048	1.05E-03	2.66E-03	1.05E-03	2.65E-03	2.66E-03	2025	2.65E-03	2025
593205.4_41520	593205.4	4152048	1.20E-03	3.05E-03	1.20E-03	3.03E-03	3.05E-03	2025	3.03E-03	2025
593065.4_41520	593065.4	4152068	4.28E-04	1.09E-03	4.28E-04	1.08E-03	1.09E-03	2025	1.08E-03	2025
593085.4_41520	593085.4	4152068	4.57E-04	1.16E-03	4.57E-04	1.16E-03	1.16E-03	2025	1.16E-03	2025
593105.4_41520	593105.4	4152068	4.91E-04	1.25E-03	4.91E-04	1.24E-03	1.25E-03	2025	1.24E-03	2025
593125.4_41520	593125.4	4152068	5.32E-04	1.35E-03	5.32E-04	1.35E-03	1.35E-03	2025	1.35E-03	2025
593145.4_41520	593145.4	4152068	5.79E-04	1.47E-03	5.79E-04	1.47E-03	1.47E-03	2025	1.47E-03	2025
593165.4_41520	593165.4	4152068	6.36E-04	1.62E-03	6.36E-04	1.61E-03	1.62E-03	2025	1.61E-03	2025
593185.4_41520	593185.4	4152068	7.06E-04	1.80E-03	7.06E-04	1.79E-03	1.80E-03	2025	1.79E-03	2025
593205.4_41520	593205.4	4152068	7.93E-04	2.02E-03	7.93E-04	2.01E-03	2.02E-03	2025	2.01E-03	2025
593225.4_41520	593225.4	4152068	9.04E-04	2.30E-03	9.04E-04	2.29E-03	2.30E-03	2025	2.29E-03	2025
593065.4_41520	593065.4	4152088	1.04E-03	2.64E-03	1.04E-03	2.63E-03	2.64E-03	2025	2.63E-03	2025
593085.4_41520	593085.4	4152088	1.20E-03	3.06E-03	1.20E-03	3.04E-03	3.06E-03	2025	3.04E-03	2025
593105.4_41520	593105.4	4152088	1.39E-03	3.52E-03	1.39E-03	3.51E-03	3.52E-03	2025	3.51E-03	2025
593125.4_41520	593125.4	4152088	1.60E-03	4.07E-03	1.60E-03	4.05E-03	4.07E-03	2025	4.05E-03	2025
593145.4_41520	593145.4	4152088	1.84E-03	4.67E-03	1.84E-03	4.64E-03	4.67E-03	2025	4.64E-03	2025
593165.4_41520	593165.4	4152088	2.08E-03	5.28E-03	2.08E-03	5.26E-03	5.28E-03	2025	5.26E-03	2025
593185.4_41520	593185.4	4152088	4.20E-04	1.07E-03	4.20E-04	1.06E-03	1.07E-03	2025	1.06E-03	2025
593205.4_41520	593205.4	4152088	4.43E-04	1.13E-03	4.43E-04	1.12E-03	1.13E-03	2025	1.12E-03	2025
593225.4_41520	593225.4	4152088	4.70E-04	1.20E-03	4.70E-04	1.19E-03	1.20E-03	2025	1.19E-03	2025
593145.4_41521	593145.4	4152108	5.03E-04	1.28E-03	5.03E-04	1.27E-03	1.28E-03	2025	1.27E-03	2025
593165.4_41521	593165.4	4152108	5.42E-04	1.38E-03	5.42E-04	1.37E-03	1.38E-03	2025	1.37E-03	2025
593185.4_41521	593185.4	4152108	5.89E-04	1.50E-03	5.89E-04	1.49E-03	1.50E-03	2025	1.49E-03	2025
593205.4_41521	593205.4	4152108	6.45E-04	1.64E-03	6.45E-04	1.63E-03	1.64E-03	2025	1.63E-03	2025
593225.4_41521	593225.4	4152108	7.13E-04	1.81E-03	7.13E-04	1.80E-03	1.81E-03	2025	1.80E-03	2025
593225.4_41521	593225.4	4152128	7.96E-04	2.02E-03	7.96E-04	2.01E-03	2.02E-03	2025	2.01E-03	2025
593005.4_41520	593005.4	4152008	9.01E-04	2.29E-03	9.01E-04	2.28E-03	2.29E-03	2025	2.28E-03	2025
593025.4_41520	593025.4	4152008	1.04E-03	2.63E-03	1.04E-03	2.62E-03	2.63E-03	2025	2.62E-03	2025
593005.4_41520	593005.4	4152028	1.20E-03	3.06E-03	1.20E-03	3.04E-03	3.06E-03	2025	3.04E-03	2025
593025.4_41520	593025.4	4152028	1.40E-03	3.55E-03	1.40E-03	3.54E-03	3.55E-03	2025	3.54E-03	2025
592705.4_41520	592705.4	4152008	1.62E-03	4.12E-03	1.62E-03	4.10E-03	4.12E-03	2025	4.10E-03	2025
592725.4_41520	592725.4	4152008	1.88E-03	4.77E-03	1.88E-03	4.75E-03	4.77E-03	2025	4.75E-03	2025
592745.4_41520	592745.4	4152008	2.16E-03	5.49E-03	2.16E-03	5.46E-03	5.49E-03	2025	5.46E-03	2025
592705.4_41520	592705.4	4152028	2.44E-03	6.20E-03	2.44E-03	6.17E-03	6.20E-03	2025	6.17E-03	2025
592725.4_41520	592725.4	4152028	2.74E-03	6.94E-03	2.74E-03	6.91E-03	6.94E-03	2025	6.91E-03	2025
592685.4_41520	592685.4	4152048	3.05E-03	7.75E-03	3.05E-03	7.71E-03	7.75E-03	2025	7.71E-03	2025
592705.4_41520	592705.4	4152048	4.39E-04	1.12E-03	4.39E-04	1.11E-03	1.12E-03	2025	1.11E-03	2025
592725.4_41520	592725.4	4152048	4.62E-04	1.18E-03	4.62E-04	1.17E-03	1.18E-03	2025	1.17E-03	2025
592705.4_41520	592705.4	4152068	4.88E-04	1.24E-03	4.88E-04	1.24E-03	1.24E-03	2025	1.24E-03	2025
593065.4_41517	593065.4	4151728	5.20E-04	1.32E-03	5.20E-04	1.32E-03	1.32E-03	2025	1.32E-03	2025
593085.4_41517	593085.4	4151728	5.59E-04	1.42E-03	5.59E-04	1.41E-03	1.42E-03	2025	1.41E-03	2025
593105.4_41517	593105.4	4151728	6.03E-04	1.53E-03	6.03E-04	1.53E-03	1.53E-03	2025	1.53E-03	2025
593125.4_41517	593125.4	4151728	6.58E-04	1.67E-03	6.58E-04	1.67E-03	1.67E-03	2025	1.67E-03	2025
593045.4_41517	593045.4	4151748	7.24E-04	1.84E-03	7.24E-04	1.83E-03	1.84E-03	2025	1.83E-03	2025
593065.4_41517	593065.4	4151748	8.04E-04	2.05E-03	8.04E-04	2.04E-03	2.05E-03	2025	2.04E-03	2025
593085.4_41517	593085.4	4151748	9.05E-04	2.30E-03	9.05E-04	2.29E-03	2.30E-03	2025	2.29E-03	2025
593105.4_41517	593105.4	4151748	1.03E-03	2.63E-03	1.03E-03	2.62E-03	2.63E-03	2025	2.62E-03	2025
593125.4_41517	593125.4	4151748	1.20E-03	3.05E-03	1.20E-03	3.04E-03	3.05E-03	2025	3.04E-03	2025
593145.4_41517	593145.4	4151748	1.41E-03	3.58E-03	1.41E-03	3.56E-03	3.58E-03	2025	3.56E-03	2025
593165.4_41517	593165.4	4151748	1.65E-03	4.19E-03	1.65E-03	4.17E-03	4.19E-03	2025	4.17E-03	2025
593025.4_41517	593025.4	4151768	1.93E-03	4.91E-03	1.93E-03	4.89E-03	4.91E-03	2025	4.89E-03	2025
593045.4_41517	593045.4	4151768	2.25E-03	5.72E-03	2.25E-03	5.69E-03	5.72E-03	2025	5.69E-03	2025
593065.4_41517	593065.4	4151768	2.59E-03	6.57E-03	2.59E-03	6.54E-03	6.57E-03	2025	6.54E-03	2025
593085.4_41517	593085.4	4151768	2.94E-03	7.45E-03	2.94E-03	7.42E-03	7.45E-03	2025	7.42E-03	2025
593105.4_41517	593105.4	4151768	3.30E-03	8.39E-03	3.30E-03	8.35E-03	8.39E-03	2025	8.35E-03	2025
593125.4_41517	593125.4	4151768	3.68E-03	9.35E-03	3.68E-03	9.30E-03	9.35E-03	2025	9.30E-03	2025
593145.4_41517	593145.4	4151768	4.04E-03	1.03E-02	4.04E-03	1.02E-02	1.03E-02	2025	1.02E-02	2025
593165.4_41517	593165.4	4151768	4.33E-03	1.10E-02	4.33E-03	1.09E-02	1.10E-02	2025	1.09E-02	2025
593185.4_41517	593185.4	4151768	4.65E-04	1.18E-03	4.65E-04	1.18E-03	1.18E-03	2025	1.18E-03	2025
593005.4_41517	593005.4	4151788	4.88E-04	1.24E-03	4.88E-04	1.24E-03	1.24E-03	2025	1.24E-03	2025
593025.4_41517	593025.4	4151788	5.14E-04	1.31E-03	5.14E-04	1.30E-03	1.31E-03	2025	1.30E-03	2025
593045.4_41517	593045.4	4151788	5.41E-04	1.38E-03	5.41E-04	1.37E-03	1.38E-03	2025	1.37E-03	2025
593065.4_41517	593065.4	4151788	5.79E-04	1.47E-03	5.79E-04	1.47E-03	1.47E-03	2025	1.47E-03	2025
593085.4_41517	593085.4	4151788	6.24E-04	1.59E-03	6.24E-04	1.58E-03	1.59E-03	2025	1.58E-03	2025
593105.4_41517	593105.4	4151788	6.76E-04	1.72E-03	6.76E-04	1.71E-03	1.72E-03	2025	1.71E-03	2025
593125.4_41517	593125.4	4151788	7.40E-04	1.88E-03	7.40E-04	1.87E-03	1.88E-03	2025	1.87E-03	2025
593145.4_41517	593145.4	4151788	8.17E-04	2.08E-03	8.17E-04	2.07E-03	2.08E-03	2025	2.07E-03	2025
593165.4_41517	593165.4	4151788	9.13E-04	2.32E-03	9.13E-04	2.31E-03	2.32E-03	2025	2.31E-03	2025
593185.4_41517	593185.4	4151788	1.03E-03	2.62E-03	1.03E-03	2.61E-03	2.62E-03	2025	2.61E-03	2025
593205.4_41517	593205.4	4151788	1.20E-03	3.04E-03	1.20E-03	3.03E-03	3.04E-03	2025	3.03E-03	2025
592985.4_41518	592985.4	4151808	1.41E-03	3.57E-03	1.41E-03	3.55E-03	3.57E-03	2025	3.55E-03	2025
593005.4_41518	593005.4	4151808	1.66E-03	4.22E-03	1.66E-03	4.20E-03	4.22E-03	2025	4.20E-03	2025
593025.4_41518	593025.4	4151808	1.97E-03	5.00E-03	1.97E-03	4.97E-03	5.00E-03	2025	4.97E-03	2025
593045.4_41518	593045.4	4151808	2.33E-03	5.93E-03	2.33E-03	5.90E-03	5.93E-03	2025	5.90E-03	2025
593065.4_41518	593065.4	4151808	2.73E-03	6.93E-03	2.73E-03	6.90E-03	6.93E-03	2025	6.90E-03	2025
593085.4_41518	593085.4	4151808	3.15E-03	7.99E-03	3.15E-03	7.95E-03	7.99E-03	2025	7.95E-03	2025
593105.4_41518	593105.4	4151808	3.59E-03	9.12E-03	3.59E-03	9.08E-03	9.12E-03	2025	9.08E-03	2025
593125.4_41518	593125.4	4151808	4.04E-03	1.02E-02	4.04E-03	1.02E-02	1.02E-02	2025	1.02E-02	2025
593145.4_41518	593145.4	4151808	4.47E-03	1.13E-02	4.47E-03	1.13E-02	1.13E-02	2025	1.13E-02	2025
593165.4_41518	593165.4	4151808	4.86E-03	1.23E-02	4.86E-03	1.23E-02	1.23E-02	2025	1.23E-02	2025
593185.4_41518	593185.4	4151808	5.21E-03	1.32E-02	5.21E-03	1.31E-02	1.32E-02	2025	1.31E-02	2025
593205.4_41518	593205.4	4151808	5.50E-03	1.40E-02	5.50E-03	1.39E-02	1.40E-02	2025	1.39E-02	2025

Particulate Matter concentration, $C_{PM2.5}$ (ug/m^3)

Lookup	X (UTM)	Y (UTM	Unmitigated 2024	Unmitigated 2025	Mitigated 2024	Mitigated 2025	Unmitigated $PM_{2.5}$ Concentration Max	Unmitigated $PM_{2.5}$ Concentration Max Year	Mitigated $PM_{2.5}$ Concentration Max	Mitigated $PM_{2.5}$ Concentration Max Year
592965.4_41518	592965.4	4151828	4.81E-04	1.23E-03	4.81E-04	1.22E-03	1.23E-03	2025	1.22E-03	2025
592985.4_41518	592985.4	4151828	4.98E-04	1.27E-03	4.98E-04	1.26E-03	1.27E-03	2025	1.26E-03	2025
593005.4_41518	593005.4	4151828	5.18E-04	1.32E-03	5.18E-04	1.31E-03	1.32E-03	2025	1.31E-03	2025
593025.4_41518	593025.4	4151828	5.43E-04	1.38E-03	5.43E-04	1.37E-03	1.38E-03	2025	1.37E-03	2025
593045.4_41518	593045.4	4151828	5.75E-04	1.46E-03	5.75E-04	1.46E-03	1.46E-03	2025	1.46E-03	2025
593065.4_41518	593065.4	4151828	6.06E-04	1.54E-03	6.06E-04	1.53E-03	1.54E-03	2025	1.53E-03	2025
593085.4_41518	593085.4	4151828	6.47E-04	1.65E-03	6.47E-04	1.64E-03	1.65E-03	2025	1.64E-03	2025
593105.4_41518	593105.4	4151828	6.98E-04	1.78E-03	6.98E-04	1.77E-03	1.78E-03	2025	1.77E-03	2025
593125.4_41518	593125.4	4151828	7.59E-04	1.93E-03	7.59E-04	1.92E-03	1.93E-03	2025	1.92E-03	2025
593145.4_41518	593145.4	4151828	8.37E-04	2.13E-03	8.37E-04	2.12E-03	2.13E-03	2025	2.12E-03	2025
593165.4_41518	593165.4	4151828	9.31E-04	2.37E-03	9.31E-04	2.35E-03	2.37E-03	2025	2.35E-03	2025
593185.4_41518	593185.4	4151828	1.05E-03	2.67E-03	1.05E-03	2.66E-03	2.67E-03	2025	2.66E-03	2025
593205.4_41518	593205.4	4151828	1.20E-03	3.05E-03	1.20E-03	3.03E-03	3.05E-03	2025	3.03E-03	2025
593225.4_41518	593225.4	4151828	1.40E-03	3.57E-03	1.40E-03	3.55E-03	3.57E-03	2025	3.55E-03	2025
592945.4_41518	592945.4	4151848	1.68E-03	4.26E-03	1.68E-03	4.24E-03	4.26E-03	2025	4.24E-03	2025
592965.4_41518	592965.4	4151848	2.00E-03	5.07E-03	2.00E-03	5.04E-03	5.07E-03	2025	5.04E-03	2025
592985.4_41518	592985.4	4151848	2.39E-03	6.08E-03	2.39E-03	6.05E-03	6.08E-03	2025	6.05E-03	2025
593005.4_41518	593005.4	4151848	2.85E-03	7.25E-03	2.85E-03	7.21E-03	7.25E-03	2025	7.21E-03	2025
593025.4_41518	593025.4	4151848	3.36E-03	8.54E-03	3.36E-03	8.50E-03	8.54E-03	2025	8.50E-03	2025
593045.4_41518	593045.4	4151848	3.91E-03	9.92E-03	3.91E-03	9.87E-03	9.92E-03	2025	9.87E-03	2025
593065.4_41518	593065.4	4151848	4.46E-03	1.13E-02	4.46E-03	1.13E-02	1.13E-02	2025	1.13E-02	2025
593085.4_41518	593085.4	4151848	4.99E-03	1.27E-02	4.99E-03	1.26E-02	1.27E-02	2025	1.26E-02	2025
593105.4_41518	593105.4	4151848	5.50E-03	1.40E-02	5.50E-03	1.39E-02	1.40E-02	2025	1.39E-02	2025
593125.4_41518	593125.4	4151848	5.94E-03	1.51E-02	5.94E-03	1.50E-02	1.51E-02	2025	1.50E-02	2025
593145.4_41518	593145.4	4151848	6.30E-03	1.60E-02	6.30E-03	1.59E-02	1.60E-02	2025	1.59E-02	2025
593165.4_41518	593165.4	4151848	6.56E-03	1.67E-02	6.56E-03	1.66E-02	1.67E-02	2025	1.66E-02	2025
593185.4_41518	593185.4	4151848	6.74E-03	1.71E-02	6.74E-03	1.70E-02	1.71E-02	2025	1.70E-02	2025
593205.4_41518	593205.4	4151848	5.30E-04	1.35E-03	5.30E-04	1.34E-03	1.35E-03	2025	1.34E-03	2025
593225.4_41518	593225.4	4151848	5.44E-04	1.38E-03	5.44E-04	1.38E-03	1.38E-03	2025	1.38E-03	2025
593245.4_41518	593245.4	4151848	5.62E-04	1.43E-03	5.62E-04	1.42E-03	1.43E-03	2025	1.42E-03	2025
592925.4_41518	592925.4	4151868	5.84E-04	1.49E-03	5.84E-04	1.48E-03	1.49E-03	2025	1.48E-03	2025
592945.4_41518	592945.4	4151868	6.12E-04	1.56E-03	6.12E-04	1.55E-03	1.56E-03	2025	1.55E-03	2025
592965.4_41518	592965.4	4151868	6.49E-04	1.65E-03	6.49E-04	1.64E-03	1.65E-03	2025	1.64E-03	2025
592985.4_41518	592985.4	4151868	6.87E-04	1.75E-03	6.87E-04	1.74E-03	1.75E-03	2025	1.74E-03	2025
593005.4_41518	593005.4	4151868	7.35E-04	1.87E-03	7.35E-04	1.86E-03	1.87E-03	2025	1.86E-03	2025
593025.4_41518	593025.4	4151868	7.95E-04	2.02E-03	7.95E-04	2.01E-03	2.02E-03	2025	2.01E-03	2025
593045.4_41518	593045.4	4151868	8.67E-04	2.20E-03	8.67E-04	2.19E-03	2.20E-03	2025	2.19E-03	2025
593065.4_41518	593065.4	4151868	9.58E-04	2.44E-03	9.58E-04	2.42E-03	2.44E-03	2025	2.42E-03	2025
593085.4_41518	593085.4	4151868	1.07E-03	2.72E-03	1.07E-03	2.71E-03	2.72E-03	2025	2.71E-03	2025
593105.4_41518	593105.4	4151868	1.22E-03	3.10E-03	1.22E-03	3.08E-03	3.10E-03	2025	3.08E-03	2025
593125.4_41518	593125.4	4151868	1.41E-03	3.59E-03	1.41E-03	3.57E-03	3.59E-03	2025	3.57E-03	2025
593145.4_41518	593145.4	4151868	1.67E-03	4.25E-03	1.67E-03	4.23E-03	4.25E-03	2025	4.23E-03	2025
593165.4_41518	593165.4	4151868	2.02E-03	5.14E-03	2.02E-03	5.11E-03	5.14E-03	2025	5.11E-03	2025
593185.4_41518	593185.4	4151868	2.45E-03	6.23E-03	2.45E-03	6.19E-03	6.23E-03	2025	6.19E-03	2025
593205.4_41518	593205.4	4151868	2.98E-03	7.56E-03	2.98E-03	7.52E-03	7.56E-03	2025	7.52E-03	2025
593225.4_41518	593225.4	4151868	3.57E-03	9.07E-03	3.57E-03	9.03E-03	9.07E-03	2025	9.03E-03	2025
593245.4_41518	593245.4	4151868	4.24E-03	1.08E-02	4.24E-03	1.07E-02	1.08E-02	2025	1.07E-02	2025
592905.4_41518	592905.4	4151888	4.94E-03	1.25E-02	4.94E-03	1.25E-02	1.25E-02	2025	1.25E-02	2025
592925.4_41518	592925.4	4151888	5.62E-03	1.43E-02	5.62E-03	1.42E-02	1.43E-02	2025	1.42E-02	2025
592945.4_41518	592945.4	4151888	6.27E-03	1.59E-02	6.27E-03	1.58E-02	1.59E-02	2025	1.58E-02	2025
592965.4_41518	592965.4	4151888	6.85E-03	1.74E-02	6.85E-03	1.73E-02	1.74E-02	2025	1.73E-02	2025
592985.4_41518	592985.4	4151888	7.31E-03	1.86E-02	7.31E-03	1.85E-02	1.86E-02	2025	1.85E-02	2025
593005.4_41518	593005.4	4151888	7.66E-03	1.94E-02	7.66E-03	1.93E-02	1.94E-02	2025	1.93E-02	2025
593025.4_41518	593025.4	4151888	7.86E-03	2.00E-02	7.86E-03	1.99E-02	2.00E-02	2025	1.99E-02	2025
593045.4_41518	593045.4	4151888	7.94E-03	2.02E-02	7.94E-03	2.00E-02	2.02E-02	2025	2.00E-02	2025
593065.4_41518	593065.4	4151888	7.92E-03	2.01E-02	7.92E-03	2.00E-02	2.01E-02	2025	2.00E-02	2025
593085.4_41518	593085.4	4151888	6.08E-04	1.55E-03	6.08E-04	1.54E-03	1.55E-03	2025	1.54E-03	2025
593105.4_41518	593105.4	4151888	6.24E-04	1.59E-03	6.24E-04	1.58E-03	1.59E-03	2025	1.58E-03	2025
593125.4_41518	593125.4	4151888	6.44E-04	1.64E-03	6.44E-04	1.63E-03	1.64E-03	2025	1.63E-03	2025
593145.4_41518	593145.4	4151888	6.68E-04	1.70E-03	6.68E-04	1.69E-03	1.70E-03	2025	1.69E-03	2025
593165.4_41518	593165.4	4151888	6.99E-04	1.78E-03	6.99E-04	1.77E-03	1.78E-03	2025	1.77E-03	2025
593185.4_41518	593185.4	4151888	7.42E-04	1.89E-03	7.42E-04	1.88E-03	1.89E-03	2025	1.88E-03	2025
593205.4_41518	593205.4	4151888	7.88E-04	2.00E-03	7.88E-04	1.99E-03	2.00E-03	2025	1.99E-03	2025
593225.4_41518	593225.4	4151888	8.40E-04	2.14E-03	8.40E-04	2.13E-03	2.14E-03	2025	2.13E-03	2025
593245.4_41518	593245.4	4151888	9.10E-04	2.31E-03	9.10E-04	2.30E-03	2.31E-03	2025	2.30E-03	2025
593265.4_41518	593265.4	4151888	9.99E-04	2.54E-03	9.99E-04	2.53E-03	2.54E-03	2025	2.53E-03	2025
592885.4_41519	592885.4	4151908	1.11E-03	2.83E-03	1.11E-03	2.81E-03	2.83E-03	2025	2.81E-03	2025
592905.4_41519	592905.4	4151908	1.25E-03	3.17E-03	1.25E-03	3.15E-03	3.17E-03	2025	3.15E-03	2025
592925.4_41519	592925.4	4151908	1.43E-03	3.64E-03	1.43E-03	3.62E-03	3.64E-03	2025	3.62E-03	2025
592945.4_41519	592945.4	4151908	1.68E-03	4.26E-03	1.68E-03	4.24E-03	4.26E-03	2025	4.24E-03	2025
592965.4_41519	592965.4	4151908	2.02E-03	5.12E-03	2.02E-03	5.10E-03	5.12E-03	2025	5.10E-03	2025
592985.4_41519	592985.4	4151908	2.48E-03	6.29E-03	2.48E-03	6.26E-03	6.29E-03	2025	6.26E-03	2025
593005.4_41519	593005.4	4151908	3.06E-03	7.78E-03	3.06E-03	7.74E-03	7.78E-03	2025	7.74E-03	2025
593025.4_41519	593025.4	4151908	3.77E-03	9.56E-03	3.77E-03	9.52E-03	9.56E-03	2025	9.52E-03	2025
593045.4_41519	593045.4	4151908	4.58E-03	1.16E-02	4.58E-03	1.16E-02	1.16E-02	2025	1.16E-02	2025
593065.4_41519	593065.4	4151908	5.47E-03	1.39E-02	5.47E-03	1.38E-02	1.39E-02	2025	1.38E-02	2025
593085.4_41519	593085.4	4151908	6.35E-03	1.61E-02	6.35E-03	1.60E-02	1.61E-02	2025	1.60E-02	2025
593105.4_41519	593105.4	4151908	7.22E-03	1.83E-02	7.22E-03	1.82E-02	1.83E-02	2025	1.82E-02	2025
593125.4_41519	593125.4	4151908	7.98E-03	2.03E-02	7.98E-03	2.02E-02	2.03E-02	2025	2.02E-02	2025
593145.4_41519	593145.4	4151908	8.59E-03	2.18E-02	8.59E-03	2.17E-02	2.18E-02	2025	2.17E-02	2025
593165.4_41519	593165.4	4151908	9.04E-03	2.29E-02	9.04E-03	2.28E-02	2.29E-02	2025	2.28E-02	2025
593185.4_41519	593185.4	4151908	9.33E-03	2.37E-02	9.33E-03	2.35E-02	2.37E-02	2025	2.35E-02	2025
593205.4_41519	593205.4	4151908	9.40E-03	2.39E-02	9.40E-03	2.37E-02	2.39E-02	2025	2.37E-02	2025
593225.4_41519	593225.4	4151908	9.32E-03	2.37E-02	9.32E-03	2.35E-02	2.37E-02	2025	2.35E-02	2025
593245.4_41519	593245.4	4151908	9.13E-03	2.32E-02	9.13E-03	2.31E-02	2.32E-02	2025	2.31E-02	2025
593265.4_41519	593265.4	4151908	8.83E-03	2.24E-02	8.83E-03	2.23E-02	2.24E-02	2025	2.23E-02	2025
592885.4_41519	592885.4	4151928	6.84E-04	1.74E-03	6.84E-04	1.73E-03	1.74E-03	2025	1.73E-03	2025
592905.4_41519	592905.4	4151928	7.02E-04	1.79E-03	7.02E-04	1.78E-03	1.79E-03	2025	1.78E-03	2025
592925.4_41519	592925.4	4151928	7.26E-04	1.85E-03	7.26E-04	1.84E-03	1.85E-03	2025	1.84E-03	2025
592945.4_41519	592945.4	4151928	7.48E-04	1.90E-03	7.48E-04	1.89E-03	1.90E-03	2025	1.89E-03	2025
592965.4_41519	592965.4	4151928	7.78E-04	1.98E-03	7.78E-04	1.97E-03	1.98E-03	2025	1.97E-03	2025
592985.4_41519	592985.4	4151928	8.13E-04	2.07E-03	8.13E-04	2.06E-03	2.07E-03	2025	2.06E-03	2025
593005.4_41519	593005.4	4151928	8.55E-04	2.17E-03	8.55E-04	2.16E-03	2.17E-03	2025	2.16E-03	2025
593025.4_41519	593025.4	4151928	9.13E-04	2.32E-03	9.13E-04	2.31E-03	2.32E-03	2025	2.31E-03	2025
593045.4_41519	593045.4	4151928	9.72E-04	2.47E-03	9.72E-04	2.46E-03	2.47E-03	2025	2.46E-03	2025
593065.4_41519	593065.4	4151928	1.05E-03	2.68E-03	1.05E-03	2.66E-03	2.68E-03	2025	2.66E-03	2025
593085.4_41519	593085.4	4151928	1.16E-03	2.95E-03	1.16E-03	2.94E-03	2.95E-03	2025	2.94E-03	2025
593105.4_41519	593105.4	4151928	1.30E-03	3.30E-03	1.30E-03	3.28E-03	3.30E-03	2025	3.28E-03	2025
593125.4_41519	593125.4	4151928	1.47E-03	3.74E-03	1.47E-03	3.72E-03	3.74E-03	2025	3.72E-03	2025
593145.4_41519	593145.4	4151928	1.71E-03	4.35E-03	1.71E-03	4.33E-03	4.35E-03	2025	4.33E-03	2025
593165.4_41519	593165.4	4151928	2.03E-03	5.17E-03	2.03E-03	5.14E-03	5.17E-03	2025	5.14E-03	2025
593185.4_41519	593185.4	4151928	2.50E-03	6.34E-03	2.50E-03	6.31E-03	6.34E-03	2025	6.31E-03	2025
593205.4_41519	593205.4	4151928	3.13E-03	7.95E-03	3.13E-03	7.91E-03	7.95E-03	2025	7.91E-03	2025
593225.4_41519	593225.4	4151928	3.93E-03	9.99E-03	3.93E-03	9.94E-03	9.99E-03	2025	9.94E-03	2025
593245.4_41519	593245.4	4151928	4.92E-03	1.25E-02	4.92E-03	1.24E-02	1.25E-02	2025	1.24E-02	2025
593265.4_41519	593265.4	4151928	6.04E-03	1.53E-02	6.04E-03	1.53E-02	1.53E-02	2025	1.53E-02	2025
592945.4_41519	592945.4	4151948	7.20E-03	1.83E-02	7.20E-03	1.82E-02	1.83E-02	2025	1.82E-02	2025
592965.4_41519	592965.4	4151948	8.35E-03	2.12E-02	8.35E-03	2.11E-02	2.12E-02	2025	2.11E-02	2025
592985.4_41519	592985.4	4151948	9.40E-03	2.39E-02	9.40E-03	2.37E-02	2.39E-02	2025	2.37E-02	2025
593005.4_41519	593005.4	4151948	1.03E-02	2.60E-02	1.03E-02	2.59E-02	2.60E-02	2025	2.59E-02	2025
593025.4_41519	593025.4	4151948	1.09E-02	2.76E-02	1.09E-02	2.74E-02	2.76E-02	2025	2.74E-02	2025
593045.4_41519	593045.4	4151948	1.12E-02	2.84E-02	1.12E-02	2.83E-02	2.84E-02	2025	2.83E-02	2025
593065.4_41519	593065.4	4151948	1.13E-02	2.87E-02	1.13E-02	2.86E-02	2.87E-02	2025	2.86E-02	2025
593085.4_41519	593085.4	4151948	1.12E-02	2.84E-02	1.12E-02	2.83E-02	2.84E-02	2025	2.83E-02	2025
593105.4_41519	593105.4	4151948	1.09E-02	2.76E-02	1.09E-02	2.75E-02	2.76E-02	2025	2.75E-02	2025
593125.4_41519	593125.4	4151948	1.04E-02	2.64E-02	1.04E-02	2.63E-02	2.64E-02	2025	2.63E-02	2025
593145.4_41519	593145.4	4151948	9.87E-03	2.50E-02	9.87E-03	2.49E-02	2.50E-02	2025	2.49E-02	2025
593165.4_41519	593165.4	4151948	9.25E-03	2.35E-02	9.25E-03	2.34E-02	2.35E-02	2025	2.34E-02	2025

Particulate Matter concentration, $C_{PM2.5}$ (ug/m^3)

			Unmitigated		Mitigated		Unmitigated		Mitigated	
							$PM_{2.5}$ Concentration		$PM_{2.5}$ Concentration	
Lookup	X (UTM)	Y (UTM	2024	2025	2024	2025	Max	Max Year	Max	Max Year
593185.4_41519	593185.4	4151948	7.73E-04	1.97E-03	7.73E-04	1.96E-03	1.97E-03	2025	1.96E-03	2025
593205.4_41519	593205.4	4151948	8.00E-04	2.03E-03	8.00E-04	2.02E-03	2.03E-03	2025	2.02E-03	2025
593225.4_41519	593225.4	4151948	8.22E-04	2.09E-03	8.22E-04	2.08E-03	2.09E-03	2025	2.08E-03	2025
593245.4_41519	593245.4	4151948	8.51E-04	2.16E-03	8.51E-04	2.15E-03	2.16E-03	2025	2.15E-03	2025
593265.4_41519	593265.4	4151948	8.83E-04	2.25E-03	8.83E-04	2.23E-03	2.25E-03	2025	2.23E-03	2025
593285.4_41519	593285.4	4151948	9.17E-04	2.33E-03	9.17E-04	2.32E-03	2.33E-03	2025	2.32E-03	2025
592985.4_41519	592985.4	4151968	9.58E-04	2.44E-03	9.58E-04	2.43E-03	2.44E-03	2025	2.43E-03	2025
593005.4_41519	593005.4	4151968	1.00E-03	2.55E-03	1.00E-03	2.54E-03	2.55E-03	2025	2.54E-03	2025
593025.4_41519	593025.4	4151968	1.07E-03	2.73E-03	1.07E-03	2.71E-03	2.73E-03	2025	2.71E-03	2025
593045.4_41519	593045.4	4151968	1.14E-03	2.90E-03	1.14E-03	2.89E-03	2.90E-03	2025	2.89E-03	2025
593065.4_41519	593065.4	4151968	1.24E-03	3.15E-03	1.24E-03	3.13E-03	3.15E-03	2025	3.13E-03	2025
593085.4_41519	593085.4	4151968	1.37E-03	3.49E-03	1.37E-03	3.47E-03	3.49E-03	2025	3.47E-03	2025
593105.4_41519	593105.4	4151968	1.54E-03	3.92E-03	1.54E-03	3.90E-03	3.92E-03	2025	3.90E-03	2025
593125.4_41519	593125.4	4151968	1.77E-03	4.49E-03	1.77E-03	4.47E-03	4.49E-03	2025	4.47E-03	2025
593145.4_41519	593145.4	4151968	2.08E-03	5.29E-03	2.08E-03	5.27E-03	5.29E-03	2025	5.27E-03	2025
593165.4_41519	593165.4	4151968	2.52E-03	6.41E-03	2.52E-03	6.38E-03	6.41E-03	2025	6.38E-03	2025
593185.4_41519	593185.4	4151968	3.17E-03	8.06E-03	3.17E-03	8.02E-03	8.06E-03	2025	8.02E-03	2025
593205.4_41519	593205.4	4151968	4.07E-03	1.03E-02	4.07E-03	1.03E-02	1.03E-02	2025	1.03E-02	2025
593225.4_41519	593225.4	4151968	5.23E-03	1.33E-02	5.23E-03	1.32E-02	1.33E-02	2025	1.32E-02	2025
593245.4_41519	593245.4	4151968	6.66E-03	1.69E-02	6.66E-03	1.68E-02	1.69E-02	2025	1.68E-02	2025
593265.4_41519	593265.4	4151968	8.18E-03	2.08E-02	8.18E-03	2.07E-02	2.08E-02	2025	2.07E-02	2025
593285.4_41519	593285.4	4151968	9.75E-03	2.47E-02	9.75E-03	2.46E-02	2.47E-02	2025	2.46E-02	2025
593045.4_41519	593045.4	4151988	1.12E-02	2.85E-02	1.12E-02	2.83E-02	2.85E-02	2025	2.83E-02	2025
593065.4_41519	593065.4	4151988	1.24E-02	3.15E-02	1.24E-02	3.13E-02	3.15E-02	2025	3.13E-02	2025
593085.4_41519	593085.4	4151988	1.33E-02	3.36E-02	1.33E-02	3.35E-02	3.36E-02	2025	3.35E-02	2025
593105.4_41519	593105.4	4151988	1.38E-02	3.49E-02	1.38E-02	3.47E-02	3.49E-02	2025	3.47E-02	2025
593125.4_41519	593125.4	4151988	1.38E-02	3.51E-02	1.38E-02	3.50E-02	3.51E-02	2025	3.50E-02	2025
593145.4_41519	593145.4	4151988	1.36E-02	3.46E-02	1.36E-02	3.44E-02	3.46E-02	2025	3.44E-02	2025
593165.4_41519	593165.4	4151988	1.32E-02	3.34E-02	1.32E-02	3.33E-02	3.34E-02	2025	3.33E-02	2025
593185.4_41519	593185.4	4151988	1.25E-02	3.17E-02	1.25E-02	3.16E-02	3.17E-02	2025	3.16E-02	2025
593205.4_41519	593205.4	4151988	1.17E-02	2.97E-02	1.17E-02	2.96E-02	2.97E-02	2025	2.96E-02	2025
593225.4_41519	593225.4	4151988	1.08E-02	2.75E-02	1.08E-02	2.74E-02	2.75E-02	2025	2.74E-02	2025
593245.4_41519	593245.4	4151988	9.95E-03	2.53E-02	9.95E-03	2.51E-02	2.53E-02	2025	2.51E-02	2025
593265.4_41519	593265.4	4151988	9.03E-04	2.30E-03	9.03E-04	2.28E-03	2.30E-03	2025	2.28E-03	2025
593285.4_41519	593285.4	4151988	9.37E-04	2.38E-03	9.37E-04	2.37E-03	2.38E-03	2025	2.37E-03	2025
593125.4_41520	593125.4	4152008	9.72E-04	2.47E-03	9.72E-04	2.46E-03	2.47E-03	2025	2.46E-03	2025
593145.4_41520	593145.4	4152008	1.01E-03	2.57E-03	1.01E-03	2.56E-03	2.57E-03	2025	2.56E-03	2025
593165.4_41520	593165.4	4152008	1.05E-03	2.68E-03	1.05E-03	2.66E-03	2.68E-03	2025	2.66E-03	2025
593185.4_41520	593185.4	4152008	1.10E-03	2.79E-03	1.10E-03	2.77E-03	2.79E-03	2025	2.77E-03	2025
593205.4_41520	593205.4	4152008	1.14E-03	2.91E-03	1.14E-03	2.89E-03	2.91E-03	2025	2.89E-03	2025
593225.4_41520	593225.4	4152008	1.20E-03	3.06E-03	1.20E-03	3.04E-03	3.06E-03	2025	3.04E-03	2025
593245.4_41520	593245.4	4152008	1.29E-03	3.28E-03	1.29E-03	3.26E-03	3.28E-03	2025	3.26E-03	2025
593265.4_41520	593265.4	4152008	1.38E-03	3.52E-03	1.38E-03	3.50E-03	3.52E-03	2025	3.50E-03	2025
593285.4_41520	593285.4	4152008	1.49E-03	3.78E-03	1.49E-03	3.76E-03	3.78E-03	2025	3.76E-03	2025
593225.4_41520	593225.4	4152028	1.65E-03	4.20E-03	1.65E-03	4.18E-03	4.20E-03	2025	4.18E-03	2025
593245.4_41520	593245.4	4152028	1.87E-03	4.76E-03	1.87E-03	4.73E-03	4.76E-03	2025	4.73E-03	2025
593265.4_41520	593265.4	4152028	2.17E-03	5.51E-03	2.17E-03	5.48E-03	5.51E-03	2025	5.48E-03	2025
593285.4_41520	593285.4	4152028	2.59E-03	6.58E-03	2.59E-03	6.54E-03	6.58E-03	2025	6.54E-03	2025
592965.4_41521	592965.4	4152108	3.22E-03	8.18E-03	3.22E-03	8.14E-03	8.18E-03	2025	8.14E-03	2025
592985.4_41521	592985.4	4152108	4.18E-03	1.06E-02	4.18E-03	1.06E-02	1.06E-02	2025	1.06E-02	2025
592965.4_41521	592965.4	4152128	5.53E-03	1.41E-02	5.53E-03	1.40E-02	1.41E-02	2025	1.40E-02	2025
592965.4_41521	592965.4	4152148	7.27E-03	1.84E-02	7.27E-03	1.84E-02	1.84E-02	2025	1.84E-02	2025
592965.4_41521	592965.4	4152168	9.30E-03	2.36E-02	9.30E-03	2.35E-02	2.36E-02	2025	2.35E-02	2025

Particulate Matter concentration, $C_{PM2.5}$ (ug/m^3)

			Unmitigated		Mitigated	
Lookup	X (UTM)	Y (UTM	2024	2025	2024	2025

Unmitigated	
$PM_{2.5}$ Concentration	
Max	Max Year

Mitigated	
$PM_{2.5}$ Concentration	
Max	Max Year

Particulate Matter concentration, $C_{PM2.5}$ (ug/m^3)

			Unmitigated		Mitigated	
Lookup	X (UTM)	Y (UTM	2024	2025	2024	2025

Unmitigated	
$PM_{2.5}$ Concentration	
Max	Max Year

Mitigated	
$PM_{2.5}$ Concentration	
Max	Max Year

Particulate Matter concentration, $C_{PM2.5}$ (ug/m^3)

			Unmitigated		Mitigated		Unmitigated		Mitigated	
							$PM_{2.5}$ Concentration		$PM_{2.5}$ Concentration	
Lookup	X (UTM)	Y (UTM	2024	2025	2024	2025	Max	Max Year	Max	Max Year

Particulate Matter concentration, $C_{PM2.5}$ (ug/m^3)

			Unmitigated		Mitigated	
Lookup	X (UTM)	Y (UTM	2024	2025	2024	2025

Unmitigated	
$PM_{2.5}$ Concentration	
Max	Max Year

Mitigated	
$PM_{2.5}$ Concentration	
Max	Max Year

43990 Fremont
All Receptors - Construction Cancer Risk

Haul Truck Trip Lengths

	Haul	Vendor	
Trip Length	20	8.4	miles
	32187	13518	meters

Haul Truck Adjustment Factor to Model

Source	Haul	Vendor
Haul	0.02	0.05

Modeled Routes

	Haul	
Trip Length	618.3	meters

from AERMOD

			Days				Total Unmitigated DPM (tons)			Total Mitigated DPM (tons)		
Construction Year	Start Date	End Date	3rd Trimester	Age 0<2	Age 2<16	Calendar Days	Onsite Offroad	Haul Truck	Vendor Trips	Onsite Offroad	Haul Truck	Vendor Trips
2024	11/1/2024	12/31/2024	91	61.00	0.00	61	3.49E-02	2.31E-04	0.00E+00	3.49E-02	2.31E-04	0.00E+00
2025	1/1/2025	11/1/2025	0	305.00	0.00	305	5.69E-02	1.47E-04	3.29E-04	5.64E-02	1.47E-04	3.29E-04

			Total Unmitigated DPM (g/s)		Total Mitigated DPM (g/s)	
Construction Year	Start Date	End Date	CSTN	HAUL	CSTN	HAUL
2024	11/1/2024	12/31/2024	6.01E-03	7.63E-07	6.01E-03	7.63E-07
2025	1/1/2025	11/1/2025	1.96E-03	6.15E-07	1.94E-03	6.15E-07

Risk Factors

	Abbreviation	UOM	3rd Trimester	0<2	2<16
Daily Breathing Rate (95th %'ile)	DBR	L/kg-day	361	1090	572
Fraction Of Time At Home	FAH	unitless	1	1	0.72
Exposure Frequency	EF	days/year	0.96	0.96	0.96
Age Sensitivity Factor	ASF	unitless	10	10	3
Inhalation Absorption Factor	A	unitless	1	1	1
Conversion Factor	CF_1	m^3/L	0.001	0.001	0.001
Conversion Factor	CF_2	$\mu g/m^3$	0.001	0.001	0.001
Cancer Potency Factor (diesel exha	CPF	$mg/kg\text{-}day^{-1}$	1.1	1.1	1.1
Averaging Time (for residential exp	AT	years	70.00	70.00	70.00

Intake Factor for Inhalation, IF (m^3/kg-day)

	Year	Equation	3rd Trimester	0<2	2<16
Construction	2024	DBR*FAH*EF *ED*ASF*A* CF/AT	0.012	0.025	0.000
	2025		0.000	0.125	0.000

Risk Calculation Part 1, R1

Year		3rd Trimester	0<2	2<16
2024	IF*CPF*CF	1.36E-05	2.74E-05	0.00E+00
2025		0.00E+00	1.37E-04	0.00E+00

MAX	Cancer Risk	UTM X	UTM Y
Unmitigated	3.53	592925.4	4152388
Mitigated	3.52	592925.4	4152388

Diesel Particulate Matter concentration, C_{DPM} (ug/m^3)

			Unmitigated		Mitigated	
Lookup	X (UTM)	Y (UTM	2024	2025	2024	2025
592585.4_41521	592585.4	4152188	2.95E-03	9.59E-04	2.95E-03	9.51E-04
592585.4_41522	592585.4	4152208	3.19E-03	1.04E-03	3.19E-03	1.03E-03
592605.4_41522	592605.4	4152208	3.49E-03	1.14E-03	3.49E-03	1.13E-03
592625.4_41522	592625.4	4152208	3.87E-03	1.26E-03	3.87E-03	1.25E-03
592645.4_41522	592645.4	4152208	4.32E-03	1.41E-03	4.32E-03	1.40E-03
592605.4_41522	592605.4	4152228	4.90E-03	1.60E-03	4.90E-03	1.58E-03
592625.4_41522	592625.4	4152228	5.59E-03	1.82E-03	5.59E-03	1.81E-03
592645.4_41522	592645.4	4152228	6.41E-03	2.09E-03	6.41E-03	2.07E-03
592605.4_41522	592605.4	4152248	7.33E-03	2.39E-03	7.33E-03	2.37E-03
592625.4_41522	592625.4	4152248	2.61E-03	8.52E-04	2.61E-03	8.44E-04
592705.4_41522	592705.4	4152248	2.79E-03	9.10E-04	2.79E-03	9.02E-04
592725.4_41522	592725.4	4152248	3.00E-03	9.76E-04	3.00E-03	9.68E-04
592745.4_41522	592745.4	4152248	3.25E-03	1.06E-03	3.25E-03	1.05E-03
592765.4_41522	592765.4	4152248	3.54E-03	1.15E-03	3.54E-03	1.14E-03
592785.4_41522	592785.4	4152248	3.88E-03	1.26E-03	3.88E-03	1.25E-03
592705.4_41522	592705.4	4152268	4.31E-03	1.40E-03	4.31E-03	1.39E-03
592725.4_41522	592725.4	4152268	4.85E-03	1.58E-03	4.85E-03	1.57E-03
592745.4_41522	592745.4	4152268	5.52E-03	1.80E-03	5.52E-03	1.78E-03
592765.4_41522	592765.4	4152268	6.36E-03	2.07E-03	6.36E-03	2.05E-03
592785.4_41522	592785.4	4152268	7.35E-03	2.39E-03	7.35E-03	2.37E-03
592805.4_41522	592805.4	4152268	8.48E-03	2.76E-03	8.48E-03	2.74E-03
592825.4_41522	592825.4	4152268	9.79E-03	3.19E-03	9.79E-03	3.16E-03
592845.4_41522	592845.4	4152268	1.12E-02	3.66E-03	1.12E-02	3.63E-03
592865.4_41522	592865.4	4152268	1.27E-02	4.14E-03	1.27E-02	4.11E-03
592685.4_41522	592685.4	4152288	2.56E-03	8.35E-04	2.56E-03	8.28E-04
592705.4_41522	592705.4	4152288	2.70E-03	8.80E-04	2.70E-03	8.73E-04
592725.4_41522	592725.4	4152288	2.87E-03	9.35E-04	2.87E-03	9.27E-04
592745.4_41522	592745.4	4152288	3.07E-03	1.00E-03	3.07E-03	9.93E-04
592765.4_41522	592765.4	4152288	3.31E-03	1.08E-03	3.31E-03	1.07E-03
592785.4_41522	592785.4	4152288	3.60E-03	1.17E-03	3.60E-03	1.16E-03
592805.4_41522	592805.4	4152288	3.94E-03	1.28E-03	3.94E-03	1.27E-03
592825.4_41522	592825.4	4152288	4.35E-03	1.42E-03	4.35E-03	1.41E-03
592845.4_41522	592845.4	4152288	4.86E-03	1.58E-03	4.86E-03	1.57E-03
592865.4_41522	592865.4	4152288	5.51E-03	1.79E-03	5.51E-03	1.78E-03
592885.4_41522	592885.4	4152288	6.33E-03	2.06E-03	6.33E-03	2.04E-03
592905.4_41522	592905.4	4152288	7.35E-03	2.39E-03	7.35E-03	2.37E-03
592925.4_41522	592925.4	4152288	8.55E-03	2.78E-03	8.55E-03	2.76E-03
592945.4_41522	592945.4	4152288	9.93E-03	3.23E-03	9.93E-03	3.21E-03
592965.4_41522	592965.4	4152288	1.15E-02	3.74E-03	1.15E-02	3.71E-03
592685.4_41523	592685.4	4152308	1.32E-02	4.30E-03	1.32E-02	4.27E-03
592705.4_41523	592705.4	4152308	1.49E-02	4.86E-03	1.49E-02	4.82E-03
592725.4_41523	592725.4	4152308	1.67E-02	5.45E-03	1.67E-02	5.40E-03
592745.4_41523	592745.4	4152308	1.87E-02	6.07E-03	1.87E-02	6.02E-03
592765.4_41523	592765.4	4152308	2.68E-03	8.73E-04	2.68E-03	8.66E-04
592785.4_41523	592785.4	4152308	2.82E-03	9.19E-04	2.82E-03	9.11E-04
592805.4_41523	592805.4	4152308	2.98E-03	9.70E-04	2.98E-03	9.62E-04
592825.4_41523	592825.4	4152308	3.18E-03	1.03E-03	3.18E-03	1.03E-03
592845.4_41523	592845.4	4152308	3.41E-03	1.11E-03	3.41E-03	1.10E-03
592865.4_41523	592865.4	4152308	3.69E-03	1.20E-03	3.69E-03	1.19E-03
592885.4_41523	592885.4	4152308	4.02E-03	1.31E-03	4.02E-03	1.30E-03
592905.4_41523	592905.4	4152308	4.42E-03	1.44E-03	4.42E-03	1.43E-03
592925.4_41523	592925.4	4152308	4.91E-03	1.60E-03	4.91E-03	1.59E-03
592945.4_41523	592945.4	4152308	5.53E-03	1.80E-03	5.53E-03	1.79E-03
592965.4_41523	592965.4	4152308	6.32E-03	2.06E-03	6.32E-03	2.04E-03
592985.4_41523	592985.4	4152308	7.34E-03	2.39E-03	7.34E-03	2.37E-03
593005.4_41523	593005.4	4152308	8.61E-03	2.80E-03	8.61E-03	2.78E-03
592685.4_41523	592685.4	4152328	1.01E-02	3.28E-03	1.01E-02	3.26E-03
592705.4_41523	592705.4	4152328	1.18E-02	3.85E-03	1.18E-02	3.82E-03
592725.4_41523	592725.4	4152328	1.38E-02	4.49E-03	1.38E-02	4.45E-03
592745.4_41523	592745.4	4152328	1.58E-02	5.16E-03	1.58E-02	5.11E-03
592765.4_41523	592765.4	4152328	1.80E-02	5.84E-03	1.80E-02	5.80E-03
592785.4_41523	592785.4	4152328	2.02E-02	6.58E-03	2.02E-02	6.52E-03
592805.4_41523	592805.4	4152328	2.25E-02	7.34E-03	2.25E-02	7.27E-03
592825.4_41523	592825.4	4152328	2.47E-02	8.05E-03	2.47E-02	7.98E-03
592845.4_41523	592845.4	4152328	2.65E-02	8.63E-03	2.65E-02	8.56E-03
592865.4_41523	592865.4	4152328	2.84E-03	9.24E-04	2.84E-03	9.17E-04
592885.4_41523	592885.4	4152328	2.98E-03	9.70E-04	2.98E-03	9.62E-04
592905.4_41523	592905.4	4152328	3.14E-03	1.02E-03	3.14E-03	1.01E-03
592925.4_41523	592925.4	4152328	3.31E-03	1.08E-03	3.31E-03	1.07E-03
592945.4_41523	592945.4	4152328	3.53E-03	1.15E-03	3.53E-03	1.14E-03

Unmitigated Cancer Risk, Risk Calculation Part 2

	$\sum R1*C_{DPM}$			
	3rd Trimester	0<2	2<16	Total
592585.4_41521	3.99E-08	2.13E-07	0.00E+00	0.25
592585.4_41522	4.33E-08	2.30E-07	0.00E+00	0.27
592605.4_41522	4.73E-08	2.52E-07	0.00E+00	0.30
592625.4_41522	5.24E-08	2.79E-07	0.00E+00	0.33
592645.4_41522	5.86E-08	3.12E-07	0.00E+00	0.37
592605.4_41522	6.65E-08	3.54E-07	0.00E+00	0.42
592625.4_41522	7.58E-08	4.03E-07	0.00E+00	0.48
592645.4_41522	8.69E-08	4.62E-07	0.00E+00	0.55
592605.4_41522	9.95E-08	5.29E-07	0.00E+00	0.63
592625.4_41522	3.55E-08	1.89E-07	0.00E+00	0.22
592705.4_41522	3.79E-08	2.01E-07	0.00E+00	0.24
592725.4_41522	4.07E-08	2.16E-07	0.00E+00	0.26
592745.4_41522	4.40E-08	2.34E-07	0.00E+00	0.28
592765.4_41522	4.80E-08	2.55E-07	0.00E+00	0.30
592785.4_41522	5.27E-08	2.80E-07	0.00E+00	0.33
592705.4_41522	5.85E-08	3.11E-07	0.00E+00	0.37
592725.4_41522	6.57E-08	3.50E-07	0.00E+00	0.42
592745.4_41522	7.49E-08	3.98E-07	0.00E+00	0.47
592765.4_41522	8.63E-08	4.59E-07	0.00E+00	0.55
592785.4_41522	9.97E-08	5.30E-07	0.00E+00	0.63
592805.4_41522	1.15E-07	6.12E-07	0.00E+00	0.73
592825.4_41522	1.33E-07	7.07E-07	0.00E+00	0.84
592845.4_41522	1.52E-07	8.11E-07	0.00E+00	0.96
592865.4_41522	1.73E-07	9.18E-07	0.00E+00	1.09
592685.4_41522	3.48E-08	1.85E-07	0.00E+00	0.22
592705.4_41522	3.67E-08	1.95E-07	0.00E+00	0.23
592725.4_41522	3.89E-08	2.07E-07	0.00E+00	0.25
592745.4_41522	4.17E-08	2.22E-07	0.00E+00	0.26
592765.4_41522	4.49E-08	2.39E-07	0.00E+00	0.28
592785.4_41522	4.88E-08	2.60E-07	0.00E+00	0.31
592805.4_41522	5.35E-08	2.84E-07	0.00E+00	0.34
592825.4_41522	5.90E-08	3.14E-07	0.00E+00	0.37
592845.4_41522	6.59E-08	3.51E-07	0.00E+00	0.42
592865.4_41522	7.47E-08	3.97E-07	0.00E+00	0.47
592885.4_41522	8.59E-08	4.57E-07	0.00E+00	0.54
592905.4_41522	9.97E-08	5.30E-07	0.00E+00	0.63
592925.4_41522	1.16E-07	6.17E-07	0.00E+00	0.73
592945.4_41522	1.35E-07	7.16E-07	0.00E+00	0.85
592965.4_41522	1.56E-07	8.29E-07	0.00E+00	0.99
592685.4_41523	1.79E-07	9.53E-07	0.00E+00	1.13
592705.4_41523	2.02E-07	1.08E-06	0.00E+00	1.28
592725.4_41523	2.27E-07	1.21E-06	0.00E+00	1.43
592745.4_41523	2.53E-07	1.35E-06	0.00E+00	1.60
592765.4_41523	3.64E-08	1.94E-07	0.00E+00	0.23
592785.4_41523	3.83E-08	2.04E-07	0.00E+00	0.24
592805.4_41523	4.04E-08	2.15E-07	0.00E+00	0.26
592825.4_41523	4.31E-08	2.29E-07	0.00E+00	0.27
592845.4_41523	4.63E-08	2.46E-07	0.00E+00	0.29
592865.4_41523	5.00E-08	2.66E-07	0.00E+00	0.32
592885.4_41523	5.45E-08	2.90E-07	0.00E+00	0.34
592905.4_41523	6.00E-08	3.19E-07	0.00E+00	0.38
592925.4_41523	6.67E-08	3.55E-07	0.00E+00	0.42
592945.4_41523	7.50E-08	3.99E-07	0.00E+00	0.47
592965.4_41523	8.57E-08	4.56E-07	0.00E+00	0.54
592985.4_41523	9.95E-08	5.29E-07	0.00E+00	0.63
593005.4_41523	1.17E-07	6.21E-07	0.00E+00	0.74
592685.4_41523	1.37E-07	7.27E-07	0.00E+00	0.86
592705.4_41523	1.60E-07	8.53E-07	0.00E+00	1.01
592725.4_41523	1.87E-07	9.94E-07	0.00E+00	1.18
592745.4_41523	2.15E-07	1.14E-06	0.00E+00	1.36
592765.4_41523	2.43E-07	1.29E-06	0.00E+00	1.54
592785.4_41523	2.74E-07	1.46E-06	0.00E+00	1.73
592805.4_41523	3.06E-07	1.63E-06	0.00E+00	1.93
592825.4_41523	3.35E-07	1.78E-06	0.00E+00	2.12
592845.4_41523	3.60E-07	1.91E-06	0.00E+00	2.27
592865.4_41523	3.85E-08	2.05E-07	0.00E+00	0.24
592885.4_41523	4.04E-08	2.15E-07	0.00E+00	0.26
592905.4_41523	4.26E-08	2.27E-07	0.00E+00	0.27
592925.4_41523	4.48E-08	2.39E-07	0.00E+00	0.28
592945.4_41523	4.79E-08	2.55E-07	0.00E+00	0.30

Mitigated Cancer Risk, Risk Calculation Part 2

	$\sum R1*C_{DPM}$			
	3rd Trimester	0<2	2<16	Total
592585.4_41521	3.99E-08	2.11E-07	0.00E+00	0.25
592585.4_41522	4.33E-08	2.29E-07	0.00E+00	0.27
592605.4_41522	4.73E-08	2.50E-07	0.00E+00	0.30
592625.4_41522	5.24E-08	2.78E-07	0.00E+00	0.33
592645.4_41522	5.86E-08	3.10E-07	0.00E+00	0.37
592605.4_41522	6.65E-08	3.52E-07	0.00E+00	0.42
592625.4_41522	7.58E-08	4.01E-07	0.00E+00	0.48
592645.4_41522	8.69E-08	4.60E-07	0.00E+00	0.55
592605.4_41522	9.95E-08	5.26E-07	0.00E+00	0.63
592625.4_41522	3.55E-08	1.88E-07	0.00E+00	0.22
592705.4_41522	3.79E-08	2.00E-07	0.00E+00	0.24
592725.4_41522	4.07E-08	2.15E-07	0.00E+00	0.26
592745.4_41522	4.40E-08	2.33E-07	0.00E+00	0.28
592765.4_41522	4.80E-08	2.54E-07	0.00E+00	0.30
592785.4_41522	5.27E-08	2.79E-07	0.00E+00	0.33
592705.4_41522	5.85E-08	3.10E-07	0.00E+00	0.37
592725.4_41522	6.57E-08	3.48E-07	0.00E+00	0.41
592745.4_41522	7.49E-08	3.96E-07	0.00E+00	0.47
592765.4_41522	8.63E-08	4.56E-07	0.00E+00	0.54
592785.4_41522	9.97E-08	5.28E-07	0.00E+00	0.63
592805.4_41522	1.15E-07	6.09E-07	0.00E+00	0.72
592825.4_41522	1.33E-07	7.03E-07	0.00E+00	0.84
592845.4_41522	1.52E-07	8.06E-07	0.00E+00	0.96
592865.4_41522	1.73E-07	9.13E-07	0.00E+00	1.09
592685.4_41522	3.48E-08	1.84E-07	0.00E+00	0.22
592705.4_41522	3.67E-08	1.94E-07	0.00E+00	0.23
592725.4_41522	3.89E-08	2.06E-07	0.00E+00	0.25
592745.4_41522	4.17E-08	2.21E-07	0.00E+00	0.26
592765.4_41522	4.49E-08	2.38E-07	0.00E+00	0.28
592785.4_41522	4.88E-08	2.58E-07	0.00E+00	0.31
592805.4_41522	5.35E-08	2.83E-07	0.00E+00	0.34
592825.4_41522	5.90E-08	3.12E-07	0.00E+00	0.37
592845.4_41522	6.59E-08	3.49E-07	0.00E+00	0.41
592865.4_41522	7.47E-08	3.95E-07	0.00E+00	0.47
592885.4_41522	8.59E-08	4.54E-07	0.00E+00	0.54
592905.4_41522	9.97E-08	5.27E-07	0.00E+00	0.63
592925.4_41522	1.16E-07	6.14E-07	0.00E+00	0.73
592945.4_41522	1.35E-07	7.12E-07	0.00E+00	0.85
592965.4_41522	1.56E-07	8.25E-07	0.00E+00	0.98
592685.4_41523	1.79E-07	9.48E-07	0.00E+00	1.13
592705.4_41523	2.02E-07	1.07E-06	0.00E+00	1.27
592725.4_41523	2.27E-07	1.20E-06	0.00E+00	1.43
592745.4_41523	2.53E-07	1.34E-06	0.00E+00	1.59
592765.4_41523	3.64E-08	1.93E-07	0.00E+00	0.23
592785.4_41523	3.83E-08	2.02E-07	0.00E+00	0.24
592805.4_41523	4.04E-08	2.14E-07	0.00E+00	0.25
592825.4_41523	4.31E-08	2.28E-07	0.00E+00	0.27
592845.4_41523	4.63E-08	2.45E-07	0.00E+00	0.29
592865.4_41523	5.00E-08	2.65E-07	0.00E+00	0.31
592885.4_41523	5.45E-08	2.89E-07	0.00E+00	0.34
592905.4_41523	6.00E-08	3.17E-07	0.00E+00	0.38
592925.4_41523	6.67E-08	3.53E-07	0.00E+00	0.42
592945.4_41523	7.50E-08	3.97E-07	0.00E+00	0.47
592965.4_41523	8.57E-08	4.54E-07	0.00E+00	0.54
592985.4_41523	9.95E-08	5.27E-07	0.00E+00	0.63
593005.4_41523	1.17E-07	6.18E-07	0.00E+00	0.73
592685.4_41523	1.37E-07	7.24E-07	0.00E+00	0.86
592705.4_41523	1.60E-07	8.49E-07	0.00E+00	1.01
592725.4_41523	1.87E-07	9.89E-07	0.00E+00	1.18
592745.4_41523	2.15E-07	1.14E-06	0.00E+00	1.35
592765.4_41523	2.43E-07	1.29E-06	0.00E+00	1.53
592785.4_41523	2.74E-07	1.45E-06	0.00E+00	1.72
592805.4_41523	3.06E-07	1.62E-06	0.00E+00	1.92
592825.4_41523	3.35E-07	1.77E-06	0.00E+00	2.11
592845.4_41523	3.60E-07	1.90E-06	0.00E+00	2.26
592865.4_41523	3.85E-08	2.04E-07	0.00E+00	0.24
592885.4_41523	4.04E-08	2.14E-07	0.00E+00	0.25
592905.4_41523	4.26E-08	2.25E-07	0.00E+00	0.27
592925.4_41523	4.48E-08	2.37E-07	0.00E+00	0.28
592945.4_41523	4.79E-08	2.54E-07	0.00E+00	0.30

Diesel Particulate Matter concentration, C_{DPM} (ug/m^3)

			Unmitigated		Mitigated	
Lookup	X (UTM)	Y (UTM	2024	2025	2024	2025
592965.4_41523	592965.4	4152328	3.81E-03	1.24E-03	3.81E-03	1.23E-03
592985.4_41523	592985.4	4152328	4.13E-03	1.34E-03	4.13E-03	1.33E-03
593005.4_41523	593005.4	4152328	4.52E-03	1.47E-03	4.52E-03	1.46E-03
593025.4_41523	593025.4	4152328	4.99E-03	1.63E-03	4.99E-03	1.61E-03
593045.4_41523	593045.4	4152328	5.58E-03	1.82E-03	5.58E-03	1.80E-03
592725.4_41523	592725.4	4152348	6.30E-03	2.05E-03	6.30E-03	2.04E-03
592745.4_41523	592745.4	4152348	7.32E-03	2.38E-03	7.32E-03	2.36E-03
592765.4_41523	592765.4	4152348	8.59E-03	2.80E-03	8.59E-03	2.77E-03
592785.4_41523	592785.4	4152348	1.01E-02	3.30E-03	1.01E-02	3.28E-03
592805.4_41523	592805.4	4152348	1.20E-02	3.92E-03	1.20E-02	3.89E-03
592825.4_41523	592825.4	4152348	1.43E-02	4.65E-03	1.43E-02	4.61E-03
592845.4_41523	592845.4	4152348	1.67E-02	5.44E-03	1.67E-02	5.39E-03
592865.4_41523	592865.4	4152348	1.93E-02	6.27E-03	1.93E-02	6.22E-03
592885.4_41523	592885.4	4152348	2.20E-02	7.16E-03	2.20E-02	7.10E-03
592905.4_41523	592905.4	4152348	2.47E-02	8.04E-03	2.47E-02	7.97E-03
592925.4_41523	592925.4	4152348	2.73E-02	8.90E-03	2.73E-02	8.82E-03
592945.4_41523	592945.4	4152348	2.97E-02	9.68E-03	2.97E-02	9.60E-03
592965.4_41523	592965.4	4152348	3.18E-02	1.04E-02	3.18E-02	1.03E-02
592985.4_41523	592985.4	4152348	3.36E-02	1.10E-02	3.36E-02	1.09E-02
593005.4_41523	593005.4	4152348	2.94E-03	9.58E-04	2.94E-03	9.50E-04
593025.4_41523	593025.4	4152348	3.04E-03	9.91E-04	3.04E-03	9.83E-04
593045.4_41523	593045.4	4152348	3.16E-03	1.03E-03	3.16E-03	1.02E-03
593065.4_41523	593065.4	4152348	3.31E-03	1.08E-03	3.31E-03	1.07E-03
593085.4_41523	593085.4	4152348	3.51E-03	1.14E-03	3.51E-03	1.13E-03
592765.4_41523	592765.4	4152368	3.70E-03	1.20E-03	3.70E-03	1.19E-03
592785.4_41523	592785.4	4152368	3.95E-03	1.29E-03	3.95E-03	1.28E-03
592805.4_41523	592805.4	4152368	4.27E-03	1.39E-03	4.27E-03	1.38E-03
592825.4_41523	592825.4	4152368	4.64E-03	1.51E-03	4.64E-03	1.50E-03
592845.4_41523	592845.4	4152368	5.11E-03	1.67E-03	5.11E-03	1.65E-03
592865.4_41523	592865.4	4152368	5.69E-03	1.85E-03	5.69E-03	1.84E-03
592885.4_41523	592885.4	4152368	6.42E-03	2.09E-03	6.42E-03	2.07E-03
592905.4_41523	592905.4	4152368	7.33E-03	2.39E-03	7.33E-03	2.37E-03
592925.4_41523	592925.4	4152368	8.58E-03	2.79E-03	8.58E-03	2.77E-03
592945.4_41523	592945.4	4152368	1.02E-02	3.34E-03	1.02E-02	3.31E-03
592965.4_41523	592965.4	4152368	1.22E-02	3.97E-03	1.22E-02	3.94E-03
592985.4_41523	592985.4	4152368	1.46E-02	4.77E-03	1.46E-02	4.73E-03
593005.4_41523	593005.4	4152368	1.75E-02	5.68E-03	1.75E-02	5.64E-03
593025.4_41523	593025.4	4152368	2.06E-02	6.70E-03	2.06E-02	6.64E-03
593045.4_41523	593045.4	4152368	2.39E-02	7.78E-03	2.39E-02	7.72E-03
593065.4_41523	593065.4	4152368	2.73E-02	8.88E-03	2.73E-02	8.81E-03
592825.4_41523	592825.4	4152388	3.05E-02	9.95E-03	3.05E-02	9.86E-03
592845.4_41523	592845.4	4152388	3.36E-02	1.09E-02	3.36E-02	1.09E-02
592865.4_41523	592865.4	4152388	3.63E-02	1.18E-02	3.63E-02	1.17E-02
592885.4_41523	592885.4	4152388	3.85E-02	1.25E-02	3.85E-02	1.24E-02
592905.4_41523	592905.4	4152388	4.01E-02	1.31E-02	4.01E-02	1.30E-02
592925.4_41523	592925.4	4152388	4.12E-02	1.34E-02	4.12E-02	1.33E-02
592945.4_41523	592945.4	4152388	3.24E-03	1.05E-03	3.24E-03	1.05E-03
592965.4_41523	592965.4	4152388	3.32E-03	1.08E-03	3.32E-03	1.07E-03
592985.4_41523	592985.4	4152388	3.43E-03	1.12E-03	3.43E-03	1.11E-03
593005.4_41523	593005.4	4152388	3.57E-03	1.16E-03	3.57E-03	1.15E-03

Unmitigated Cancer Risk, Risk Calculation Part 2

	$\sum R1*C_{DPM}$			
3rd Trimester	0<2	2<16	Total
5.16E-08	2.75E-07	0.00E+00	0.33
5.60E-08	2.98E-07	0.00E+00	0.35
6.13E-08	3.26E-07	0.00E+00	0.39
6.77E-08	3.60E-07	0.00E+00	0.43
7.57E-08	4.02E-07	0.00E+00	0.48
8.55E-08	4.55E-07	0.00E+00	0.54
9.92E-08	5.28E-07	0.00E+00	0.63
1.17E-07	6.20E-07	0.00E+00	0.74
1.38E-07	7.32E-07	0.00E+00	0.87
1.63E-07	8.68E-07	0.00E+00	1.03
1.94E-07	1.03E-06	0.00E+00	1.22
2.26E-07	1.20E-06	0.00E+00	1.43
2.61E-07	1.39E-06	0.00E+00	1.65
2.98E-07	1.59E-06	0.00E+00	1.88
3.35E-07	1.78E-06	0.00E+00	2.12
3.71E-07	1.97E-06	0.00E+00	2.34
4.03E-07	2.14E-06	0.00E+00	2.55
4.32E-07	2.30E-06	0.00E+00	2.73
4.56E-07	2.43E-06	0.00E+00	2.88
3.99E-08	2.12E-07	0.00E+00	0.25
4.13E-08	2.20E-07	0.00E+00	0.26
4.29E-08	2.28E-07	0.00E+00	0.27
4.49E-08	2.39E-07	0.00E+00	0.28
4.76E-08	2.53E-07	0.00E+00	0.30
5.02E-08	2.67E-07	0.00E+00	0.32
5.36E-08	2.85E-07	0.00E+00	0.34
5.78E-08	3.08E-07	0.00E+00	0.37
6.29E-08	3.34E-07	0.00E+00	0.40
6.94E-08	3.69E-07	0.00E+00	0.44
7.71E-08	4.10E-07	0.00E+00	0.49
8.70E-08	4.63E-07	0.00E+00	0.55
9.94E-08	5.29E-07	0.00E+00	0.63
1.16E-07	6.19E-07	0.00E+00	0.74
1.39E-07	7.39E-07	0.00E+00	0.88
1.65E-07	8.80E-07	0.00E+00	1.05
1.99E-07	1.06E-06	0.00E+00	1.25
2.37E-07	1.26E-06	0.00E+00	1.50
2.79E-07	1.48E-06	0.00E+00	1.76
3.24E-07	1.72E-06	0.00E+00	2.05
3.70E-07	1.97E-06	0.00E+00	2.34
4.14E-07	2.20E-06	0.00E+00	2.62
4.56E-07	2.43E-06	0.00E+00	2.88
4.93E-07	2.62E-06	0.00E+00	3.11
5.22E-07	2.78E-06	0.00E+00	3.30
5.44E-07	2.90E-06	0.00E+00	3.44
5.59E-07	2.97E-06	0.00E+00	3.53
4.39E-08	2.34E-07	0.00E+00	0.28
4.51E-08	2.40E-07	0.00E+00	0.28
4.66E-08	2.48E-07	0.00E+00	0.29
4.84E-08	2.57E-07	0.00E+00	0.31

Mitigated Cancer Risk, Risk Calculation Part 2

	$\sum R1*C_{DPM}$		
3rd Trimester	0<2	2<16	Total
5.16E-08	2.73E-07	0.00E+00	0.32
5.60E-08	2.96E-07	0.00E+00	0.35
6.13E-08	3.25E-07	0.00E+00	0.39
6.77E-08	3.58E-07	0.00E+00	0.43
7.57E-08	4.00E-07	0.00E+00	0.48
8.55E-08	4.52E-07	0.00E+00	0.54
9.92E-08	5.25E-07	0.00E+00	0.62
1.17E-07	6.17E-07	0.00E+00	0.73
1.38E-07	7.28E-07	0.00E+00	0.87
1.63E-07	8.64E-07	0.00E+00	1.03
1.94E-07	1.02E-06	0.00E+00	1.22
2.26E-07	1.20E-06	0.00E+00	1.42
2.61E-07	1.38E-06	0.00E+00	1.64
2.98E-07	1.58E-06	0.00E+00	1.88
3.35E-07	1.77E-06	0.00E+00	2.11
3.71E-07	1.96E-06	0.00E+00	2.33
4.03E-07	2.13E-06	0.00E+00	2.54
4.32E-07	2.29E-06	0.00E+00	2.72
4.56E-07	2.41E-06	0.00E+00	2.87
3.99E-08	2.11E-07	0.00E+00	0.25
4.13E-08	2.18E-07	0.00E+00	0.26
4.29E-08	2.27E-07	0.00E+00	0.27
4.49E-08	2.38E-07	0.00E+00	0.28
4.76E-08	2.52E-07	0.00E+00	0.30
5.02E-08	2.66E-07	0.00E+00	0.32
5.36E-08	2.84E-07	0.00E+00	0.34
5.78E-08	3.06E-07	0.00E+00	0.36
6.29E-08	3.33E-07	0.00E+00	0.40
6.94E-08	3.67E-07	0.00E+00	0.44
7.71E-08	4.08E-07	0.00E+00	0.49
8.70E-08	4.61E-07	0.00E+00	0.55
9.94E-08	5.26E-07	0.00E+00	0.63
1.16E-07	6.16E-07	0.00E+00	0.73
1.39E-07	7.35E-07	0.00E+00	0.87
1.65E-07	8.76E-07	0.00E+00	1.04
1.99E-07	1.05E-06	0.00E+00	1.25
2.37E-07	1.25E-06	0.00E+00	1.49
2.79E-07	1.48E-06	0.00E+00	1.75
3.24E-07	1.71E-06	0.00E+00	2.04
3.70E-07	1.96E-06	0.00E+00	2.33
4.14E-07	2.19E-06	0.00E+00	2.61
4.56E-07	2.41E-06	0.00E+00	2.87
4.93E-07	2.61E-06	0.00E+00	3.10
5.22E-07	2.76E-06	0.00E+00	3.29
5.44E-07	2.88E-06	0.00E+00	3.42
5.59E-07	2.96E-06	0.00E+00	3.52
4.39E-08	2.32E-07	0.00E+00	0.28
4.51E-08	2.38E-07	0.00E+00	0.28
4.66E-08	2.46E-07	0.00E+00	0.29
4.84E-08	2.56E-07	0.00E+00	0.30

Diesel Particulate Matter concentration, C_{DPM} (ug/m^3)

			Unmitigated		Mitigated	
Lookup	X (UTM)	Y (UTM	2024	2025	2024	2025

Unmitigated Cancer Risk, Risk Calculation Part 2

$\sum$R1*C_{DPM}			
3rd Trimester	0<2	2<16	Total

Mitigated Cancer Risk, Risk Calculation Part 2

$\sum$R1*C_{DPM}			
3rd Trimester	0<2	2<16	Total

Diesel Particulate Matter concentration, C_{DPM} (ug/m^3)

			Unmitigated		Mitigated	
Lookup	X (UTM)	Y (UTM	2024	2025	2024	2025

Unmitigated Cancer Risk, Risk Calculation Part 2

$\sum$R1*C_{DPM}			
3rd Trimester	0<2	2<16	Total

Mitigated Cancer Risk, Risk Calculation Part 2

$\sum$R1*C_{DPM}			
3rd Trimester	0<2	2<16	Total

Diesel Particulate Matter concentration, C_{DPM} (ug/m^3)

			Unmitigated		Mitigated	
Lookup	X (UTM)	Y (UTM	2024	2025	2024	2025

Unmitigated Cancer Risk, Risk Calculation Part 2

$\sum$R1*C_{DPM}			
3rd Trimester	0<2	2<16	Total

Mitigated Cancer Risk, Risk Calculation Part 2

$\sum$R1*C_{DPM}			
3rd Trimester	0<2	2<16	Total

Diesel Particulate Matter concentration, C_{DPM} (ug/m^3)

			Unmitigated		Mitigated	
Lookup	X (UTM)	Y (UTM	2024	2025	2024	2025

Unmitigated Cancer Risk, Risk Calculation Part 2

$\sum R1*C_{DPM}$			
3rd Trimester	0<2	2<16	Total

Mitigated Cancer Risk, Risk Calculation Part 2

$\sum R1*C_{DPM}$			
3rd Trimester	0<2	2<16	Total

Diesel Particulate Matter concentration, C_{DPM} (ug/m^3)

			Unmitigated		Mitigated	
Lookup	X (UTM)	Y (UTM	2024	2025	2024	2025

Unmitigated Cancer Risk, Risk Calculation Part 2

$\sum$R1*C_{DPM}			
3rd Trimester	0<2	2<16	Total

Mitigated Cancer Risk, Risk Calculation Part 2

$\sum$R1*C_{DPM}			
3rd Trimester	0<2	2<16	Total

43990 Fremont
All Receptors - Construction Hazard Index Risk

Haul Truck Trip Lengths

	Haul	Vendor	
Trip Length	20	8.4	miles
	32187	13518	meters

Haul Truck Adjustment Factor to Model

Source	Haul	Vendor
Haul	0.02	0.05

Modeled Routes

	Haul
Trip Length	618.3 meters

from AERMOD

0.000492283

			Days				Total Unmitigated DPM (tons)			Total Mitigated DPM (tons)		
Construction Year	Start Date	End Date	3rd Trimester	Age 0<2	Age 2<16	Calendar Days	Onsite Offroad	Haul Truck	Vendor Trips	Onsite Offroad	Haul Truck	Vendor Trips
2024	11/1/2024	12/31/2024	91	274.00	0.00	365	3.49E-02	2.31E-04	0.00E+00	3.49E-02	2.31E-04	0.00E+00
2025	1/1/2025	11/1/2025	0	365.00	0.00	365	5.69E-02	1.47E-04	3.29E-04	5.64E-02	1.47E-04	3.29E-04

			Total Unmitigated DPM (g/s)		Total Mitigated DPM (g/s)	
Construction Year	Start Date	End Date	CSTN	HAUL	CSTN	HAUL
2024	11/1/2024	12/31/2024	1.01E-03	1.27E-07	1.01E-03	1.27E-07
2025	1/1/2025	11/1/2025	1.64E-03	5.14E-07	1.62E-03	5.14E-07

Risk Factors

	Abbreviation	UOM	
Chronic Inhalation	REL	ug/m^3	5

MAX	HI	UTM X	UTM Y
Unmitigated	0.002	592925.4	4152388
Mitigated	0.002	592925.4	4152388

Diesel Particulate Matter concentration, C_{DPM} (ug/m^3)

			Unmitigated		Mitigated	
Lookup	X (UTM)	Y (UTM	2024	2025	2024	2025
592585.4_41521	592585.4	4152188	4.92E-04	8.02E-04	4.92E-04	7.95E-04
592585.4_41522	592585.4	4152208	5.34E-04	8.69E-04	5.34E-04	8.62E-04
592605.4_41522	592605.4	4152208	5.83E-04	9.49E-04	5.83E-04	9.41E-04
592625.4_41522	592625.4	4152208	6.46E-04	1.05E-03	6.46E-04	1.04E-03
592645.4_41522	592645.4	4152208	7.23E-04	1.18E-03	7.23E-04	1.17E-03
592605.4_41522	592605.4	4152228	8.19E-04	1.33E-03	8.19E-04	1.32E-03
592625.4_41522	592625.4	4152228	9.35E-04	1.52E-03	9.35E-04	1.51E-03
592645.4_41522	592645.4	4152228	1.07E-03	1.74E-03	1.07E-03	1.73E-03
592605.4_41522	592605.4	4152248	1.23E-03	2.00E-03	1.23E-03	1.98E-03
592625.4_41522	592625.4	4152248	4.37E-04	7.12E-04	4.37E-04	7.06E-04
592705.4_41522	592705.4	4152248	4.67E-04	7.60E-04	4.67E-04	7.54E-04
592725.4_41522	592725.4	4152248	5.01E-04	8.16E-04	5.01E-04	8.09E-04
592745.4_41522	592745.4	4152248	5.43E-04	8.84E-04	5.43E-04	8.76E-04
592765.4_41522	592765.4	4152248	5.91E-04	9.62E-04	5.91E-04	9.54E-04
592785.4_41522	592785.4	4152248	6.49E-04	1.06E-03	6.49E-04	1.05E-03
592705.4_41522	592705.4	4152268	7.21E-04	1.17E-03	7.21E-04	1.16E-03
592725.4_41522	592725.4	4152268	8.10E-04	1.32E-03	8.10E-04	1.31E-03
592745.4_41522	592745.4	4152268	9.23E-04	1.50E-03	9.23E-04	1.49E-03
592765.4_41522	592765.4	4152268	1.06E-03	1.73E-03	1.06E-03	1.72E-03
592785.4_41522	592785.4	4152268	1.23E-03	2.00E-03	1.23E-03	1.98E-03
592805.4_41522	592805.4	4152268	1.42E-03	2.31E-03	1.42E-03	2.29E-03
592825.4_41522	592825.4	4152268	1.64E-03	2.67E-03	1.64E-03	2.64E-03
592845.4_41522	592845.4	4152268	1.88E-03	3.06E-03	1.88E-03	3.03E-03
592865.4_41522	592865.4	4152268	2.13E-03	3.46E-03	2.13E-03	3.43E-03
592685.4_41522	592685.4	4152288	4.28E-04	6.97E-04	4.28E-04	6.92E-04
592705.4_41522	592705.4	4152288	4.52E-04	7.36E-04	4.52E-04	7.29E-04
592725.4_41522	592725.4	4152288	4.80E-04	7.81E-04	4.80E-04	7.75E-04
592745.4_41522	592745.4	4152288	5.14E-04	8.37E-04	5.14E-04	8.30E-04
592765.4_41522	592765.4	4152288	5.53E-04	9.01E-04	5.53E-04	8.94E-04
592785.4_41522	592785.4	4152288	6.02E-04	9.80E-04	6.02E-04	9.72E-04
592805.4_41522	592805.4	4152288	6.59E-04	1.07E-03	6.59E-04	1.06E-03
592825.4_41522	592825.4	4152288	7.28E-04	1.18E-03	7.28E-04	1.17E-03
592845.4_41522	592845.4	4152288	8.12E-04	1.32E-03	8.12E-04	1.31E-03
592865.4_41522	592865.4	4152288	9.20E-04	1.50E-03	9.20E-04	1.49E-03
592885.4_41522	592885.4	4152288	1.06E-03	1.72E-03	1.06E-03	1.71E-03
592905.4_41522	592905.4	4152288	1.23E-03	2.00E-03	1.23E-03	1.98E-03
592925.4_41522	592925.4	4152288	1.43E-03	2.33E-03	1.43E-03	2.31E-03
592945.4_41522	592945.4	4152288	1.66E-03	2.70E-03	1.66E-03	2.68E-03
592965.4_41522	592965.4	4152288	1.92E-03	3.13E-03	1.92E-03	3.10E-03
592685.4_41523	592685.4	4152308	2.21E-03	3.59E-03	2.21E-03	3.56E-03
592705.4_41523	592705.4	4152308	2.49E-03	4.06E-03	2.49E-03	4.03E-03
592725.4_41523	592725.4	4152308	2.80E-03	4.55E-03	2.80E-03	4.51E-03
592745.4_41523	592745.4	4152308	3.12E-03	5.08E-03	3.12E-03	5.03E-03
592765.4_41523	592765.4	4152308	4.48E-04	7.30E-04	4.48E-04	7.24E-04
592785.4_41523	592785.4	4152308	4.72E-04	7.68E-04	4.72E-04	7.61E-04
592805.4_41523	592805.4	4152308	4.98E-04	8.11E-04	4.98E-04	8.04E-04
592825.4_41523	592825.4	4152308	5.31E-04	8.65E-04	5.31E-04	8.57E-04
592845.4_41523	592845.4	4152308	5.70E-04	9.28E-04	5.70E-04	9.20E-04
592865.4_41523	592865.4	4152308	6.16E-04	1.00E-03	6.16E-04	9.95E-04
592885.4_41523	592885.4	4152308	6.72E-04	1.09E-03	6.72E-04	1.08E-03
592905.4_41523	592905.4	4152308	7.39E-04	1.20E-03	7.39E-04	1.19E-03
592925.4_41523	592925.4	4152308	8.21E-04	1.34E-03	8.21E-04	1.33E-03
592945.4_41523	592945.4	4152308	9.24E-04	1.50E-03	9.24E-04	1.49E-03
592965.4_41523	592965.4	4152308	1.06E-03	1.72E-03	1.06E-03	1.71E-03
592985.4_41523	592985.4	4152308	1.23E-03	2.00E-03	1.23E-03	1.98E-03
593005.4_41523	593005.4	4152308	1.44E-03	2.34E-03	1.44E-03	2.32E-03
592685.4_41523	592685.4	4152328	1.68E-03	2.74E-03	1.68E-03	2.72E-03
592705.4_41523	592705.4	4152328	1.98E-03	3.22E-03	1.98E-03	3.19E-03
592725.4_41523	592725.4	4152328	2.30E-03	3.75E-03	2.30E-03	3.72E-03
592745.4_41523	592745.4	4152328	2.65E-03	4.31E-03	2.65E-03	4.27E-03
592765.4_41523	592765.4	4152328	3.00E-03	4.88E-03	3.00E-03	4.84E-03
592785.4_41523	592785.4	4152328	3.38E-03	5.50E-03	3.38E-03	5.45E-03
592805.4_41523	592805.4	4152328	3.77E-03	6.13E-03	3.77E-03	6.08E-03
592825.4_41523	592825.4	4152328	4.13E-03	6.73E-03	4.13E-03	6.67E-03
592845.4_41523	592845.4	4152328	4.43E-03	7.21E-03	4.43E-03	7.15E-03
592865.4_41523	592865.4	4152328	4.74E-04	7.72E-04	4.74E-04	7.66E-04
592885.4_41523	592885.4	4152328	4.98E-04	8.11E-04	4.98E-04	8.04E-04
592905.4_41523	592905.4	4152328	5.25E-04	8.55E-04	5.25E-04	8.48E-04
592925.4_41523	592925.4	4152328	5.53E-04	9.00E-04	5.53E-04	8.92E-04
592945.4_41523	592945.4	4152328	5.91E-04	9.62E-04	5.91E-04	9.54E-04
592965.4_41523	592965.4	4152328	6.36E-04	1.04E-03	6.36E-04	1.03E-03
592985.4_41523	592985.4	4152328	6.90E-04	1.12E-03	6.90E-04	1.11E-03
593005.4_41523	593005.4	4152328	7.56E-04	1.23E-03	7.56E-04	1.22E-03
593025.4_41523	593025.4	4152328	8.34E-04	1.36E-03	8.34E-04	1.35E-03
593045.4_41523	593045.4	4152328	9.32E-04	1.52E-03	9.32E-04	1.51E-03
592725.4_41523	592725.4	4152348	1.05E-03	1.72E-03	1.05E-03	1.70E-03
592745.4_41523	592745.4	4152348	1.22E-03	1.99E-03	1.22E-03	1.97E-03
592765.4_41523	592765.4	4152348	1.44E-03	2.34E-03	1.44E-03	2.32E-03
592785.4_41523	592785.4	4152348	1.70E-03	2.76E-03	1.70E-03	2.74E-03
592805.4_41523	592805.4	4152348	2.01E-03	3.27E-03	2.01E-03	3.25E-03
592825.4_41523	592825.4	4152348	2.38E-03	3.88E-03	2.38E-03	3.85E-03
592845.4_41523	592845.4	4152348	2.79E-03	4.54E-03	2.79E-03	4.50E-03
592865.4_41523	592865.4	4152348	3.22E-03	5.24E-03	3.22E-03	5.20E-03
592885.4_41523	592885.4	4152348	3.67E-03	5.98E-03	3.67E-03	5.93E-03
592905.4_41523	592905.4	4152348	4.13E-03	6.72E-03	4.13E-03	6.66E-03
592925.4_41523	592925.4	4152348	4.57E-03	7.43E-03	4.57E-03	7.37E-03
592945.4_41523	592945.4	4152348	4.97E-03	8.09E-03	4.97E-03	8.02E-03
592965.4_41523	592965.4	4152348	5.32E-03	8.66E-03	5.32E-03	8.59E-03
592985.4_41523	592985.4	4152348	5.62E-03	9.15E-03	5.62E-03	9.07E-03

Unmitigated HI Risk

C_{DPM}/REL		
2024	2025	Max
9.85E-05	1.60E-04	1.60E-04
1.07E-04	1.74E-04	1.74E-04
1.17E-04	1.90E-04	1.90E-04
1.29E-04	2.10E-04	2.10E-04
1.45E-04	2.35E-04	2.35E-04
1.64E-04	2.67E-04	2.67E-04
1.87E-04	3.04E-04	3.04E-04
2.14E-04	3.49E-04	3.49E-04
2.45E-04	3.99E-04	3.99E-04
8.74E-05	1.42E-04	1.42E-04
9.33E-05	1.52E-04	1.52E-04
1.00E-04	1.63E-04	1.63E-04
1.09E-04	1.77E-04	1.77E-04
1.18E-04	1.92E-04	1.92E-04
1.30E-04	2.11E-04	2.11E-04
1.44E-04	2.35E-04	2.35E-04
1.62E-04	2.64E-04	2.64E-04
1.85E-04	3.01E-04	3.01E-04
2.13E-04	3.46E-04	3.46E-04
2.46E-04	4.00E-04	4.00E-04
2.83E-04	4.62E-04	4.62E-04
3.27E-04	5.33E-04	5.33E-04
3.76E-04	6.12E-04	6.12E-04
4.25E-04	6.92E-04	6.92E-04
8.57E-05	1.39E-04	1.39E-04
9.03E-05	1.47E-04	1.47E-04
9.60E-05	1.56E-04	1.56E-04
1.03E-04	1.67E-04	1.67E-04
1.11E-04	1.80E-04	1.80E-04
1.20E-04	1.96E-04	1.96E-04
1.32E-04	2.15E-04	2.15E-04
1.46E-04	2.37E-04	2.37E-04
1.62E-04	2.65E-04	2.65E-04
1.84E-04	3.00E-04	3.00E-04
2.12E-04	3.44E-04	3.44E-04
2.46E-04	4.00E-04	4.00E-04
2.86E-04	4.65E-04	4.65E-04
3.32E-04	5.40E-04	5.40E-04
3.84E-04	6.25E-04	6.25E-04
4.42E-04	7.19E-04	7.19E-04
4.99E-04	8.12E-04	8.12E-04
5.59E-04	9.10E-04	9.10E-04
6.24E-04	1.02E-03	1.02E-03
8.96E-05	1.46E-04	1.46E-04
9.43E-05	1.54E-04	1.54E-04
9.96E-05	1.62E-04	1.62E-04
1.06E-04	1.73E-04	1.73E-04
1.14E-04	1.86E-04	1.86E-04
1.23E-04	2.01E-04	2.01E-04
1.34E-04	2.19E-04	2.19E-04
1.48E-04	2.41E-04	2.41E-04
1.64E-04	2.67E-04	2.67E-04
1.85E-04	3.01E-04	3.01E-04
2.11E-04	3.44E-04	3.44E-04
2.45E-04	3.99E-04	3.99E-04
2.88E-04	4.68E-04	4.68E-04
3.37E-04	5.49E-04	5.49E-04
3.95E-04	6.43E-04	6.43E-04
4.61E-04	7.50E-04	7.50E-04
5.29E-04	8.62E-04	8.62E-04
6.00E-04	9.77E-04	9.77E-04
6.75E-04	1.10E-03	1.10E-03
7.53E-04	1.23E-03	1.23E-03
8.26E-04	1.35E-03	1.35E-03
8.86E-04	1.44E-03	1.44E-03
9.49E-05	1.54E-04	1.54E-04
9.96E-05	1.62E-04	1.62E-04
1.05E-04	1.71E-04	1.71E-04
1.11E-04	1.80E-04	1.80E-04
1.18E-04	1.92E-04	1.92E-04
1.27E-04	2.07E-04	2.07E-04
1.38E-04	2.25E-04	2.25E-04
1.51E-04	2.46E-04	2.46E-04
1.67E-04	2.72E-04	2.72E-04
1.86E-04	3.04E-04	3.04E-04
2.11E-04	3.43E-04	3.43E-04
2.45E-04	3.98E-04	3.98E-04
2.87E-04	4.68E-04	4.68E-04
3.39E-04	5.52E-04	5.52E-04
4.02E-04	6.55E-04	6.55E-04
4.77E-04	7.77E-04	7.77E-04
5.58E-04	9.08E-04	9.08E-04
6.44E-04	1.05E-03	1.05E-03
7.35E-04	1.20E-03	1.20E-03
8.25E-04	1.34E-03	1.34E-03
9.13E-04	1.49E-03	1.49E-03
9.94E-04	1.62E-03	1.62E-03
1.06E-03	1.73E-03	1.73E-03
1.12E-03	1.83E-03	1.83E-03

Mitigated HI Risk

C_{DPM}/REL		
2024	2025	Max
1.59E-04	0.00E+00	1.59E-04
1.72E-04	0.00E+00	1.72E-04
1.88E-04	0.00E+00	1.88E-04
2.09E-04	0.00E+00	2.09E-04
2.33E-04	0.00E+00	2.33E-04
2.65E-04	0.00E+00	2.65E-04
3.02E-04	0.00E+00	3.02E-04
3.46E-04	0.00E+00	3.46E-04
3.96E-04	0.00E+00	3.96E-04
1.41E-04	0.00E+00	1.41E-04
1.51E-04	0.00E+00	1.51E-04
1.62E-04	0.00E+00	1.62E-04
1.75E-04	0.00E+00	1.75E-04
1.91E-04	0.00E+00	1.91E-04
2.10E-04	0.00E+00	2.10E-04
2.33E-04	0.00E+00	2.33E-04
2.62E-04	0.00E+00	2.62E-04
2.98E-04	0.00E+00	2.98E-04
3.43E-04	0.00E+00	3.43E-04
3.97E-04	0.00E+00	3.97E-04
4.58E-04	0.00E+00	4.58E-04
5.29E-04	0.00E+00	5.29E-04
6.06E-04	0.00E+00	6.06E-04
6.87E-04	0.00E+00	6.87E-04
1.38E-04	0.00E+00	1.38E-04
1.46E-04	0.00E+00	1.46E-04
1.55E-04	0.00E+00	1.55E-04
1.66E-04	0.00E+00	1.66E-04
1.79E-04	0.00E+00	1.79E-04
1.94E-04	0.00E+00	1.94E-04
2.13E-04	0.00E+00	2.13E-04
2.35E-04	0.00E+00	2.35E-04
2.62E-04	0.00E+00	2.62E-04
2.97E-04	0.00E+00	2.97E-04
3.42E-04	0.00E+00	3.42E-04
3.97E-04	0.00E+00	3.97E-04
4.61E-04	0.00E+00	4.61E-04
5.36E-04	0.00E+00	5.36E-04
6.20E-04	0.00E+00	6.20E-04
7.13E-04	0.00E+00	7.13E-04
8.05E-04	0.00E+00	8.05E-04
9.03E-04	0.00E+00	9.03E-04
1.01E-03	0.00E+00	1.01E-03
1.45E-04	0.00E+00	1.45E-04
1.52E-04	0.00E+00	1.52E-04
1.61E-04	0.00E+00	1.61E-04
1.71E-04	0.00E+00	1.71E-04
1.84E-04	0.00E+00	1.84E-04
1.99E-04	0.00E+00	1.99E-04
2.17E-04	0.00E+00	2.17E-04
2.39E-04	0.00E+00	2.39E-04
2.65E-04	0.00E+00	2.65E-04
2.98E-04	0.00E+00	2.98E-04
3.41E-04	0.00E+00	3.41E-04
3.96E-04	0.00E+00	3.96E-04
4.65E-04	0.00E+00	4.65E-04
5.44E-04	0.00E+00	5.44E-04
6.38E-04	0.00E+00	6.38E-04
7.44E-04	0.00E+00	7.44E-04
8.54E-04	0.00E+00	8.54E-04
9.69E-04	0.00E+00	9.69E-04
1.09E-03	0.00E+00	1.09E-03
1.22E-03	0.00E+00	1.22E-03
1.33E-03	0.00E+00	1.33E-03
1.43E-03	0.00E+00	1.43E-03
1.53E-04	0.00E+00	1.53E-04
1.61E-04	0.00E+00	1.61E-04
1.70E-04	0.00E+00	1.70E-04
1.78E-04	0.00E+00	1.78E-04
1.91E-04	0.00E+00	1.91E-04
2.06E-04	0.00E+00	2.06E-04
2.23E-04	0.00E+00	2.23E-04
2.44E-04	0.00E+00	2.44E-04
2.69E-04	0.00E+00	2.69E-04
3.01E-04	0.00E+00	3.01E-04
3.40E-04	0.00E+00	3.40E-04
3.95E-04	0.00E+00	3.95E-04
4.64E-04	0.00E+00	4.64E-04
5.48E-04	0.00E+00	5.48E-04
6.49E-04	0.00E+00	6.49E-04
7.70E-04	0.00E+00	7.70E-04
9.01E-04	0.00E+00	9.01E-04
1.04E-03	0.00E+00	1.04E-03
1.19E-03	0.00E+00	1.19E-03
1.33E-03	0.00E+00	1.33E-03
1.47E-03	0.00E+00	1.47E-03
1.60E-03	0.00E+00	1.60E-03
1.72E-03	0.00E+00	1.72E-03
1.81E-03	0.00E+00	1.81E-03

Diesel Particulate Matter concentration, C_{DPM} (ug/m^3)

			Unmitigated		Mitigated	
Lookup	X (UTM)	Y (UTM	2024	2025	2024	2025
593005.4_41523	593005.4	4152348	4.91E-04	8.00E-04	4.91E-04	7.93E-04
593025.4_41523	593025.4	4152348	5.09E-04	8.28E-04	5.09E-04	8.21E-04
593045.4_41523	593045.4	4152348	5.28E-04	8.60E-04	5.28E-04	8.53E-04
593065.4_41523	593065.4	4152348	5.54E-04	9.02E-04	5.54E-04	8.94E-04
593085.4_41523	593085.4	4152348	5.87E-04	9.56E-04	5.87E-04	9.48E-04
592765.4_41523	592765.4	4152368	6.18E-04	1.01E-03	6.18E-04	9.98E-04
592785.4_41523	592785.4	4152368	6.61E-04	1.08E-03	6.61E-04	1.07E-03
592805.4_41523	592805.4	4152368	7.13E-04	1.16E-03	7.13E-04	1.15E-03
592825.4_41523	592825.4	4152368	7.75E-04	1.26E-03	7.75E-04	1.25E-03
592845.4_41523	592845.4	4152368	8.55E-04	1.39E-03	8.55E-04	1.38E-03
592865.4_41523	592865.4	4152368	9.50E-04	1.55E-03	9.50E-04	1.53E-03
592885.4_41523	592885.4	4152368	1.07E-03	1.75E-03	1.07E-03	1.73E-03
592905.4_41523	592905.4	4152368	1.23E-03	1.99E-03	1.23E-03	1.98E-03
592925.4_41523	592925.4	4152368	1.43E-03	2.33E-03	1.43E-03	2.31E-03
592945.4_41523	592945.4	4152368	1.71E-03	2.79E-03	1.71E-03	2.76E-03
592965.4_41523	592965.4	4152368	2.04E-03	3.32E-03	2.04E-03	3.29E-03
592985.4_41523	592985.4	4152368	2.45E-03	3.98E-03	2.45E-03	3.95E-03
593005.4_41523	593005.4	4152368	2.92E-03	4.75E-03	2.92E-03	4.71E-03
593025.4_41523	593025.4	4152368	3.44E-03	5.60E-03	3.44E-03	5.55E-03
593045.4_41523	593045.4	4152368	3.99E-03	6.50E-03	3.99E-03	6.45E-03
593065.4_41523	593065.4	4152368	4.56E-03	7.42E-03	4.56E-03	7.36E-03
592825.4_41523	592825.4	4152388	5.10E-03	8.31E-03	5.10E-03	8.24E-03
592845.4_41523	592845.4	4152388	5.62E-03	9.15E-03	5.62E-03	9.07E-03
592865.4_41523	592865.4	4152388	6.07E-03	9.89E-03	6.07E-03	9.80E-03
592885.4_41523	592885.4	4152388	6.44E-03	1.05E-02	6.44E-03	1.04E-02
592905.4_41523	592905.4	4152388	6.71E-03	1.09E-02	6.71E-03	1.08E-02
592925.4_41523	592925.4	4152388	6.89E-03	1.12E-02	6.89E-03	1.11E-02
592945.4_41523	592945.4	4152388	5.41E-04	8.81E-04	5.41E-04	8.74E-04
592965.4_41523	592965.4	4152388	5.55E-04	9.04E-04	5.55E-04	8.97E-04
592985.4_41523	592985.4	4152388	5.74E-04	9.34E-04	5.74E-04	9.26E-04
593005.4_41523	593005.4	4152388	5.96E-04	9.71E-04	5.96E-04	9.63E-04

Unmitigated HI Risk

C_{DPM}/REL			
2024	2025	Max	
9.83E-05	1.60E-04	1.60E-04	
1.02E-04	1.66E-04	1.66E-04	
1.06E-04	1.72E-04	1.72E-04	
1.11E-04	1.80E-04	1.80E-04	
1.17E-04	1.91E-04	1.91E-04	
1.24E-04	2.01E-04	2.01E-04	
1.32E-04	2.15E-04	2.15E-04	
1.43E-04	2.32E-04	2.32E-04	
1.55E-04	2.52E-04	2.52E-04	
1.71E-04	2.78E-04	2.78E-04	
1.90E-04	3.09E-04	3.09E-04	
2.15E-04	3.49E-04	3.49E-04	
2.45E-04	3.99E-04	3.99E-04	
2.87E-04	4.67E-04	4.67E-04	
3.42E-04	5.57E-04	5.57E-04	
4.08E-04	6.64E-04	6.64E-04	
4.89E-04	7.97E-04	7.97E-04	
5.83E-04	9.50E-04	9.50E-04	
6.87E-04	1.12E-03	1.12E-03	
7.99E-04	1.30E-03	1.30E-03	
9.12E-04	1.48E-03	1.48E-03	
1.02E-03	1.66E-03	1.66E-03	
1.12E-03	1.83E-03	1.83E-03	
1.21E-03	1.98E-03	1.98E-03	
1.29E-03	2.10E-03	2.10E-03	
1.34E-03	2.18E-03	2.18E-03	
1.38E-03	2.24E-03	2.24E-03	
1.08E-04	1.76E-04	1.76E-04	
1.11E-04	1.81E-04	1.81E-04	
1.15E-04	1.87E-04	1.87E-04	
1.19E-04	1.94E-04	1.94E-04	

Mitigated HI Risk

C_{DPM}/REL			
2024	2025	Max	
1.59E-04	0.00E+00	1.59E-04	
1.64E-04	0.00E+00	1.64E-04	
1.71E-04	0.00E+00	1.71E-04	
1.79E-04	0.00E+00	1.79E-04	
1.90E-04	0.00E+00	1.90E-04	
2.00E-04	0.00E+00	2.00E-04	
2.13E-04	0.00E+00	2.13E-04	
2.30E-04	0.00E+00	2.30E-04	
2.50E-04	0.00E+00	2.50E-04	
2.76E-04	0.00E+00	2.76E-04	
3.07E-04	0.00E+00	3.07E-04	
3.46E-04	0.00E+00	3.46E-04	
3.96E-04	0.00E+00	3.96E-04	
4.63E-04	0.00E+00	4.63E-04	
5.53E-04	0.00E+00	5.53E-04	
6.58E-04	0.00E+00	6.58E-04	
7.90E-04	0.00E+00	7.90E-04	
9.42E-04	0.00E+00	9.42E-04	
1.11E-03	0.00E+00	1.11E-03	
1.29E-03	0.00E+00	1.29E-03	
1.47E-03	0.00E+00	1.47E-03	
1.65E-03	0.00E+00	1.65E-03	
1.81E-03	0.00E+00	1.81E-03	
1.96E-03	0.00E+00	1.96E-03	
2.08E-03	0.00E+00	2.08E-03	
2.17E-03	0.00E+00	2.17E-03	
2.22E-03	0.00E+00	2.22E-03	
1.75E-04	0.00E+00	1.75E-04	
1.79E-04	0.00E+00	1.79E-04	
1.85E-04	0.00E+00	1.85E-04	
1.93E-04	0.00E+00	1.93E-04	

Diesel Particulate Matter concentration, C_{DPM} (ug/m^3)

			Unmitigated		Mitigated	
Lookup	X (UTM)	Y (UTM	2024	2025	2024	2025

Unmitigated HI Risk

C_{DPM}/REL			
2024	2025	Max	

Mitigated HI Risk

C_{DPM}/REL			
2024	2025	Max	

Diesel Particulate Matter concentration, C_{DPM} (ug/m^3)

			Unmitigated		Mitigated	
Lookup	X (UTM)	Y (UTM	2024	2025	2024	2025

Unmitigated HI Risk

C_{DPM}/REL			
2024	2025	Max	

Mitigated HI Risk

C_{DPM}/REL			
2024	2025	Max	

Diesel Particulate Matter concentration, C_{DPM} (ug/m^3)

			Unmitigated		Mitigated	
Lookup	X (UTM)	Y (UTM	2024	2025	2024	2025

Unmitigated HI Risk

C_{DPM}/REL			
2024	2025	Max	

Mitigated HI Risk

C_{DPM}/REL			
2024	2025	Max	

Diesel Particulate Matter concentration, C_{DPM} (ug/m^3)

			Unmitigated		Mitigated	
Lookup	X (UTM)	Y (UTM	2024	2025	2024	2025

Unmitigated HI Risk

C_{DPM}/REL			
2024	2025	Max	

Mitigated HI Risk

C_{DPM}/REL			
2024	2025	Max	

Diesel Particulate Matter concentration, C_{DPM} (ug/m^3)

			Unmitigated		Mitigated	
Lookup	X (UTM)	Y (UTM	2024	2025	2024	2025

Unmitigated HI Risk

C_{DPM}/REL			
2024	2025	Max	

Mitigated HI Risk

C_{DPM}/REL			
2024	2025	Max	

43990 Fremont

All Receptors - Construction Annual Average $PM_{2.5}$ Concentration

Haul Truck Trip Lengths

	Haul	Vendor	Worker	
Trip Length	20	8.4	11.7	miles
	32187	13518	18829	meters

Haul Truck Adjustment Factor to Model

Source	Haul	Vendor	Worker
Haul	0.02	0.05	0.03

Modeled Routes

	Haul	
Trip Length	618.3	meters

from AERMOD

			Days				Total Unmitigated $PM_{2.5}$ (tons)				Total Mitigated $PM_{2.5}$ (tons)			
Construction Year	Start Date	End Date	3rd Trimester	Age 0<2	Age 2<16	Calendar Days	Onsite Offroad	Haul Truck	Vendor Trips	Worker Trips	Onsite Offroad	Haul Truck	Vendor Trips	Worker Trips
2024	11/1/2024	12/31/2024	91	274.00	0.00	365	3.42E-02	1.11E-03	0.00E+00	8.16E-04	3.42E-02	1.11E-03	0.00E+00	8.16E-04
2025	1/1/2025	11/1/2025	0	365.00	0.00	365	8.67E-02	7.04E-04	2.03E-03	5.56E-03	8.62E-02	7.04E-04	2.03E-03	5.74E-03

			Total Unmitigated DPM (g/s)		Total Mitigated DPM (g/s)	
Construction Year	Start Date	End Date	CSTN	HAUL	CSTN	HAUL
2024	11/1/2024	12/31/2024	9.83E-04	1.38E-06	9.83E-04	1.38E-06
2025	1/1/2025	11/1/2025	2.49E-03	8.32E-06	2.48E-03	8.49E-06

MAX	PM2.5	UTM X	UTM Y	Year
Unmitigated	0.02	592925.4	4152388	2025
Mitigated	0.02	592925.4	4152388	2025

Particulate Matter concentration, $C_{PM2.5}$ (ug/m^3)

			Unmitigated			Mitigated			Unmitigated		Mitigated	
									$PM_{2.5}$ Concentration		$PM_{2.5}$ Concentration	
Lookup	X (UTM)	Y (UTM	2024	2025	#N/A	2024	2025	#N/A	Max	Max Year	Max	Max Year
592585.4_41521	592585.4	4152188	4.82E-04	1.23E-03		4.82E-04	1.22E-03		1.23E-03	2025	1.22E-03	2025
592585.4_41522	592585.4	4152208	5.23E-04	1.33E-03		5.23E-04	1.32E-03		1.33E-03	2025	1.32E-03	2025
592605.4_41522	592605.4	4152208	5.71E-04	1.45E-03		5.71E-04	1.45E-03		1.45E-03	2025	1.45E-03	2025
592625.4_41522	592625.4	4152208	6.33E-04	1.61E-03		6.33E-04	1.60E-03		1.61E-03	2025	1.60E-03	2025
592645.4_41522	592645.4	4152208	7.08E-04	1.80E-03		7.08E-04	1.79E-03		1.80E-03	2025	1.79E-03	2025
592605.4_41522	592605.4	4152228	8.02E-04	2.04E-03		8.02E-04	2.03E-03		2.04E-03	2025	2.03E-03	2025
592625.4_41522	592625.4	4152228	9.15E-04	2.33E-03		9.15E-04	2.31E-03		2.33E-03	2025	2.31E-03	2025
592645.4_41522	592645.4	4152228	1.05E-03	2.66E-03		1.05E-03	2.65E-03		2.66E-03	2025	2.65E-03	2025
592605.4_41522	592605.4	4152248	1.20E-03	3.05E-03		1.20E-03	3.03E-03		3.05E-03	2025	3.03E-03	2025
592625.4_41522	592625.4	4152248	4.28E-04	1.09E-03		4.28E-04	1.08E-03		1.09E-03	2025	1.08E-03	2025
592705.4_41522	592705.4	4152248	4.57E-04	1.16E-03		4.57E-04	1.16E-03		1.16E-03	2025	1.16E-03	2025
592725.4_41522	592725.4	4152248	4.91E-04	1.25E-03		4.91E-04	1.24E-03		1.25E-03	2025	1.24E-03	2025
592745.4_41522	592745.4	4152248	5.32E-04	1.35E-03		5.32E-04	1.35E-03		1.35E-03	2025	1.35E-03	2025
592765.4_41522	592765.4	4152248	5.79E-04	1.47E-03		5.79E-04	1.47E-03		1.47E-03	2025	1.47E-03	2025
592785.4_41522	592785.4	4152248	6.36E-04	1.62E-03		6.36E-04	1.61E-03		1.62E-03	2025	1.61E-03	2025
592705.4_41522	592705.4	4152268	7.06E-04	1.80E-03		7.06E-04	1.79E-03		1.80E-03	2025	1.79E-03	2025
592725.4_41522	592725.4	4152268	7.93E-04	2.02E-03		7.93E-04	2.01E-03		2.02E-03	2025	2.01E-03	2025
592745.4_41522	592745.4	4152268	9.04E-04	2.30E-03		9.04E-04	2.29E-03		2.30E-03	2025	2.29E-03	2025
592765.4_41522	592765.4	4152268	1.04E-03	2.64E-03		1.04E-03	2.63E-03		2.64E-03	2025	2.63E-03	2025
592785.4_41522	592785.4	4152268	1.20E-03	3.06E-03		1.20E-03	3.04E-03		3.06E-03	2025	3.04E-03	2025
592805.4_41522	592805.4	4152268	1.39E-03	3.52E-03		1.39E-03	3.51E-03		3.52E-03	2025	3.51E-03	2025
592825.4_41522	592825.4	4152268	1.60E-03	4.07E-03		1.60E-03	4.05E-03		4.07E-03	2025	4.05E-03	2025
592845.4_41522	592845.4	4152268	1.84E-03	4.67E-03		1.84E-03	4.64E-03		4.67E-03	2025	4.64E-03	2025
592865.4_41522	592865.4	4152268	2.08E-03	5.28E-03		2.08E-03	5.26E-03		5.28E-03	2025	5.26E-03	2025
592685.4_41522	592685.4	4152288	4.20E-04	1.07E-03		4.20E-04	1.06E-03		1.07E-03	2025	1.06E-03	2025
592705.4_41522	592705.4	4152288	4.43E-04	1.13E-03		4.43E-04	1.12E-03		1.13E-03	2025	1.12E-03	2025
592725.4_41522	592725.4	4152288	4.70E-04	1.20E-03		4.70E-04	1.19E-03		1.20E-03	2025	1.19E-03	2025
592745.4_41522	592745.4	4152288	5.03E-04	1.28E-03		5.03E-04	1.27E-03		1.28E-03	2025	1.27E-03	2025
592765.4_41522	592765.4	4152288	5.42E-04	1.38E-03		5.42E-04	1.37E-03		1.38E-03	2025	1.37E-03	2025
592785.4_41522	592785.4	4152288	5.89E-04	1.50E-03		5.89E-04	1.49E-03		1.50E-03	2025	1.49E-03	2025
592805.4_41522	592805.4	4152288	6.45E-04	1.64E-03		6.45E-04	1.63E-03		1.64E-03	2025	1.63E-03	2025
592825.4_41522	592825.4	4152288	7.13E-04	1.81E-03		7.13E-04	1.80E-03		1.81E-03	2025	1.80E-03	2025
592845.4_41522	592845.4	4152288	7.96E-04	2.02E-03		7.96E-04	2.01E-03		2.02E-03	2025	2.01E-03	2025
592865.4_41522	592865.4	4152288	9.01E-04	2.29E-03		9.01E-04	2.28E-03		2.29E-03	2025	2.28E-03	2025
592885.4_41522	592885.4	4152288	1.04E-03	2.63E-03		1.04E-03	2.62E-03		2.63E-03	2025	2.62E-03	2025
592905.4_41522	592905.4	4152288	1.20E-03	3.06E-03		1.20E-03	3.04E-03		3.06E-03	2025	3.04E-03	2025
592925.4_41522	592925.4	4152288	1.40E-03	3.55E-03		1.40E-03	3.54E-03		3.55E-03	2025	3.54E-03	2025
592945.4_41522	592945.4	4152288	1.62E-03	4.12E-03		1.62E-03	4.10E-03		4.12E-03	2025	4.10E-03	2025
592965.4_41522	592965.4	4152288	1.88E-03	4.77E-03		1.88E-03	4.75E-03		4.77E-03	2025	4.75E-03	2025
592685.4_41523	592685.4	4152308	2.16E-03	5.49E-03		2.16E-03	5.46E-03		5.49E-03	2025	5.46E-03	2025
592705.4_41523	592705.4	4152308	2.44E-03	6.20E-03		2.44E-03	6.17E-03		6.20E-03	2025	6.17E-03	2025
592725.4_41523	592725.4	4152308	2.74E-03	6.94E-03		2.74E-03	6.91E-03		6.94E-03	2025	6.91E-03	2025
592745.4_41523	592745.4	4152308	3.05E-03	7.75E-03		3.05E-03	7.71E-03		7.75E-03	2025	7.71E-03	2025
592765.4_41523	592765.4	4152308	4.39E-04	1.12E-03		4.39E-04	1.11E-03		1.12E-03	2025	1.11E-03	2025
592785.4_41523	592785.4	4152308	4.62E-04	1.18E-03		4.62E-04	1.17E-03		1.18E-03	2025	1.17E-03	2025
592805.4_41523	592805.4	4152308	4.88E-04	1.24E-03		4.88E-04	1.24E-03		1.24E-03	2025	1.24E-03	2025
592825.4_41523	592825.4	4152308	5.20E-04	1.32E-03		5.20E-04	1.32E-03		1.32E-03	2025	1.32E-03	2025
592845.4_41523	592845.4	4152308	5.59E-04	1.42E-03		5.59E-04	1.41E-03		1.42E-03	2025	1.41E-03	2025
592865.4_41523	592865.4	4152308	6.03E-04	1.53E-03		6.03E-04	1.53E-03		1.53E-03	2025	1.53E-03	2025
592885.4_41523	592885.4	4152308	6.58E-04	1.67E-03		6.58E-04	1.67E-03		1.67E-03	2025	1.67E-03	2025
592905.4_41523	592905.4	4152308	7.24E-04	1.84E-03		7.24E-04	1.83E-03		1.84E-03	2025	1.83E-03	2025
592925.4_41523	592925.4	4152308	8.04E-04	2.05E-03		8.04E-04	2.04E-03		2.05E-03	2025	2.04E-03	2025
592945.4_41523	592945.4	4152308	9.05E-04	2.30E-03		9.05E-04	2.29E-03		2.30E-03	2025	2.29E-03	2025
592965.4_41523	592965.4	4152308	1.03E-03	2.63E-03		1.03E-03	2.62E-03		2.63E-03	2025	2.62E-03	2025
592985.4_41523	592985.4	4152308	1.20E-03	3.05E-03		1.20E-03	3.04E-03		3.05E-03	2025	3.04E-03	2025
593005.4_41523	593005.4	4152308	1.41E-03	3.58E-03		1.41E-03	3.56E-03		3.58E-03	2025	3.56E-03	2025
592685.4_41523	592685.4	4152328	1.65E-03	4.19E-03		1.65E-03	4.17E-03		4.19E-03	2025	4.17E-03	2025
592705.4_41523	592705.4	4152328	1.93E-03	4.91E-03		1.93E-03	4.89E-03		4.91E-03	2025	4.89E-03	2025
592725.4_41523	592725.4	4152328	2.25E-03	5.72E-03		2.25E-03	5.69E-03		5.72E-03	2025	5.69E-03	2025
592745.4_41523	592745.4	4152328	2.59E-03	6.57E-03		2.59E-03	6.54E-03		6.57E-03	2025	6.54E-03	2025
592765.4_41523	592765.4	4152328	2.94E-03	7.45E-03		2.94E-03	7.42E-03		7.45E-03	2025	7.42E-03	2025
592785.4_41523	592785.4	4152328	3.30E-03	8.39E-03		3.30E-03	8.35E-03		8.39E-03	2025	8.35E-03	2025
592805.4_41523	592805.4	4152328	3.68E-03	9.35E-03		3.68E-03	9.30E-03		9.35E-03	2025	9.30E-03	2025
592825.4_41523	592825.4	4152328	4.04E-03	1.03E-02		4.04E-03	1.02E-02		1.03E-02	2025	1.02E-02	2025
592845.4_41523	592845.4	4152328	4.33E-03	1.10E-02		4.33E-03	1.09E-02		1.10E-02	2025	1.09E-02	2025
592865.4_41523	592865.4	4152328	4.65E-04	1.18E-03		4.65E-04	1.18E-03		1.18E-03	2025	1.18E-03	2025
592885.4_41523	592885.4	4152328	4.88E-04	1.24E-03		4.88E-04	1.24E-03		1.24E-03	2025	1.24E-03	2025
592905.4_41523	592905.4	4152328	5.14E-04	1.31E-03		5.14E-04	1.30E-03		1.31E-03	2025	1.30E-03	2025
592925.4_41523	592925.4	4152328	5.41E-04	1.38E-03		5.41E-04	1.37E-03		1.38E-03	2025	1.37E-03	2025
592945.4_41523	592945.4	4152328	5.79E-04	1.47E-03		5.79E-04	1.47E-03		1.47E-03	2025	1.47E-03	2025
592965.4_41523	592965.4	4152328	6.24E-04	1.59E-03		6.24E-04	1.58E-03		1.59E-03	2025	1.58E-03	2025
592985.4_41523	592985.4	4152328	6.76E-04	1.72E-03		6.76E-04	1.71E-03		1.72E-03	2025	1.71E-03	2025
593005.4_41523	593005.4	4152328	7.40E-04	1.88E-03		7.40E-04	1.87E-03		1.88E-03	2025	1.87E-03	2025
593025.4_41523	593025.4	4152328	8.17E-04	2.08E-03		8.17E-04	2.07E-03		2.08E-03	2025	2.07E-03	2025
593045.4_41523	593045.4	4152328	9.13E-04	2.32E-03		9.13E-04	2.31E-03		2.32E-03	2025	2.31E-03	2025
592725.4_41523	592725.4	4152348	1.03E-03	2.62E-03		1.03E-03	2.61E-03		2.62E-03	2025	2.61E-03	2025
592745.4_41523	592745.4	4152348	1.20E-03	3.04E-03		1.20E-03	3.03E-03		3.04E-03	2025	3.03E-03	2025

Particulate Matter concentration, $C_{PM2.5}$ (ug/m^3)

			Unmitigated			Mitigated			Unmitigated $PM_{2.5}$ Concentration		Mitigated $PM_{2.5}$ Concentration	
Lookup	X (UTM)	Y (UTM	2024	2025	#N/A	2024	2025	#N/A	Max	Max Year	Max	Max Year
592765.4_41523	592765.4	4152348	1.41E-03	3.57E-03		1.41E-03	3.55E-03		3.57E-03	2025	3.55E-03	2025
592785.4_41523	592785.4	4152348	1.66E-03	4.22E-03		1.66E-03	4.20E-03		4.22E-03	2025	4.20E-03	2025
592805.4_41523	592805.4	4152348	1.97E-03	5.00E-03		1.97E-03	4.97E-03		5.00E-03	2025	4.97E-03	2025
592825.4_41523	592825.4	4152348	2.33E-03	5.93E-03		2.33E-03	5.90E-03		5.93E-03	2025	5.90E-03	2025
592845.4_41523	592845.4	4152348	2.73E-03	6.93E-03		2.73E-03	6.90E-03		6.93E-03	2025	6.90E-03	2025
592865.4_41523	592865.4	4152348	3.15E-03	7.99E-03		3.15E-03	7.95E-03		7.99E-03	2025	7.95E-03	2025
592885.4_41523	592885.4	4152348	3.59E-03	9.12E-03		3.59E-03	9.08E-03		9.12E-03	2025	9.08E-03	2025
592905.4_41523	592905.4	4152348	4.04E-03	1.02E-02		4.04E-03	1.02E-02		1.02E-02	2025	1.02E-02	2025
592925.4_41523	592925.4	4152348	4.47E-03	1.13E-02		4.47E-03	1.13E-02		1.13E-02	2025	1.13E-02	2025
592945.4_41523	592945.4	4152348	4.86E-03	1.23E-02		4.86E-03	1.23E-02		1.23E-02	2025	1.23E-02	2025
592965.4_41523	592965.4	4152348	5.21E-03	1.32E-02		5.21E-03	1.31E-02		1.32E-02	2025	1.31E-02	2025
592985.4_41523	592985.4	4152348	5.50E-03	1.40E-02		5.50E-03	1.39E-02		1.40E-02	2025	1.39E-02	2025
593005.4_41523	593005.4	4152348	4.81E-04	1.23E-03		4.81E-04	1.22E-03		1.23E-03	2025	1.22E-03	2025
593025.4_41523	593025.4	4152348	4.98E-04	1.27E-03		4.98E-04	1.26E-03		1.27E-03	2025	1.26E-03	2025
593045.4_41523	593045.4	4152348	5.18E-04	1.32E-03		5.18E-04	1.31E-03		1.32E-03	2025	1.31E-03	2025
593065.4_41523	593065.4	4152348	5.43E-04	1.38E-03		5.43E-04	1.37E-03		1.38E-03	2025	1.37E-03	2025
593085.4_41523	593085.4	4152348	5.75E-04	1.46E-03		5.75E-04	1.46E-03		1.46E-03	2025	1.46E-03	2025
592765.4_41523	592765.4	4152368	6.06E-04	1.54E-03		6.06E-04	1.53E-03		1.54E-03	2025	1.53E-03	2025
592785.4_41523	592785.4	4152368	6.47E-04	1.65E-03		6.47E-04	1.64E-03		1.65E-03	2025	1.64E-03	2025
592805.4_41523	592805.4	4152368	6.98E-04	1.78E-03		6.98E-04	1.77E-03		1.78E-03	2025	1.77E-03	2025
592825.4_41523	592825.4	4152368	7.59E-04	1.93E-03		7.59E-04	1.92E-03		1.93E-03	2025	1.92E-03	2025
592845.4_41523	592845.4	4152368	8.37E-04	2.13E-03		8.37E-04	2.12E-03		2.13E-03	2025	2.12E-03	2025
592865.4_41523	592865.4	4152368	9.31E-04	2.37E-03		9.31E-04	2.35E-03		2.37E-03	2025	2.35E-03	2025
592885.4_41523	592885.4	4152368	1.05E-03	2.67E-03		1.05E-03	2.66E-03		2.67E-03	2025	2.66E-03	2025
592905.4_41523	592905.4	4152368	1.20E-03	3.05E-03		1.20E-03	3.03E-03		3.05E-03	2025	3.03E-03	2025
592925.4_41523	592925.4	4152368	1.40E-03	3.57E-03		1.40E-03	3.55E-03		3.57E-03	2025	3.55E-03	2025
592945.4_41523	592945.4	4152368	1.68E-03	4.26E-03		1.68E-03	4.24E-03		4.26E-03	2025	4.24E-03	2025
592965.4_41523	592965.4	4152368	2.00E-03	5.07E-03		2.00E-03	5.04E-03		5.07E-03	2025	5.04E-03	2025
592985.4_41523	592985.4	4152368	2.39E-03	6.08E-03		2.39E-03	6.05E-03		6.08E-03	2025	6.05E-03	2025
593005.4_41523	593005.4	4152368	2.85E-03	7.25E-03		2.85E-03	7.21E-03		7.25E-03	2025	7.21E-03	2025
593025.4_41523	593025.4	4152368	3.36E-03	8.54E-03		3.36E-03	8.50E-03		8.54E-03	2025	8.50E-03	2025
593045.4_41523	593045.4	4152368	3.91E-03	9.92E-03		3.91E-03	9.87E-03		9.92E-03	2025	9.87E-03	2025
593065.4_41523	593065.4	4152368	4.46E-03	1.13E-02		4.46E-03	1.13E-02		1.13E-02	2025	1.13E-02	2025
592825.4_41523	592825.4	4152388	4.99E-03	1.27E-02		4.99E-03	1.26E-02		1.27E-02	2025	1.26E-02	2025
592845.4_41523	592845.4	4152388	5.50E-03	1.40E-02		5.50E-03	1.39E-02		1.40E-02	2025	1.39E-02	2025
592865.4_41523	592865.4	4152388	5.94E-03	1.51E-02		5.94E-03	1.50E-02		1.51E-02	2025	1.50E-02	2025
592885.4_41523	592885.4	4152388	6.30E-03	1.60E-02		6.30E-03	1.59E-02		1.60E-02	2025	1.59E-02	2025
592905.4_41523	592905.4	4152388	6.56E-03	1.67E-02		6.56E-03	1.66E-02		1.67E-02	2025	1.66E-02	2025
592925.4_41523	592925.4	4152388	6.74E-03	1.71E-02		6.74E-03	1.70E-02		1.71E-02	2025	1.70E-02	2025
592945.4_41523	592945.4	4152388	5.30E-04	1.35E-03		5.30E-04	1.34E-03		1.35E-03	2025	1.34E-03	2025
592965.4_41523	592965.4	4152388	5.44E-04	1.38E-03		5.44E-04	1.38E-03		1.38E-03	2025	1.38E-03	2025
592985.4_41523	592985.4	4152388	5.62E-04	1.43E-03		5.62E-04	1.42E-03		1.43E-03	2025	1.42E-03	2025
593005.4_41523	593005.4	4152388	5.84E-04	1.49E-03		5.84E-04	1.48E-03		1.49E-03	2025	1.48E-03	2025

Particulate Matter concentration, $C_{PM2.5}$ (ug/m^3)

			Unmitigated			Mitigated		
Lookup	X (UTM)	Y (UTM	2024	2025	#N/A	2024	2025	#N/A

Unmitigated

$PM_{2.5}$ Concentration	
Max	Max Year

Mitigated

$PM_{2.5}$ Concentration	
Max	Max Year

Particulate Matter concentration, $C_{PM2.5}$ (ug/m^3)

			Unmitigated			Mitigated		
Lookup	X (UTM)	Y (UTM	2024	2025	#N/A	2024	2025	#N/A

Unmitigated

$PM_{2.5}$ Concentration	
Max	Max Year

Mitigated

$PM_{2.5}$ Concentration	
Max	Max Year

Particulate Matter concentration, $C_{PM2.5}$ (ug/m^3)

			Unmitigated			Mitigated		
Lookup	X (UTM)	Y (UTM	2024	2025	#N/A	2024	2025	#N/A

Unmitigated

$PM_{2.5}$ Concentration	
Max	Max Year

Mitigated

$PM_{2.5}$ Concentration	
Max	Max Year

Particulate Matter concentration, $C_{PM2.5}$ (ug/m^3)

			Unmitigated			Mitigated		
Lookup	X (UTM)	Y (UTM	2024	2025	#N/A	2024	2025	#N/A

Unmitigated

$PM_{2.5}$ Concentration	
Max	Max Year

Mitigated

$PM_{2.5}$ Concentration	
Max	Max Year

Particulate Matter concentration, $C_{PM2.5}$ (ug/m^3)

			Unmitigated			Mitigated		
Lookup	X (UTM)	Y (UTM	2024	2025	#N/A	2024	2025	#N/A

Unmitigated

$PM_{2.5}$ Concentration	
Max	Max Year

Mitigated

$PM_{2.5}$ Concentration	
Max	Max Year

Particulate Matter concentration, $C_{PM2.5}$ (ug/m^3)

			Unmitigated			Mitigated		
Lookup	X (UTM)	Y (UTM	2024	2025	#N/A	2024	2025	#N/A

Unmitigated

$PM_{2.5}$ Concentration	
Max	Max Year

Mitigated

$PM_{2.5}$ Concentration	
Max	Max Year

43990 Fremont Blvd

Residential Receptors - Operational Cancer Risk and Chronic Hazard Index

Haul Truck Trip Lengths

Source Name	One-Way Trip Length (mi)	AERMOD Modeled Length (m)	Modeled Fraction
	Truck	Truck	Truck
OPS	8	618.3	0.048

AERMOD Variable Emissions

HROFDY	8	hr/day

Trip Distribution

Ops	1

									Annual DPM
		Start	12/1/2025	3/2/2026	3/2/2028	2/28/2042			(tons/year)
		Stop	46082.00	3/1/2028	2/27/2042	2/25/2056			
			90	730	5110	5110			
Phase Name	Start Date	End Date	3rd Trimester	Age 0<2	Age 2<16	Age 16<30	Exposure Days	Calendar Days	Ops
Operations	12/1/2025	2/23/2056	90.00	730.00	5110.00	5112.25	11042.25	11042.25	7.46E-03

			Annual DPM (g/s)	
Phase Name	Start Date	End Date	OPS	
Operations	12/1/2025	2/23/2056	3.09E-05	

Risk Factors

	Abbreviation	UOM	3rd Trimester	0<2	Age 2<16	16<30
Daily Breathing Rate (95th %'ile)	DBR	L/kg-day	361	1090	572	261
Fraction Of Time At Home	FAH	unitless	0.85	0.85	0.72	0.73
Exposure Frequency	EF	days/year	0.96	0.96	0.96	0.96
Age Sensitivity Factor	ASF	unitless	10	10	3	1
Inhalation Absorption Factor	A	unitless	1	1	1	1
Conversion Factor	CF_1	m^3/L	0.001	0.001	0.001	0.001
Conversion Factor	CF_2	$\mu g/m^3$	0.001	0.001	0.001	0.001
Cancer Potency Factor (diesel exha	CPF	$mg/kg\text{-}day^{-1}$	1.1	1.1	1.1	1.1
Averaging Time (for residential exp	AT	years	70.00	70.00	70.00	70.00

Intake Factor for Inhalation, IF (m^3/kg-day)

Phase Name	Equation	3rd Trimester	0<2	2<16	16<30
Operations	DBR*FAH*EF *ED*ASF*A*	0.01	0.25	0.24	0.04

Risk Calculation Part 1, R1

	3rd Trimester	0<2	2<16	16<30
IF*CPF*CF	1.14E-05	2.79E-04	2.61E-04	4.02E-05

REL

DPM	5	μ/m^3

	Cancer Risk	UTM X	UTM Y	
Cancer Risk	1.72	592825.4	4152308	Residence
Chronic Risk	0.001	592825.4	4152308	Residence

Diesel Particulate Matter concentration, C_{DPM} (ug/m^3)

Risk Calculation Part 2, $\sum R1*C_{DPM}$

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		Truck Trips							HI	
X (UTM)	Y (UTM	OPS		Total	3rd Trimester	0<2	2<16	16<30	Total	C_{DPM}/REL	
592585.4	4152188	2.49E-04		2.49E-04	2.84E-09	6.95E-08	6.49E-08	1.00E-08	0.15	0.00	Residence
592585.4	4152208	2.30E-03		2.30E-03	2.62E-08	6.41E-07	5.98E-07	9.23E-08	1.36	0.00	Residence
592605.4	4152208	2.52E-03		2.52E-03	2.87E-08	7.03E-07	6.56E-07	1.01E-07	1.49	0.00	Residence
592625.4	4152208	2.81E-03		2.81E-03	3.20E-08	7.84E-07	7.31E-07	1.13E-07	1.66	0.00	Residence
592645.4	4152208	1.75E-03		1.75E-03	2.00E-08	4.89E-07	4.57E-07	7.04E-08	1.04	0.00	Residence
592605.4	4152228	1.89E-03		1.89E-03	2.16E-08	5.29E-07	4.94E-07	7.62E-08	1.12	0.00	Residence
592625.4	4152228	2.00E-03		2.00E-03	2.29E-08	5.60E-07	5.23E-07	8.06E-08	1.19	0.00	Residence
592645.4	4152228	2.11E-03		2.11E-03	2.40E-08	5.88E-07	5.49E-07	8.47E-08	1.25	0.00	Residence
592605.4	4152248	2.27E-03		2.27E-03	2.59E-08	6.33E-07	5.91E-07	9.12E-08	1.34	0.00	Residence
592625.4	4152248	2.51E-03		2.51E-03	2.86E-08	7.01E-07	6.54E-07	1.01E-07	1.48	0.00	Residence
592705.4	4152248	2.86E-03		2.86E-03	3.26E-08	7.99E-07	7.46E-07	1.15E-07	1.69	0.00	Residence
592725.4	4152248	1.43E-03		1.43E-03	1.63E-08	4.00E-07	3.74E-07	5.76E-08	0.85	0.00	Residence
592745.4	4152248	1.53E-03		1.53E-03	1.75E-08	4.28E-07	3.99E-07	6.16E-08	0.91	0.00	Residence
592765.4	4152248	1.61E-03		1.61E-03	1.84E-08	4.49E-07	4.20E-07	6.47E-08	0.95	0.00	Residence
592785.4	4152248	1.67E-03		1.67E-03	1.91E-08	4.67E-07	4.36E-07	6.73E-08	0.99	0.00	Residence
592705.4	4152268	1.79E-03		1.79E-03	2.05E-08	5.01E-07	4.68E-07	7.21E-08	1.06	0.00	Residence
592725.4	4152268	1.92E-03		1.92E-03	2.19E-08	5.37E-07	5.02E-07	7.74E-08	1.14	0.00	Residence
592745.4	4152268	2.04E-03		2.04E-03	2.32E-08	5.69E-07	5.31E-07	8.20E-08	1.21	0.00	Residence
592765.4	4152268	2.18E-03		2.18E-03	2.49E-08	6.10E-07	5.69E-07	8.78E-08	1.29	0.00	Residence
592785.4	4152268	2.41E-03		2.41E-03	2.75E-08	6.74E-07	6.29E-07	9.70E-08	1.43	0.00	Residence
592805.4	4152268	2.83E-03		2.83E-03	3.22E-08	7.90E-07	7.37E-07	1.14E-07	1.67	0.00	Residence
592825.4	4152268	1.23E-03		1.23E-03	1.40E-08	3.42E-07	3.19E-07	4.93E-08	0.72	0.00	Residence
592845.4	4152268	1.29E-03		1.29E-03	1.47E-08	3.60E-07	3.36E-07	5.19E-08	0.76	0.00	Residence
592865.4	4152268	1.34E-03		1.34E-03	1.53E-08	3.74E-07	3.49E-07	5.39E-08	0.79	0.00	Residence
592685.4	4152288	1.40E-03		1.40E-03	1.59E-08	3.90E-07	3.64E-07	5.61E-08	0.83	0.00	Residence
592705.4	4152288	1.49E-03		1.49E-03	1.69E-08	4.15E-07	3.87E-07	5.98E-08	0.88	0.00	Residence
592725.4	4152288	1.56E-03		1.56E-03	1.78E-08	4.37E-07	4.08E-07	6.29E-08	0.93	0.00	Residence
592745.4	4152288	1.64E-03		1.64E-03	1.87E-08	4.57E-07	4.27E-07	6.59E-08	0.97	0.00	Residence
592765.4	4152288	1.75E-03		1.75E-03	1.99E-08	4.88E-07	4.55E-07	7.02E-08	1.03	0.00	Residence
592785.4	4152288	1.90E-03		1.90E-03	2.17E-08	5.31E-07	4.96E-07	7.65E-08	1.13	0.00	Residence
592805.4	4152288	2.09E-03		2.09E-03	2.38E-08	5.83E-07	5.44E-07	8.40E-08	1.23	0.00	Residence
592825.4	4152288	2.34E-03		2.34E-03	2.67E-08	6.54E-07	6.10E-07	9.41E-08	1.38	0.00	Residence
592845.4	4152288	2.76E-03		2.76E-03	3.14E-08	7.70E-07	7.18E-07	1.11E-07	1.63	0.00	Residence
592865.4	4152288	1.12E-03		1.12E-03	1.28E-08	3.13E-07	2.92E-07	4.51E-08	0.66	0.00	Residence
592885.4	4152288	1.15E-03		1.15E-03	1.32E-08	3.22E-07	3.01E-07	4.64E-08	0.68	0.00	Residence
592905.4	4152288	1.21E-03		1.21E-03	1.37E-08	3.37E-07	3.14E-07	4.85E-08	0.71	0.00	Residence
592925.4	4152288	1.27E-03		1.27E-03	1.45E-08	3.55E-07	3.31E-07	5.11E-08	0.75	0.00	Residence
592945.4	4152288	1.33E-03		1.33E-03	1.51E-08	3.70E-07	3.46E-07	5.33E-08	0.78	0.00	Residence
592965.4	4152288	1.38E-03		1.38E-03	1.57E-08	3.85E-07	3.60E-07	5.55E-08	0.82	0.00	Residence
592685.4	4152308	1.48E-03		1.48E-03	1.68E-08	4.13E-07	3.85E-07	5.94E-08	0.87	0.00	Residence
592705.4	4152308	1.59E-03		1.59E-03	1.82E-08	4.45E-07	4.15E-07	6.40E-08	0.94	0.00	Residence
592725.4	4152308	1.72E-03		1.72E-03	1.96E-08	4.81E-07	4.49E-07	6.93E-08	1.02	0.00	Residence
592745.4	4152308	1.86E-03		1.86E-03	2.12E-08	5.19E-07	4.85E-07	7.48E-08	1.10	0.00	Residence

Diesel Particulate Matter concentration, C_{DPM} (ug/m^3)

Risk Calculation Part 2, ∑R1*C_{DPM}

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X (UTM)	Y (UTM	Truck Trips OPS		Total	3rd Trimester	0<2	2<16	16<30	Total	HI C_{DPM}/REL	
592765.4	4152308	2.05E-03		2.05E-03	2.34E-08	5.72E-07	5.34E-07	8.24E-08	1.21	0.00	Residence
592785.4	4152308	2.30E-03		2.30E-03	2.63E-08	6.43E-07	6.00E-07	9.26E-08	1.36	0.00	Residence
592805.4	4152308	2.59E-03		2.59E-03	2.95E-08	7.23E-07	6.75E-07	1.04E-07	1.53	0.00	Residence
592825.4	4152308	2.92E-03		2.92E-03	3.32E-08	8.14E-07	7.60E-07	1.17E-07	1.72	0.00	Residence
592845.4	4152308	9.93E-04		9.93E-04	1.13E-08	2.77E-07	2.59E-07	3.99E-08	0.59	0.00	Residence
592865.4	4152308	1.02E-03		1.02E-03	1.16E-08	2.85E-07	2.66E-07	4.10E-08	0.60	0.00	Residence
592885.4	4152308	1.07E-03		1.07E-03	1.22E-08	2.99E-07	2.79E-07	4.30E-08	0.63	0.00	Residence
592905.4	4152308	1.12E-03		1.12E-03	1.27E-08	3.12E-07	2.91E-07	4.50E-08	0.66	0.00	Residence
592925.4	4152308	1.16E-03		1.16E-03	1.32E-08	3.24E-07	3.03E-07	4.67E-08	0.69	0.00	Residence
592945.4	4152308	1.21E-03		1.21E-03	1.38E-08	3.39E-07	3.16E-07	4.88E-08	0.72	0.00	Residence
592965.4	4152308	1.30E-03		1.30E-03	1.48E-08	3.62E-07	3.38E-07	5.22E-08	0.77	0.00	Residence
592985.4	4152308	1.38E-03		1.38E-03	1.58E-08	3.86E-07	3.60E-07	5.56E-08	0.82	0.00	Residence
593005.4	4152308	1.47E-03		1.47E-03	1.67E-08	4.10E-07	3.82E-07	5.90E-08	0.87	0.00	Residence
592685.4	4152328	1.57E-03		1.57E-03	1.78E-08	4.37E-07	4.08E-07	6.30E-08	0.93	0.00	Residence
592705.4	4152328	1.70E-03		1.70E-03	1.93E-08	4.73E-07	4.42E-07	6.82E-08	1.00	0.00	Residence
592725.4	4152328	1.83E-03		1.83E-03	2.09E-08	5.12E-07	4.77E-07	7.37E-08	1.08	0.00	Residence
592745.4	4152328	1.96E-03		1.96E-03	2.23E-08	5.47E-07	5.10E-07	7.87E-08	1.16	0.00	Residence
592765.4	4152328	2.08E-03		2.08E-03	2.38E-08	5.82E-07	5.43E-07	8.38E-08	1.23	0.00	Residence
592785.4	4152328	2.24E-03		2.24E-03	2.56E-08	6.26E-07	5.84E-07	9.01E-08	1.33	0.00	Residence
592805.4	4152328	8.92E-04		8.92E-04	1.02E-08	2.49E-07	2.32E-07	3.59E-08	0.53	0.00	Residence
592825.4	4152328	9.19E-04		9.19E-04	1.05E-08	2.57E-07	2.40E-07	3.70E-08	0.54	0.00	Residence
592845.4	4152328	9.64E-04		9.64E-04	1.10E-08	2.69E-07	2.51E-07	3.88E-08	0.57	0.00	Residence
592865.4	4152328	1.01E-03		1.01E-03	1.15E-08	2.81E-07	2.62E-07	4.04E-08	0.59	0.00	Residence
592885.4	4152328	1.04E-03		1.04E-03	1.18E-08	2.90E-07	2.70E-07	4.17E-08	0.61	0.00	Residence
592905.4	4152328	1.09E-03		1.09E-03	1.25E-08	3.05E-07	2.85E-07	4.40E-08	0.65	0.00	Residence
592925.4	4152328	1.16E-03		1.16E-03	1.32E-08	3.24E-07	3.02E-07	4.66E-08	0.69	0.00	Residence
592945.4	4152328	1.22E-03		1.22E-03	1.39E-08	3.41E-07	3.19E-07	4.92E-08	0.72	0.00	Residence
592965.4	4152328	1.29E-03		1.29E-03	1.47E-08	3.59E-07	3.35E-07	5.17E-08	0.76	0.00	Residence
592985.4	4152328	1.36E-03		1.36E-03	1.55E-08	3.79E-07	3.54E-07	5.45E-08	0.80	0.00	Residence
593005.4	4152328	1.44E-03		1.44E-03	1.64E-08	4.02E-07	3.75E-07	5.78E-08	0.85	0.00	Residence
593025.4	4152328	1.53E-03		1.53E-03	1.74E-08	4.26E-07	3.98E-07	6.13E-08	0.90	0.00	Residence
593045.4	4152328	1.60E-03		1.60E-03	1.83E-08	4.48E-07	4.18E-07	6.45E-08	0.95	0.00	Residence
592725.4	4152348	1.69E-03		1.69E-03	1.93E-08	4.73E-07	4.41E-07	6.81E-08	1.00	0.00	Residence
592745.4	4152348	1.80E-03		1.80E-03	2.05E-08	5.03E-07	4.69E-07	7.24E-08	1.06	0.00	Residence
592765.4	4152348	2.12E-03		2.12E-03	2.42E-08	5.92E-07	5.52E-07	8.52E-08	1.25	0.00	Residence
592785.4	4152348	2.26E-03		2.26E-03	2.57E-08	6.30E-07	5.88E-07	9.07E-08	1.33	0.00	Residence
592805.4	4152348	2.42E-03		2.42E-03	2.76E-08	6.76E-07	6.31E-07	9.73E-08	1.43	0.00	Residence
592825.4	4152348	2.63E-03		2.63E-03	3.00E-08	7.35E-07	6.86E-07	1.06E-07	1.56	0.00	Residence
592845.4	4152348	2.89E-03		2.89E-03	3.29E-08	8.06E-07	7.53E-07	1.16E-07	1.71	0.00	Residence
592865.4	4152348	8.44E-04		8.44E-04	9.63E-09	2.36E-07	2.20E-07	3.40E-08	0.50	0.00	Residence
592885.4	4152348	8.82E-04		8.82E-04	1.01E-08	2.46E-07	2.30E-07	3.55E-08	0.52	0.00	Residence
592905.4	4152348	9.15E-04		9.15E-04	1.04E-08	2.55E-07	2.38E-07	3.68E-08	0.54	0.00	Residence
592925.4	4152348	9.46E-04		9.46E-04	1.08E-08	2.64E-07	2.47E-07	3.80E-08	0.56	0.00	Residence
592945.4	4152348	9.91E-04		9.91E-04	1.13E-08	2.77E-07	2.58E-07	3.98E-08	0.59	0.00	Residence
592965.4	4152348	1.05E-03		1.05E-03	1.20E-08	2.93E-07	2.73E-07	4.22E-08	0.62	0.00	Residence
592985.4	4152348	1.09E-03		1.09E-03	1.25E-08	3.05E-07	2.85E-07	4.40E-08	0.65	0.00	Residence
593005.4	4152348	1.14E-03		1.14E-03	1.30E-08	3.18E-07	2.97E-07	4.58E-08	0.67	0.00	Residence
593025.4	4152348	1.19E-03		1.19E-03	1.36E-08	3.33E-07	3.11E-07	4.80E-08	0.71	0.00	Residence
593045.4	4152348	1.26E-03		1.26E-03	1.43E-08	3.51E-07	3.27E-07	5.05E-08	0.74	0.00	Residence
593065.4	4152348	1.31E-03		1.31E-03	1.50E-08	3.67E-07	3.43E-07	5.29E-08	0.78	0.00	Residence
593085.4	4152348	1.37E-03		1.37E-03	1.56E-08	3.82E-07	3.57E-07	5.51E-08	0.81	0.00	Residence
592765.4	4152368	1.45E-03		1.45E-03	1.66E-08	4.06E-07	3.79E-07	5.85E-08	0.86	0.00	Residence
592785.4	4152368	1.64E-03		1.64E-03	1.86E-08	4.57E-07	4.26E-07	6.58E-08	0.97	0.00	Residence
592805.4	4152368	1.72E-03		1.72E-03	1.96E-08	4.79E-07	4.47E-07	6.90E-08	1.01	0.00	Residence
592825.4	4152368	1.81E-03		1.81E-03	2.06E-08	5.05E-07	4.72E-07	7.28E-08	1.07	0.00	Residence
592845.4	4152368	1.92E-03		1.92E-03	2.19E-08	5.37E-07	5.01E-07	7.73E-08	1.14	0.00	Residence
592865.4	4152368	2.05E-03		2.05E-03	2.34E-08	5.73E-07	5.35E-07	8.26E-08	1.21	0.00	Residence
592885.4	4152368	2.19E-03		2.19E-03	2.50E-08	6.11E-07	5.71E-07	8.81E-08	1.30	0.00	Residence
592905.4	4152368	2.33E-03		2.33E-03	2.66E-08	6.51E-07	6.07E-07	9.37E-08	1.38	0.00	Residence
592925.4	4152368	2.44E-03		2.44E-03	2.78E-08	6.81E-07	6.35E-07	9.80E-08	1.44	0.00	Residence
592945.4	4152368	2.51E-03		2.51E-03	2.86E-08	7.00E-07	6.54E-07	1.01E-07	1.48	0.00	Residence
592965.4	4152368	7.83E-04		7.83E-04	8.93E-09	2.19E-07	2.04E-07	3.15E-08	0.46	0.00	Residence
592985.4	4152368	8.15E-04		8.15E-04	9.29E-09	2.28E-07	2.12E-07	3.28E-08	0.48	0.00	Residence
593005.4	4152368	8.40E-04		8.40E-04	9.57E-09	2.34E-07	2.19E-07	3.38E-08	0.50	0.00	Residence
593025.4	4152368	8.72E-04		8.72E-04	9.95E-09	2.44E-07	2.27E-07	3.51E-08	0.52	0.00	Residence
593045.4	4152368	9.17E-04		9.17E-04	1.05E-08	2.56E-07	2.39E-07	3.69E-08	0.54	0.00	Residence
593065.4	4152368	9.54E-04		9.54E-04	1.09E-08	2.66E-07	2.49E-07	3.83E-08	0.56	0.00	Residence
592825.4	4152388	9.89E-04		9.89E-04	1.13E-08	2.76E-07	2.58E-07	3.98E-08	0.59	0.00	Residence
592845.4	4152388	1.03E-03		1.03E-03	1.17E-08	2.87E-07	2.68E-07	4.13E-08	0.61	0.00	Residence
592865.4	4152388	1.07E-03		1.07E-03	1.22E-08	2.98E-07	2.78E-07	4.29E-08	0.63	0.00	Residence
592885.4	4152388	1.11E-03		1.11E-03	1.27E-08	3.11E-07	2.90E-07	4.48E-08	0.66	0.00	Residence
592905.4	4152388	1.16E-03		1.16E-03	1.32E-08	3.23E-07	3.02E-07	4.65E-08	0.68	0.00	Residence
592925.4	4152388	1.20E-03		1.20E-03	1.37E-08	3.35E-07	3.12E-07	4.82E-08	0.71	0.00	Residence
592945.4	4152388	1.24E-03		1.24E-03	1.42E-08	3.47E-07	3.24E-07	4.99E-08	0.73	0.00	Residence
592965.4	4152388	1.40E-03		1.40E-03	1.60E-08	3.91E-07	3.65E-07	5.64E-08	0.83	0.00	Residence
592985.4	4152388	1.47E-03		1.47E-03	1.68E-08	4.12E-07	3.84E-07	5.93E-08	0.87	0.00	Residence
593005.4	4152388	1.54E-03		1.54E-03	1.76E-08	4.31E-07	4.02E-07	6.20E-08	0.91	0.00	Residence

Diesel Particulate Matter concentration, C_{DPM} (ug/m^3)

		Truck Trips		
X (UTM)	Y (UTM	OPS		Total

Risk Calculation Part 2, $\sum R1*C_{DPM}$

3rd Trimester	0<2	2<16	16<30	Total

13

HI
C_{DPM}/REL

Diesel Particulate Matter concentration, C_{DPM} (ug/m^3)

X (UTM)	Y (UTM	Truck Trips		
		OPS		Total

Risk Calculation Part 2, $\sum R1*C_{DPM}$

3rd Trimester	0<2	2<16	16<30	Total

13

HI
C_{DPM}/REL

Diesel Particulate Matter concentration, C_{DPM} (ug/m^3)

X (UTM)	Y (UTM	Truck Trips		
		OPS		Total

Risk Calculation Part 2, $\sum R1*C_{DPM}$

3rd Trimester	0<2	2<16	16<30	Total

13

HI
C_{DPM}/REL

Diesel Particulate Matter concentration, C_{DPM} (ug/m^3)

		Truck Trips		
X (UTM)	Y (UTM	OPS		Total

Risk Calculation Part 2, $\sum R1*C_{DPM}$

3rd Trimester	0<2	2<16	16<30	Total

13

HI
C_{DPM}/REL

Diesel Particulate Matter concentration, C_{DPM} (ug/m^3)

		Truck Trips		
X (UTM)	Y (UTM	OPS		Total

Risk Calculation Part 2, $\sum R1*C_{DPM}$

3rd Trimester	0<2	2<16	16<30	Total

13

HI
C_{DPM}/REL

43990 Fremont Blvd

Residential Receptors - Operational Annual Average $PM_{2.5}$ Concentration

Haul Truck Trip Lengths

Source Name	One-Way Trip Length (mi)	AERMOD Modeled Length (m)	Modeled Fraction
	Truck	Truck	Truck
OPS	8	618.3	0.048

AERMOD Variable Emissions

HROFDY	8	hr/day

Trip Distribution

Ops	1

Phase Name	Start Date	End Date	Annual $PM_{2.5}$ (tons/year) Ops
Operations	12/1/2024	2/23/2055	7.05E-03

Phase Name	Start Date	End Date	Annual $PM_{2.5}$ (g/s) Ops
Operations	12/1/2024	2/23/2055	2.92E-05

	Risk	UTM X	UTM Y	
Particulate Risk	0.003	592825.4	4152308	Residence

Particulate Matter concentration, $C_{PM2.5}$ (ug/m^3)

X (UTM)	Y (UTM	Truck Trips Ops	Truck Trips Total	
592585.4	4152188	2.01E-03	2.01E-03	Residence
592585.4	4152208	2.17E-03	2.17E-03	Residence
592605.4	4152208	2.38E-03	2.38E-03	Residence
592625.4	4152208	2.65E-03	2.65E-03	Residence
592645.4	4152208	1.66E-03	1.66E-03	Residence
592605.4	4152228	1.79E-03	1.79E-03	Residence
592625.4	4152228	1.90E-03	1.90E-03	Residence
592645.4	4152228	1.99E-03	1.99E-03	Residence
592605.4	4152248	2.15E-03	2.15E-03	Residence
592625.4	4152248	2.37E-03	2.37E-03	Residence
592705.4	4152248	2.71E-03	2.71E-03	Residence
592725.4	4152248	1.36E-03	1.36E-03	Residence
592745.4	4152248	1.45E-03	1.45E-03	Residence
592765.4	4152248	1.52E-03	1.52E-03	Residence
592785.4	4152248	1.58E-03	1.58E-03	Residence
592705.4	4152268	1.70E-03	1.70E-03	Residence
592725.4	4152268	1.82E-03	1.82E-03	Residence
592745.4	4152268	1.93E-03	1.93E-03	Residence
592765.4	4152268	2.06E-03	2.06E-03	Residence
592785.4	4152268	2.28E-03	2.28E-03	Residence
592805.4	4152268	2.67E-03	2.67E-03	Residence
592825.4	4152268	1.16E-03	1.16E-03	Residence
592845.4	4152268	1.22E-03	1.22E-03	Residence
592865.4	4152268	1.27E-03	1.27E-03	Residence
592685.4	4152288	1.32E-03	1.32E-03	Residence
592705.4	4152288	1.41E-03	1.41E-03	Residence
592725.4	4152288	1.48E-03	1.48E-03	Residence
592745.4	4152288	1.55E-03	1.55E-03	Residence
592765.4	4152288	1.65E-03	1.65E-03	Residence
592785.4	4152288	1.80E-03	1.80E-03	Residence
592805.4	4152288	1.97E-03	1.97E-03	Residence
592825.4	4152288	2.21E-03	2.21E-03	Residence
592845.4	4152288	2.61E-03	2.61E-03	Residence
592865.4	4152288	1.06E-03	1.06E-03	Residence
592885.4	4152288	1.09E-03	1.09E-03	Residence
592905.4	4152288	1.14E-03	1.14E-03	Residence
592925.4	4152288	1.20E-03	1.20E-03	Residence
592945.4	4152288	1.25E-03	1.25E-03	Residence
592965.4	4152288	1.31E-03	1.31E-03	Residence
592685.4	4152308	1.40E-03	1.40E-03	Residence
592705.4	4152308	1.51E-03	1.51E-03	Residence
592725.4	4152308	1.63E-03	1.63E-03	Residence
592745.4	4152308	1.76E-03	1.76E-03	Residence
592765.4	4152308	1.94E-03	1.94E-03	Residence
592785.4	4152308	2.18E-03	2.18E-03	Residence
592805.4	4152308	2.45E-03	2.45E-03	Residence
592825.4	4152308	2.76E-03	2.76E-03	Residence
592845.4	4152308	9.39E-04	9.39E-04	Residence
592865.4	4152308	9.64E-04	9.64E-04	Residence

Particulate Matter concentration, $C_{PM2.5}$ (ug/m^3)

		Truck Trips		
X (UTM)	Y (UTM	Ops	Total	
592885.4	4152308	1.01E-03	1.01E-03	Residence
592905.4	4152308	1.06E-03	1.06E-03	Residence
592925.4	4152308	1.10E-03	1.10E-03	Residence
592945.4	4152308	1.15E-03	1.15E-03	Residence
592965.4	4152308	1.23E-03	1.23E-03	Residence
592985.4	4152308	1.31E-03	1.31E-03	Residence
593005.4	4152308	1.39E-03	1.39E-03	Residence
592685.4	4152328	1.48E-03	1.48E-03	Residence
592705.4	4152328	1.60E-03	1.60E-03	Residence
592725.4	4152328	1.73E-03	1.73E-03	Residence
592745.4	4152328	1.85E-03	1.85E-03	Residence
592765.4	4152328	1.97E-03	1.97E-03	Residence
592785.4	4152328	2.12E-03	2.12E-03	Residence
592805.4	4152328	8.43E-04	8.43E-04	Residence
592825.4	4152328	8.69E-04	8.69E-04	Residence
592845.4	4152328	9.12E-04	9.12E-04	Residence
592865.4	4152328	9.50E-04	9.50E-04	Residence
592885.4	4152328	9.81E-04	9.81E-04	Residence
592905.4	4152328	1.03E-03	1.03E-03	Residence
592925.4	4152328	1.10E-03	1.10E-03	Residence
592945.4	4152328	1.16E-03	1.16E-03	Residence
592965.4	4152328	1.22E-03	1.22E-03	Residence
592985.4	4152328	1.28E-03	1.28E-03	Residence
593005.4	4152328	1.36E-03	1.36E-03	Residence
593025.4	4152328	1.44E-03	1.44E-03	Residence
593045.4	4152328	1.52E-03	1.52E-03	Residence
592725.4	4152348	1.60E-03	1.60E-03	Residence
592745.4	4152348	1.70E-03	1.70E-03	Residence
592765.4	4152348	2.00E-03	2.00E-03	Residence
592785.4	4152348	2.13E-03	2.13E-03	Residence
592805.4	4152348	2.29E-03	2.29E-03	Residence
592825.4	4152348	2.49E-03	2.49E-03	Residence
592845.4	4152348	2.73E-03	2.73E-03	Residence
592865.4	4152348	7.98E-04	7.98E-04	Residence
592885.4	4152348	8.34E-04	8.34E-04	Residence
592905.4	4152348	8.65E-04	8.65E-04	Residence
592925.4	4152348	8.94E-04	8.94E-04	Residence
592945.4	4152348	9.37E-04	9.37E-04	Residence
592965.4	4152348	9.91E-04	9.91E-04	Residence
592985.4	4152348	1.03E-03	1.03E-03	Residence
593005.4	4152348	1.08E-03	1.08E-03	Residence
593025.4	4152348	1.13E-03	1.13E-03	Residence
593045.4	4152348	1.19E-03	1.19E-03	Residence
593065.4	4152348	1.24E-03	1.24E-03	Residence
593085.4	4152348	1.29E-03	1.29E-03	Residence
592765.4	4152368	1.38E-03	1.38E-03	Residence
592785.4	4152368	1.55E-03	1.55E-03	Residence
592805.4	4152368	1.62E-03	1.62E-03	Residence
592825.4	4152368	1.71E-03	1.71E-03	Residence
592845.4	4152368	1.82E-03	1.82E-03	Residence
592865.4	4152368	1.94E-03	1.94E-03	Residence
592885.4	4152368	2.07E-03	2.07E-03	Residence
592905.4	4152368	2.20E-03	2.20E-03	Residence
592925.4	4152368	2.30E-03	2.30E-03	Residence
592945.4	4152368	2.37E-03	2.37E-03	Residence
592965.4	4152368	7.41E-04	7.41E-04	Residence
592985.4	4152368	7.70E-04	7.70E-04	Residence
593005.4	4152368	7.94E-04	7.94E-04	Residence
593025.4	4152368	8.25E-04	8.25E-04	Residence
593045.4	4152368	8.67E-04	8.67E-04	Residence
593065.4	4152368	9.02E-04	9.02E-04	Residence
592825.4	4152388	9.35E-04	9.35E-04	Residence
592845.4	4152388	9.71E-04	9.71E-04	Residence
592865.4	4152388	1.01E-03	1.01E-03	Residence
592885.4	4152388	1.05E-03	1.05E-03	Residence
592905.4	4152388	1.09E-03	1.09E-03	Residence
592925.4	4152388	1.13E-03	1.13E-03	Residence
592945.4	4152388	1.17E-03	1.17E-03	Residence
592965.4	4152388	1.32E-03	1.32E-03	Residence
592985.4	4152388	1.39E-03	1.39E-03	Residence
593005.4	4152388	1.46E-03	1.46E-03	Residence

Particulate Matter concentration, $C_{PM2.5}$ (ug/m^3)

		Truck Trips	
X (UTM)	Y (UTM	Ops	Total

Particulate Matter concentration, $C_{PM2.5}$ (ug/m^3)

		Truck Trips	
X (UTM)	Y (UTM	Ops	Total

Particulate Matter concentration, $C_{PM2.5}$ (ug/m^3)

		Truck Trips	
X (UTM)	Y (UTM	Ops	Total

Particulate Matter concentration, $C_{PM2.5}$ (ug/m^3)

		Truck Trips	
X (UTM)	Y (UTM	Ops	Total

Particulate Matter concentration, $C_{PM2.5}$ (ug/m^3)

		Truck Trips	
X (UTM)	Y (UTM	Ops	Total

Particulate Matter concentration, $C_{PM2.5}$ (ug/m^3)

		Truck Trips	
X (UTM)	Y (UTM	Ops	Total

A-4 Receptor Locations

Residential receptor

Worker Receptor

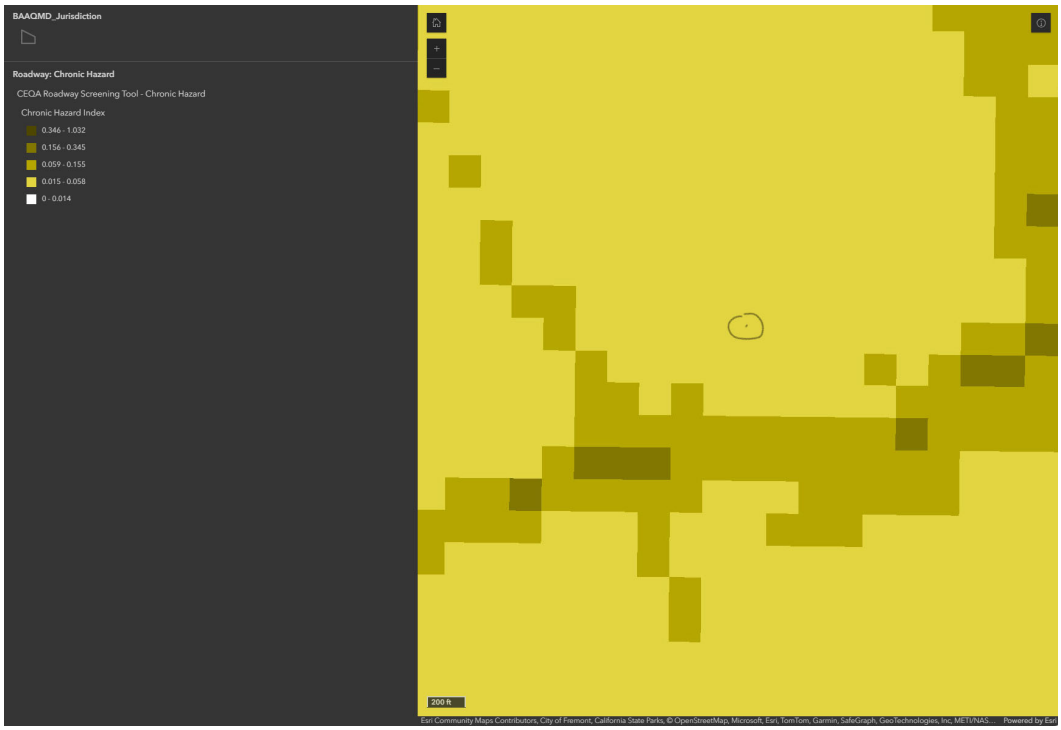
Distance to Residential Receptor

Distance to Worker Receptor

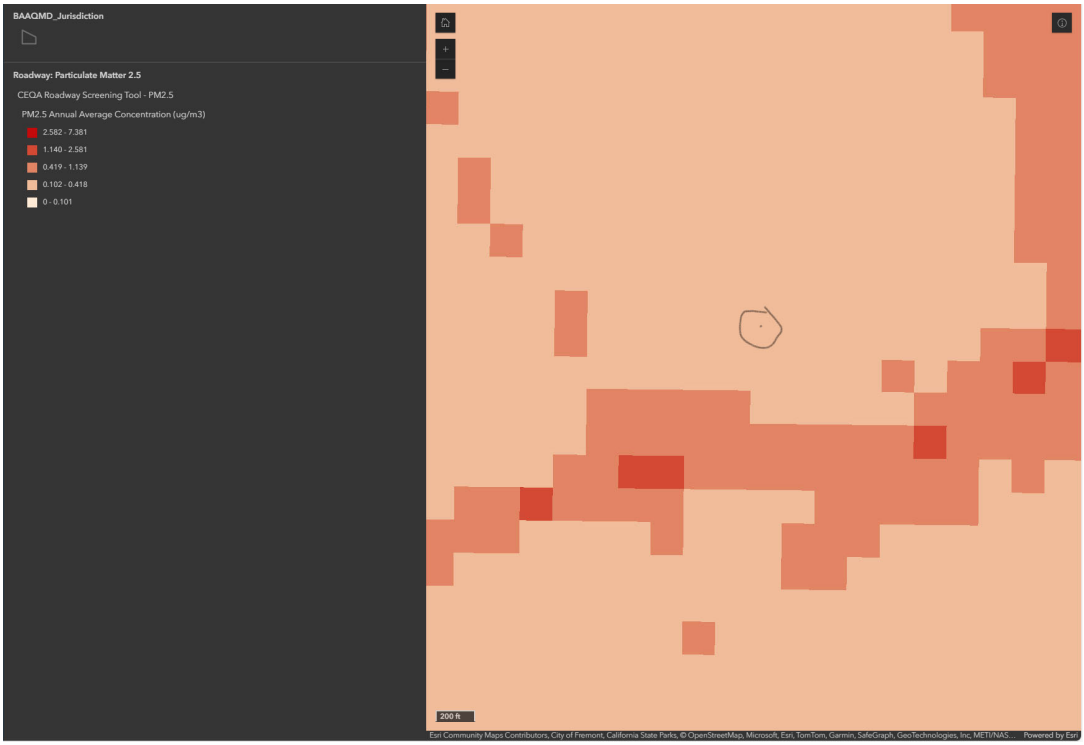
A-5 Cumulative HRA

Cancer risk at MEIR

Chronic risk at MEIR



PM2.5 risk at MEIR



MEIR Receptor - Cumulative Risk

	Unmitigated			Mitigated				
MEIR Type	Cancer Risk (per million)	HI	$PM_{2.5}$ (ug/m^3)	Cancer Risk (per million)	HI	$PM_{2.5}$ (ug/m^3)	UTM X	UTM Y
Off-site	3.53	0.00	0.02	3.52	0.00	0.02	592925.40	4152388.00

<=20 $y = 58.873x^{-1.246}$ generator
<=5 $y = 0.9433e^{-0.007x}$ generic case

BAAQMD Nearby Stationary Sources (report pulled 3/16/2023) **Distance to MEIR (ft)**

FID	FACID	Name	Address	Type	UTM X	UTM Y	Cancer	Hazard	PM2.5	Off-Site	On-Site	
3006	17734	The Home Depot Store #6636	43900 Icehouse Ter	Generator	593142	4152112	6.05	0.007	0.008	1151.3	1151.3	***Omit***
4321	20851	Quantum Clean	44050 Fremont Blvd	No Data	592789	4151920	0	0	0	1599.0	1599.0	
4322	20852	Quantum Clean	44010 Fremont Blvd	No Data	592786	4151940	0	0	0	1538.9	1538.9	
5836	24106	Jabil 4050 Technology	4050 Technology Place	No Data	592583	4151940	0	0.004	0	1849.5	1849.5	
7130	109686	Lee's Imperial Welding Inc	3300 Edison Way	Gas Dispensing Facility	593209	4151861	0.1	0	0	1963.4	1963.4	

Stationary Source Impacts at MEIRs

MEIR	FACID	Distance Multiplier	Cancer	Hazard	PM2.5
Off-site	3006	0.08	0.49	0.00	0.00
	4321	0.03	0.00	0.00	0.00
	4322	0.04	0.00	0.00	0.00
	5836	0.02	0.00	0.00	0.00
	7130	0.01	0.00	0.00	0.00

BAAQMD Nearby Mobile Sources

Mobie Source Impacts at MEIR, Construction

Receptor	Source	Cancer	Hazard	PM2.5
CNST MEIR	Mobile	20.77	0.06	0.42
		0.00	0.00	0.00
OPS MEIR		20.77	0.06	0.42

Off-site MEIR	Unmitigated		
Source Type	Cancer Risk (per million)	HI	$PM_{2.5}$ (ug/m^3)
Project Construction	3.53	0.00	0.02
Stationary	0.49	0.00	0.00
Mobile	20.77	0.06	0.42
Total	24.8	0.06	0.44

Off-site MEIR	Unmitigated		
Source Type	Cancer Risk (per million)	HI	$PM_{2.5}$ (ug/m^3)
Project Operations	1.72	0.00	0.00
Stationary	0.49	0.00	0.00
Mobile	20.77	0.06	0.42
Total	23.0	0.06	0.42

A-6 Energy Calcualtions

Energy Calcualtions- Construction

Source	MT CO2
Total GHG from Diesel Use	400.6436024
Total GHG from Gasoline Use	18.6880203
Onsite GHG from diesel use	360.8264737
Onroad GHG from diesel use	39.81712874

CO2 from diesel fuel combustion* =	10.21	kg of CO2/gallon of diesel
CO2 from gasoline fuel combustion* =	8.78	kg of CO2/gallon of gasoline
a*Emissions factors per The Climate Registry 2019 Default Emission Factors (Table 2.1 - US Default Factors for Calculating CO2 Emissions from Combustion of Transport Fuels)		
Conversion	1 MT =	1000 kg

Source	Fuel Use (gal)
onsite diesel	35,340.50
offsite diesel	3,899.82
total diesel	39,240.31
gasoline	2,128.48