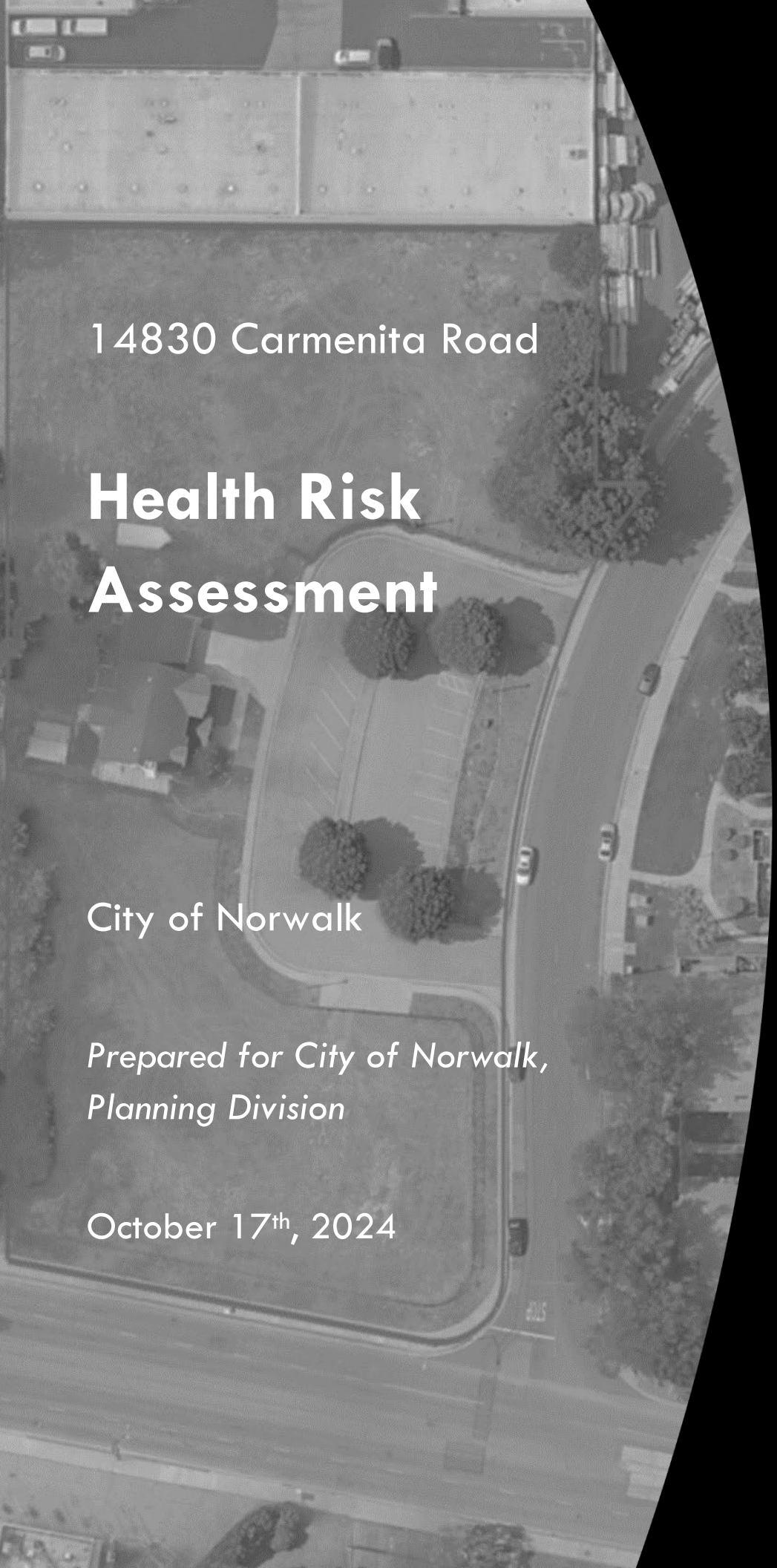

14830 Carmenita Road

Health Risk Assessment

City of Norwalk

Prepared for City of Norwalk, Planning Division

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1 INTRODUCTION

This Health Risk Assessment evaluates the potential impacts of the proposed 14830 Carmenita Road Project (proposed Project). The Project site is located at 14830 Carmenita Road in the City of Norwalk, within the jurisdiction of the South Coast Air Quality Management District (SCAQMD). The Project site is currently developed with two multi-tenant industrial warehouse buildings which total 89,970 square feet (SF). An updated site plan for the Project reflects a reduced proposed square footage of 138,972 SF. The proposed Project would demolish the existing warehouse buildings on the site and redevelop the site with approximately 138,972 SF of speculative general light industrial and warehouse. This includes 3,715 SF of office space and 3,030 SF of mezzanine. For the purposes of this analysis, a previously provided site plan of 144,901 SF is utilized to yield a conservative analysis. The Project location and site plan can be found in *Figure 1* and *Figure 2*, respectively.

1.1 Access and Circulation

The Project includes two driveways: one located on Excelsior Drive and another on Carmenita Road. Both driveways are designated for use by both autos and trucks, providing full access; however, the driveway on Excelsior Drive is the only one with direct access to the site. Therefore, Excelsior Drive entrance/exit, located on Excelsior Drive to the south of the Project, was assumed to be used for 100% of construction trips. While for operation, 95% of trips would utilize the driveway on Excelsior Drive, and 5% would utilize the driveway on Carmenita Road, traveling through the adjacent property. For the purpose of this analysis, no credit was taken from the existing warehouse buildings. Onsite circulation would be provided via a 12 meter wide drive aisle that would double as a fire lane.

1.2 Parking and Loading Docks

The Project would provide 141 stalls for auto parking, including 110 standard stalls, 6 accessible stalls, and 25 electric and future electric vehicle stalls. Standard parking stalls would be located along the south and southeast boundary of the Project as well as along the western site boundary of the proposed building. For this analysis, the previously provided site plan consisting of 142 stalls, including a higher amount of 111 standard stalls, is used to yield a conservative analysis. Additionally, the Project would include 22 dock doors located along the south side of the proposed building. The parking and loading dock details can be found in the site plan in Figure 2.

1.3 Operational Characteristics

The Project proposes a speculative general light industrial and warehouse building, with associated administrative offices. Operational characteristics include employee trips, deliveries to and from the site, and truck loading and unloading. Additionally, it is assumed that the proposed Project would utilize and equip up to 20% of the warehouse area, totaling 21,735 SF, dedicated to cold storage. The proposed Project would also include one emergency backup generator and one fire pump. The Excelsior Drive entrance/exit would be the main point of entry, with 95% of the operational trips assumed to utilize that

access. The Carmenita Road entrance/exit located east of the Project, was assumed to handle the additional 5% of operational trips. In order to provide a conservative analysis, operations are assumed to be 24 hours a day, seven days a week since no industrial operation hours are stated in the City of Norwalk municipal code.

1.4 Purpose of the Report

To support the CEQA document for the proposed Project, this report evaluates the potential health impacts to sensitive receptors from the construction and operation of the Project. This health risk assessment (HRA) focuses on the emissions of diesel particulate matter (DPM) from the construction and operation of the heavy-duty diesel vehicles and off-road construction equipment that would be utilized for the construction and operational purposes of the Project on a day-to-day basis. DPM has been identified by the California Air Resources Board (ARB) as a carcinogenic substance responsible for nearly 70% of the airborne cancer risk in California.[1] The estimated health risk impacts from the Project construction were compared to the health risk significance thresholds recommended by the SCAQMD for use in CEQA assessments.

This HRA employed the following tools to estimate the health impacts of the Project:

- The California Air Pollution Control Officers Association California Emissions Estimator Model (CalEEMod). Within the CalEEMod model (version 2022.1), the emission source model was used to calculate exhaust emissions from mobile sources such as diesel trucks.
- Mobile sources such as diesel trucks and construction equipment such as crawler tractors and cranes during the construction of the Project.
- The U.S. Environmental Protection Agency (EPA) AMS/EPA Regulatory Model (AERMOD Version 23132) air dispersion model to estimate DPM impacts to sensitive receptors.
- Cancer Risk Methodology from the California Office of Environmental Health Hazards Assessment (OEHHA)[2] and the SCAQMD.[3]

1.5 Summary of the Results

The Project's estimated maximum construction DPM emissions would exceed the lifetime cancer risk threshold of 10 in one million at the maximum impacted sensitive receptor. However, the Project's construction maximum DPM emissions would not exceed the non-cancer health risk significance threshold of 1.0. The operational maximum DPM emissions would not exceed the lifetime cancer risk threshold, nor the non-cancer hazard index (HI) threshold. Finally, the Project's combined construction and operational maximum DPM emissions would exceed the lifetime cancer risk threshold; however, it would not exceed the non-cancer risk significance threshold. Below are the impact results for lifetime and worker cancer risk, as well as lifetime non-cancer risk

[1] California Air Resources Board. (2017). *Study Links California Regulations, Dramatic Declines in Cancer Risk from Exposure to Air Toxics*. https://ww2.arb.ca.gov/news/study-links-california-regulations-dramatic-declines-cancer-risk-exposure-air-toxics
[2] California Office of Environmental Health Hazards Assessment 2015. Air Toxics Hot Spots Program. Risk Assessment Guidelines. Guidance Manual for Preparation of Health Risk Assessments. Website: https://oehha.ca.gov/media/downloads/crnr/2015guidancemanual.pdf
[3] SCAQMD. (2017). *Risk Assessment Procedures for Rules 1401, 1401.1, 1402, and 212, Version 8.1.*

calculations and combined construction and operational health risk impacts, analyzed without mitigation implemented.

Project Construction Unmitigated Health Risk Impacts:

- Sensitive/residential receptor for the 30-year lifetime exposure duration: 13.46 in one million,
- Worker receptor: 7.74 in one million,
- Sensitive receptor chronic non-cancer HI: 0.02,
- Worker receptor chronic non-cancer HI: 0.55.

Project Operational Health Risk Impacts:

- Sensitive/residential receptor for the 30-year lifetime exposure duration: 7.27 in one million,
- Worker receptor: 3.30 in one million,
- Sensitive receptor chronic non-cancer HI: <0.01,
- Worker receptor chronic non-cancer HI: 0.01.

Combined Construction/Operational Project Health Risk Impacts:

- Sensitive/residential receptor for the 30-year exposure duration: 19.01 in one million &
- Worker receptor: 4.75 in one million.

To mitigate the significant construction health risk impact, the following mitigation measure is proposed:

> **MM AQ-1: Tier 4 Construction Equipment:** The proposed Project shall utilize Tier 4 Final or superior equipment for engines exceeding 50 horsepower (hp). If construction equipment cannot meet Tier 4 Final engine certification standards, the Project representative or contractor must provide a future study with written findings, backed by substantial evidence, for approval by the City of Norwalk before resorting to alternative technologies or strategies. Potential alternative strategies may encompass the use of Tier 4 Interim equipment, reducing the number and/or horsepower rating of construction equipment, or limiting simultaneous equipment operation. All equipment must undergo tuning and adhere to the manufacturer's recommended maintenance schedule and specifications. Maintenance records for each piece of equipment, along with those of their contractors, must be available for inspection and kept on-site for a minimum of two years following construction completion.

Below are the cancer risk impacts analyzed with this mitigation implemented, as all chronic non-cancer HI results, without mitigated, do not exceed thresholds, the HI values are intentional omitted:

Project Construction Mitigated Health Risk Impacts:

- Sensitive/residential receptor for the 30-year lifetime exposure duration: 1.38 in one million

Combined Construction/Operational Project Mitigated Health Risk Impacts:

- Sensitive/residential receptor for the 30-year lifetime exposure duration: 5.74 in one million

Therefore, the construction of the proposed Project would result in a less than significant project-level and cumulative health risk impact with the implementation of MM AQ-1: Tier 4 Construction Equipment.

Figure 1: Project Location Figure

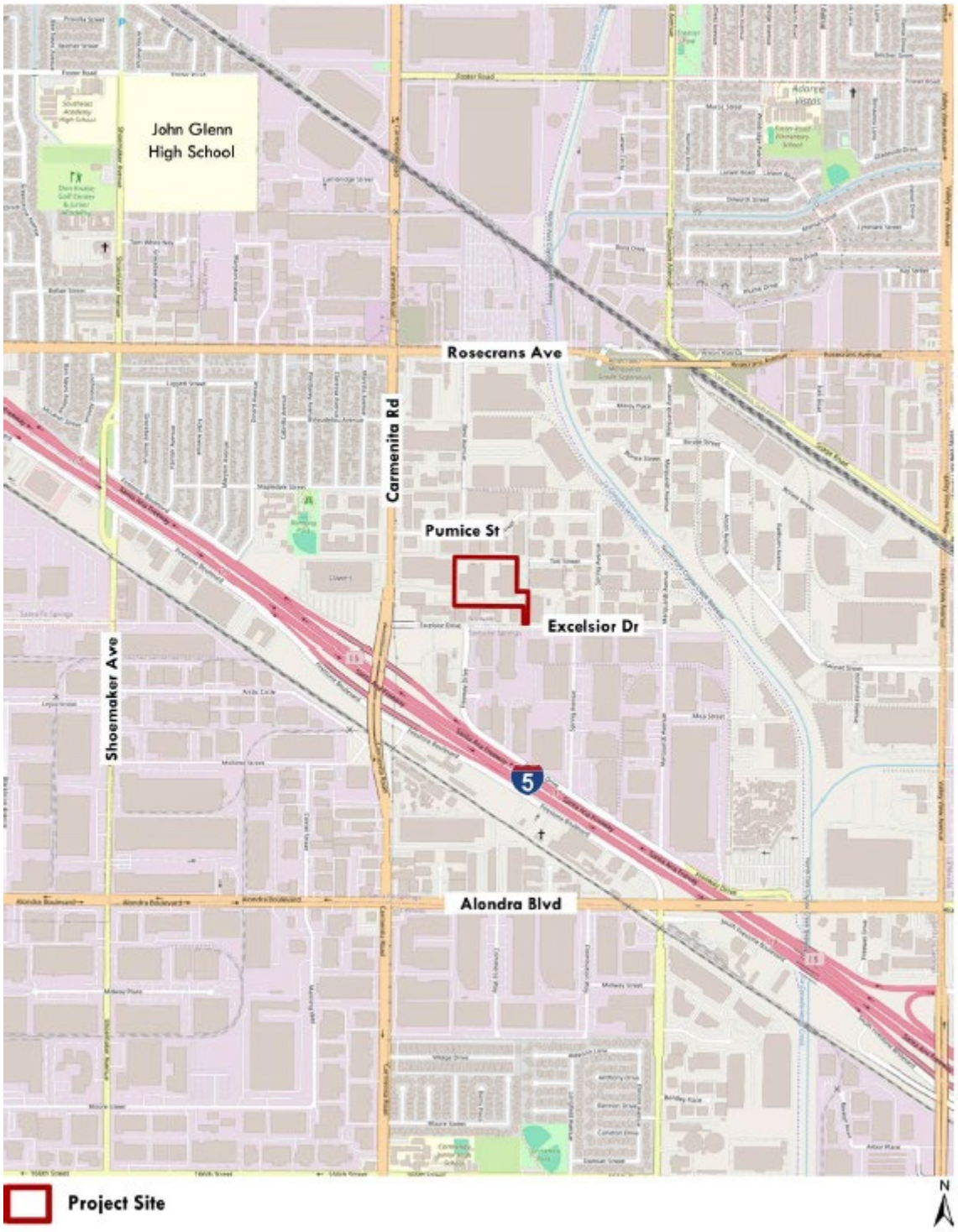
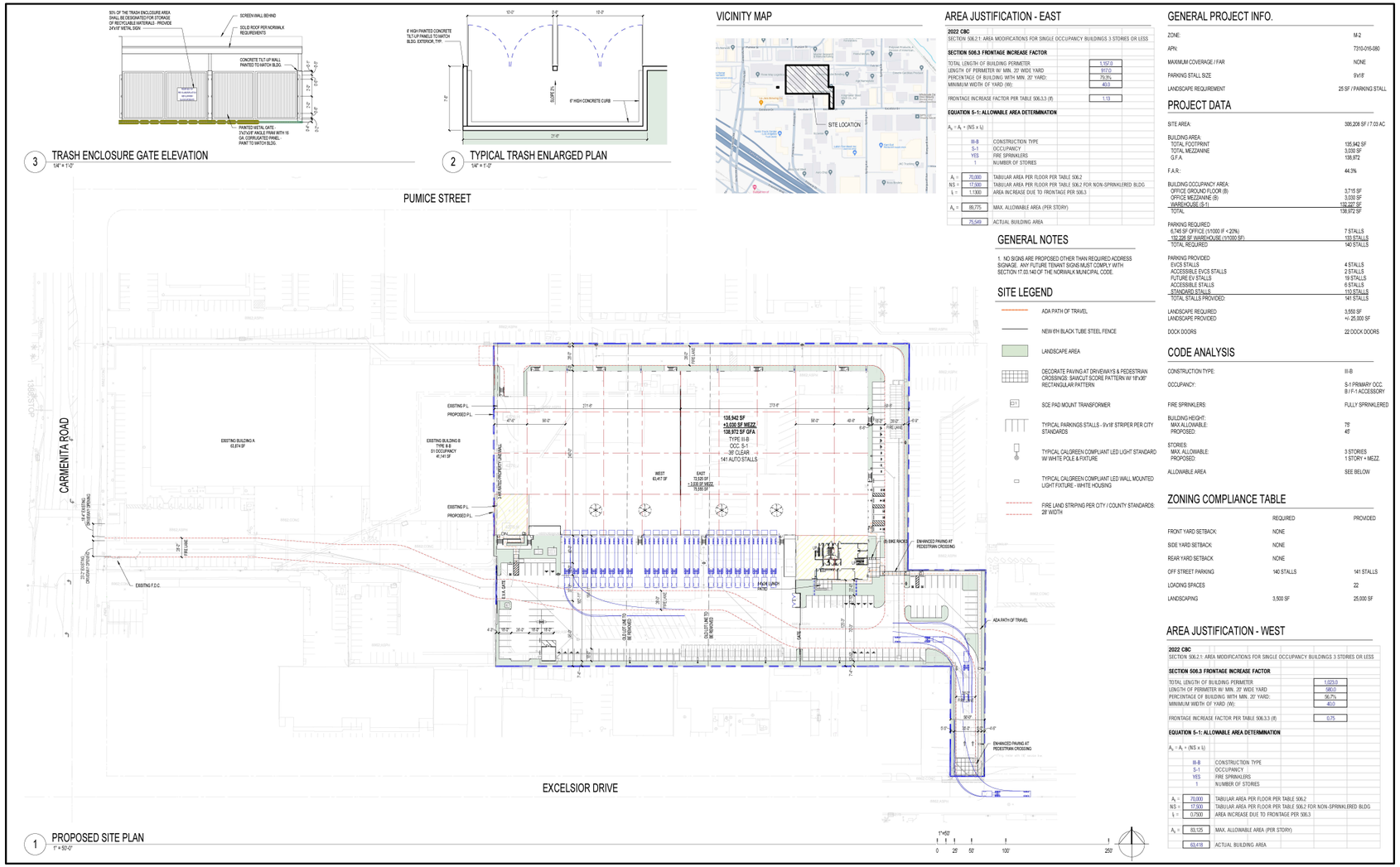


Figure 2: Project Site Plan



Source:

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2 HEALTH RISK ASSESSMENT

A Health Risk Assessment (HRA) is a guide that helps determine whether the risks from current or future exposures to a toxic chemical or substance in the environment could affect the health of a population. In general, the quantification of risk from the development of a project depends on the following factors:

- Identification of the toxic air contaminants (TACs) that may be present in the air;
- Estimation of the amount of TACs released from all emission sources using emission models;
- Estimation of the airborne concentrations of TACs in the geographic area of concern using air dispersion models using information about emissions, source locations, weather, and other factors;
- Estimation of the level of exposure to different concentrations of the TACs at different geographic locations and their consequential health impacts.

Thus, an HRA identifies the TACs that could affect public health, identifies the sources and quantities of the TAC emissions, estimates where the emissions are transported by prevailing meteorological conditions, and assesses the consequential health impacts due to the identified exposures.

The State of California Office of Environmental Health Hazards Assessment (OEHHA) has developed methods for conducting HRAs. As defined under the Air Toxics "Hot Spots" Information and Assessment Act:

> *"A health risk assessment means a detailed, comprehensive analysis prepared pursuant to Section 44361 to evaluate and predict the dispersion of hazardous substances in the environment and the potential for exposure of human populations and to assess and quantify both the individual and population-wide health risks associated with those levels of exposure."*[4]

The methodology used to estimate health risks and hazards that could potentially affect nearby sensitive receptors from the emissions of TACs is described below. The methodology included assumptions regarding emission source quantification, configurations and locations, receptor locations, air dispersion modeling, and health risk modeling. As noted above, this HRA focused on DPM emissions that the ARB has identified as the principal airborne carcinogenic substance in California. For purposes of this HRA, DPM was assumed to be comprised of PM_{10} vehicle exhaust emissions.

[4] California Health and Safety Code Section 44306 Chapter 1252. (1987) AB 2588.

2.1 SCAQMD Significance Thresholds

Project-Level

The City of Norwalk has not adopted a numerical significance threshold for cancer risk or non-cancer hazards. Therefore, the significance thresholds recommended by the SCAQMD were used for this assessment. The relevant significance thresholds are provided below:

- Cancer Risk: ten (10) persons per million population as the maximum acceptable incremental cancer risk due to exposure to TACs
- Non-Cancer HI: 1.0

Cumulative

The SCAQMD conducted an analysis of the cumulative effects of TACs within the South Coast Air Basin as part of its *Multiple Air Toxics Exposure Study in the South Coast Air Basin (MATES-V,* the draft version of this MATES study series).[5] The MATES-V study expresses cumulative TAC impacts in terms of potential increased cancer risks. The MATES-V Study estimates the cumulative TAC-source cancer risk for the localized area encompassing the Project site ranges from 300 to 400 in one million. DPM-source cancer risks are reflected in the area's ambient cumulative cancer risk along with all other TAC-source risks and account for the predominance (68%) of the total risk shown in MATES-V for the Project site area. The cancer risk upper limit of 400 in a million was assumed to comprise the impact from existing TAC emission sources in the region without the impacts from the Project. Because the existing cancer risk levels already exceed the cumulative significance threshold of 10 in one million, a cumulatively significant impact already exists at the Project site.

The SCAQMD has published a white paper[6] on addressing cumulative impacts from air pollution. The SCAQMD considers projects that exceed the Project-specific significance thresholds to be cumulatively considerable. Therefore, the Project-specific (noted above) and cumulative significance thresholds are the same. As a result, projects that do not exceed the Project-specific thresholds are not considered to be cumulatively significant.

2.2 Health Risk Estimation Methodology

Cancer Risk

Cancer risks are estimated as the upper-bound incremental probability that an individual would develop cancer due to exposure to potential carcinogens over a specified exposure duration. The estimated risk is expressed as a probability since there is no level below which some level of impact may occur. The cancer risk attributed to a chemical is calculated by multiplying the chemical intake or dose at the human exchange boundaries (e.g., lungs) by the chemical-specific cancer potency factor (CPF). A risk level of ten in a million

[5] South Coast Air Quality Management District (SCAQMD). (2021). *Multiple Air Toxics Exposure Study in the South Coast Air Basin (MATES-V)*. Website: http://www.aqmd.gov/home/air-quality/air-quality-studies/health-studies/mates-v
[6] South Coast Air Quality Management District (SCAQMD). (2003). *White Paper on Potential Control Strategies to Address Cumulative Impacts from Air Pollution.*

implies a likelihood that up to ten people in a population of one million equally exposed people could contract cancer if exposed continuously (24 hours per day) to the levels of TACs over a specified duration of time. This risk is an excess cancer risk in addition to any environmental cancer risk borne by a person not exposed to these air toxins.

The exposure dose is the amount of a chemical taken into the body at a given time. In particular, the exposure dose through inhalation ($Dose_{air}$) is a function of the breathing rate, the exposure frequency, and the concentration of exposures. Breathing rates change over time for different age groups and are determined for specific age groups. The $Dose_{air}$ is calculated for each of the following age groups: 3rd trimester to birth, and 0 to 2, 2 to 16, and 16 to 30 years of age. The OEHHA recommends that the 30-year exposure duration be used as the basis for public notification and risk reduction audits and plans.[7] The risks for each age group are summed together to provide a total estimate of lifetime cancer risks for sensitive receptors. To estimate the cancer risk, the $Dose_{air}$ is estimated by applying the following equation to the DPM concentration at each receptor as calculated by the air dispersion model:

$$Dose_{air} = C_{DPM} \times DBR_i \times A \times EF_i \quad \text{(EQ-1)}$$

Where:

$Dose_{air}$ = dose through inhalation (mg/kg/day)

C_{DPM} = period average concentration of DPM as estimated by the air dispersion model (µg/m^3)

DBR = daily breathing rate for each age group (liters/kg-day)—see Table 7

A = Inhalation absorption factor (unitless = 1)

EF = exposure frequency (days per year)

i – number of age groups

The dose is multiplied by the cancer potency factor, the age sensitivity factors (ASF), the exposure duration (ED), and the fraction of time spent at home (FAH, for sensitive/residential receptors only) divided by averaging time (AT) to arrive at an estimate of cancer risk:

$$\text{Cancer Risk} = \sum_{i=1}^{n} Dose_{air,i} \times CPF \times ASF_i \times ED_i \times FAH_i/AT \quad \text{(EQ-2)}$$

Where:

Cancer Risk = Total individual excess inhalation cancer risk, defined as the cancer risk a hypothetical individual faces if exposed to carcinogenic emissions from a particular source for specified exposure durations; this risk is summed over all age groups; cancer risk is expressed in terms of risk per million exposed individuals.

$Dose_{air,i}$ = inhalation dose through inhalation (mg/kg-day)

CPF = inhalation cancer potency factor (mg/kg-day)$^{-1}$

ASF_i = age sensitivity factors (see Table 1)

[7] California Office of Environmental Health Hazards Assessment. (2015). *Risk Assessment Guidelines, Guidance Manual for Preparation of Health Risk Assessments*. Page 8-6.

ED_i = exposure duration (years)—see Table 1

AT = averaging time of lifetime cancer risk (70 years)

FAH_i = fraction of time spent at home—see Table 1

n = number of age groups

For purposes of this HRA, the 30-year exposure duration for sensitive/residential receptors, consistent with the OEHHA/SCAQMD guidance, was assumed to span the time period of the third trimester birth in 2026 (the Project's opening year) to the year 2056. The OEHHA recommends that the 30-year exposure duration be used as the basis for public notification and risk reduction audits and plans. Estimates of cancer risk were also provided for informational purposes for child exposure (3rd trimester pre-birth to 9 years), adult exposure (30 years), and a full lifetime exposure (3rd trimester pre-birth to 70 years).

Table 1 provides the values for the various cancer risk parameters shown in equations EQ-1 and EQ-2 for the receptor types examined in this assessment. For DPM, the value of the CPF is 1.1 milligrams per kilogram per day.

Table 1: Exposure Assumptions for Cancer Risk–OEHHA/SCAQMD Guidance

Age Group	Exposure Frequency, EF		Exposure Duration, ED (Years)	Age Sensitivity Factors (ASF)	Fraction Time at Home (FAH)	Daily Breathing Rate[a] (DBR) (l/kg-day)
	Hours/Day	Days/Year				
Sensitive/Residential Receptor – Pre-birth to Adult (30-year duration)						
3rd Trimester to Birth	24	350	0.25	10	1.0	361
0 to 2 years	24	350	1	10	1.0	1,090
2 to 16 years	24	350	14	3	1.0	745
16 to 30 years	24	350	14	1	0.73	335
Sensitive Receptor/Residential Child (9-year duration)						
3rd Trimester to Birth	24	350	0.25	10	1.0	361
0 to 2 years	24	350	2	10	1.0	1,090
2 to 9 years	24	350	9	3	1.0	861
Sensitive Receptor/Residential Receptor – Adult (30-year duration)						
17 years and older	24	350	30	1	0.73	335
Sensitive Receptor/Residential Receptor – Pre-birth to Adult (70-year duration)						
3rd Trimester to Birth	24	350	0.25	10	1.0	361
0 to 2 years	24	350	2	10	1.0	1,090
2 to 16	24	350	14	3	1.0	745
16 to 70 years	24	350	54	1	0.73	290
Worker Receptor (25-years duration)						
17 years and older	8	250	25	1	1	230

[a] Daily breathing rates are representative of the 95th percentile for sensitive/residential receptors.
(L/kg-day) = liters per kilogram body weight per day
Source: SCAQMD Rule 1401

Chronic Non-Cancer Hazard

TACs can also cause chronic (long-term) effects on non-cancer illnesses such as reproductive effects, birth defects, or adverse environmental effects. Non-cancer health risks are conveyed in terms of the Hazard Index (HI). A ratio of the predicted concentration of the facility's reported TAC emissions to a concentration is considered acceptable to public health professionals. A significant risk is defined as an HI of 1 or greater. An HI of less than 1 indicates that no significant health risks are expected from the facility's TAC emissions. The following equation gives the relationship for the non-cancer hazards for TACs:

$$HI = C_{ann}/REL \quad \text{(EQ-3)}$$

Where:

HI = Hazard Index: an expression of the potential for chronic non-cancer health risks

C_{ann} = Annual average TAC concentration ($\mu g/m^3$)

REL = Reference Exposure Level: the DPM concentration at which no adverse health effects are anticipated

As predicted by the air dispersion model, annual concentrations of DPM are used to estimate chronic non-cancer hazards. The OEHHA has defined a REL for DPM of 5 $\mu g/m^3$.

2.3 Estimation of Project DPM Emissions

Construction DPM Emissions

Construction emissions were calculated using the latest California Emissions Estimation Model version, CalEEMod Version 2022.1.[8] DPM construction emissions were based on the CalEEMod construction runs for the proposed construction schedule and equipment inventory, using exhaust PM_{10} construction emissions to represent DPM emissions. Construction-related DPM emissions are expected to primarily occur as a function of heavy-duty construction equipment that would operate onsite. Additional DPM emissions would occur from the operation of construction vehicles that travel to/from the Project during construction (haul trucks, vendor trucks, and worker vehicles). The travel links used to estimate the construction DPM emissions were: 100% trucks entering and exiting the site through the south driveway on Excelsior Drive, and 50% of trips utilizing the I-5 North ramp, and the remaining 50% of trips utilizing the I-5 South ramp. These construction travel link assumptions can be found in Appendix C.1.

Construction Equipment Emission Inventory Development

The first requirement to conduct the HRA involves identifying and quantifying the sources of construction DPM air emissions from the Project, also termed an emission inventory. Each piece of equipment that emits DPM is identified in terms of its location and physical characteristics (release height, release temperature, etc.) and the chemical nature of the emissions. The predominant sources of DPM emissions resulting from the construction of the Project derive from the heavy-duty diesel trucks that travel to, from, and within the Project site each day, as well as the off-road construction equipment used during the six construction phases: demolition, site

[8] California Air Resources Board 2017. https://ww2.arb.ca.gov/msei-road-archives-0.

preparation, grading, building construction, paving, and architectural coating. The Project's DPM exhaust emissions were calculated using the PM_{10} exhaust emissions calculated from CalEEMod. Table 2 shows the Project's construction schedule and Table 3 shows the Project's proposed construction equipment. Table 4 shows the proposed construction vehicle use for worker, vendor, and hauling trips. Table 5 depicts the daily average DPM emissions of the Project's construction, without mitigation. Figure 3 provides the locations of the construction onsite and offsite construction DPM emission sources.

Table 2: Construction Schedule

Activity	Start Date	End Date	Total Days
Demolition	9/2/2025	9/30/2025	20
Site Preparation	10/1/2025	10/15/2025	10
Grading	10/16/2025	11/13/2025	20
Building Construction	11/14/2025	9/3/2026	210
Paving	9/4/2026	10/1/2026	20
Architectural Coating	10/1/2026	10/28/2026	20

Source: See CalEEMod Output in Appendix A

Table 3: Proposed Project Construction Equipment Inventory

Activity	Equipment	Daily Equipment Quantity	Project Hours per day	Default Horsepower	Default Load Factor
Demo	Concrete/Industrial Saws	1	8	33	0.73
	Excavator	3	8	36	0.38
	Rubber Tired Dozers	2	8	367	0.4
Site Preparation	Rubber Tired Dozers	3	8	367	0.4
	Crawler Tractors	4	8	87	0.43
Grading	Grader	1	8	148	0.41
	Excavator	1	8	36	0.38
	Rubber Tired Dozers	1	8	367	0.4
	Crawler Tractors	3	8	87	0.43
Building Construction	Forklift	3	8	82	0.2
	Generator	1	8	14	0.74
	Crane	1	8	367	0.29
	Welder	1	8	46	0.45
	Tractor	3	8	84	0.37
Paving	Paver	2	8	81	0.42
	Paving	2	8	89	0.36
	Roller	2	8	36	0.38
Architectural Coating	Air Compressors	1	8	37	0.48

Source: See CalEEMod Output in Appendix A

Table 4: Proposed Construction Vehicle Use

Activity	Construction Trips per Day		
	Worker	Vendor Truck	Haul Truck
Demolition	136	0	105
Site Preparation	18	0	0
Grading	15	0	183
Building Construction	61	24	0
Paving	15	0	0
Architectural Coating	12	0	0

Source: See CalEEMod Output in Appendix A

Table 5: Project Off-Site Construction Source DPM Daily Emissions: Unmitigated

Activity	Work Days	On-Site	Off-Site	Total
		Maximum Daily DPM Emissions[1] (pounds/day)	Maximum Daily DPM Emissions[1] (pounds/day)	Average Daily Construction Emissions (pounds/day)
2025				
Demolition	20	0.92	0.09	
Site Preparation	10	1.93	0.00	
Grading	20	1.15	0.16	
Building Construction	35	0.47	0.01	
Average Daily Construction Emissions 2025		1.12	0.07	0.60
2026				
Building Construction	175	0.41	0.01	
Paving	20	0.32	0.00	
Architectural Coating	20	0.03	0.00	
Average Daily Construction Emissions 2026		0.25	0.003	0.13
2025-2026 Maximum Daily Construction Emissions (pounds/day)				0.060

Source: See Data Attachment in Appendix C.1

Figure 3: Locations of the Project's Construction On-site and Off-site DPM Emission Sources

Operational DPM Emissions

The first requirement to conduct the HRA involves identifying and quantifying the sources of operational DPM air emissions from the Project, also termed an emission inventory. Each piece of equipment that emits DPM is identified in terms of its location and physical characteristics (release height, release temperature, etc.) and the chemical nature of the emissions. The predominant sources of DPM emissions resulting from the operation of the Project derive from the heavy-duty diesel trucks that travel to and from and within the project site each day.

Estimation of Mobile Source Emissions

Estimates of mobile source emissions are based on an emission factor and an activity level. An emission factor quantifies the amount of air emission for a specific activity, such as a gram of DPM (as PM_{10} exhaust) emitted per vehicle mile traveled or per hour of idling, while the activity level is defined as the vehicle trip, number of miles traveled, or the amount of time a vehicle spends idling.

Emissions from motor vehicles can be characterized as follows:

> Combustion emissions (grams/mile or grams/hour for idling) resulting from the combustion of diesel fuel from heavy-duty trucks are the primary source of DPM emissions. The ARB EMFAC2021 mobile source emission model provides emission rates for user-defined heavy-duty truck speeds, fuel type, vehicle class, and model year.

The emissions of DPM from mobile sources are calculated as follows for running exhaust emissions and idling emissions:

$$\text{Running Exhaust Emissions}_{RE} = \sum_{i=1}^{n} (VMT_i \times EF_i)$$

$$\text{Idling Emissions}_{ID} = \sum_{i=1}^{n} (IdNum_i \times T_i \times EF_i)$$

Where:

Emissions_{RE} = Running exhaust emissions summed over all vehicle classes

Emissions_{ID} = Idling emissions summed over all vehicle classes

EF_i = Running exhaust emission factor for each vehicle type at a specific vehicle speed (g/mi)

EF_{idling} = Idling emission factor for each vehicle class (g/idle-hour)

VMT_i = Total number of vehicle miles summed over all vehicle classes (miles per day)

$IdNum_i$ = Number of idling vehicles by vehicle class

T_i = Idling hours summed over all vehicle classes (hours per day)

n = Number of vehicle classes

$_i$ = Vehicle class

2.4 Mobile Source Activity Levels

The motor vehicle activity levels were estimated using the vehicle trip information provided in the Level of Service (LOS) Memorandum[9] summarizes the daily motor vehicle trips from the Project based on information derived from the Project Trip Generation Report. The trip rate estimates shown at the top of Table 6 refer to both gasoline and diesel-fueled vehicles. Table 6 presents the percentage of diesel vehicle trips by heavy-duty vehicle class for Los Angeles County in 2023, as derived from the EMFAC2021 mobile source emission model. Table 7 presents the number of heavy-duty diesel trips for the Project operation based on the total number of vehicle trips and Table 8 presents the diesel vehicle percentages provided in the EMFAC2021 emission model. Calculation details can be found in Appendix C.2 Data Attachment.

Table 6: Project Daily Operational Vehicle Trips

Area		**Trip Rate (trips/TSF)**
Building 1 (Manufacturing): 115,921 SF		1.71
Building 2 (General Light Industrial): 28,980		4.87
Building 1: Manufacturing		
Fleet Mix	**Percentage of Fleet**	**Vehicle Trips per Day**
Passenger Cars (LDA, LDT1, LDT2, MDV)	55.30%	110
2-axle Trucks (LHDT1, LHDT2)	15.50%	31
3-axle Trucks (MHDT)	4.90%	10
4-axle Trucks (HHDT)	24.30%	48
Building 1 Total	**100%**	**198**
Building 2: General Light Industrial		
Fleet Mix	**Percentage of Fleet**	**Vehicle Trips per Day**
Passenger Cars (LDA, LDT1, LDT2, MDV)	72.50%	102
2-axle Trucks (LHDT1, LHDT2)	4.60%	6
3-axle Trucks (MHDT)	5.70%	8
4-axle Trucks (HHDT)	17.20%	24
Building 2 Total	**100%**	**141**
Total	**100%**	**339**

Source: See Data Attachment in Appendix C.2
LDA: light duty automobile
LDT1/LDT2: light duty trucks
MDV: medium duty vehicle
LHDT1/LHDT2: light heavy-duty trucks;
MHDT: medium heavy-duty trucks
HHDT: heavy heavy-duty trucks

[9] EPD Solutions, Inc. (2024). *Carmenita LOS Memo*.

Table 7: Diesel Heavy-Duty Truck Vehicle Fleet

Type of Vehicle	Diesel Fuel Vehicles (% of Vehicle Trips)
Light heavy-duty truck (LHDT1)	34.39%
Light heavy-duty truck (LHDT2)	62.05%
Medium heavy-duty truck (MHDT)	100%
Heavy heavy-duty truck (HHDT)	100%

Source: See Data Attachment in Appendix C.2

Table 8: Number of Daily Project Diesel Truck Vehicle Trips

Type of Vehicle	Daily Diesel Vehicle Trips
Light heavy-duty truck (LHDT1)	10
Light heavy-duty truck (LHDT2)	5
Medium heavy-duty truck (MHDT)	18
Heavy heavy-duty truck (HHDT)	72
Total	**105**

Source: See Data Attachment in Appendix C.2

The Project's operational heavy-duty diesel truck emissions were estimated for vehicle travel while on the Project site and offsite as the Project's vehicles travel on the local roadway network. All vehicles were assumed to travel at 5 miles per hour while traveling on site, as well as the adjacent parcel when utilizing the Carmenita Road driveway. Once on either Excelsior Drive or Carmenita Road, vehicles were analyzed as traveling 25 miles per hour. The Project's operational travel link assumptions can be found in Appendix C.2.

DPM Truck Emission Factors

The DPM (as PM_{10} exhaust) emission factors were derived from the ARB EMFAC2021, within Los Angeles, for the Project's opening year of 2026. The model retrieved mobile source emission model in terms of grams per mile (grams/VMT) for the running exhaust emissions and grams per idle-hour (g/idle-hr) for idling emissions. The emission factors used in this analysis overstate the potential impacts of the proposed Project, as heavy-duty truck emissions are expected to decrease in future years due to the requirement to comply with existing and future emission regulations requiring vehicle fleet replacement with cleaner technologies.

Transportation refrigeration units (TRUs) are small diesel-fueled engines placed on trucks or trailers to refrigerate perishable products. This analysis assumed that 20% of the industrial warehouse floor space, resulting in 21,735 SF of the Project's total square footage could be devoted to refrigeration use. Thus, 20% of all heavy-duty diesel trucks were assumed to be equipped with a TRU. DPM emissions from the TRUs were estimated for travel within the Project site, while idling at the loading docks, and traveling beyond the Project site along the assumed pathway network. Each TRU was assumed to operate for 60 minutes at the loading docks as a reasonable estimate of the time to unload/load product. DPM emissions for the TRUs were derived

from the ARB OFFROAD2021 mission model for the SCAQMD in 2026.[10] The Data Attachment in Appendix C.2 presents the data and assumptions for estimating the TRU emissions. Table 9 presents the DPM (as PM_{10} exhaust) emission factors that were applied in this HRA. Figure 4 provides the locations of the operational onsite and offsite DPM emission sources.

Table 9: DPM Diesel Truck Emission Factors

Type of Vehicle	Idling Emission Factor (g/idle-hr)	Running Exhaust @ 5 mph (g/mi)	Running Exhaust @ 25 mph (g/idle-hr)
Light heavy-duty truck (LHDT1)	0.331	0.063	0.030
Light heavy-duty truck (LHDT2)	0.553	0.063	0.030
Medium heavy-duty truck (MHDT)	0.050	0.041	0.011
Heavy heavy-duty truck (HHDT)	0.813	0.015	0.007

Source: See Data Attachment in Appendix C.2

[10] California Air Resources Board 2021. Measures for Reducing Emissions from On-Road Heavy Duty Vehicles. Website: http://www.aqmd.gov/docs/default-source/clean-air-plans/air-quality-management-plans/2022-air-quality-management-plan/heavy-duty-trucks-presentations-06-03-21.pdf

Figure 4: Locations of the Project's Operational On-site and Off-site DPM Emission Sources

2.5 Atmospheric Dispersion Methodology

Atmospheric dispersion modeling is the mathematical simulation of how air pollutants disperse in the ambient atmosphere. The modeling is performed with computer programs that solve algorithms simulating the movement and dispersion of air pollutants. The air dispersion model uses emissions from various emission sources and meteorological data such as wind speed and direction, air temperature, and atmospheric mixing rates to estimate the air pollutant impacts at various geographic locations (referred to as receptor locations).

Tables 10 and 11 provide the general assumptions applied in the AERMOD model (Version 23132).

Table 10: General Modeling Assumptions

Feature	Assumption
Terrain Processing	Complex terrain; elevations were obtained for the Project site using the EPA AERMAP terrain data pre-processor Version 18081; Data Set: 8930_75m.dem and 9047_75m.dem
Land Use	Urban based on land use patterns surrounding the Project site
Meteorological Data	Fullerton Municipal Airport, CA used for the years 2012-2016 from SCAQMD as representative of meteorological conditions on the Project site.
Receptor locations and heights	A network grid was used to include all existing residences and worker locations surrounding the Project site. Additional receptors were located at nearby residences. Finally, receptors were placed at ground level.
Population	City of Norwalk: 98,537 Greater Los Angeles Metropolitan Area: ~18,600,000
Building Profile Heights	Surrounding building height dimensions input to analyze the sidewash effect from building downwash due to meteorological factors.

Source: See Data Attachment in Appendix B.1-B.3

Table 11: Summary of Construction and Operational Emission Source Configuration

Emission Source Type	Geometric Configuration	Relevant Assumptions
Construction Sources	Polygon Area Source	• Size of the construction area source was the size of the Project area to be constructed (approximately 3.33 acres or144,901 SF); • Construction Equipment emission source release height – 5 meters; • Emissions generated from the CalEEMod model; • Operations: 24 hours a day, 265 days a year.
Onsite Diesel Vehicle Traffic	Line Area Sources	• Line source: height – 3.11 meters (10.2 feet) and plume height 6.2 meters (20.4 feet) (EPA Haul Roads Calculator); • Operational Site access: 5% accessed west of the site by Carmenita Road; 95% accessed south of the site by Excelsior; • Vehicle types: see Table 7 and 8; includes TRU emissions;

		• Assumed two lanes, in and out of driveways onsite as number of truck trips; • Emission factor: ARB EMFAC 2021; DPM (as PM10 exhaust) emission factors at 5 mph for 2026 for the Los Angeles County – South Coast Air Basin; no credit for future emission factor reductions; • TRU assumed to operate for 1 hour at the loading dock; 20% assumed TRU; • Operations: Assumed 24 hours for conservative analysis.
Onsite Diesel Truck Idling	Point Sources distributed along proposed loading docks	• Stack release height = 12 feet; • Idle time: 60 minutes per truck per day; • Vehicle type: heavy-duty diesel haul trucks including TRU emissions; • Emission factor: ARB EMFAC 2021 for Los Angeles County –South Coast Air Basin subarea; • TRU assumed to operate for 1 hour at the loading dock; • Operations: 24/7.
Offsite Construction Vehicle Traffic	Line Area Source	• Line Source release height: 3.11 meters (10.2 feet) with a plume height of 6.2 meters (20.4 feet) (EPA Haul Roads Calculator); • Travel to and from the Project's site. Routes assumed traveling to and from: • Off-site Routes used are as follows: Off-site Route 1: Site>Carmenita Rd.>Intersection 5%; Off-site Route 2: Sire>Excelsior Dr.>Intersection 95%; Off-site Route 3: Intersection> I-5 Ramp Junction 100%; Off-site Route 4: I-5 Ramp Junction>I-5 North Ramp 50%; Off-site Route 5: I-5 Ramp Junction>I-5 South Ramp 50%; • Operations: 24 hours a day, 265 days a year.
Onsite Emergency Generator and Fire Pump	Point Source	• Release Height: 2.256 meters (7.4 feet); • 238 hp, 0.15 grams/hp-hr emission rate; • Limited to 50 hours per year for maintenance and testing.
Building Downwash	Polygonal Building	• Buildings analyzed in a 6,000 feet surrounding perimeter, outlined by Carmenita Road, Excelsior Drive, Spring Avenue (East of the Project site) and Pumice Street (North of the Project site); • Building height inputs approximated, ranging from 15 feet to 45 feet.

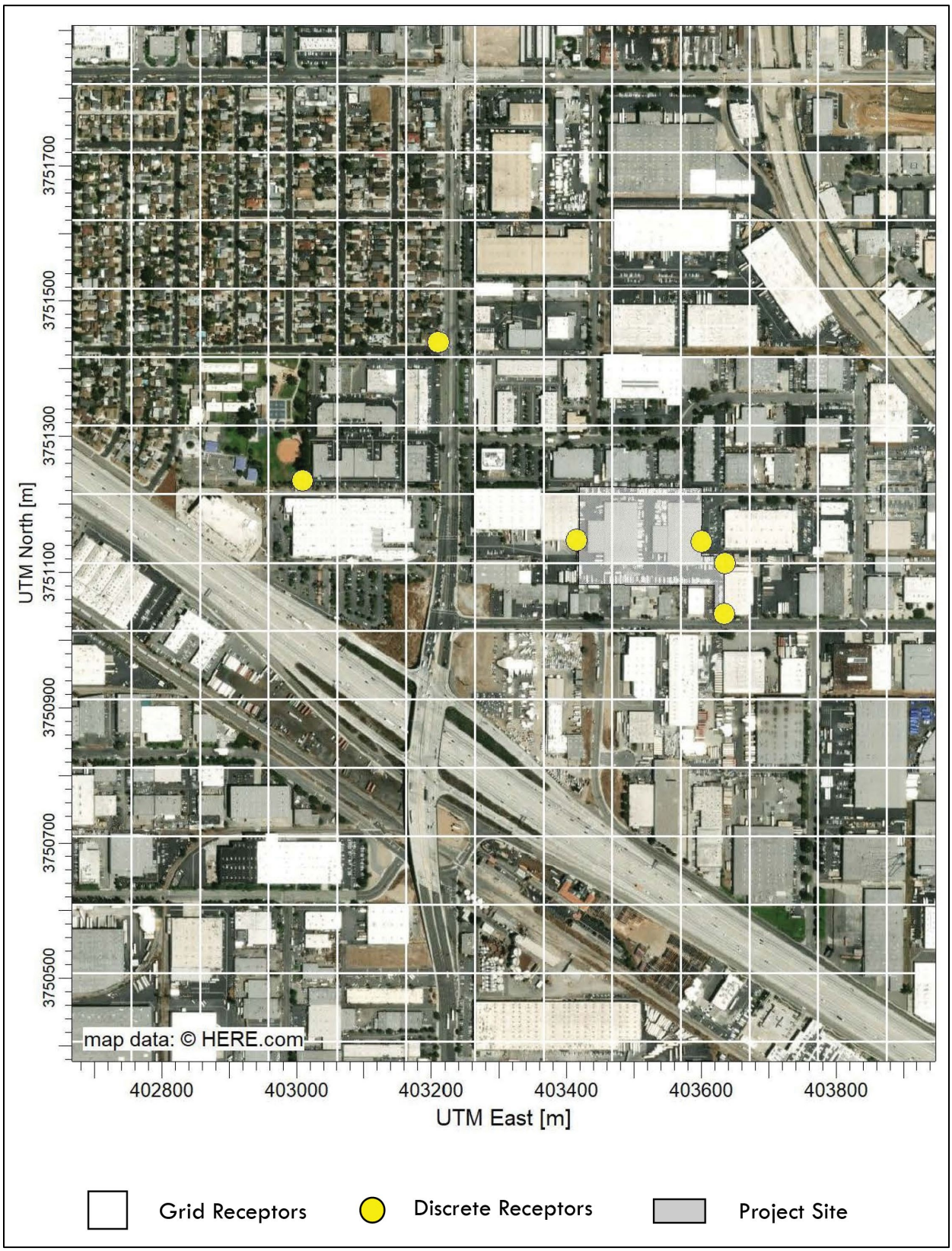
Source: See Data Attachment in Appendix B.1-B.3

2.6 Receptors

The SCAQMD defines a sensitive receptor as any residence, including private homes, condominiums, apartments, and living quarters, schools, preschools, daycare centers, and health facilities such as hospitals or retirement and nursing homes. A sensitive receptor includes long-term care hospitals, hospices, prisons, and dormitories, or similar live-in housing. For purposes of this HRA, sensitive receptors were placed within the air dispersion model at the location of existing residences and locations along the offsite Project vehicle travel routes. In addition, a regular grid network of receptors was placed over the Project site to complete

the receptor network. The nearest sensitive receptor was a residence located approximately 1,310 feet (400 meters) west of the Project boundary, while the nearest worker receptor was located at a light manufacturing building 70 feet (21.5 meters) to the north of the Project boundary. Figure 5 shows the receptor locations included in the HRA.

Figure 5: Locations of Air Dispersion Model Receptors



3 RESULTS OF THE HEALTH RISK ASSESSMENT

3.1 Project-Level Risk Results

Tables 12, 13, and 14 present a summary of the cancer risks and chronic non-cancer hazards resulting from the Project's construction, operational, and combined DPM emissions along with the SCAQMD health risk significance thresholds. As noted from Table 12 and Table 14, the estimated unmitigated maximum cancer risk is 13.46 in one million for sensitive/residential receptors for construction and 19.01 in one million for sensitive/residential receptors for combined construction and operational, surpassing the 10 in one million significance threshold. However, as noted from Table 13, the Project's maximum operational health risk is estimated to be 7.27 in one million, which is below the 10 in one million significance threshold. Also, as noted from Table 12-14, the worker receptors estimated health risk for all three model scenarios would be below the 10 in one million significance threshold.

In addition to identifying the cancer risk, Tables 12 and 13 show the maximum non-cancer HI for the project construction and operation respectively. As noted from Tables 12 and 13, the Project's construction, operation, and combined construction and operation would result in an HI below SCAQMD's threshold of 1.0 for both sensitive receptors and worker receptors. The Project's estimated non-cancer health risk during the Project's construction is 0.02 and 0.55 for sensitive and worker receptors respectively, both below the significance threshold of 1.0.

Thus, the Project would have a less-than-significant impact related to all chronic non-cancer risks; however, there would be a significant impact related to cancer risk during the construction phase. Mitigation measures to reduce the impact are identified in Section 3.2, *Project Mitigation*, of this report.

Table 12: Summary of Proposed Project Construction Health Risk: Unmitigated

Receptor	Cancer Risk (per million)		Exceeds Significance Threshold?
	Maximum Lifetime Proposed Project Risk	Significance Threshold	
Maximum Impacted Sensitive Receptor – Infant to Adult (30 years)	13.46	10	Yes
Maximum Impacted Sensitive Receptor – Child	13.46	10	Yes
Maximum Impacted Sensitive Receptor – Adult	0.31	10	No
Maximum Impacted Worker Receptor	7.74	10	No
Receptor	**Chronic Non-Cancer Hazard Index**		**Exceeds Significance Threshold?**
	Maximum Lifetime Proposed Project Risk	**Significance Threshold**	
Maximum Impacted Sensitive Receptor – Infant to Adult (30 years)	0.02	1.0	No
Maximum Impacted Sensitive Receptor – Child	0.02	1.0	No
Maximum Impacted Sensitive Receptor – Adult	0.02	1.0	No
Maximum Impacted Worker Receptor	0.55	1.0	No

Source: See Data Attachment in Appendix D.1

Table 13: Summary of Proposed Project Operational Health Risk

Receptor	Cancer Risk (per million)		Exceeds Significance Threshold?
	Maximum Lifetime Proposed Project Risk	Significance Threshold	
Maximum Impacted Sensitive Receptor – Infant to Adult (30 years)	7.23	10	No
Maximum Impacted Sensitive Receptor – Child	5.16	10	No
Maximum Impacted Sensitive Receptor – Adult	0.93	10	No
Maximum Impacted Worker Receptor	3.30	10	No
Receptor	**Chronic Non-Cancer Hazard Index**		**Exceeds Significance Threshold?**
	Maximum Lifetime Proposed Project Risk	**Significance Threshold**	
Maximum Impacted Sensitive Receptor – Infant to Adult (30 years)	<0.01	1.0	No
Maximum Impacted Sensitive Receptor – Child	<0.01	1.0	No
Maximum Impacted Sensitive Receptor – Adult	<0.01	1.0	No
Maximum Impacted Worker Receptor	0.01	1.0	No

Source: See Data Attachment in Appendix D.3

Table 14: Summary of Combined Project Unmitigated Construction and Operational Health Risk

Receptor	Cancer Risk (per million)		Exceeds Significance Threshold?
	Maximum Lifetime Proposed Project Risk	Significance Threshold	
Maximum Impacted Sensitive Receptor – Infant to Adult (30 years)	19.01	10	Yes
Maximum Impacted Worker Receptor	4.75	10	No

Source: See Data Attachment in Appendix D.4

3.2 Project Mitigation

Per SCAG's 4.0 Mitigation Measure (MM) AQ-1, projects are required to utilize Tier 4 Final or superior equipment for engines exceeding 50 horsepower (hp).[11] If construction equipment cannot meet Tier 4 Final engine certification standards, the Project representative or contractor must provide a future study with written findings, backed by substantial evidence, for approval by SCAG before resorting to alternative

[11] South Coast Association of Governments (SCAG). (2020). *Connect SoCal PEIR Addendum.* https://scag.ca.gov/sites/main/files/file-attachments/fpeir_connectsocal_addendum_4_mitigationmeasures.pdf?1606004420

technologies or strategies. Potential alternative strategies may encompass the use of Tier 4 Interim equipment, reducing the number and/or horsepower rating of construction equipment, or limiting simultaneous equipment operation. All equipment must undergo tuning and adhere to the manufacturer's recommended maintenance schedule and specifications. Maintenance records for each piece of equipment, along with those of their contractors, must be available for inspection and kept on-site for a minimum of two years following construction completion. An exception to this requirement may be considered if a project can demonstrate that Tier 4 engines are unnecessary to reduce emissions below significance thresholds. Since the cancer risk and non-cancer HI for the unmitigated operational results are below the SCAQMD significance threshold, these calculations were intentionally omitted as they are compliant without mitigation.

The updated cancer risk for the construction and combined construction and operation impacts with the implementation of Tier 4 mitigation measures was calculated and is shown in Tables 15 and 16, respectively. As noted in Tables 15 and 16, the proposed Project's construction and combined construction and operation maximum lifetime cancer risk values are 1.38 and 5.74 in one million, respectively, which is below the utilized SCAQMD thresholds for the proposed Project. Thus, the impact would be less than significant with the implementation of MM AQ-1.

As the Project's chronic non-cancer risk, adult cancer risk, and worker cancer risk results were below the significance threshold, the calculations have been intentionally omitted; however, with the implementation of MM AQ-1, the HI and cancer risk would decrease and continue to have a less-than-significant impact.

Table 15: Summary of Proposed Project Construction Cancer Risk: Mitigated

Receptor	Cancer Risk (per million)		Exceeds Significance Threshold?
	Maximum Lifetime Proposed Project Risk	Significance Threshold	
Maximum Impacted Sensitive Receptor – Infant to Adult (30 years)	1.38	10	No
Maximum Impacted Sensitive Receptor – Child	1.38	10	No
Maximum Impacted Sensitive Receptor – 70 Years	0.80	10	No

Note: Modeling and calculations of Table 15 utilizes mitigation measures, which requires and makes use of AQ-1 Tier 4 equipment for engines 50 horsepower and higher.
Note: Any results from the unmitigated construction cancer risk that complied with the 10 in one million significance threshold or HI<1.0 were omitted from the mitigated tables as the results had a less than significant impact.
Source: See Data Attachment in Appendix D.2

Table 16: Summary of Combined Project Mitigated Construction and Operational Health Risk

Receptor	Cancer Risk (per million)		Exceeds Significance Threshold?
	Maximum Lifetime Proposed Project Risk	Significance Threshold	
Maximum Impacted Sensitive Receptor – Infant to Adult (30 years)	5.74	10	No

Note: Modeling and calculations of Table 16 utilizes mitigation measures, which requires and makes use of AQ-1 Tier 4 equipment for engines 50 horsepower and higher.
Source: See Data Attachment in Appendix D.4

Cumulative Analysis

The TAC emission inventory used in the MATES-V study to estimate health impacts was representative of emissions for the year 2018. In addition to the MATES-V cumulative TAC-source cancer risk noted above, other new or proposed potential TAC-generating projects (related projects) in the Project area not included in the MATES V study could contribute to cumulative TAC impacts. The SCAQMD has applied a 1,000-foot distance from a proposed project to identify other development projects that could contribute to cumulative impacts with the proposed project.[12] The 1,000-foot evaluation distance is supported by research-based findings concerning TAC emission dispersion rates from roadways and large sources, showing that emissions diminish substantially between 500 and 1,000 feet from emission sources. The search radius for this Project was extended to 0.25 miles (1,320 feet) to identify potential cumulative sources.

[12] SCAQMD. (2019). *CEQA Comment Letter, Mitigated Negative Declaration (MND) for the Proposed Alder II Warehouse Project.* http://www.aqmd.gov/docs/default-source/ceqa/comment-letters/2019/january/SBC181221-08.pdf?sfvrsn=8.

Within the surrounding region of approximately 0.25 miles around the Project, there is an ensuing industrial development project located 0.13 miles (217 meters) north of the Project boundary at 14516 Carmenita Road. The 14516 Carmenita project's VMT Evaluation estimated a reduction in truck trips for the project in comparison with the existing warehouse on the site, generating 12 fewer daily truck trips.[13] Thus, the 14516 Carmenita Road project was not included in the cumulative analysis as the implementation of the project would reduce, not increase, the cumulative impact of DPM emissions in the area.

The maximum cancer risk for the proposed Project is less than the 10 in one million project-level threshold, and with no cumulative increase in DPM emissions from surrounding projects, the Project would also result in a less than significant cumulative impact with mitigation.

3.3 Conclusion

The construction of the proposed Project and the combined construction and operation would result in DPM emissions that exceed the lifetime cancer risk threshold of 10 in one million at the maximum impacted sensitive receptor. The Project's operational impacts would not exceed the 10 in 1 million cancer risk threshold, nor the 1.0 non-cancer hazard index threshold. The onsite and off-road equipment, the Project's maximum construction, operational, and combined health risk impacts would result in the following:

Project Construction Unmitigated Health Risk Impacts:

- Sensitive/residential receptor for the 30-year lifetime exposure duration: 13.46 in one million,
- Worker receptor: 7.74 in one million,
- Sensitive receptor Chronic non-cancer HI: 0.02,
- Worker receptor Chronic non-cancer HI: 0.55.

Project Operational Health Risk Impacts:

- Sensitive/residential receptor for the 30-year lifetime exposure duration: 7.27 in one million,
- Worker receptor: 3.30 in one million,
- Sensitive receptor Chronic non-cancer HI: <0.01,
- Worker receptor Chronic non-cancer HI: 0.01.

Combined Construction/Operational Health Risk Impacts:

- Sensitive/residential receptor for the 30-year lifetime exposure duration: 19.01 in one million,
- Worker receptor: 4.75 in one million.

To mitigate the significant construction health risk impact, the following mitigation measure is proposed:

> **MM AQ-1: Tier 4 Construction Equipment:** The proposed Project shall utilize Tier 4 Final or superior equipment for engines exceeding 50 horsepower (hp). If construction equipment cannot meet Tier 4 Final engine certification standards, the Project representative or contractor must provide a future

[13] Urban Crossroads. (2023). *Vehicle Miles Traveled Evaluation for Proposed 14516 Carmenita Road Industrial Project.* https://www.norwalk.org/home/showpublisheddocument/28467/638248332448570000.

study with written findings, backed by substantial evidence, for approval by the City of Norwalk before resorting to alternative technologies or strategies. Potential alternative strategies may encompass the use of Tier 4 Interim equipment, reducing the number and/or horsepower rating of construction equipment, or limiting simultaneous equipment operation. All equipment must undergo tuning and adhere to the manufacturer's recommended maintenance schedule and specifications. Maintenance records for each piece of equipment, along with those of their contractors, must be available for inspection and kept on-site for a minimum of two years following construction completion.

Below are the cancer risk impacts analyzed with this mitigation implemented, as all chronic non-cancer HI results, without mitigated, do not exceed thresholds, the HI values are intentional omitted:

Project Construction Mitigated Health Risk Impacts:

- Sensitive/residential receptor for the 30-year lifetime exposure duration: 1.38 in one million.

Combined Construction/Operational Mitigated Health Risk Impacts:

- Sensitive/residential receptor for the 30-year lifetime exposure duration: 5.74 in one million.

Thus, the proposed Project's construction would result in a less-than-significant Project-level and cumulative health risk impact with the implementation of MM AQ-1: Tier 4 Construction Equipment.

APPENDIX A- CALEEMOD OUTPUT FOR PROJECT'S CONSTRUCTION AND OPERATION

Carmenita Norwalk Detailed Report

Table of Contents

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Carmenita Norwalk
Construction Start Date	9/2/2025
Operational Year	2026
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	1.80
Precipitation (days)	8.00
Location	14830 Carmenita Rd, Norwalk, CA 90650, USA
County	Los Angeles-South Coast
City	Norwalk
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	4867
EDFZ	7
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.23

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

General Light Industry	29.0	1000sqft	0.67	28,980	22,500	—	—	—
Parking Lot	150	Space	1.35	0.00	0.00	—	—	—
Other Asphalt Surfaces	103	1000sqft	2.35	0.00	0.00	—	—	—
User Defined Industrial	145	User Defined Unit	0.00	0.00	0.00	—	—	—
Unrefrigerated Warehouse-No Rail	94.2	1000sqft	2.16	94,186	0.00	—	—	—
Refrigerated Warehouse-No Rail	21.7	1000sqft	0.50	21,735	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

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.	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Unmit.	2.69	39.9	27.8	0.13	16.4	3.83	18,780
Daily, Winter (Max)	—	—	—	—	—	—	—
Unmit.	70.9	37.5	33.5	0.11	7.82	4.52	16,608
Average Daily (Max)	—	—	—	—	—	—	—
Unmit.	4.56	6.47	9.37	0.02	1.64	0.57	2,496
Annual (Max)	—	—	—	—	—	—	—
Unmit.	0.83	1.18	1.71	< 0.005	0.30	0.10	413
Exceeds (Daily Max)	—	—	—	—	—	—	—
Threshold	75.0	100	550	150	150	55.0	—

Unmit.	No	No	No	No	No	No	—
Exceeds (Average Daily)	—	—	—	—	—	—	—
Threshold	75.0	100	550	150	150	55.0	—
Unmit.	No	No	No	No	No	No	—

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	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—
2025	2.69	39.9	27.8	0.13	16.4	3.83	18,780
2026	1.40	11.7	18.4	0.03	1.42	0.62	4,250
Daily - Winter (Max)	—	—	—	—	—	—	—
2025	4.12	37.5	33.5	0.11	7.82	4.52	16,608
2026	70.9	11.8	17.8	0.03	1.42	0.62	4,203
Average Daily	—	—	—	—	—	—	—
2025	0.54	6.47	5.62	0.02	1.64	0.57	2,496
2026	4.56	6.15	9.37	0.02	0.72	0.32	2,142
Annual	—	—	—	—	—	—	—
2025	0.10	1.18	1.03	< 0.005	0.30	0.10	413
2026	0.83	1.12	1.71	< 0.005	0.13	0.06	355

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.	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Unmit.	6.13	24.4	147	0.11	5.22	1.56	18,312

Daily, Winter (Max)	—	—	—	—	—	—	—
Unmit.	5.08	24.8	139	0.11	5.21	1.55	18,135
Average Daily (Max)	—	—	—	—	—	—	—
Unmit.	5.45	20.4	108	0.11	5.15	1.50	17,238
Annual (Max)	—	—	—	—	—	—	—
Unmit.	0.99	3.73	19.6	0.02	0.94	0.27	2,854
Exceeds (Daily Max)	—	—	—	—	—	—	—
Threshold	55.0	55.0	550	150	150	55.0	—
Unmit.	No	No	No	No	No	No	—
Exceeds (Average Daily)	—	—	—	—	—	—	—
Threshold	55.0	55.0	550	150	150	55.0	—
Unmit.	No	No	No	No	No	No	—
Exceeds (Annual)	—	—	—	—	—	—	—
Threshold	—	—	—	—	—	—	3,000
Unmit.	—	—	—	—	—	—	No

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	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Mobile	1.16	9.88	15.5	0.10	5.08	1.42	11,703
Area	4.53	0.05	6.30	< 0.005	0.01	0.01	26.0
Energy	0.05	0.97	0.81	0.01	0.07	0.07	2,293
Water	—	—	—	—	—	—	495
Waste	—	—	—	—	—	—	273
Refrig.	—	—	—	—	—	—	587

Off-Road	0.00	12.4	123	0.00	0.00	0.00	2,735
Stationary	0.39	1.09	1.00	< 0.005	0.06	0.06	200
Total	6.13	24.4	147	0.11	5.22	1.56	18,312
Daily, Winter (Max)	—	—	—	—	—	—	—
Mobile	1.14	10.3	14.2	0.10	5.08	1.42	11,552
Area	3.49	—	—	—	—	—	—
Energy	0.05	0.97	0.81	0.01	0.07	0.07	2,293
Water	—	—	—	—	—	—	495
Waste	—	—	—	—	—	—	273
Refrig.	—	—	—	—	—	—	587
Off-Road	0.00	12.4	123	0.00	0.00	0.00	2,735
Stationary	0.39	1.09	1.00	< 0.005	0.06	0.06	200
Total	5.08	24.8	139	0.11	5.21	1.55	18,135
Average Daily	—	—	—	—	—	—	—
Mobile	1.14	10.5	14.5	0.10	5.06	1.41	11,597
Area	4.20	0.04	4.32	< 0.005	0.01	0.01	17.8
Energy	0.05	0.97	0.81	0.01	0.07	0.07	2,293
Water	—	—	—	—	—	—	495
Waste	—	—	—	—	—	—	273
Refrig.	—	—	—	—	—	—	587
Off-Road	0.00	8.81	87.8	0.00	0.00	0.00	1,948
Stationary	0.05	0.15	0.14	< 0.005	0.01	0.01	27.5
Total	5.45	20.4	108	0.11	5.15	1.50	17,238
Annual	—	—	—	—	—	—	—
Mobile	0.21	1.91	2.65	0.02	0.92	0.26	1,920
Area	0.77	0.01	0.79	< 0.005	< 0.005	< 0.005	2.95
Energy	0.01	0.18	0.15	< 0.005	0.01	0.01	380

Water	—	—	—	—	—	—	81.9
Waste	—	—	—	—	—	—	45.2
Refrig.	—	—	—	—	—	—	97.1
Off-Road	0.00	1.61	16.0	0.00	0.00	0.00	323
Stationary	0.01	0.03	0.02	< 0.005	< 0.005	< 0.005	4.55
Total	0.99	3.73	19.6	0.02	0.94	0.27	2,854

3. Construction Emissions Details

3.1. Demolition (2025) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—
Off-Road Equipment	2.40	22.2	19.9	0.03	0.92	0.84	3,437
Demolition	—	—	—	—	11.3	1.70	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—
Off-Road Equipment	0.13	1.22	1.09	< 0.005	0.05	0.05	188
Demolition	—	—	—	—	0.62	0.09	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.22	0.20	< 0.005	0.01	0.01	31.2
Demolition	—	—	—	—	0.11	0.02	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—
Worker	0.06	0.06	1.04	0.00	0.20	0.05	210
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.22	17.7	6.88	0.10	4.04	1.24	15,133
Daily, Winter (Max)	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.05	0.00	0.01	< 0.005	11.1
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	1.02	0.38	0.01	0.22	0.07	828
Annual	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	< 0.005	< 0.005	1.83
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.19	0.07	< 0.005	0.04	0.01	137

3.3. Site Preparation (2025) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—
Off-Road Equipment	4.05	37.5	32.4	0.05	1.93	1.78	5,547
Dust From Material Movement	—	—	—	—	5.66	2.69	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—
Off-Road Equipment	0.11	1.03	0.89	< 0.005	0.05	0.05	152
Dust From Material Movement	—	—	—	—	0.16	0.07	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.19	0.16	< 0.005	0.01	0.01	25.2
Dust From Material Movement	—	—	—	—	0.03	0.01	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—
Worker	0.07	0.08	1.03	0.00	0.23	0.05	232
Vendor	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
Average Daily	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.03	0.00	0.01	< 0.005	6.46
Vendor	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
Annual	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	< 0.005	< 0.005	1.07
Vendor	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

3.5. Grading (2025) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—

Off-Road Equipment	2.30	20.6	19.6	0.03	1.15	1.05	3,145
Dust From Material Movement	—	—	—	—	2.27	0.94	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—
Off-Road Equipment	0.13	1.13	1.07	< 0.005	0.06	0.06	172
Dust From Material Movement	—	—	—	—	0.12	0.05	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.21	0.20	< 0.005	0.01	0.01	28.5
Dust From Material Movement	—	—	—	—	0.02	0.01	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—
Worker	0.06	0.07	0.88	0.00	0.20	0.05	199
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.19	16.1	6.10	0.08	3.55	1.09	13,264
Average Daily	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.05	0.00	0.01	< 0.005	11.1
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	0.89	0.33	< 0.005	0.19	0.06	727
Annual	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	< 0.005	< 0.005	1.83
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.16	0.06	< 0.005	0.04	0.01	120

3.7. 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	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—
Off-Road Equipment	1.21	11.3	14.1	0.03	0.47	0.43	2,639
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—
Off-Road Equipment	0.11	1.06	1.33	< 0.005	0.04	0.04	248
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.19	0.24	< 0.005	0.01	0.01	41.0
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—
Worker	0.26	0.29	3.59	0.00	0.80	0.19	808
Vendor	0.02	0.89	0.42	0.01	0.21	0.06	786
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—
Worker	0.02	0.03	0.35	0.00	0.07	0.02	77.1
Vendor	< 0.005	0.08	0.04	< 0.005	0.02	0.01	73.9
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—
Worker	< 0.005	0.01	0.06	0.00	0.01	< 0.005	12.8
Vendor	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	12.2

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.9. Building Construction (2026) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—
Off-Road Equipment	1.16	10.7	14.1	0.03	0.41	0.38	2,639
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—
Off-Road Equipment	1.16	10.7	14.1	0.03	0.41	0.38	2,639
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—
Off-Road Equipment	0.56	5.14	6.77	0.01	0.20	0.18	1,270
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—
Off-Road Equipment	0.10	0.94	1.24	< 0.005	0.04	0.03	210
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—
Worker	0.22	0.24	3.93	0.00	0.80	0.19	837
Vendor	0.02	0.82	0.39	0.01	0.21	0.06	775
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—
Worker	0.22	0.26	3.35	0.00	0.80	0.19	791
Vendor	0.02	0.85	0.40	0.01	0.21	0.06	773
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—
Worker	0.11	0.14	1.69	0.00	0.38	0.09	387
Vendor	0.01	0.41	0.19	< 0.005	0.10	0.03	372
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—
Worker	0.02	0.03	0.31	0.00	0.07	0.02	64.1
Vendor	< 0.005	0.08	0.04	< 0.005	0.02	0.01	61.7
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.11. Paving (2026) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—
Off-Road Equipment	0.76	7.12	9.94	0.01	0.32	0.29	1,516
Paving	0.49	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—
Off-Road Equipment	0.76	7.12	9.94	0.01	0.32	0.29	1,516
Paving	0.49	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.39	0.54	< 0.005	0.02	0.02	83.1
Paving	0.03	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.07	0.10	< 0.005	< 0.005	< 0.005	13.8

Paving	< 0.005	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—
Worker	0.06	0.06	0.97	0.00	0.20	0.05	206
Vendor	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
Daily, Winter (Max)	—	—	—	—	—	—	—
Worker	0.05	0.07	0.83	0.00	0.20	0.05	195
Vendor	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
Average Daily	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.05	0.00	0.01	< 0.005	10.9
Vendor	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
Annual	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	< 0.005	< 0.005	1.80
Vendor	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

3.13. Architectural Coating (2026) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—
Off-Road Equipment	0.16	1.14	1.51	< 0.005	0.03	0.03	179

Architectural Coatings	69.4	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.06	0.08	< 0.005	< 0.005	< 0.005	9.79
Architectural Coatings	3.80	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.01	0.02	< 0.005	< 0.005	< 0.005	1.62
Architectural Coatings	0.69	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—
Worker	0.04	0.05	0.67	0.00	0.16	0.04	158
Vendor	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
Average Daily	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.04	0.00	0.01	< 0.005	8.81
Vendor	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
Annual	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	< 0.005	< 0.005	1.46
Vendor	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

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	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
General Light Industry	0.38	0.24	3.99	0.01	0.75	0.19	786
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00
User Defined Industrial	0.25	9.30	5.90	0.09	3.28	0.95	9,814
Unrefrigerated Warehouse-No Rail	0.43	0.27	4.56	0.01	0.86	0.22	897
Refrigerated Warehouse-No Rail	0.10	0.06	1.05	< 0.005	0.20	0.05	207
Total	1.16	9.88	15.5	0.10	5.08	1.42	11,703
Daily, Winter (Max)	—	—	—	—	—	—	—
General Light Industry	0.38	0.27	3.57	0.01	0.75	0.19	745
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00
User Defined Industrial	0.24	9.69	5.57	0.09	3.28	0.95	9,760
Unrefrigerated Warehouse-No Rail	0.43	0.31	4.07	0.01	0.86	0.22	851
Refrigerated Warehouse-No Rail	0.10	0.07	0.94	< 0.005	0.20	0.05	196
Total	1.14	10.3	14.2	0.10	5.08	1.42	11,552
Annual	—	—	—	—	—	—	—
General Light Industry	0.07	0.05	0.67	< 0.005	0.14	0.04	125
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00

User Defined Industrial	0.04	1.79	1.03	0.02	0.60	0.17	1,619
Unrefrigerated Warehouse-No Rail	0.08	0.06	0.77	< 0.005	0.16	0.04	143
Refrigerated Warehouse-No Rail	0.02	0.01	0.18	< 0.005	0.04	0.01	33.0
Total	0.21	1.91	2.65	0.02	0.92	0.26	1,920

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	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	265
Parking Lot	—	—	—	—	—	—	49.1
Other Asphalt Surfaces	—	—	—	—	—	—	0.00
User Defined Industrial	—	—	—	—	—	—	0.00
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	421
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	401
Total	—	—	—	—	—	—	1,136
Daily, Winter (Max)	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	265
Parking Lot	—	—	—	—	—	—	49.1
Other Asphalt Surfaces	—	—	—	—	—	—	0.00
User Defined Industrial	—	—	—	—	—	—	0.00
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	421

Refrigerated Warehouse-No Rail	—	—	—	—	—	—	401
Total	—	—	—	—	—	—	1,136
Annual	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	43.9
Parking Lot	—	—	—	—	—	—	8.13
Other Asphalt Surfaces	—	—	—	—	—	—	0.00
User Defined Industrial	—	—	—	—	—	—	0.00
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	69.6
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	66.4
Total	—	—	—	—	—	—	188

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	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
General Light Industry	0.02	0.33	0.28	< 0.005	0.03	0.03	399
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unrefrigerated Warehouse-No Rail	0.03	0.49	0.41	< 0.005	0.04	0.04	583
Refrigerated Warehouse-No Rail	0.01	0.15	0.12	< 0.005	0.01	0.01	175
Total	0.05	0.97	0.81	0.01	0.07	0.07	1,157
Daily, Winter (Max)	—	—	—	—	—	—	—
General Light Industry	0.02	0.33	0.28	< 0.005	0.03	0.03	399

Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unrefrigerated Warehouse-No Rail	0.03	0.49	0.41	< 0.005	0.04	0.04	583
Refrigerated Warehouse-No Rail	0.01	0.15	0.12	< 0.005	0.01	0.01	175
Total	0.05	0.97	0.81	0.01	0.07	0.07	1,157
Annual	—	—	—	—	—	—	—
General Light Industry	< 0.005	0.06	0.05	< 0.005	< 0.005	< 0.005	66.0
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unrefrigerated Warehouse-No Rail	< 0.005	0.09	0.07	< 0.005	0.01	0.01	96.6
Refrigerated Warehouse-No Rail	< 0.005	0.03	0.02	< 0.005	< 0.005	< 0.005	29.0
Total	0.01	0.18	0.15	< 0.005	0.01	0.01	192

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	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Consumer Products	3.11	—	—	—	—	—	—
Architectural Coatings	0.38	—	—	—	—	—	—
Landscape Equipment	1.03	0.05	6.30	< 0.005	0.01	0.01	26.0
Total	4.53	0.05	6.30	< 0.005	0.01	0.01	26.0

Daily, Winter (Max)	—	—	—	—	—	—	—
Consumer Products	3.11	—	—	—	—	—	—
Architectural Coatings	0.38	—	—	—	—	—	—
Total	3.49	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—
Consumer Products	0.57	—	—	—	—	—	—
Architectural Coatings	0.07	—	—	—	—	—	—
Landscape Equipment	0.13	0.01	0.79	< 0.005	< 0.005	< 0.005	2.95
Total	0.77	0.01	0.79	< 0.005	< 0.005	< 0.005	2.95

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	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	100
Parking Lot	—	—	—	—	—	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	0.00
User Defined Industrial	—	—	—	—	—	—	0.00
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	320
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	74.0
Total	—	—	—	—	—	—	495
Daily, Winter (Max)	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	100
Parking Lot	—	—	—	—	—	—	0.00

Other Asphalt Surfaces	—	—	—	—	—	—	0.00
User Defined Industrial	—	—	—	—	—	—	0.00
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	320
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	74.0
Total	—	—	—	—	—	—	495
Annual	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	16.6
Parking Lot	—	—	—	—	—	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	0.00
User Defined Industrial	—	—	—	—	—	—	0.00
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	53.1
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	12.2
Total	—	—	—	—	—	—	81.9

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	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	67.8
Parking Lot	—	—	—	—	—	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	0.00
User Defined Industrial	—	—	—	—	—	—	0.00

Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	167
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	38.5
Total	—	—	—	—	—	—	273
Daily, Winter (Max)	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	67.8
Parking Lot	—	—	—	—	—	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	0.00
User Defined Industrial	—	—	—	—	—	—	0.00
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	167
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	38.5
Total	—	—	—	—	—	—	273
Annual	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	11.2
Parking Lot	—	—	—	—	—	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	0.00
User Defined Industrial	—	—	—	—	—	—	0.00
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	27.6
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	6.38
Total	—	—	—	—	—	—	45.2

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	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	7.54
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	579
Total	—	—	—	—	—	—	587
Daily, Winter (Max)	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	7.54
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	579
Total	—	—	—	—	—	—	587
Annual	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	1.25
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	95.9
Total	—	—	—	—	—	—	97.1

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	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Forklifts	0.00	12.4	123	0.00	0.00	0.00	2,735
Total	0.00	12.4	123	0.00	0.00	0.00	2,735
Daily, Winter (Max)	—	—	—	—	—	—	—
Forklifts	0.00	12.4	123	0.00	0.00	0.00	2,735
Total	0.00	12.4	123	0.00	0.00	0.00	2,735
Annual	—	—	—	—	—	—	—

Forklifts	0.00	1.61	16.0	0.00	0.00	0.00	323
Total	0.00	1.61	16.0	0.00	0.00	0.00	323

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	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Emergency Generator	0.39	1.09	1.00	< 0.005	0.06	0.06	200
Total	0.39	1.09	1.00	< 0.005	0.06	0.06	200
Daily, Winter (Max)	—	—	—	—	—	—	—
Emergency Generator	0.39	1.09	1.00	< 0.005	0.06	0.06	200
Total	0.39	1.09	1.00	< 0.005	0.06	0.06	200
Annual	—	—	—	—	—	—	—
Emergency Generator	0.01	0.03	0.02	< 0.005	< 0.005	< 0.005	4.55
Total	0.01	0.03	0.02	< 0.005	< 0.005	< 0.005	4.55

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	ROG	NOx	CO	SO2	PM10T	PM2.5T	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	ROG	NOx	CO	SO2	PM10T	PM2.5T	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	ROG	NOx	CO	SO2	PM10T	PM2.5T	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	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—
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	9/2/2025	9/30/2025	5.00	20.0	—
Site Preparation	Site Preparation	10/1/2025	10/15/2025	5.00	10.0	—
Grading	Grading	10/16/2025	11/13/2025	5.00	20.0	—
Building Construction	Building Construction	11/14/2025	9/3/2026	5.00	210	—
Paving	Paving	9/4/2026	10/1/2026	5.00	20.0	—
Architectural Coating	Architectural Coating	10/1/2026	10/28/2026	5.00	20.0	—

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	0.00	8.00	84.0	0.37
Site Preparation	Crawler Tractors	Diesel	Average	4.00	8.00	87.0	0.43
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	0.00	8.00	84.0	0.37
Grading	Crawler Tractors	Diesel	Average	3.00	8.00	87.0	0.43
Building Construction	Cranes	Diesel	Average	1.00	8.00	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	8.00	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	8.00	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	18.5	LDA,LDT1,LDT2
Demolition	Vendor	—	10.2	HHDT,MHDT
Demolition	Hauling	208	20.0	HHDT
Demolition	Onsite truck	—	—	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	17.5	18.5	LDA,LDT1,LDT2
Site Preparation	Vendor	—	10.2	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	15.0	18.5	LDA,LDT1,LDT2
Grading	Vendor	—	10.2	HHDT,MHDT
Grading	Hauling	183	20.0	HHDT

Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	60.9	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	23.7	10.2	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	18.5	LDA,LDT1,LDT2
Paving	Vendor	—	10.2	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	12.2	18.5	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	10.2	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	217,352	72,451	9,681

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 (Ton of Debris)	Acres Paved (acres)
Demolition	0.00	0.00	0.00	16,634	—
Site Preparation	0.00	0.00	35.0	0.00	—
Grading	29,211	0.00	50.0	0.00	—
Paving	0.00	0.00	0.00	0.00	3.70

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	3	74%	74%
Water Demolished Area	2	36%	36%

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
General Light Industry	0.00	0%
Parking Lot	1.35	100%
Other Asphalt Surfaces	2.35	100%
User Defined Industrial	0.00	0%
Unrefrigerated Warehouse-No Rail	0.00	0%
Refrigerated Warehouse-No Rail	0.00	0%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2025	0.00	349	0.03	< 0.005

2026	0.00	346	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
General Light Industry	102	102	102	37,340	1,064	1,064	1,064	388,306
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
User Defined Industrial	127	127	127	46,331	3,700	3,700	3,700	1,350,478
Unrefrigerated Warehouse-No Rail	117	117	117	42,628	1,215	1,215	1,215	443,308
Refrigerated Warehouse-No Rail	27.0	27.0	27.0	9,837	280	280	280	102,301

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

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	217,352	72,451	9,681

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

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)
General Light Industry	277,997	346	0.0330	0.0040	1,240,400
Parking Lot	51,476	346	0.0330	0.0040	0.00
Other Asphalt Surfaces	0.00	346	0.0330	0.0040	0.00
User Defined Industrial	0.00	346	0.0330	0.0040	0.00
Unrefrigerated Warehouse-No Rail	440,825	346	0.0330	0.0040	1,815,543
Refrigerated Warehouse-No Rail	420,313	346	0.0330	0.0040	544,550

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
General Light Industry	6,701,671	315,553
Parking Lot	0.00	0.00
Other Asphalt Surfaces	0.00	0.00
User Defined Industrial	0.00	0.00
Unrefrigerated Warehouse-No Rail	21,780,466	0.00
Refrigerated Warehouse-No Rail	5,026,242	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
General Light Industry	35.9	—
Parking Lot	0.00	—
Other Asphalt Surfaces	0.00	—
User Defined Industrial	0.00	—
Unrefrigerated Warehouse-No Rail	88.5	—
Refrigerated Warehouse-No Rail	20.4	—

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
General Light Industry	Other commercial A/C and heat pumps	R-410A	2,088	0.30	4.00	4.00	18.0
Refrigerated Warehouse-No Rail	Cold storage	R-404A	3,922	7.50	7.50	7.50	25.0

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
Forklifts	CNG	Average	14.0	8.00	82.0	0.20

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
Emergency Generator	Diesel	1.00	1.00	50.0	238	0.73

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. Biomass Cover Type

5.18.1.1. Unmitigated

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)

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	10.7	annual days of extreme heat
Extreme Precipitation	4.55	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	1	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	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	1	1	1	2
Extreme Precipitation	N/A	N/A	N/A	N/A
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	48.5
AQ-PM	76.5
AQ-DPM	84.9
Drinking Water	63.7
Lead Risk Housing	92.8
Pesticides	0.00
Toxic Releases	89.9
Traffic	87.6
Effect Indicators	—
CleanUp Sites	52.0
Groundwater	55.3
Haz Waste Facilities/Generators	92.8
Impaired Water Bodies	23.9
Solid Waste	66.7
Sensitive Population	—
Asthma	62.6
Cardio-vascular	90.6
Low Birth Weights	69.5
Socioeconomic Factor Indicators	—
Education	77.2
Housing	56.5
Linguistic	63.7
Poverty	62.5
Unemployment	51.3

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	37.57218016
Employed	44.42448351
Median HI	50.69934557
Education	—
Bachelor's or higher	10.07314256
High school enrollment	13.78159887
Preschool enrollment	48.45374054
Transportation	—
Auto Access	41.51161299
Active commuting	39.5996407
Social	—
2-parent households	60.50301553
Voting	16.45066085
Neighborhood	—
Alcohol availability	13.30681381
Park access	52.3675093
Retail density	51.87989221
Supermarket access	48.55639677
Tree canopy	27.64018991
Housing	—
Homeownership	74.34877454
Housing habitability	38.77839086
Low-inc homeowner severe housing cost burden	46.58026434
Low-inc renter severe housing cost burden	59.47645323
Uncrowded housing	9.713845759

Health Outcomes	—
Insured adults	23.08481971
Arthritis	84.5
Asthma ER Admissions	27.7
High Blood Pressure	66.9
Cancer (excluding skin)	82.6
Asthma	61.7
Coronary Heart Disease	66.7
Chronic Obstructive Pulmonary Disease	74.0
Diagnosed Diabetes	35.6
Life Expectancy at Birth	31.0
Cognitively Disabled	62.4
Physically Disabled	30.9
Heart Attack ER Admissions	5.7
Mental Health Not Good	37.4
Chronic Kidney Disease	27.1
Obesity	31.6
Pedestrian Injuries	19.6
Physical Health Not Good	35.1
Stroke	70.4
Health Risk Behaviors	—
Binge Drinking	35.4
Current Smoker	45.9
No Leisure Time for Physical Activity	33.9
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0

Children	44.4
Elderly	80.0
English Speaking	59.6
Foreign-born	71.6
Outdoor Workers	67.4
Climate Change Adaptive Capacity	—
Impervious Surface Cover	19.4
Traffic Density	83.7
Traffic Access	23.0
Other Indices	—
Hardship	75.7
Other Decision Support	—
2016 Voting	19.6

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	93.0
Healthy Places Index Score for Project Location (b)	31.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
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.

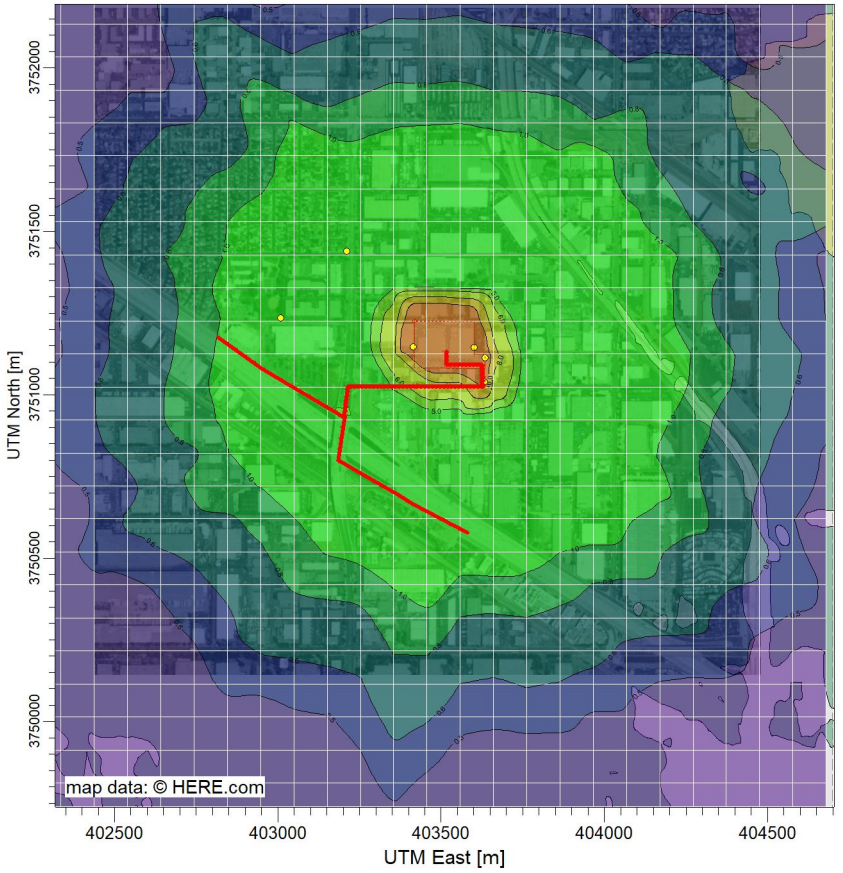
8. User Changes to Default Data

Screen	Justification
Land Use	Adjusted Lot Acreage to match site plan provided by client
Construction: Construction Phases	Adjusted Work Days per Phase by reducing the Building Construction phase by 20 days to better describe construction schedule provided by client.
Construction: Off-Road Equipment	Assumed all construction will be used 8 hours a day per work day. Replaced Tractor/Loader/Backhoes with Crawler Tractors in the Site Preparation and Grading Phases
Operations: Vehicle Data	Adjusted trip rate to match ITE 11th edition trip rate for General Light Industrial auto and Warehouse trips. Truck trips were applied to the User Defined Industrial land use, with 2 axle trucks applied to Non Res H-W (length and percentage), 3 axle trucks applied to Non Res W-O, and 4+ axle trucks applied to Non Res O-O.
Operations: Fleet Mix	Updated vehicle splits to match the operational trip generation
Operations: Off-Road Equipment	Assumed 1 forklift per 10,000 sqft will be used for operational purposes

APPENDIX B.1 – AERMOD CONSTRUCTION MODEL OUTPUT

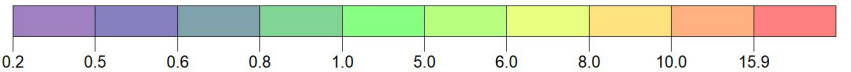
PROJECT TITLE:

Carmenita Unmitigated Construction DPM Emission Sources



PLOT FILE OF HIGH 1ST HIGH 1-HR VALUES FOR SOURCE GROUP: ALL ug/m^3

Max: 15.9 [ug/m^3] at (403456.57, 3751226.00)



COMMENTS:	SOURCES: **5**		
	RECEPTORS: **1008**	MODELER:	
	OUTPUT TYPE: **Concentration**	SCALE: 1:23,184 (0 — 0.5 km)	
	MAX: **15.9 ug/m^3**	DATE: **6/3/2024**	PROJECT NO.: **Project No.: 2**

Control Pathway

AERMOD

Dispersion Options

Titles

C:\Users\EPD\EPD Solutions\EPD Project Site - Projects\TECHNICAL SER

Dispersion Options

☑ Regulatory Default ☐ Non-Default Options

Dispersion Coefficient

Urban

Population:
Name (Optional):
Roughness Length:

Output Type

☑ Concentration
☐ Total Deposition (Dry & Wet)
☐ Dry Deposition
☐ Wet Deposition

Plume Depletion

☐ Dry Removal
☐ Wet Removal

Output Warnings

☐ No Output Warnings
☐ Non-fatal Warnings for Non-sequential Met Data

Pollutant / Averaging Time / Terrain Options

Pollutant Type

PM10

Averaging Time Options

Hours

☑	☐	☐	☐	☐	☐	☐	☐
1	2	3	4	6	8	12	24

☐ Month ☑ Period ☐ Annual

Exponential Decay

Half-life of 4 hours will be used

Terrain Height Options

☐ Flat ☑ Elevated

SO: Meters
RE: Meters
TG: Meters

Flagpole Receptors

☐ Yes ☑ No

Default Height = 0.00 m

Control Pathway

Optional Files

Re-Start File	Init File	Multi-Year Analyses	Event Input File	Error Listing File
☐	☐	☐	☐	■

Detailed Error Listing File

Filename: Carm_Con.err

Source Pathway - Source Inputs

Polygon Area Sources

Source Type: AREA POLY

Source: PAREA1 (Area Source)

Base Elevation (Optional)	Release Height [m]	Emission Rate [g/ (s-m^2)]	Initial Vertical Dim. [m]	Number of Vertices (or sides)	X Coordinate for Vertices [m]	Y Coordinate for Vertices [m]
24.24	3.11	5.36E-7		8	403418.87	3751225.66
		5.36E-7			403418.21	3751082.28
		5.36E-7			403620.12	3751080.97
		5.36E-7			403620.12	3751032.95
		5.36E-7			403632.95	3751032.95
		5.36E-7			403634.26	3751123.39
		5.36E-7			403600.39	3751124.38
		5.36E-7			403600.72	3751223.69

Source Pathway - Source Inputs

Line Area Sources

Source Type: LINE AREA

Source: ARLN4 (Offsite 2: 50% I-5 North)

Length of Side [m]	Emission Rate [g/ (s-m^2)]	Initial Vertical Dimension [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
3.50	3.42E-11	2.46	403203.17	3750930.87	32.00	2.64
			402952.82	3751078.91	25.50	2.64
			402815.31	3751175.96	25.21	2.64

Source Type: LINE AREA

Source: ARLN5 (Offsite 3: 50% I-5 South)

Length of Side [m]	Emission Rate [g/ (s-m^2)]	Initial Vertical Dimension [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
3.50	3.42E-11	2.46	403203.76	3750931.65	31.98	2.64
			403186.00	3750799.14	23.32	2.64
			403370.42	3750692.59	24.40	2.64
			403413.13	3750666.94	23.47	2.64
			403581.24	3750577.46	22.56	2.64

Source Type: LINE AREA

Source: ARLN7 (Onsite 5mph)

Length of Side [m]	Emission Rate [g/ (s-m^2)]	Initial Vertical Dimension [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
13.00	4.28E-11	2.46	403516.40	3751131.03	23.27	2.64
			403516.81	3751092.15	23.15	2.64
			403625.58	3751091.74	22.97	2.64
			403627.23	3751022.67	22.65	2.64

Source Pathway - Source Inputs

Source Type: LINE AREA

Source: ARLN8 (Offsite 1: 100%)

Length of Side [m]	Emission Rate [g/ (s-m^2)]	Initial Vertical Dimension [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
13.00	1.84E-11	2.46	403625.73	3751024.91	22.66	2.64
			403215.13	3751024.91	27.35	2.64
			403203.14	3750931.83	31.99	2.64

Source Pathway - Source Inputs

Area Sources Generated from Line Sources

Line Source ID	Area Source ID	X Coordinate [m]	Y Coordinate [m]	Release Height [m]	Length of Side [m]	Angle [deg]	Base Elevation [m]	Initial Sigma Z [m]
ARLN4	A0000047	403204.06	3750932.37	2.64	32.32	210.60	32.01	2.46
	A0000048	403176.25	3750948.82	2.64	32.32	210.60	31.95	2.46
	A0000049	403148.43	3750965.27	2.64	32.32	210.60	24.57	2.46
	A0000050	403120.61	3750981.72	2.64	32.32	210.60	24.70	2.46
	A0000051	403092.80	3750998.17	2.64	32.32	210.60	25.59	2.46
	A0000052	403064.98	3751014.62	2.64	32.32	210.60	26.72	2.46
	A0000053	403037.16	3751031.07	2.64	32.32	210.60	26.00	2.46
	A0000054	403009.35	3751047.52	2.64	32.32	210.60	25.41	2.46
	A0000055	402981.53	3751063.96	2.64	32.32	210.60	25.23	2.46
	A0000056	402953.83	3751080.34	2.64	33.66	215.21	25.23	2.46
	A0000057	402926.33	3751099.75	2.64	33.66	215.21	25.25	2.46
	A0000058	402898.83	3751119.16	2.64	33.66	215.21	25.31	2.46
	A0000059	402871.32	3751138.57	2.64	33.66	215.21	25.25	2.46
	A0000060	402843.82	3751157.98	2.64	33.66	215.21	25.16	2.46

Line Source ID	Area Source ID	X Coordinate [m]	Y Coordinate [m]	Release Height [m]	Length of Side [m]	Angle [deg]	Base Elevation [m]	Initial Sigma Z [m]
ARLN8	A0000061	403625.73	3751031.41	2.64	102.65	180.00	22.70	2.46
	A0000062	403523.08	3751031.41	2.64	102.65	180.00	22.94	2.46
	A0000063	403420.43	3751031.41	2.64	102.65	180.00	23.23	2.46
	A0000064	403317.78	3751031.41	2.64	102.65	180.00	23.65	2.46
	A0000065	403208.69	3751025.74	2.64	93.85	97.34	28.05	2.46

Line Source ID	Area Source ID	X Coordinate [m]	Y Coordinate [m]	Release Height [m]	Length of Side [m]	Angle [deg]	Base Elevation [m]	Initial Sigma Z [m]

Source Pathway - Source Inputs

AERMOD

Line Source ID	Area Source ID	X Coordinate [m]	Y Coordinate [m]	Release Height [m]	Length of Side [m]	Angle [deg]	Base Elevation [m]	Initial Sigma Z [m]
ARLN5	A0000066	403202.03	3750931.88	2.64	33.42	97.63	32.07	2.46
	A0000067	403197.59	3750898.75	2.64	33.42	97.63	24.73	2.46
	A0000068	403193.15	3750865.63	2.64	33.42	97.63	24.85	2.46
	A0000069	403188.71	3750832.50	2.64	33.42	97.63	24.68	2.46
	A0000070	403185.13	3750797.63	2.64	30.43	30.02	23.37	2.46
	A0000071	403211.47	3750782.40	2.64	30.43	30.02	24.76	2.46
	A0000072	403237.82	3750767.18	2.64	30.43	30.02	24.66	2.46
	A0000073	403264.16	3750751.96	2.64	30.43	30.02	24.67	2.46
	A0000074	403290.51	3750736.74	2.64	30.43	30.02	24.65	2.46
	A0000075	403316.85	3750721.52	2.64	30.43	30.02	24.26	2.46
	A0000076	403343.20	3750706.30	2.64	30.43	30.02	24.15	2.46
	A0000077	403369.52	3750691.09	2.64	24.91	30.98	24.36	2.46
	A0000078	403390.87	3750678.27	2.64	24.91	30.98	23.73	2.46
	A0000079	403412.31	3750665.40	2.64	31.74	28.03	23.57	2.46
	A0000080	403440.33	3750650.49	2.64	31.74	28.03	23.38	2.46
	A0000081	403468.35	3750635.57	2.64	31.74	28.03	23.54	2.46
	A0000082	403496.36	3750620.66	2.64	31.74	28.03	22.94	2.46
	A0000083	403524.38	3750605.74	2.64	31.74	28.03	22.79	2.46
	A0000084	403552.40	3750590.83	2.64	31.74	28.03	22.80	2.46

Line Source ID	Area Source ID	X Coordinate [m]	Y Coordinate [m]	Release Height [m]	Length of Side [m]	Angle [deg]	Base Elevation [m]	Initial Sigma Z [m]
ARLN7	A0000085	403509.90	3751130.96	2.64	38.88	89.39	23.34	2.46
	A0000086	403516.79	3751085.65	2.64	108.77	0.22	23.21	2.46
	A0000087	403619.08	3751091.58	2.64	69.09	88.63	22.97	2.46

Receptor Pathway

Receptor Networks

Note: Terrain Elavations and Flagpole Heights for Network Grids are in Page RE2 - 1 (If applicable)
Generated Discrete Receptors for Multi-Tier (Risk) Grid and Receptor Locations for Fenceline Grid are in Page RE3 - 1 (If applicable)

Uniform Cartesian Grid

Receptor Network ID	Grid Origin X Coordinate [m]	Grid Origin Y Coordinate [m]	No. of X-Axis Receptors	No. of Y-Axis Receptors	Spacing for X-Axis [m]	Spacing for Y-Axis [m]
UCART1	402234.13	3749205.80	25	40	101.87	101.01

Discrete Receptors

Discrete Cartesian Receptors

Record Number	X-Coordinate [m]	Y-Coordinate [m]	Group Name (Optional)	Terrain Elevations	Flagpole Heights [m] (Optional)
1	403008.61	3751235.14		24.46	
2	403210.21	3751439.36		25.01	
3	403635.16	3751113.73		23.03	
4	403415.16	3751147.23		24.41	
5	403600.54	3751145.56		23.24	
6	403633.48	3751038.35		22.83	

Plant Boundary Receptors

Discrete Cartesian Receptors (ARC) for EVALFILE Output

Record Number	X-Coordinate [m]	Y-Coordinate [m]	Group Name (Optional)	Terrain Elevations	Flagpole Heights [m] (Optional)
4	403008.39	3751234.87	ARCREC	24.46	
5	403210.21	3751439.62	ARCREC	25.01	

Receptor Groups

Record Number	Group ID	Group Description
1	NESTED	Nested Grid receptors
2	ARCREC	Discrete Cartesian Receptors for EVALFILE Output
3	Worker	Workers

Terrain Elevations and Flagpole Heights for Network Grids

Uniform Cartesian Grid

Receptor Network ID	Location: X-Coordinate [m]	Location: Y-Coordinate [m]	Terrain Elevations (Optional)	Flagpole Heights (Optional)
UCART1	402234.13	3749205.80	18.60	Option not Selected
	402336.00	3749205.80	18.70	
	402437.87	3749205.80	18.70	
	402539.74	3749205.80	19.50	
	402641.61	3749205.80	19.40	
	402743.48	3749205.80	19.40	
	402845.35	3749205.80	19.60	
	402947.22	3749205.80	19.70	
	403049.09	3749205.80	19.40	
	403150.96	3749205.80	19.60	
	403252.83	3749205.80	20.50	
	403354.70	3749205.80	20.50	
	403456.57	3749205.80	19.70	
	403558.44	3749205.80	18.80	
	403660.31	3749205.80	18.60	
	403762.18	3749205.80	19.20	
	403864.05	3749205.80	18.90	
	403965.92	3749205.80	18.90	
	404067.79	3749205.80	19.20	
	404169.66	3749205.80	18.00	
	404271.53	3749205.80	17.80	
	404373.40	3749205.80	18.00	
	404475.27	3749205.80	12.40	
	404577.14	3749205.80	18.00	
	404679.01	3749205.80	17.80	
	402234.13	3749306.81	18.80	
	402336.00	3749306.81	18.60	
	402437.87	3749306.81	19.30	
	402539.74	3749306.81	19.40	
	402641.61	3749306.81	20.10	
	402743.48	3749306.81	20.40	
	402845.35	3749306.81	19.60	
	402947.22	3749306.81	19.60	
	403049.09	3749306.81	19.70	
	403150.96	3749306.81	19.90	
	403252.83	3749306.81	20.50	
	403354.70	3749306.81	20.80	
	403456.57	3749306.81	19.60	
	403558.44	3749306.81	19.70	
	403660.31	3749306.81	19.20	
	403762.18	3749306.81	19.90	
	403864.05	3749306.81	19.70	
	403965.92	3749306.81	19.80	
	404067.79	3749306.81	19.20	
	404169.66	3749306.81	19.00	

Receptor Pathway

AERMOD

Receptor Network ID	Location: X-Coordinate [m]	Location: Y-Coordinate [m]	Terrain Elevations (Optional)	Flagpole Heights (Optional)
UCART1	404271.53	3749306.81	18.20	Option not Selected
	404373.40	3749306.81	18.40	
	404475.27	3749306.81	12.50	
	404577.14	3749306.81	17.60	
	404679.01	3749306.81	17.50	
	402234.13	3749407.82	19.10	
	402336.00	3749407.82	19.10	
	402437.87	3749407.82	19.00	
	402539.74	3749407.82	19.20	
	402641.61	3749407.82	19.20	
	402743.48	3749407.82	19.10	
	402845.35	3749407.82	19.10	
	402947.22	3749407.82	19.20	
	403049.09	3749407.82	19.50	
	403150.96	3749407.82	19.70	
	403252.83	3749407.82	20.10	
	403354.70	3749407.82	20.90	
	403456.57	3749407.82	20.80	
	403558.44	3749407.82	20.20	
	403660.31	3749407.82	19.70	
	403762.18	3749407.82	19.80	
	403864.05	3749407.82	19.80	
	403965.92	3749407.82	19.50	
	404067.79	3749407.82	19.00	
	404169.66	3749407.82	18.30	
	404271.53	3749407.82	18.10	
	404373.40	3749407.82	18.30	
	404475.27	3749407.82	12.60	
	404577.14	3749407.82	18.00	
	404679.01	3749407.82	17.20	
	402234.13	3749508.83	19.20	
	402336.00	3749508.83	19.70	
	402437.87	3749508.83	19.80	
	402539.74	3749508.83	19.50	
	402641.61	3749508.83	19.30	
	402743.48	3749508.83	19.60	
	402845.35	3749508.83	19.60	
	402947.22	3749508.83	19.90	
	403049.09	3749508.83	20.10	
	403150.96	3749508.83	20.00	
	403252.83	3749508.83	20.50	
	403354.70	3749508.83	20.80	
	403456.57	3749508.83	20.80	
	403558.44	3749508.83	20.40	
	403660.31	3749508.83	20.50	
	403762.18	3749508.83	20.10	
	403864.05	3749508.83	20.70	
	403965.92	3749508.83	20.00	

Receptor Pathway

AERMOD

Receptor Network ID	Location: X-Coordinate [m]	Location: Y-Coordinate [m]	Terrain Elevations (Optional)	Flagpole Heights (Optional)
UCART1	404067.79	3749508.83	19.60	Option not Selected
	404169.66	3749508.83	19.40	
	404271.53	3749508.83	17.80	
	404373.40	3749508.83	18.40	
	404475.27	3749508.83	12.90	
	404577.14	3749508.83	17.70	
	404679.01	3749508.83	17.50	
	402234.13	3749609.84	19.10	
	402336.00	3749609.84	19.20	
	402437.87	3749609.84	19.60	
	402539.74	3749609.84	19.40	
	402641.61	3749609.84	19.10	
	402743.48	3749609.84	19.20	
	402845.35	3749609.84	19.30	
	402947.22	3749609.84	19.50	
	403049.09	3749609.84	20.30	
	403150.96	3749609.84	20.70	
	403252.83	3749609.84	20.90	
	403354.70	3749609.84	20.80	
	403456.57	3749609.84	21.30	
	403558.44	3749609.84	20.90	
	403660.31	3749609.84	20.30	
	403762.18	3749609.84	20.00	
	403864.05	3749609.84	20.40	
	403965.92	3749609.84	19.80	
	404067.79	3749609.84	19.90	
	404169.66	3749609.84	20.20	
	404271.53	3749609.84	19.10	
	404373.40	3749609.84	18.80	
	404475.27	3749609.84	13.20	
	404577.14	3749609.84	17.70	
	404679.01	3749609.84	18.10	
	402234.13	3749710.85	20.10	
	402336.00	3749710.85	20.30	
	402437.87	3749710.85	20.50	
	402539.74	3749710.85	19.90	
	402641.61	3749710.85	20.20	
	402743.48	3749710.85	20.10	
	402845.35	3749710.85	20.70	
	402947.22	3749710.85	20.70	
	403049.09	3749710.85	20.50	
	403150.96	3749710.85	21.10	
	403252.83	3749710.85	21.30	
	403354.70	3749710.85	21.60	
	403456.57	3749710.85	21.30	
	403558.44	3749710.85	21.10	
	403660.31	3749710.85	21.10	
	403762.18	3749710.85	20.70	

Receptor Pathway

AERMOD

Receptor Network ID	Location: X-Coordinate [m]	Location: Y-Coordinate [m]	Terrain Elevations (Optional)	Flagpole Heights (Optional)
UCART1	403864.05	3749710.85	20.20	Option not Selected
	403965.92	3749710.85	19.90	
	404067.79	3749710.85	20.00	
	404169.66	3749710.85	20.10	
	404271.53	3749710.85	17.60	
	404373.40	3749710.85	17.50	
	404475.27	3749710.85	13.50	
	404577.14	3749710.85	18.80	
	404679.01	3749710.85	19.20	
	402234.13	3749811.86	20.00	
	402336.00	3749811.86	19.90	
	402437.87	3749811.86	19.60	
	402539.74	3749811.86	20.20	
	402641.61	3749811.86	20.90	
	402743.48	3749811.86	21.40	
	402845.35	3749811.86	20.70	
	402947.22	3749811.86	20.70	
	403049.09	3749811.86	20.50	
	403150.96	3749811.86	20.80	
	403252.83	3749811.86	21.40	
	403354.70	3749811.86	21.50	
	403456.57	3749811.86	21.50	
	403558.44	3749811.86	21.50	
	403660.31	3749811.86	21.80	
	403762.18	3749811.86	21.80	
	403864.05	3749811.86	21.20	
	403965.92	3749811.86	20.90	
	404067.79	3749811.86	20.70	
	404169.66	3749811.86	19.50	
	404271.53	3749811.86	19.10	
	404373.40	3749811.86	18.20	
	404475.27	3749811.86	13.80	
	404577.14	3749811.86	19.00	
	404679.01	3749811.86	18.70	
	402234.13	3749912.87	19.80	
	402336.00	3749912.87	19.80	
	402437.87	3749912.87	20.40	
	402539.74	3749912.87	19.70	
	402641.61	3749912.87	20.60	
	402743.48	3749912.87	20.80	
	402845.35	3749912.87	20.80	
	402947.22	3749912.87	20.80	
	403049.09	3749912.87	20.80	
	403150.96	3749912.87	21.10	
	403252.83	3749912.87	21.50	
	403354.70	3749912.87	21.50	
	403456.57	3749912.87	21.30	
	403558.44	3749912.87	21.10	

Receptor Pathway

AERMOD

Receptor Network ID	Location: X-Coordinate [m]	Location: Y-Coordinate [m]	Terrain Elevations (Optional)	Flagpole Heights (Optional)
UCART1	403660.31	3749912.87	21.20	Option not Selected
	403762.18	3749912.87	20.80	
	403864.05	3749912.87	20.80	
	403965.92	3749912.87	20.40	
	404067.79	3749912.87	20.70	
	404169.66	3749912.87	20.00	
	404271.53	3749912.87	19.30	
	404373.40	3749912.87	19.70	
	404475.27	3749912.87	14.90	
	404577.14	3749912.87	19.00	
	404679.01	3749912.87	19.70	
	402234.13	3750013.88	20.00	
	402336.00	3750013.88	20.80	
	402437.87	3750013.88	20.40	
	402539.74	3750013.88	20.60	
	402641.61	3750013.88	21.00	
	402743.48	3750013.88	20.80	
	402845.35	3750013.88	21.60	
	402947.22	3750013.88	21.40	
	403049.09	3750013.88	20.80	
	403150.96	3750013.88	21.60	
	403252.83	3750013.88	21.50	
	403354.70	3750013.88	21.90	
	403456.57	3750013.88	21.50	
	403558.44	3750013.88	21.90	
	403660.31	3750013.88	21.50	
	403762.18	3750013.88	20.50	
	403864.05	3750013.88	21.20	
	403965.92	3750013.88	20.60	
	404067.79	3750013.88	20.40	
	404169.66	3750013.88	19.60	
	404271.53	3750013.88	20.60	
	404373.40	3750013.88	20.20	
	404475.27	3750013.88	14.00	
	404577.14	3750013.88	20.80	
	404679.01	3750013.88	19.80	
	402234.13	3750114.89	21.40	
	402336.00	3750114.89	21.30	
	402437.87	3750114.89	20.90	
	402539.74	3750114.89	21.40	
	402641.61	3750114.89	21.10	
	402743.48	3750114.89	20.70	
	402845.35	3750114.89	21.70	
	402947.22	3750114.89	21.80	
	403049.09	3750114.89	21.90	
	403150.96	3750114.89	21.90	
	403252.83	3750114.89	21.90	
	403354.70	3750114.89	22.20	

Receptor Pathway

AERMOD

Receptor Network ID	Location: X-Coordinate [m]	Location: Y-Coordinate [m]	Terrain Elevations (Optional)	Flagpole Heights (Optional)
UCART1	403456.57	3750114.89	22.00	Option not Selected
	403558.44	3750114.89	22.50	
	403660.31	3750114.89	22.00	
	403762.18	3750114.89	20.80	
	403864.05	3750114.89	21.20	
	403965.92	3750114.89	21.20	
	404067.79	3750114.89	20.10	
	404169.66	3750114.89	20.50	
	404271.53	3750114.89	20.20	
	404373.40	3750114.89	22.30	
	404475.27	3750114.89	14.00	
	404577.14	3750114.89	20.00	
	404679.01	3750114.89	19.70	
	402234.13	3750215.90	22.00	
	402336.00	3750215.90	21.80	
	402437.87	3750215.90	21.60	
	402539.74	3750215.90	21.30	
	402641.61	3750215.90	21.10	
	402743.48	3750215.90	21.60	
	402845.35	3750215.90	22.40	
	402947.22	3750215.90	22.40	
	403049.09	3750215.90	22.20	
	403150.96	3750215.90	21.90	
	403252.83	3750215.90	22.10	
	403354.70	3750215.90	22.50	
	403456.57	3750215.90	22.80	
	403558.44	3750215.90	22.40	
	403660.31	3750215.90	22.00	
	403762.18	3750215.90	21.70	
	403864.05	3750215.90	21.10	
	403965.92	3750215.90	21.00	
	404067.79	3750215.90	23.60	
	404169.66	3750215.90	20.70	
	404271.53	3750215.90	25.50	
	404373.40	3750215.90	26.20	
	404475.27	3750215.90	14.10	
	404577.14	3750215.90	20.00	
	404679.01	3750215.90	20.00	
	402234.13	3750316.91	22.50	
	402336.00	3750316.91	22.00	
	402437.87	3750316.91	22.00	
	402539.74	3750316.91	21.10	
	402641.61	3750316.91	21.20	
	402743.48	3750316.91	22.60	
	402845.35	3750316.91	22.10	
	402947.22	3750316.91	22.80	
	403049.09	3750316.91	22.90	
	403150.96	3750316.91	22.70	

Receptor Pathway

AERMOD

Receptor Network ID	Location: X-Coordinate [m]	Location: Y-Coordinate [m]	Terrain Elevations (Optional)	Flagpole Heights (Optional)
UCART1	403252.83	3750316.91	22.80	Option not Selected
	403354.70	3750316.91	22.90	
	403456.57	3750316.91	23.00	
	403558.44	3750316.91	22.70	
	403660.31	3750316.91	22.10	
	403762.18	3750316.91	21.60	
	403864.05	3750316.91	21.20	
	403965.92	3750316.91	21.20	
	404067.79	3750316.91	21.00	
	404169.66	3750316.91	18.40	
	404271.53	3750316.91	19.90	
	404373.40	3750316.91	20.20	
	404475.27	3750316.91	14.30	
	404577.14	3750316.91	20.50	
	404679.01	3750316.91	20.50	
	402234.13	3750417.92	22.10	
	402336.00	3750417.92	22.20	
	402437.87	3750417.92	22.70	
	402539.74	3750417.92	21.70	
	402641.61	3750417.92	21.70	
	402743.48	3750417.92	21.60	
	402845.35	3750417.92	22.40	
	402947.22	3750417.92	23.10	
	403049.09	3750417.92	23.20	
	403150.96	3750417.92	23.10	
	403252.83	3750417.92	23.40	
	403354.70	3750417.92	23.10	
	403456.57	3750417.92	23.50	
	403558.44	3750417.92	22.70	
	403660.31	3750417.92	22.50	
	403762.18	3750417.92	22.20	
	403864.05	3750417.92	21.80	
	403965.92	3750417.92	21.10	
	404067.79	3750417.92	21.80	
	404169.66	3750417.92	21.10	
	404271.53	3750417.92	20.40	
	404373.40	3750417.92	20.90	
	404475.27	3750417.92	14.80	
	404577.14	3750417.92	20.20	
	404679.01	3750417.92	20.10	
	402234.13	3750518.93	22.30	
	402336.00	3750518.93	22.30	
	402437.87	3750518.93	22.60	
	402539.74	3750518.93	22.40	
	402641.61	3750518.93	22.40	
	402743.48	3750518.93	23.30	
	402845.35	3750518.93	23.30	
	402947.22	3750518.93	23.30	

Receptor Pathway

AERMOD

Receptor Network ID	Location: X-Coordinate [m]	Location: Y-Coordinate [m]	Terrain Elevations (Optional)	Flagpole Heights (Optional)
UCART1	403049.09	3750518.93	23.30	Option not Selected
	403150.96	3750518.93	23.30	
	403252.83	3750518.93	23.40	
	403354.70	3750518.93	23.60	
	403456.57	3750518.93	23.00	
	403558.44	3750518.93	23.30	
	403660.31	3750518.93	22.20	
	403762.18	3750518.93	22.20	
	403864.05	3750518.93	21.30	
	403965.92	3750518.93	21.00	
	404067.79	3750518.93	22.00	
	404169.66	3750518.93	21.10	
	404271.53	3750518.93	20.40	
	404373.40	3750518.93	20.50	
	404475.27	3750518.93	15.30	
	404577.14	3750518.93	20.30	
	404679.01	3750518.93	20.90	
	402234.13	3750619.94	22.30	
	402336.00	3750619.94	22.50	
	402437.87	3750619.94	22.50	
	402539.74	3750619.94	22.50	
	402641.61	3750619.94	22.60	
	402743.48	3750619.94	22.70	
	402845.35	3750619.94	23.30	
	402947.22	3750619.94	23.20	
	403049.09	3750619.94	23.30	
	403150.96	3750619.94	23.80	
	403252.83	3750619.94	23.50	
	403354.70	3750619.94	23.70	
	403456.57	3750619.94	24.80	
	403558.44	3750619.94	23.20	
	403660.31	3750619.94	22.10	
	403762.18	3750619.94	21.70	
	403864.05	3750619.94	21.90	
	403965.92	3750619.94	20.90	
	404067.79	3750619.94	21.90	
	404169.66	3750619.94	21.10	
	404271.53	3750619.94	20.90	
	404373.40	3750619.94	21.40	
	404475.27	3750619.94	15.60	
	404577.14	3750619.94	21.60	
	404679.01	3750619.94	20.10	
	402234.13	3750720.95	22.50	
	402336.00	3750720.95	22.60	
	402437.87	3750720.95	22.70	
	402539.74	3750720.95	23.40	
	402641.61	3750720.95	23.50	
	402743.48	3750720.95	23.60	

Receptor Pathway

AERMOD

Receptor Network ID	Location: X-Coordinate [m]	Location: Y-Coordinate [m]	Terrain Elevations (Optional)	Flagpole Heights (Optional)
UCART1	402845.35	3750720.95	23.70	Option not Selected
	402947.22	3750720.95	23.70	
	403049.09	3750720.95	23.70	
	403150.96	3750720.95	24.00	
	403252.83	3750720.95	24.70	
	403354.70	3750720.95	23.70	
	403456.57	3750720.95	23.40	
	403558.44	3750720.95	23.10	
	403660.31	3750720.95	22.10	
	403762.18	3750720.95	21.90	
	403864.05	3750720.95	22.20	
	403965.92	3750720.95	21.10	
	404067.79	3750720.95	22.10	
	404169.66	3750720.95	22.10	
	404271.53	3750720.95	21.50	
	404373.40	3750720.95	21.60	
	404475.27	3750720.95	19.20	
	404577.14	3750720.95	22.30	
	404679.01	3750720.95	22.50	
	402234.13	3750821.96	22.70	
	402336.00	3750821.96	23.00	
	402437.87	3750821.96	22.80	
	402539.74	3750821.96	22.90	
	402641.61	3750821.96	23.20	
	402743.48	3750821.96	23.30	
	402845.35	3750821.96	23.40	
	402947.22	3750821.96	23.40	
	403049.09	3750821.96	24.60	
	403150.96	3750821.96	24.00	
	403252.83	3750821.96	24.70	
	403354.70	3750821.96	24.70	
	403456.57	3750821.96	22.90	
	403558.44	3750821.96	23.20	
	403660.31	3750821.96	22.70	
	403762.18	3750821.96	22.30	
	403864.05	3750821.96	21.60	
	403965.92	3750821.96	21.20	
	404067.79	3750821.96	21.40	
	404169.66	3750821.96	21.60	
	404271.53	3750821.96	22.00	
	404373.40	3750821.96	21.70	
	404475.27	3750821.96	23.60	
	404577.14	3750821.96	23.60	
	404679.01	3750821.96	24.10	
	402234.13	3750922.97	23.20	
	402336.00	3750922.97	23.30	
	402437.87	3750922.97	23.30	
	402539.74	3750922.97	23.50	

Receptor Pathway

AERMOD

Receptor Network ID	Location: X-Coordinate [m]	Location: Y-Coordinate [m]	Terrain Elevations (Optional)	Flagpole Heights (Optional)
UCART1	402641.61	3750922.97	23.50	Option not Selected
	402743.48	3750922.97	23.60	
	402845.35	3750922.97	23.90	
	402947.22	3750922.97	24.90	
	403049.09	3750922.97	25.10	
	403150.96	3750922.97	25.00	
	403252.83	3750922.97	24.60	
	403354.70	3750922.97	24.30	
	403456.57	3750922.97	23.30	
	403558.44	3750922.97	23.40	
	403660.31	3750922.97	22.50	
	403762.18	3750922.97	22.20	
	403864.05	3750922.97	21.70	
	403965.92	3750922.97	21.50	
	404067.79	3750922.97	21.50	
	404169.66	3750922.97	21.80	
	404271.53	3750922.97	22.20	
	404373.40	3750922.97	23.30	
	404475.27	3750922.97	23.90	
	404577.14	3750922.97	23.30	
	404679.01	3750922.97	23.80	
	402234.13	3751023.98	23.60	
	402336.00	3751023.98	23.20	
	402437.87	3751023.98	23.00	
	402539.74	3751023.98	23.30	
	402641.61	3751023.98	23.60	
	402743.48	3751023.98	23.80	
	402845.35	3751023.98	25.10	
	402947.22	3751023.98	24.90	
	403049.09	3751023.98	26.40	
	403150.96	3751023.98	24.80	
	403252.83	3751023.98	26.00	
	403354.70	3751023.98	23.50	
	403456.57	3751023.98	23.10	
	403558.44	3751023.98	22.80	
	403660.31	3751023.98	22.50	
	403762.18	3751023.98	21.90	
	403864.05	3751023.98	21.60	
	403965.92	3751023.98	21.40	
	404067.79	3751023.98	21.70	
	404169.66	3751023.98	22.40	
	404271.53	3751023.98	21.50	
	404373.40	3751023.98	23.80	
	404475.27	3751023.98	23.90	
	404577.14	3751023.98	24.00	
	404679.01	3751023.98	24.00	
	402234.13	3751124.99	24.90	
	402336.00	3751124.99	24.00	

Receptor Pathway

AERMOD

Receptor Network ID	Location: X-Coordinate [m]	Location: Y-Coordinate [m]	Terrain Elevations (Optional)	Flagpole Heights (Optional)
UCART1	402437.87	3751124.99	23.60	Option not Selected
	402539.74	3751124.99	23.80	
	402641.61	3751124.99	24.20	
	402743.48	3751124.99	23.80	
	402845.35	3751124.99	25.70	
	402947.22	3751124.99	24.70	
	403049.09	3751124.99	25.50	
	403150.96	3751124.99	25.40	
	403252.83	3751124.99	24.60	
	403354.70	3751124.99	24.30	
	403456.57	3751124.99	23.60	
	403558.44	3751124.99	23.50	
	403660.31	3751124.99	23.10	
	403762.18	3751124.99	22.40	
	403864.05	3751124.99	22.20	
	403965.92	3751124.99	22.10	
	404067.79	3751124.99	22.10	
	404169.66	3751124.99	18.20	
	404271.53	3751124.99	24.20	
	404373.40	3751124.99	23.50	
	404475.27	3751124.99	23.90	
	404577.14	3751124.99	23.90	
	404679.01	3751124.99	24.70	
	402234.13	3751226.00	24.50	
	402336.00	3751226.00	23.90	
	402437.87	3751226.00	24.30	
	402539.74	3751226.00	24.10	
	402641.61	3751226.00	24.30	
	402743.48	3751226.00	24.70	
	402845.35	3751226.00	24.60	
	402947.22	3751226.00	24.80	
	403049.09	3751226.00	25.60	
	403150.96	3751226.00	25.40	
	403252.83	3751226.00	24.70	
	403354.70	3751226.00	24.60	
	403456.57	3751226.00	23.90	
	403558.44	3751226.00	23.40	
	403660.31	3751226.00	22.70	
	403762.18	3751226.00	22.40	
	403864.05	3751226.00	22.50	
	403965.92	3751226.00	22.60	
	404067.79	3751226.00	18.20	
	404169.66	3751226.00	24.00	
	404271.53	3751226.00	23.80	
	404373.40	3751226.00	23.80	
	404475.27	3751226.00	23.80	
	404577.14	3751226.00	24.40	
	404679.01	3751226.00	25.80	

Receptor Pathway

AERMOD

Receptor Network ID	Location: X-Coordinate [m]	Location: Y-Coordinate [m]	Terrain Elevations (Optional)	Flagpole Heights (Optional)
UCART1	402234.13	3751327.01	24.40	Option not Selected
	402336.00	3751327.01	23.90	
	402437.87	3751327.01	24.20	
	402539.74	3751327.01	24.50	
	402641.61	3751327.01	23.90	
	402743.48	3751327.01	24.00	
	402845.35	3751327.01	24.60	
	402947.22	3751327.01	24.60	
	403049.09	3751327.01	25.90	
	403150.96	3751327.01	25.40	
	403252.83	3751327.01	24.90	
	403354.70	3751327.01	24.30	
	403456.57	3751327.01	23.90	
	403558.44	3751327.01	23.30	
	403660.31	3751327.01	22.60	
	403762.18	3751327.01	22.90	
	403864.05	3751327.01	22.80	
	403965.92	3751327.01	20.50	
	404067.79	3751327.01	23.70	
	404169.66	3751327.01	24.10	
	404271.53	3751327.01	23.90	
	404373.40	3751327.01	24.20	
	404475.27	3751327.01	24.50	
	404577.14	3751327.01	24.80	
	404679.01	3751327.01	25.70	
	402234.13	3751428.02	25.30	
	402336.00	3751428.02	24.60	
	402437.87	3751428.02	24.40	
	402539.74	3751428.02	24.30	
	402641.61	3751428.02	24.10	
	402743.48	3751428.02	24.20	
	402845.35	3751428.02	24.40	
	402947.22	3751428.02	24.60	
	403049.09	3751428.02	24.80	
	403150.96	3751428.02	24.90	
	403252.83	3751428.02	25.20	
	403354.70	3751428.02	25.10	
	403456.57	3751428.02	24.10	
	403558.44	3751428.02	23.50	
	403660.31	3751428.02	23.30	
	403762.18	3751428.02	22.90	
	403864.05	3751428.02	23.50	
	403965.92	3751428.02	23.90	
	404067.79	3751428.02	24.10	
	404169.66	3751428.02	24.80	
	404271.53	3751428.02	24.40	
	404373.40	3751428.02	24.60	
	404475.27	3751428.02	25.30	

Receptor Pathway

AERMOD

Receptor Network ID	Location: X-Coordinate [m]	Location: Y-Coordinate [m]	Terrain Elevations (Optional)	Flagpole Heights (Optional)
UCART1	404577.14	3751428.02	26.10	Option not Selected
	404679.01	3751428.02	29.20	
	402234.13	3751529.03	25.60	
	402336.00	3751529.03	24.40	
	402437.87	3751529.03	24.30	
	402539.74	3751529.03	24.50	
	402641.61	3751529.03	24.50	
	402743.48	3751529.03	24.20	
	402845.35	3751529.03	24.70	
	402947.22	3751529.03	25.10	
	403049.09	3751529.03	25.10	
	403150.96	3751529.03	25.00	
	403252.83	3751529.03	25.10	
	403354.70	3751529.03	24.90	
	403456.57	3751529.03	24.40	
	403558.44	3751529.03	23.50	
	403660.31	3751529.03	23.00	
	403762.18	3751529.03	23.40	
	403864.05	3751529.03	24.50	
	403965.92	3751529.03	24.00	
	404067.79	3751529.03	24.50	
	404169.66	3751529.03	25.00	
	404271.53	3751529.03	24.60	
	404373.40	3751529.03	24.90	
	404475.27	3751529.03	29.10	
	404577.14	3751529.03	29.80	
	404679.01	3751529.03	30.80	
	402234.13	3751630.04	25.00	
	402336.00	3751630.04	24.80	
	402437.87	3751630.04	24.90	
	402539.74	3751630.04	24.70	
	402641.61	3751630.04	24.70	
	402743.48	3751630.04	24.40	
	402845.35	3751630.04	24.90	
	402947.22	3751630.04	25.10	
	403049.09	3751630.04	25.30	
	403150.96	3751630.04	25.20	
	403252.83	3751630.04	25.50	
	403354.70	3751630.04	25.50	
	403456.57	3751630.04	24.70	
	403558.44	3751630.04	23.60	
	403660.31	3751630.04	23.60	
	403762.18	3751630.04	20.40	
	403864.05	3751630.04	24.00	
	403965.92	3751630.04	24.20	
	404067.79	3751630.04	25.30	
	404169.66	3751630.04	25.30	
	404271.53	3751630.04	25.30	

Receptor Pathway

AERMOD

Receptor Network ID	Location: X-Coordinate [m]	Location: Y-Coordinate [m]	Terrain Elevations (Optional)	Flagpole Heights (Optional)
UCART1	404373.40	3751630.04	27.90	Option not Selected
	404475.27	3751630.04	29.00	
	404577.14	3751630.04	30.50	
	404679.01	3751630.04	31.30	
	402234.13	3751731.05	25.80	
	402336.00	3751731.05	25.50	
	402437.87	3751731.05	25.10	
	402539.74	3751731.05	24.70	
	402641.61	3751731.05	24.40	
	402743.48	3751731.05	24.50	
	402845.35	3751731.05	25.10	
	402947.22	3751731.05	25.60	
	403049.09	3751731.05	25.80	
	403150.96	3751731.05	25.40	
	403252.83	3751731.05	25.70	
	403354.70	3751731.05	25.80	
	403456.57	3751731.05	25.20	
	403558.44	3751731.05	24.50	
	403660.31	3751731.05	25.40	
	403762.18	3751731.05	25.30	
	403864.05	3751731.05	24.80	
	403965.92	3751731.05	25.30	
	404067.79	3751731.05	27.10	
	404169.66	3751731.05	28.20	
	404271.53	3751731.05	28.20	
	404373.40	3751731.05	28.60	
	404475.27	3751731.05	30.00	
	404577.14	3751731.05	31.20	
	404679.01	3751731.05	31.80	
	402234.13	3751832.06	26.10	
	402336.00	3751832.06	25.90	
	402437.87	3751832.06	25.60	
	402539.74	3751832.06	25.30	
	402641.61	3751832.06	25.10	
	402743.48	3751832.06	25.50	
	402845.35	3751832.06	25.70	
	402947.22	3751832.06	25.60	
	403049.09	3751832.06	25.80	
	403150.96	3751832.06	25.70	
	403252.83	3751832.06	25.50	
	403354.70	3751832.06	25.50	
	403456.57	3751832.06	25.20	
	403558.44	3751832.06	25.10	
	403660.31	3751832.06	26.80	
	403762.18	3751832.06	26.70	
	403864.05	3751832.06	25.90	
	403965.92	3751832.06	27.10	
	404067.79	3751832.06	28.50	

Receptor Pathway

AERMOD

Receptor Network ID	Location: X-Coordinate [m]	Location: Y-Coordinate [m]	Terrain Elevations (Optional)	Flagpole Heights (Optional)
UCART1	404169.66	3751832.06	28.30	Option not Selected
	404271.53	3751832.06	28.80	
	404373.40	3751832.06	29.60	
	404475.27	3751832.06	30.70	
	404577.14	3751832.06	31.80	
	404679.01	3751832.06	32.90	
	402234.13	3751933.07	26.60	
	402336.00	3751933.07	26.40	
	402437.87	3751933.07	25.70	
	402539.74	3751933.07	26.30	
	402641.61	3751933.07	25.80	
	402743.48	3751933.07	26.10	
	402845.35	3751933.07	25.30	
	402947.22	3751933.07	25.90	
	403049.09	3751933.07	25.50	
	403150.96	3751933.07	25.90	
	403252.83	3751933.07	26.10	
	403354.70	3751933.07	25.70	
	403456.57	3751933.07	25.70	
	403558.44	3751933.07	25.50	
	403660.31	3751933.07	26.50	
	403762.18	3751933.07	26.20	
	403864.05	3751933.07	27.30	
	403965.92	3751933.07	28.10	
	404067.79	3751933.07	28.90	
	404169.66	3751933.07	29.20	
	404271.53	3751933.07	29.50	
	404373.40	3751933.07	29.70	
	404475.27	3751933.07	30.90	
	404577.14	3751933.07	32.50	
	404679.01	3751933.07	33.90	
	402234.13	3752034.08	26.80	
	402336.00	3752034.08	26.50	
	402437.87	3752034.08	26.00	
	402539.74	3752034.08	26.60	
	402641.61	3752034.08	27.30	
	402743.48	3752034.08	26.10	
	402845.35	3752034.08	25.20	
	402947.22	3752034.08	26.20	
	403049.09	3752034.08	26.80	
	403150.96	3752034.08	26.70	
	403252.83	3752034.08	26.30	
	403354.70	3752034.08	26.30	
	403456.57	3752034.08	26.10	
	403558.44	3752034.08	26.00	
	403660.31	3752034.08	26.80	
	403762.18	3752034.08	27.40	
	403864.05	3752034.08	28.10	

Receptor Pathway

AERMOD

Receptor Network ID	Location: X-Coordinate [m]	Location: Y-Coordinate [m]	Terrain Elevations (Optional)	Flagpole Heights (Optional)
UCART1	403965.92	3752034.08	28.70	Option not Selected
	404067.79	3752034.08	28.30	
	404169.66	3752034.08	28.30	
	404271.53	3752034.08	28.40	
	404373.40	3752034.08	28.20	
	404475.27	3752034.08	28.80	
	404577.14	3752034.08	32.90	
	404679.01	3752034.08	35.40	
	402234.13	3752135.09	26.90	
	402336.00	3752135.09	26.60	
	402437.87	3752135.09	26.10	
	402539.74	3752135.09	26.30	
	402641.61	3752135.09	26.90	
	402743.48	3752135.09	26.40	
	402845.35	3752135.09	26.00	
	402947.22	3752135.09	26.80	
	403049.09	3752135.09	26.70	
	403150.96	3752135.09	26.50	
	403252.83	3752135.09	26.60	
	403354.70	3752135.09	26.90	
	403456.57	3752135.09	26.40	
	403558.44	3752135.09	26.80	
	403660.31	3752135.09	26.90	
	403762.18	3752135.09	27.50	
	403864.05	3752135.09	27.50	
	403965.92	3752135.09	27.80	
	404067.79	3752135.09	28.00	
	404169.66	3752135.09	28.30	
	404271.53	3752135.09	28.30	
	404373.40	3752135.09	28.50	
	404475.27	3752135.09	28.30	
	404577.14	3752135.09	28.70	
	404679.01	3752135.09	31.10	
	402234.13	3752236.10	27.10	
	402336.00	3752236.10	26.90	
	402437.87	3752236.10	26.50	
	402539.74	3752236.10	26.70	
	402641.61	3752236.10	27.10	
	402743.48	3752236.10	27.40	
	402845.35	3752236.10	26.80	
	402947.22	3752236.10	26.60	
	403049.09	3752236.10	26.50	
	403150.96	3752236.10	26.60	
	403252.83	3752236.10	26.50	
	403354.70	3752236.10	26.50	
	403456.57	3752236.10	28.20	
	403558.44	3752236.10	26.70	
	403660.31	3752236.10	26.70	

Receptor Pathway

AERMOD

Receptor Network ID	Location: X-Coordinate [m]	Location: Y-Coordinate [m]	Terrain Elevations (Optional)	Flagpole Heights (Optional)
UCART1	403762.18	3752236.10	25.10	Option not Selected
	403864.05	3752236.10	24.50	
	403965.92	3752236.10	24.40	
	404067.79	3752236.10	26.20	
	404169.66	3752236.10	26.30	
	404271.53	3752236.10	26.50	
	404373.40	3752236.10	26.80	
	404475.27	3752236.10	28.00	
	404577.14	3752236.10	28.20	
	404679.01	3752236.10	28.20	
	402234.13	3752337.11	27.00	
	402336.00	3752337.11	26.80	
	402437.87	3752337.11	26.70	
	402539.74	3752337.11	27.00	
	402641.61	3752337.11	27.00	
	402743.48	3752337.11	27.60	
	402845.35	3752337.11	27.10	
	402947.22	3752337.11	27.00	
	403049.09	3752337.11	26.60	
	403150.96	3752337.11	26.30	
	403252.83	3752337.11	24.70	
	403354.70	3752337.11	27.30	
	403456.57	3752337.11	27.20	
	403558.44	3752337.11	27.00	
	403660.31	3752337.11	26.70	
	403762.18	3752337.11	26.80	
	403864.05	3752337.11	27.20	
	403965.92	3752337.11	27.00	
	404067.79	3752337.11	28.00	
	404169.66	3752337.11	28.20	
	404271.53	3752337.11	28.40	
	404373.40	3752337.11	28.40	
	404475.27	3752337.11	28.40	
	404577.14	3752337.11	27.60	
	404679.01	3752337.11	28.40	
	402234.13	3752438.12	27.50	
	402336.00	3752438.12	27.20	
	402437.87	3752438.12	27.00	
	402539.74	3752438.12	27.40	
	402641.61	3752438.12	27.90	
	402743.48	3752438.12	27.60	
	402845.35	3752438.12	27.40	
	402947.22	3752438.12	27.30	
	403049.09	3752438.12	28.20	
	403150.96	3752438.12	27.50	
	403252.83	3752438.12	24.40	
	403354.70	3752438.12	26.90	
	403456.57	3752438.12	27.10	

Receptor Pathway

AERMOD

Receptor Network ID	Location: X-Coordinate [m]	Location: Y-Coordinate [m]	Terrain Elevations (Optional)	Flagpole Heights (Optional)
UCART1	403558.44	3752438.12	27.10	Option not Selected
	403660.31	3752438.12	26.90	
	403762.18	3752438.12	26.20	
	403864.05	3752438.12	27.20	
	403965.92	3752438.12	27.00	
	404067.79	3752438.12	28.00	
	404169.66	3752438.12	27.90	
	404271.53	3752438.12	29.00	
	404373.40	3752438.12	31.20	
	404475.27	3752438.12	30.70	
	404577.14	3752438.12	29.40	
	404679.01	3752438.12	29.10	
	402234.13	3752539.13	27.90	
	402336.00	3752539.13	27.60	
	402437.87	3752539.13	27.50	
	402539.74	3752539.13	28.20	
	402641.61	3752539.13	28.20	
	402743.48	3752539.13	28.00	
	402845.35	3752539.13	27.60	
	402947.22	3752539.13	27.80	
	403049.09	3752539.13	28.30	
	403150.96	3752539.13	27.90	
	403252.83	3752539.13	27.60	
	403354.70	3752539.13	27.20	
	403456.57	3752539.13	27.90	
	403558.44	3752539.13	28.00	
	403660.31	3752539.13	27.20	
	403762.18	3752539.13	24.70	
	403864.05	3752539.13	27.70	
	403965.92	3752539.13	27.30	
	404067.79	3752539.13	28.30	
	404169.66	3752539.13	28.10	
	404271.53	3752539.13	31.10	
	404373.40	3752539.13	31.90	
	404475.27	3752539.13	31.40	
	404577.14	3752539.13	31.80	
	404679.01	3752539.13	30.10	
	402234.13	3752640.14	27.40	
	402336.00	3752640.14	27.70	
	402437.87	3752640.14	28.10	
	402539.74	3752640.14	27.90	
	402641.61	3752640.14	27.70	
	402743.48	3752640.14	27.70	
	402845.35	3752640.14	28.00	
	402947.22	3752640.14	27.70	
	403049.09	3752640.14	27.80	
	403150.96	3752640.14	27.80	
	403252.83	3752640.14	28.00	

Receptor Pathway

Receptor Network ID	Location: X-Coordinate [m]	Location: Y-Coordinate [m]	Terrain Elevations (Optional)	Flagpole Heights (Optional)
UCART1	403354.70	3752640.14	28.20	Option not Selected
	403456.57	3752640.14	28.40	
	403558.44	3752640.14	28.20	
	403660.31	3752640.14	27.80	
	403762.18	3752640.14	29.90	
	403864.05	3752640.14	31.30	
	403965.92	3752640.14	31.30	
	404067.79	3752640.14	28.60	
	404169.66	3752640.14	29.60	
	404271.53	3752640.14	31.00	
	404373.40	3752640.14	32.20	
	404475.27	3752640.14	33.20	
	404577.14	3752640.14	31.60	
	404679.01	3752640.14	29.60	
	402234.13	3752741.15	27.80	
	402336.00	3752741.15	28.30	
	402437.87	3752741.15	28.50	
	402539.74	3752741.15	28.40	
	402641.61	3752741.15	27.90	
	402743.48	3752741.15	28.90	
	402845.35	3752741.15	28.40	
	402947.22	3752741.15	28.20	
	403049.09	3752741.15	28.20	
	403150.96	3752741.15	28.30	
	403252.83	3752741.15	28.50	
	403354.70	3752741.15	28.20	
	403456.57	3752741.15	28.50	
	403558.44	3752741.15	28.70	
	403660.31	3752741.15	28.90	
	403762.18	3752741.15	30.40	
	403864.05	3752741.15	32.10	
	403965.92	3752741.15	33.30	
	404067.79	3752741.15	34.30	
	404169.66	3752741.15	29.80	
	404271.53	3752741.15	31.30	
	404373.40	3752741.15	33.00	
	404475.27	3752741.15	33.50	
	404577.14	3752741.15	30.80	
	404679.01	3752741.15	30.30	
	402234.13	3752842.16	28.20	
	402336.00	3752842.16	28.80	
	402437.87	3752842.16	29.00	
	402539.74	3752842.16	28.60	
	402641.61	3752842.16	28.10	
	402743.48	3752842.16	29.10	
	402845.35	3752842.16	28.90	
	402947.22	3752842.16	28.80	
	403049.09	3752842.16	28.80	

Receptor Pathway

AERMOD

Receptor Network ID	Location: X-Coordinate [m]	Location: Y-Coordinate [m]	Terrain Elevations (Optional)	Flagpole Heights (Optional)
UCART1	403150.96	3752842.16	28.90	Option not Selected
	403252.83	3752842.16	28.60	
	403354.70	3752842.16	28.50	
	403456.57	3752842.16	28.60	
	403558.44	3752842.16	29.00	
	403660.31	3752842.16	30.40	
	403762.18	3752842.16	30.80	
	403864.05	3752842.16	25.50	
	403965.92	3752842.16	34.10	
	404067.79	3752842.16	35.60	
	404169.66	3752842.16	30.20	
	404271.53	3752842.16	31.40	
	404373.40	3752842.16	33.20	
	404475.27	3752842.16	33.70	
	404577.14	3752842.16	31.00	
	404679.01	3752842.16	30.60	
	402234.13	3752943.17	28.80	
	402336.00	3752943.17	29.30	
	402437.87	3752943.17	30.60	
	402539.74	3752943.17	28.90	
	402641.61	3752943.17	28.20	
	402743.48	3752943.17	28.20	
	402845.35	3752943.17	28.70	
	402947.22	3752943.17	28.80	
	403049.09	3752943.17	28.80	
	403150.96	3752943.17	28.80	
	403252.83	3752943.17	29.10	
	403354.70	3752943.17	29.50	
	403456.57	3752943.17	29.60	
	403558.44	3752943.17	30.50	
	403660.31	3752943.17	30.10	
	403762.18	3752943.17	30.70	
	403864.05	3752943.17	30.20	
	403965.92	3752943.17	32.80	
	404067.79	3752943.17	31.30	
	404169.66	3752943.17	30.30	
	404271.53	3752943.17	31.70	
	404373.40	3752943.17	33.40	
	404475.27	3752943.17	33.70	
	404577.14	3752943.17	31.20	
	404679.01	3752943.17	30.70	
	402234.13	3753044.18	28.00	
	402336.00	3753044.18	34.20	
	402437.87	3753044.18	29.20	
	402539.74	3753044.18	28.80	
	402641.61	3753044.18	28.50	
	402743.48	3753044.18	28.60	
	402845.35	3753044.18	28.40	

Receptor Pathway

AERMOD

Receptor Network ID	Location: X-Coordinate [m]	Location: Y-Coordinate [m]	Terrain Elevations (Optional)	Flagpole Heights (Optional)
UCART1	402947.22	3753044.18	28.00	Option not Selected
	403049.09	3753044.18	28.00	
	403150.96	3753044.18	28.00	
	403252.83	3753044.18	28.90	
	403354.70	3753044.18	29.50	
	403456.57	3753044.18	29.40	
	403558.44	3753044.18	29.80	
	403660.31	3753044.18	32.80	
	403762.18	3753044.18	31.70	
	403864.05	3753044.18	30.50	
	403965.92	3753044.18	31.30	
	404067.79	3753044.18	32.40	
	404169.66	3753044.18	30.90	
	404271.53	3753044.18	32.20	
	404373.40	3753044.18	32.30	
	404475.27	3753044.18	33.50	
	404577.14	3753044.18	31.40	
	404679.01	3753044.18	30.70	
	402234.13	3753145.19	34.50	
	402336.00	3753145.19	34.50	
	402437.87	3753145.19	29.50	
	402539.74	3753145.19	29.90	
	402641.61	3753145.19	29.60	
	402743.48	3753145.19	29.90	
	402845.35	3753145.19	29.60	
	402947.22	3753145.19	29.50	
	403049.09	3753145.19	29.40	
	403150.96	3753145.19	29.40	
	403252.83	3753145.19	29.30	
	403354.70	3753145.19	29.40	
	403456.57	3753145.19	30.10	
	403558.44	3753145.19	29.80	
	403660.31	3753145.19	33.10	
	403762.18	3753145.19	32.20	
	403864.05	3753145.19	31.50	
	403965.92	3753145.19	30.90	
	404067.79	3753145.19	32.60	
	404169.66	3753145.19	31.50	
	404271.53	3753145.19	32.20	
	404373.40	3753145.19	32.60	
	404475.27	3753145.19	32.80	
	404577.14	3753145.19	32.50	
	404679.01	3753145.19	32.20	

Meteorology Pathway

Met Input Data

Surface Met Data

Filename: KFUL_V9_ADJU\KFUL_v9.SFC
Format Type: Default AERMET format

Profile Met Data

Filename: KFUL_V9_ADJU\KFUL_v9.PFL
Format Type: Default AERMET format

Wind Speed

☐ Wind Speeds are Vector Mean (Not Scalar Means)

Wind Direction

Rotation Adjustment [deg]:

Potential Temperature Profile

Base Elevation above MSL (for Primary Met Tower): 30.00 [m]

Meteorological Station Data

Stations	Station No.	Year	X Coordinate [m]	Y Coordinate [m]	Station Name
Surface		2012			Fullerton Municipal Airport
Upper Air		2012			

Data Period

Data Period to Process

Start Date: 1/1/2012 Start Hour: 1 End Date: 12/31/2016 End Hour: 24

Wind Speed Categories

Stability Category	Wind Speed [m/s]	Stability Category	Wind Speed [m/s]
A	1.54	D	8.23
B	3.09	E	10.8
C	5.14	F	No Upper Bound

Output Pathway

Tabular Printed Outputs

Short Term Averaging Period	RECTABLE Highest Values Table										MAXTABLE Maximum Values Table	DAYTABLE Daily Values Table
	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th		
1	■	☐	☐	☐	☐	☐	☐	☐	☐	☐		No

Contour Plot Files (PLOTFILE)

Path for PLOTFILES: CARM_CON.AD

Averaging Period	Source Group ID	High Value	File Name
1	ALL	1st	01H1GALL.PLT
Period	ALL	N/A	PE00GALL.PLT

Results Summary

C:\Users\EPD\EPD Solutions\EPD Project Site - Projects\TECHNICAL SER

PM10 - Concentration - Source Group: ALL

Averaging Period	Rank	Peak	Units	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	15.93769	ug/m^3	403456.57	3751226.00	23.90	0.00	23.90	5/28/2012, 6
PERIOD		3.74162	ug/m^3	403558.44	3751124.99	23.50	0.00	23.50	

Sensitive Receptor Summary

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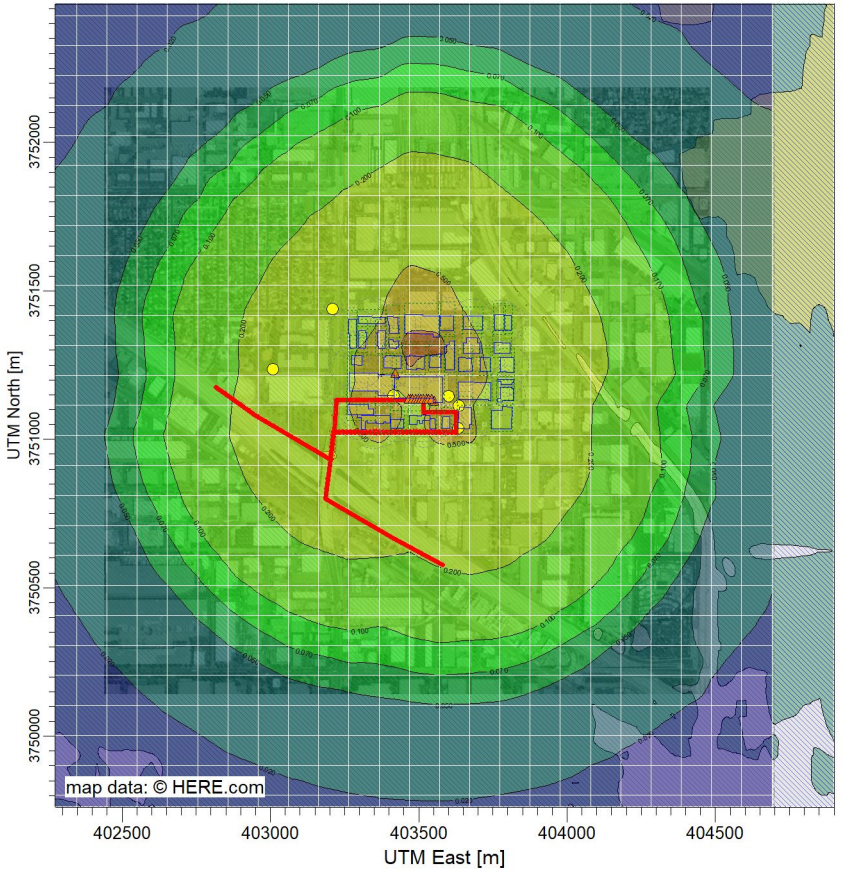
PM10 - Concentration - Source Group: ALL

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	1.51949	ug/m^3	School	403008.61	3751235.14	24.46	0.00	24.46	1/9/2013, 8
1-HR	1ST	2.06888	ug/m^3	Res	403210.21	3751439.62	25.01	0.00	25.01	5/28/2012, 6
1-HR	1ST	13.23007	ug/m^3	Worker	403635.16	3751113.73	23.03	0.00	23.03	6/22/2016, 6
1-HR	1ST	15.18745	ug/m^3	Worker	403415.16	3751147.23	24.41	0.00	24.41	10/14/2012, 7
1-HR	1ST	14.15830	ug/m^3	Worker	403600.54	3751145.56	23.24	0.00	23.24	6/22/2016, 6
1-HR	1ST	11.21732	ug/m^3	Worker	403633.48	3751038.35	22.83	0.00	22.83	6/29/2013, 6
PERIOD		0.08349	ug/m^3	School	403008.39	3751234.87	24.46	0.00	24.46	
PERIOD		0.05667	ug/m^3	Res	403210.21	3751439.36	25.01	0.00	25.01	
PERIOD		1.84916	ug/m^3	Worker	403635.16	3751113.73	23.03	0.00	23.03	
PERIOD		2.30202	ug/m^3	Worker	403415.16	3751147.23	24.41	0.00	24.41	
PERIOD		2.72514	ug/m^3	Worker	403600.54	3751145.56	23.24	0.00	23.24	
PERIOD		0.81755	ug/m^3	Worker	403633.48	3751038.35	22.83	0.00	22.83	

APPENDIX B.2 – AERMOD OPERATIONAL MODEL OUTPUT

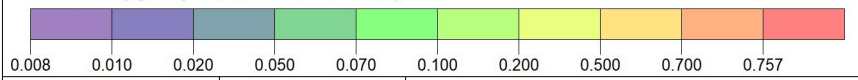
PROJECT TITLE:

Carmenita Receptors



PLOT FILE OF HIGH 1ST HIGH 1-HR VALUES FOR SOURCE GROUP: ALL ug/m^3

Max: 0.757 [ug/m^3] at (403467.87, 3751316.05)



COMMENTS:	SOURCES: 19		
	RECEPTORS: 1008	MODELER:	
	OUTPUT TYPE: Concentration	SCALE: 1:25,515 (0 — 0.5 km)	
	MAX: 0.757 ug/m^3	DATE: 5/30/2024	PROJECT NO.: Project No.: 2

Control Pathway

Dispersion Options

Titles

C:\Users\EPD\EPD Solutions\EPD Project Site - Projects\TECHNICAL SER

Dispersion Options

☑ Regulatory Default ☐ Non-Default Options

Dispersion Coefficient

Urban

Population:
Name (Optional):
Roughness Length:

Output Type

☑ Concentration
☐ Total Deposition (Dry & Wet)
☐ Dry Deposition
☐ Wet Deposition

Plume Depletion

☐ Dry Removal
☐ Wet Removal

Output Warnings

☐ No Output Warnings
☐ Non-fatal Warnings for Non-sequential Met Data

Pollutant / Averaging Time / Terrain Options

Pollutant Type

PM10

Averaging Time Options

Hours

☑ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 6 ☐ 8 ☐ 12 ☐ 24

☐ Month ☑ Period ☐ Annual

Exponential Decay

Half-life of 4 hrs will be used

Terrain Height Options

☐ Flat ☑ Elevated

SO: Meters
RE: Meters
TG: Meters

Flagpole Receptors

☐ Yes ☑ No

Default Height = 0.00 m

Control Pathway

Optional Files

Re-Start File	Init File	Multi-Year Analyses	Event Input File	Error Listing File
☐	☐	☐	☐	■

Detailed Error Listing File

Filename: 23_078_Carm_Op.err

Source Pathway - Source Inputs

Point Sources

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Gas Exit Temp. [K]	Gas Exit Velocity [m/s]	Stack Inside Diameter [m]
POINT	FIREP	403420.43 Fire Pump	3751223.26	24.24	3.00	0.00004	749.26	43.27	0.10
POINT	GEN	403552.47 Emergency Generator	3751130.64	23.41	2.26	0.00004	749.26	43.27	0.10
POINT	IDLE1	403472.03 Trucks Idle Source 1	3751137.23	23.60	3.66	0.00009	366.48	51.71	0.10
POINT	IDLE2	403479.66 Trucks Idle Source 2	3751137.23	23.57	3.66	0.00009	366.48	51.70	0.10
POINT	IDLE3	403489.17 Trucks Idling Source 3	3751137.41	23.53	3.66	0.00009	366.48	51.71	0.10
POINT	IDLE4	403498.40 Truck Idling Source 4	3751137.39	23.52	3.66	0.00009	366.48	51.70	0.10
POINT	IDLE5	403508.30 Trucks Idling Source 5	3751137.42	23.39	3.66	0.00009	366.48	51.70	0.10
POINT	IDLE6	403516.96 Truck Idling Source	3751137.15	23.31	3.66	0.00009	366.48	51.71	0.10
POINT	IDLE7	403526.09 Truck Idling Source 7	3751137.10	23.25	3.66	0.00009	366.48	51.70	0.10
POINT	IDLE8	403534.41 Trucks Idling Sources 8	3751137.26	23.28	3.66	0.00009	366.48	51.70	0.10
POINT	IDLE9	403543.35 Truck Idling Sources 9	3751137.18	23.36	3.66	0.00009	366.48	51.70	0.10
POINT	IDLE10	403465.92 Truck Idling Sources 10	3751137.38	23.63	3.66	0.00009	366.48	51.70	0.10

Source Pathway - Source Inputs

Line Area Sources

Source Type: LINE AREA

Source: ARLN10 (Route 6: Carmenita-Int 5%)

Length of Side [m]	Emission Rate [g/ (s-m^2)]	Initial Vertical Dimension [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
9.50	7.30E-11	2.46	403223.22	3751132.77	24.69	2.64
			403215.27	3751024.70	27.34	2.64

Source Type: LINE AREA

Source: ARLN11 (Route 3: Int-I-5 Junction 100%)

Length of Side [m]	Emission Rate [g/ (s-m^2)]	Initial Vertical Dimension [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
18.00	7.22E-10	2.46	403214.19	3751025.76	27.43	2.64
			403203.68	3750933.21	31.95	2.64

Source Type: LINE AREA

Source: ARLN4 (Route 4: I-5 North 50%)

Length of Side [m]	Emission Rate [g/ (s-m^2)]	Initial Vertical Dimension [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
3.50	1.47E-9	2.46	403203.17	3750930.87	32.00	2.64
			402952.82	3751078.91	25.50	2.64
			402815.31	3751175.96	25.21	2.64

Source Type: LINE AREA

Source: ARLN5 (Route 5: I-5 South 50%)

Length of Side [m]	Emission Rate [g/ (s-m^2)]	Initial Vertical Dimension [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
3.50	1.47E-9	2.46	403203.76	3750931.65	31.98	2.64
			403186.00	3750799.14	23.32	2.64
			403370.42	3750692.59	24.40	2.64
			403413.13	3750666.94	23.47	2.64
			403581.24	3750577.46	22.56	2.64

Source Pathway - Source Inputs

Source Type: LINE AREA

Source: ARLN7 (Onsite: Route 7: Site-Excelsior 95%)

Length of Side [m]	Emission Rate [g/ (s-m^2)]	Initial Vertical Dimension [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
9.50	4.27E-9	2.46	403516.40	3751131.03	23.27	2.64
			403516.81	3751092.15	23.15	2.64
			403625.58	3751091.74	22.97	2.64
			403627.23	3751022.67	22.65	2.64

Source Type: LINE AREA

Source: ARLN8 (Route 2: Excelsior-Int 95%)

Length of Side [m]	Emission Rate [g/ (s-m^2)]	Initial Vertical Dimension [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
18.00	6.95E-10	2.46	403625.73	3751024.91	22.66	2.64
			403215.13	3751024.91	27.35	2.64

Source Type: LINE AREA

Source: ARLN9 (Onsite: Route 1: Site-Carmenita 5%)

Length of Side [m]	Emission Rate [g/ (s-m^2)]	Initial Vertical Dimension [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
9.50	1.08E-10	2.46	403515.63	3751132.41	23.27	2.64
			403222.50	3751132.41	24.68	2.64

Source Pathway - Source Inputs

Area Sources Generated from Line Sources

Line Source ID	Area Source ID	X Coordinate [m]	Y Coordinate [m]	Release Height [m]	Length of Side [m]	Angle [deg]	Base Elevation [m]	Initial Sigma Z [m]
ARLN5	A0000066	403202.03	3750931.88	2.64	33.42	97.63	32.07	2.46
	A0000067	403197.59	3750898.75	2.64	33.42	97.63	24.73	2.46
	A0000068	403193.15	3750865.63	2.64	33.42	97.63	24.85	2.46
	A0000069	403188.71	3750832.50	2.64	33.42	97.63	24.68	2.46
	A0000070	403185.13	3750797.63	2.64	30.43	30.02	23.37	2.46
	A0000071	403211.47	3750782.40	2.64	30.43	30.02	24.76	2.46
	A0000072	403237.82	3750767.18	2.64	30.43	30.02	24.66	2.46
	A0000073	403264.16	3750751.96	2.64	30.43	30.02	24.67	2.46
	A0000074	403290.51	3750736.74	2.64	30.43	30.02	24.65	2.46
	A0000075	403316.85	3750721.52	2.64	30.43	30.02	24.26	2.46
	A0000076	403343.20	3750706.30	2.64	30.43	30.02	24.15	2.46
	A0000077	403369.52	3750691.09	2.64	24.91	30.98	24.36	2.46
	A0000078	403390.87	3750678.27	2.64	24.91	30.98	23.73	2.46
	A0000079	403412.31	3750665.40	2.64	31.74	28.03	23.57	2.46
	A0000080	403440.33	3750650.49	2.64	31.74	28.03	23.38	2.46
	A0000081	403468.35	3750635.57	2.64	31.74	28.03	23.54	2.46
	A0000082	403496.36	3750620.66	2.64	31.74	28.03	22.94	2.46
	A0000083	403524.38	3750605.74	2.64	31.74	28.03	22.79	2.46
	A0000084	403552.40	3750590.83	2.64	31.74	28.03	22.80	2.46

Line Source ID	Area Source ID	X Coordinate [m]	Y Coordinate [m]	Release Height [m]	Length of Side [m]	Angle [deg]	Base Elevation [m]	Initial Sigma Z [m]
ARLN9	A0000097	403515.63	3751137.16	2.64	73.28	180.00	23.32	2.46
	A0000098	403442.34	3751137.16	2.64	73.28	180.00	23.63	2.46
	A0000099	403369.06	3751137.16	2.64	73.28	180.00	24.22	2.46

Source Pathway - Source Inputs

Line Source ID	Area Source ID	X Coordinate [m]	Y Coordinate [m]	Release Height [m]	Length of Side [m]	Angle [deg]	Base Elevation [m]	Initial Sigma Z [m]
ARLN9	A0000100	403295.78	3751137.16	2.64	73.28	180.00	24.38	2.46

Line Source ID	Area Source ID	X Coordinate [m]	Y Coordinate [m]	Release Height [m]	Length of Side [m]	Angle [deg]	Base Elevation [m]	Initial Sigma Z [m]
ARLN10	A0000101	403218.48	3751133.12	2.64	54.18	94.21	24.54	2.46
	A0000102	403214.51	3751079.09	2.64	54.18	94.21	25.83	2.46

Line Source ID	Area Source ID	X Coordinate [m]	Y Coordinate [m]	Release Height [m]	Length of Side [m]	Angle [deg]	Base Elevation [m]	Initial Sigma Z [m]
ARLN7	A0000103	403511.65	3751130.98	2.64	38.88	89.39	23.33	2.46
	A0000104	403516.79	3751087.40	2.64	54.38	0.22	23.19	2.46
	A0000105	403571.18	3751087.20	2.64	54.38	0.22	23.09	2.46
	A0000106	403620.83	3751091.63	2.64	69.09	88.63	22.97	2.46

Line Source ID	Area Source ID	X Coordinate [m]	Y Coordinate [m]	Release Height [m]	Length of Side [m]	Angle [deg]	Base Elevation [m]	Initial Sigma Z [m]
ARLN4	A0000110	403204.06	3750932.37	2.64	32.32	210.60	32.01	2.46
	A0000111	403176.25	3750948.82	2.64	32.32	210.60	31.95	2.46
	A0000112	403148.43	3750965.27	2.64	32.32	210.60	24.57	2.46
	A0000113	403120.61	3750981.72	2.64	32.32	210.60	24.70	2.46
	A0000114	403092.80	3750998.17	2.64	32.32	210.60	25.59	2.46
	A0000115	403064.98	3751014.62	2.64	32.32	210.60	26.72	2.46

Line Source ID	Area Source ID	X Coordinate [m]	Y Coordinate [m]	Release Height [m]	Length of Side [m]	Angle [deg]	Base Elevation [m]	Initial Sigma Z [m]
ARLN8	A0000117	403625.73	3751033.91	2.64	136.86	180.00	22.74	2.46
	A0000118	403488.86	3751033.91	2.64	136.86	180.00	23.12	2.46
	A0000119	403352.00	3751033.91	2.64	136.86	180.00	23.58	2.46

Source Pathway - Source Inputs

AERMOD

Line Source ID	Area Source ID	X Coordinate [m]	Y Coordinate [m]	Release Height [m]	Length of Side [m]	Angle [deg]	Base Elevation [m]	Initial Sigma Z [m]
ARLN11	A0000120	403205.25	3751026.77	2.64	93.14	96.48	28.11	2.46

Line Source ID	Area Source ID	X Coordinate [m]	Y Coordinate [m]	Release Height [m]	Length of Side [m]	Angle [deg]	Base Elevation [m]	Initial Sigma Z [m]
ARLN4	A0000121	403037.16	3751031.07	2.64	32.32	210.60	26.00	2.46
	A0000122	403009.35	3751047.52	2.64	32.32	210.60	25.41	2.46
	A0000123	402981.53	3751063.96	2.64	32.32	210.60	25.23	2.46
	A0000124	402953.83	3751080.34	2.64	33.66	215.21	25.23	2.46
	A0000125	402926.33	3751099.75	2.64	33.66	215.21	25.25	2.46
	A0000126	402898.83	3751119.16	2.64	33.66	215.21	25.31	2.46
	A0000127	402871.32	3751138.57	2.64	33.66	215.21	25.25	2.46
	A0000128	402843.82	3751157.98	2.64	33.66	215.21	25.16	2.46

Building Downwash Information

Source ID: FIREP

Heights [m] (10 to 360 deg)

10-60 deg	13.72	13.72	12.19	12.19	12.19	12.19
70-120 deg	12.19	12.19	12.19	13.72	13.72	13.72
130-180 deg	13.72	13.72	13.72	13.72	13.72	13.72
190-240 deg	13.72	13.72	12.19	12.19	12.19	12.19
250-300 deg	12.19	12.19	12.19	13.72	13.72	13.72
310-360 deg	13.72	13.72	13.72	13.72	13.72	13.72

Widths [m] (10 to 360 deg)

10-60 deg	173.54	179.54	168.97	164.64	155.31	141.26
70-120 deg	122.92	100.84	76.26	99.13	123.34	143.79
130-180 deg	159.87	171.10	177.13	177.78	173.02	163.26
190-240 deg	173.54	179.54	168.97	164.64	155.31	141.26
250-300 deg	122.92	100.84	76.26	99.13	123.34	143.79
310-360 deg	159.87	171.10	177.13	177.78	173.02	163.26

Lengths [m] (10 to 360 deg)

10-60 deg	99.13	123.34	123.44	139.99	152.30	159.97
70-120 deg	162.79	160.65	153.64	173.54	179.54	180.09
130-180 deg	175.17	164.92	150.03	132.70	111.34	86.60
190-240 deg	99.13	123.34	123.44	139.99	152.30	159.97
250-300 deg	162.79	160.65	153.64	173.54	179.54	180.09
310-360 deg	175.17	164.92	150.03	132.70	111.34	86.60

Along Flow [m] (10 to 360 deg)

10-60 deg	-84.00	-80.65	-130.68	-146.70	-158.27	-165.02
70-120 deg	-166.76	-163.43	-155.14	1.72	5.22	8.57
130-180 deg	11.66	14.39	16.32	15.63	14.47	12.87
190-240 deg	-15.14	-42.69	7.25	6.71	5.97	5.05
250-300 deg	3.97	2.78	1.50	-175.26	-184.77	-188.66
310-360 deg	-186.83	-179.31	-166.35	-148.34	-125.82	-99.47

Across Flow [m] (10 to 360 deg)

10-60 deg	-88.49	-95.00	48.80	35.53	21.19	6.20
70-120 deg	-8.98	-23.88	-38.34	-34.43	-18.98	-2.96
130-180 deg	13.16	28.87	43.71	57.22	68.99	78.79
190-240 deg	88.49	95.00	-48.80	-35.53	-21.19	-6.20
250-300 deg	8.98	23.88	38.34	34.43	18.98	2.96
310-360 deg	-13.16	-28.87	-43.71	-57.22	-68.99	-78.79

Source ID: GEN

Heights [m] (10 to 360 deg)

10-60 deg	13.72	13.72	13.72	13.72	13.72	13.72

70-120 deg	13.72	13.72	13.72	13.72	13.72	13.72
130-180 deg	13.72	13.72	13.72	13.72	13.72	13.72
190-240 deg	13.72	13.72	13.72	13.72	13.72	13.72
250-300 deg	13.72	13.72	13.72	13.72	13.72	13.72
310-360 deg	13.72	13.72	13.72	13.72	13.72	13.72
Widths [m] (10 to 360 deg)						
10-60 deg	173.54	179.54	180.09	175.17	164.92	150.03
70-120 deg	132.70	111.34	86.60	99.13	123.34	143.79
130-180 deg	159.87	171.10	177.13	177.78	173.02	163.26
190-240 deg	173.54	179.54	180.09	175.17	164.92	150.03
250-300 deg	132.70	111.34	86.60	99.13	123.34	143.79
310-360 deg	159.87	171.10	177.13	177.78	173.02	163.26
Lengths [m] (10 to 360 deg)						
10-60 deg	99.13	123.34	143.79	159.87	171.10	177.13
70-120 deg	177.78	173.02	163.26	173.54	179.54	180.09
130-180 deg	175.17	164.92	150.03	132.70	111.34	86.60
190-240 deg	99.13	123.34	143.79	159.87	171.10	177.13
250-300 deg	177.78	173.02	163.26	173.54	179.54	180.09
310-360 deg	175.17	164.92	150.03	132.70	111.34	86.60
Along Flow [m] (10 to 360 deg)						
10-60 deg	-15.71	-38.77	-60.66	-80.70	-98.29	-112.89
70-120 deg	-124.07	-131.47	-134.88	-144.40	-150.53	-152.09
130-180 deg	-149.03	-141.43	-129.91	-116.56	-99.67	-79.75
190-240 deg	-83.42	-84.56	-83.13	-79.17	-72.81	-64.24
250-300 deg	-53.71	-41.55	-28.38	-29.14	-29.01	-28.00
310-360 deg	-26.14	-23.49	-20.12	-16.14	-11.67	-6.85
Across Flow [m] (10 to 360 deg)						
10-60 deg	57.63	60.76	62.04	61.44	58.97	54.89
70-120 deg	50.21	44.00	36.45	33.86	22.89	11.24
130-180 deg	-0.76	-12.74	-24.33	-35.18	-44.96	-53.25
190-240 deg	-57.63	-60.76	-62.04	-61.44	-58.97	-54.89
250-300 deg	-50.21	-44.00	-36.45	-33.86	-22.89	-11.24
310-360 deg	0.76	12.74	24.33	35.18	44.96	53.25

Source ID: **IDLE1**

Heights [m] (10 to 360 deg)						
10-60 deg	13.72	13.72	13.72	13.72	13.72	13.72
70-120 deg	13.72	13.72	13.72	13.72	13.72	13.72
130-180 deg	13.72	13.72	13.72	13.72	13.72	13.72
190-240 deg	13.72	13.72	13.72	13.72	13.72	13.72
250-300 deg	13.72	13.72	13.72	13.72	13.72	13.72
310-360 deg	13.72	13.72	13.72	13.72	13.72	13.72

Source Pathway

Widths [m] (10 to 360 deg)

10-60 deg	173.54	179.54	180.09	175.17	164.92	150.03
70-120 deg	132.70	111.34	86.60	99.13	123.34	143.79
130-180 deg	159.87	171.10	177.13	177.78	173.02	163.26
190-240 deg	173.54	179.54	180.09	175.17	164.92	150.03
250-300 deg	132.70	111.34	86.60	99.13	123.34	143.79
310-360 deg	159.87	171.10	177.13	177.78	173.02	163.26

Lengths [m] (10 to 360 deg)

10-60 deg	99.13	123.34	143.79	159.87	171.10	177.13
70-120 deg	177.78	173.02	163.26	173.54	179.54	180.09
130-180 deg	175.17	164.92	150.03	132.70	111.34	86.60
190-240 deg	99.13	123.34	143.79	159.87	171.10	177.13
250-300 deg	177.78	173.02	163.26	173.54	179.54	180.09
310-360 deg	175.17	164.92	150.03	132.70	111.34	86.60

Along Flow [m] (10 to 360 deg)

10-60 deg	-8.23	-17.45	-26.15	-34.04	-40.91	-46.53
70-120 deg	-50.73	-53.40	-54.44	-64.04	-72.69	-79.13
130-180 deg	-83.17	-84.68	-83.98	-82.86	-79.21	-73.16
190-240 deg	-90.90	-105.88	-117.64	-125.83	-130.20	-130.60
250-300 deg	-127.04	-119.62	-108.82	-109.50	-106.85	-100.96
310-360 deg	-92.00	-80.24	-66.05	-49.85	-32.13	-13.44

Across Flow [m] (10 to 360 deg)

10-60 deg	-22.73	-17.08	-10.92	-4.42	2.22	8.97
70-120 deg	16.50	23.54	29.86	41.33	44.21	45.75
130-180 deg	45.89	44.64	42.04	38.16	33.11	27.19
190-240 deg	22.73	17.08	10.92	4.42	-2.22	-8.97
250-300 deg	-16.50	-23.54	-29.86	-41.33	-44.21	-45.75
310-360 deg	-45.89	-44.64	-42.04	-38.16	-33.11	-27.19

Source ID: **IDLE2**

Heights [m] (10 to 360 deg)

10-60 deg	13.72	13.72	13.72	13.72	13.72	13.72
70-120 deg	13.72	13.72	13.72	13.72	13.72	13.72
130-180 deg	13.72	13.72	13.72	13.72	13.72	13.72
190-240 deg	13.72	13.72	13.72	13.72	13.72	13.72
250-300 deg	13.72	13.72	13.72	13.72	13.72	13.72
310-360 deg	13.72	13.72	13.72	13.72	13.72	13.72

Widths [m] (10 to 360 deg)

10-60 deg	173.54	179.54	180.09	175.17	164.92	150.03
70-120 deg	132.70	111.34	86.60	99.13	123.34	143.79
130-180 deg	159.87	171.10	177.13	177.78	173.02	163.26
190-240 deg	173.54	179.54	180.09	175.17	164.92	150.03

250-300 deg	132.70	111.34	86.60	99.13	123.34	143.79
310-360 deg	159.87	171.10	177.13	177.78	173.02	163.26
Lengths [m] (10 to 360 deg)						
10-60 deg	99.13	123.34	143.79	159.87	171.10	177.13
70-120 deg	177.78	173.02	163.26	173.54	179.54	180.09
130-180 deg	175.17	164.92	150.03	132.70	111.34	86.60
190-240 deg	99.13	123.34	143.79	159.87	171.10	177.13
250-300 deg	177.78	173.02	163.26	173.54	179.54	180.09
310-360 deg	175.17	164.92	150.03	132.70	111.34	86.60
Along Flow [m] (10 to 360 deg)						
10-60 deg	-9.56	-20.06	-29.96	-38.95	-46.75	-53.13
70-120 deg	-57.90	-60.91	-62.07	-71.55	-79.86	-85.74
130-180 deg	-89.01	-89.58	-87.80	-85.47	-80.54	-73.16
190-240 deg	-89.58	-103.27	-113.83	-120.93	-124.35	-124.00
250-300 deg	-119.87	-112.11	-101.19	-101.99	-99.68	-94.35
310-360 deg	-86.16	-75.34	-62.23	-47.24	-30.81	-13.44
Across Flow [m] (10 to 360 deg)						
10-60 deg	-15.22	-9.91	-4.31	1.43	7.12	12.78
70-120 deg	19.11	24.86	29.86	40.01	41.60	41.93
130-180 deg	40.99	38.80	35.43	30.99	25.60	19.56
190-240 deg	15.22	9.91	4.31	-1.43	-7.12	-12.78
250-300 deg	-19.11	-24.86	-29.86	-40.01	-41.60	-41.93
310-360 deg	-40.99	-38.80	-35.43	-30.99	-25.60	-19.56

Source ID: IDLE3

Heights [m] (10 to 360 deg)						
10-60 deg	13.72	13.72	13.72	13.72	13.72	13.72
70-120 deg	13.72	13.72	13.72	13.72	13.72	13.72
130-180 deg	13.72	13.72	13.72	13.72	13.72	13.72
190-240 deg	13.72	13.72	13.72	13.72	13.72	13.72
250-300 deg	13.72	13.72	13.72	13.72	13.72	13.72
310-360 deg	13.72	13.72	13.72	13.72	13.72	13.72
Widths [m] (10 to 360 deg)						
10-60 deg	173.54	179.54	180.09	175.17	164.92	150.03
70-120 deg	132.70	111.34	86.60	99.13	123.34	143.79
130-180 deg	159.87	171.10	177.13	177.78	173.02	163.26
190-240 deg	173.54	179.54	180.09	175.17	164.92	150.03
250-300 deg	132.70	111.34	86.60	99.13	123.34	143.79
310-360 deg	159.87	171.10	177.13	177.78	173.02	163.26
Lengths [m] (10 to 360 deg)						
10-60 deg	99.13	123.34	143.79	159.87	171.10	177.13
70-120 deg	177.78	173.02	163.26	173.54	179.54	180.09

130-180 deg	175.17	164.92	150.03	132.70	111.34	86.60
190-240 deg	99.13	123.34	143.79	159.87	171.10	177.13
250-300 deg	177.78	173.02	163.26	173.54	179.54	180.09
310-360 deg	175.17	164.92	150.03	132.70	111.34	86.60
Along Flow [m] (10 to 360 deg)						
10-60 deg	-11.39	-23.49	-34.87	-45.20	-54.15	-61.46
70-120 deg	-66.90	-70.31	-71.58	-80.89	-88.73	-93.88
130-180 deg	-96.18	-95.56	-92.40	-88.55	-82.01	-72.98
190-240 deg	-87.75	-99.85	-108.92	-114.68	-116.95	-115.67
250-300 deg	-110.88	-102.71	-91.68	-92.65	-90.81	-86.21
310-360 deg	-78.99	-69.36	-57.64	-44.15	-29.33	-13.62
Across Flow [m] (10 to 360 deg)						
10-60 deg	-5.88	-1.04	3.84	8.60	13.10	17.38
70-120 deg	22.20	26.34	29.68	38.18	38.18	37.02
130-180 deg	34.74	31.40	27.11	21.99	16.20	10.05
190-240 deg	5.88	1.04	-3.84	-8.60	-13.10	-17.38
250-300 deg	-22.20	-26.34	-29.68	-38.18	-38.18	-37.02
310-360 deg	-34.74	-31.40	-27.11	-21.99	-16.20	-10.05

Source ID: **IDLE4**

Heights [m] (10 to 360 deg)						
10-60 deg	13.72	13.72	13.72	13.72	13.72	13.72
70-120 deg	13.72	13.72	13.72	13.72	13.72	13.72
130-180 deg	13.72	13.72	13.72	13.72	13.72	13.72
190-240 deg	13.72	13.72	13.72	13.72	13.72	13.72
250-300 deg	13.72	13.72	13.72	13.72	13.72	13.72
310-360 deg	13.72	13.72	13.72	13.72	13.72	13.72
Widths [m] (10 to 360 deg)						
10-60 deg	173.54	179.54	180.09	175.17	164.92	150.03
70-120 deg	132.70	111.34	86.60	99.13	123.34	143.79
130-180 deg	159.87	171.10	177.13	177.78	173.02	163.26
190-240 deg	173.54	179.54	180.09	175.17	164.92	150.03
250-300 deg	132.70	111.34	86.60	99.13	123.34	143.79
310-360 deg	159.87	171.10	177.13	177.78	173.02	163.26
Lengths [m] (10 to 360 deg)						
10-60 deg	99.13	123.34	143.79	159.87	171.10	177.13
70-120 deg	177.78	173.02	163.26	173.54	179.54	180.09
130-180 deg	175.17	164.92	150.03	132.70	111.34	86.60
190-240 deg	99.13	123.34	143.79	159.87	171.10	177.13
250-300 deg	177.78	173.02	163.26	173.54	179.54	180.09
310-360 deg	175.17	164.92	150.03	132.70	111.34	86.60

Source Pathway

Along Flow [m] (10 to 360 deg)						
10-60 deg	-12.97	-26.62	-39.47	-51.12	-61.21	-69.44
70-120 deg	-75.57	-79.39	-80.81	-89.98	-97.41	-101.89
130-180 deg	-103.27	-101.51	-97.03	-91.72	-83.63	-73.00
190-240 deg	-86.16	-96.71	-104.32	-108.76	-109.89	-107.69
250-300 deg	-102.21	-93.63	-82.45	-83.56	-82.13	-78.20
310-360 deg	-71.90	-63.42	-53.00	-40.98	-27.71	-13.60
Across Flow [m] (10 to 360 deg)						
10-60 deg	3.21	7.64	11.84	15.68	19.05	22.01
70-120 deg	25.37	27.96	29.70	36.60	35.04	32.43
130-180 deg	28.82	24.34	19.12	13.32	7.12	0.82
190-240 deg	-3.21	-7.64	-11.84	-15.68	-19.05	-22.01
250-300 deg	-25.37	-27.96	-29.70	-36.60	-35.04	-32.43
310-360 deg	-28.82	-24.34	-19.12	-13.32	-7.12	-0.82

Source ID: IDLE5

Heights [m] (10 to 360 deg)						
10-60 deg	13.72	13.72	13.72	13.72	13.72	13.72
70-120 deg	13.72	13.72	13.72	13.72	13.72	13.72
130-180 deg	13.72	13.72	13.72	13.72	13.72	13.72
190-240 deg	13.72	13.72	13.72	13.72	13.72	13.72
250-300 deg	13.72	13.72	13.72	13.72	13.72	13.72
310-360 deg	13.72	13.72	13.72	13.72	13.72	13.72
Widths [m] (10 to 360 deg)						
10-60 deg	173.54	179.54	180.09	175.17	164.92	150.03
70-120 deg	132.70	111.34	86.60	99.13	123.34	143.79
130-180 deg	159.87	171.10	177.13	177.78	173.02	163.26
190-240 deg	173.54	179.54	180.09	175.17	164.92	150.03
250-300 deg	132.70	111.34	86.60	99.13	123.34	143.79
310-360 deg	159.87	171.10	177.13	177.78	173.02	163.26
Lengths [m] (10 to 360 deg)						
10-60 deg	99.13	123.34	143.79	159.87	171.10	177.13
70-120 deg	177.78	173.02	163.26	173.54	179.54	180.09
130-180 deg	175.17	164.92	150.03	132.70	111.34	86.60
190-240 deg	99.13	123.34	143.79	159.87	171.10	177.13
250-300 deg	177.78	173.02	163.26	173.54	179.54	180.09
310-360 deg	175.17	164.92	150.03	132.70	111.34	86.60
Along Flow [m] (10 to 360 deg)						
10-60 deg	-14.72	-30.04	-44.45	-57.50	-68.81	-78.03
70-120 deg	-84.88	-89.15	-90.71	-99.72	-106.71	-110.45
130-180 deg	-110.83	-107.85	-101.95	-95.08	-85.32	-72.97
190-240 deg	-84.42	-93.30	-99.34	-102.37	-102.29	-99.10

250-300 deg	-92.90	-83.87	-72.55	-73.81	-72.84	-69.65
310-360 deg	-64.34	-57.08	-48.08	-37.62	-26.02	-13.63
Across Flow [m] (10 to 360 deg)						
10-60 deg	12.95	16.93	20.40	23.25	25.39	26.94
70-120 deg	28.73	29.65	29.67	34.85	31.63	27.45
130-180 deg	22.43	16.74	10.53	4.01	-2.64	-9.08
190-240 deg	-12.95	-16.93	-20.40	-23.25	-25.39	-26.94
250-300 deg	-28.73	-29.65	-29.67	-34.85	-31.63	-27.45
310-360 deg	-22.43	-16.74	-10.53	-4.01	2.64	9.08

Source ID: **IDLE6**

Heights [m] (10 to 360 deg)						
10-60 deg	13.72	13.72	13.72	13.72	13.72	13.72
70-120 deg	13.72	13.72	13.72	13.72	13.72	13.72
130-180 deg	13.72	13.72	13.72	13.72	13.72	13.72
190-240 deg	13.72	13.72	13.72	13.72	13.72	13.72
250-300 deg	13.72	13.72	13.72	13.72	13.72	13.72
310-360 deg	13.72	13.72	13.72	13.72	13.72	13.72
Widths [m] (10 to 360 deg)						
10-60 deg	173.54	179.54	180.09	175.17	164.92	150.03
70-120 deg	132.70	111.34	86.60	99.13	123.34	143.79
130-180 deg	159.87	171.10	177.13	177.78	173.02	163.26
190-240 deg	173.54	179.54	180.09	175.17	164.92	150.03
250-300 deg	132.70	111.34	86.60	99.13	123.34	143.79
310-360 deg	159.87	171.10	177.13	177.78	173.02	163.26
Lengths [m] (10 to 360 deg)						
10-60 deg	99.13	123.34	143.79	159.87	171.10	177.13
70-120 deg	177.78	173.02	163.26	173.54	179.54	180.09
130-180 deg	175.17	164.92	150.03	132.70	111.34	86.60
190-240 deg	99.13	123.34	143.79	159.87	171.10	177.13
250-300 deg	177.78	173.02	163.26	173.54	179.54	180.09
310-360 deg	175.17	164.92	150.03	132.70	111.34	86.60
Along Flow [m] (10 to 360 deg)						
10-60 deg	-15.96	-32.75	-48.54	-62.86	-75.27	-85.40
70-120 deg	-92.93	-97.63	-99.37	-108.30	-114.94	-118.08
130-180 deg	-117.64	-113.62	-106.52	-98.30	-87.09	-73.24
190-240 deg	-83.18	-90.59	-95.25	-97.01	-95.83	-91.73
250-300 deg	-84.85	-75.39	-63.89	-65.24	-64.61	-62.01
310-360 deg	-57.53	-51.30	-43.52	-34.41	-24.25	-13.36
Across Flow [m] (10 to 360 deg)						
10-60 deg	21.53	25.16	28.04	30.05	31.16	31.50
70-120 deg	31.95	31.42	29.94	33.61	28.92	23.35

130-180 deg	17.07	10.28	3.17	-4.04	-11.12	-17.74
190-240 deg	-21.53	-25.16	-28.04	-30.05	-31.16	-31.50
250-300 deg	-31.95	-31.42	-29.94	-33.61	-28.92	-23.35
310-360 deg	-17.07	-10.28	-3.17	4.04	11.12	17.74

Source ID: **IDLE7**

Heights [m] (10 to 360 deg)

10-60 deg	13.72	13.72	13.72	13.72	13.72	13.72
70-120 deg	13.72	13.72	13.72	13.72	13.72	13.72
130-180 deg	13.72	13.72	13.72	13.72	13.72	13.72
190-240 deg	13.72	13.72	13.72	13.72	13.72	13.72
250-300 deg	13.72	13.72	13.72	13.72	13.72	13.72
310-360 deg	13.72	13.72	13.72	13.72	13.72	13.72

Widths [m] (10 to 360 deg)

10-60 deg	173.54	179.54	180.09	175.17	164.92	150.03
70-120 deg	132.70	111.34	86.60	99.13	123.34	143.79
130-180 deg	159.87	171.10	177.13	177.78	173.02	163.26
190-240 deg	173.54	179.54	180.09	175.17	164.92	150.03
250-300 deg	132.70	111.34	86.60	99.13	123.34	143.79
310-360 deg	159.87	171.10	177.13	177.78	173.02	163.26

Lengths [m] (10 to 360 deg)

10-60 deg	99.13	123.34	143.79	159.87	171.10	177.13
70-120 deg	177.78	173.02	163.26	173.54	179.54	180.09
130-180 deg	175.17	164.92	150.03	132.70	111.34	86.60
190-240 deg	99.13	123.34	143.79	159.87	171.10	177.13
250-300 deg	177.78	173.02	163.26	173.54	179.54	180.09
310-360 deg	175.17	164.92	150.03	132.70	111.34	86.60

Along Flow [m] (10 to 360 deg)

10-60 deg	-17.49	-35.82	-53.06	-68.69	-82.24	-93.28
70-120 deg	-101.49	-106.61	-108.50	-117.30	-123.53	-126.01
130-180 deg	-124.66	-119.53	-111.13	-101.47	-88.73	-73.29
190-240 deg	-81.64	-87.51	-90.73	-91.18	-88.87	-83.85
250-300 deg	-76.29	-66.41	-54.76	-56.24	-56.01	-54.08
310-360 deg	-50.50	-45.40	-38.91	-31.24	-22.62	-13.31

Across Flow [m] (10 to 360 deg)

10-60 deg	30.53	33.76	35.97	37.08	37.07	36.11
70-120 deg	35.12	33.06	29.99	32.08	25.85	18.83
130-180 deg	11.24	3.32	-4.71	-12.60	-20.10	-26.87
190-240 deg	-30.53	-33.76	-35.97	-37.08	-37.07	-36.11
250-300 deg	-35.12	-33.06	-29.99	-32.08	-25.85	-18.83
310-360 deg	-11.24	-3.32	4.71	12.60	20.10	26.87

Source ID: **IDLE8**

Heights [m] (10 to 360 deg)

10-60 deg	13.72	13.72	13.72	13.72	13.72	13.72
70-120 deg	13.72	13.72	13.72	13.72	13.72	13.72
130-180 deg	13.72	13.72	13.72	13.72	13.72	13.72
190-240 deg	13.72	13.72	13.72	13.72	13.72	13.72
250-300 deg	13.72	13.72	13.72	13.72	13.72	13.72
310-360 deg	13.72	13.72	13.72	13.72	13.72	13.72

Widths [m] (10 to 360 deg)

10-60 deg	173.54	179.54	180.09	175.17	164.92	150.03
70-120 deg	132.70	111.34	86.60	99.13	123.34	143.79
130-180 deg	159.87	171.10	177.13	177.78	173.02	163.26
190-240 deg	173.54	179.54	180.09	175.17	164.92	150.03
250-300 deg	132.70	111.34	86.60	99.13	123.34	143.79
310-360 deg	159.87	171.10	177.13	177.78	173.02	163.26

Lengths [m] (10 to 360 deg)

10-60 deg	99.13	123.34	143.79	159.87	171.10	177.13
70-120 deg	177.78	173.02	163.26	173.54	179.54	180.09
130-180 deg	175.17	164.92	150.03	132.70	111.34	86.60
190-240 deg	99.13	123.34	143.79	159.87	171.10	177.13
250-300 deg	177.78	173.02	163.26	173.54	179.54	180.09
310-360 deg	175.17	164.92	150.03	132.70	111.34	86.60

Along Flow [m] (10 to 360 deg)

10-60 deg	-19.09	-38.82	-57.36	-74.16	-88.71	-100.56
70-120 deg	-109.36	-114.84	-116.82	-125.46	-131.30	-133.14
130-180 deg	-130.94	-124.75	-115.15	-104.16	-90.01	-73.13
190-240 deg	-80.04	-84.52	-86.43	-85.71	-82.39	-76.57
250-300 deg	-68.42	-58.19	-46.44	-48.07	-48.25	-46.95
310-360 deg	-44.23	-40.17	-34.89	-28.54	-21.33	-13.47

Across Flow [m] (10 to 360 deg)

10-60 deg	38.70	41.52	43.09	43.35	42.29	40.13
70-120 deg	37.81	34.34	29.83	30.47	22.85	14.53
130-180 deg	5.77	-3.16	-12.00	-20.47	-28.32	-35.19
190-240 deg	-38.70	-41.52	-43.09	-43.35	-42.29	-40.13
250-300 deg	-37.81	-34.34	-29.83	-30.47	-22.85	-14.53
310-360 deg	-5.77	3.16	12.00	20.47	28.32	35.19

Source ID: **IDLE9**

Heights [m] (10 to 360 deg)

10-60 deg	13.72	13.72	13.72	13.72	13.72	13.72
70-120 deg	13.72	13.72	13.72	13.72	13.72	13.72
130-180 deg	13.72	13.72	13.72	13.72	13.72	13.72

190-240 deg	13.72	13.72	13.72	13.72	13.72	13.72
250-300 deg	13.72	13.72	13.72	13.72	13.72	13.72
310-360 deg	13.72	13.72	13.72	13.72	13.72	13.72
Widths [m] (10 to 360 deg)						
10-60 deg	173.54	179.54	180.09	175.17	164.92	150.03
70-120 deg	132.70	111.34	86.60	99.13	123.34	143.79
130-180 deg	159.87	171.10	177.13	177.78	173.02	163.26
190-240 deg	173.54	179.54	180.09	175.17	164.92	150.03
250-300 deg	132.70	111.34	86.60	99.13	123.34	143.79
310-360 deg	159.87	171.10	177.13	177.78	173.02	163.26
Lengths [m] (10 to 360 deg)						
10-60 deg	99.13	123.34	143.79	159.87	171.10	177.13
70-120 deg	177.78	173.02	163.26	173.54	179.54	180.09
130-180 deg	175.17	164.92	150.03	132.70	111.34	86.60
190-240 deg	99.13	123.34	143.79	159.87	171.10	177.13
250-300 deg	177.78	173.02	163.26	173.54	179.54	180.09
310-360 deg	175.17	164.92	150.03	132.70	111.34	86.60
Along Flow [m] (10 to 360 deg)						
10-60 deg	-20.57	-41.80	-61.76	-79.85	-95.51	-108.27
70-120 deg	-117.73	-123.63	-125.76	-134.28	-139.72	-140.92
130-180 deg	-137.83	-130.56	-119.69	-107.30	-91.65	-73.21
190-240 deg	-78.57	-81.54	-82.03	-80.03	-75.59	-68.86
250-300 deg	-60.04	-49.40	-37.50	-39.26	-39.82	-39.17
310-360 deg	-37.33	-34.36	-30.35	-25.41	-19.70	-13.39
Across Flow [m] (10 to 360 deg)						
10-60 deg	47.51	49.95	50.87	50.25	48.10	44.67
70-120 deg	40.94	35.97	29.91	29.00	19.87	10.13
130-180 deg	0.09	-9.96	-19.70	-28.85	-37.11	-44.13
190-240 deg	-47.51	-49.95	-50.87	-50.25	-48.10	-44.67
250-300 deg	-40.94	-35.97	-29.91	-29.00	-19.87	-10.13
310-360 deg	-0.09	9.96	19.70	28.85	37.11	44.13

Source ID: **IDLE10**

Heights [m] (10 to 360 deg)						
10-60 deg	13.72	13.72	13.72	13.72	13.72	13.72
70-120 deg	13.72	13.72	13.72	13.72	13.72	13.72
130-180 deg	13.72	13.72	13.72	13.72	13.72	13.72
190-240 deg	13.72	13.72	13.72	13.72	13.72	13.72
250-300 deg	13.72	13.72	13.72	13.72	13.72	13.72
310-360 deg	13.72	13.72	13.72	13.72	13.72	13.72
Widths [m] (10 to 360 deg)						
10-60 deg	173.54	179.54	180.09	175.17	164.92	150.03

70-120 deg	132.70	111.34	86.60	99.13	123.34	143.79
130-180 deg	159.87	171.10	177.13	177.78	173.02	163.26
190-240 deg	173.54	179.54	180.09	175.17	164.92	150.03
250-300 deg	132.70	111.34	86.60	99.13	123.34	143.79
310-360 deg	159.87	171.10	177.13	177.78	173.02	163.26
Lengths [m] (10 to 360 deg)						
10-60 deg	99.13	123.34	143.79	159.87	171.10	177.13
70-120 deg	177.78	173.02	163.26	173.54	179.54	180.09
130-180 deg	175.17	164.92	150.03	132.70	111.34	86.60
190-240 deg	99.13	123.34	143.79	159.87	171.10	177.13
250-300 deg	177.78	173.02	163.26	173.54	179.54	180.09
310-360 deg	175.17	164.92	150.03	132.70	111.34	86.60
Along Flow [m] (10 to 360 deg)						
10-60 deg	-7.32	-15.51	-23.22	-30.23	-36.32	-41.31
70-120 deg	-45.04	-47.41	-48.33	-57.99	-66.90	-73.76
130-180 deg	-78.39	-80.64	-80.80	-80.63	-78.00	-73.01
190-240 deg	-91.81	-107.83	-120.57	-129.64	-134.78	-135.82
250-300 deg	-132.73	-125.62	-114.93	-115.54	-112.65	-106.33
310-360 deg	-96.78	-84.29	-69.23	-52.08	-33.34	-13.59
Across Flow [m] (10 to 360 deg)						
10-60 deg	-28.78	-22.88	-16.28	-9.19	-1.82	5.78
70-120 deg	14.27	22.33	29.71	42.25	46.16	48.67
130-180 deg	49.71	49.23	47.26	43.85	39.10	33.30
190-240 deg	28.78	22.88	16.28	9.19	1.82	-5.78
250-300 deg	-14.27	-22.33	-29.71	-42.25	-46.16	-48.67
310-360 deg	-49.71	-49.23	-47.26	-43.85	-39.10	-33.30

Emission Rate Units for Output

For Concentration

Unit Factor:	1E6
Emission Unit Label:	GRAMS/SEC
Concentration Unit Label:	MICROGRAMS/M**3

Receptor Pathway

Receptor Networks

Note: Terrain Elavations and Flagpole Heights for Network Grids are in Page RE2 - 1 (If applicable)
Generated Discrete Receptors for Multi-Tier (Risk) Grid and Receptor Locations for Fenceline Grid are in Page RE3 - 1 (If applicable)

Uniform Cartesian Grid

Receptor Network ID	Grid Origin X Coordinate [m]	Grid Origin Y Coordinate [m]	No. of X-Axis Receptors	No. of Y-Axis Receptors	Spacing for X-Axis [m]	Spacing for Y-Axis [m]
UCART1	402245.43	3749194.84	25	40	101.87	101.01

Discrete Receptors

Discrete Cartesian Receptors

Record Number	X-Coordinate [m]	Y-Coordinate [m]	Group Name (Optional)	Terrain Elevations	Flagpole Heights [m] (Optional)
1	403008.61	3751235.14		24.46	
2	403210.21	3751439.36		25.01	
3	403635.16	3751113.73		23.03	
4	403415.16	3751147.23		24.41	
5	403600.54	3751145.56		23.24	
6	403633.48	3751038.35		22.83	

Plant Boundary Receptors

Discrete Cartesian Receptors (ARC) for EVALFILE Output

Record Number	X-Coordinate [m]	Y-Coordinate [m]	Group Name (Optional)	Terrain Elevations	Flagpole Heights [m] (Optional)
4	403008.39	3751234.87	ARCREC	24.46	
5	403210.21	3751439.62	ARCREC	25.01	

Receptor Groups

Record Number	Group ID	Group Description
1	NESTED	Nested Grid receptors
2	ARCREC	Discrete Cartesian Receptors for EVALFILE Output
3	Worker	Workers

Receptor Pathway

Terrain Elevations and Flagpole Heights for Network Grids

Uniform Cartesian Grid

Receptor Network ID	Location: X-Coordinate [m]	Location: Y-Coordinate [m]	Terrain Elevations (Optional)	Flagpole Heights (Optional)
UCART1	402245.43	3749194.84	18.30	Option not Selected
	402347.30	3749194.84	18.70	
	402449.17	3749194.84	19.10	
	402551.04	3749194.84	19.40	
	402652.91	3749194.84	19.10	
	402754.78	3749194.84	19.50	
	402856.65	3749194.84	19.50	
	402958.52	3749194.84	19.60	
	403060.39	3749194.84	19.40	
	403162.26	3749194.84	19.60	
	403264.13	3749194.84	20.50	
	403366.00	3749194.84	20.30	
	403467.87	3749194.84	20.30	
	403569.74	3749194.84	18.80	
	403671.61	3749194.84	18.40	
	403773.48	3749194.84	18.80	
	403875.35	3749194.84	19.10	
	403977.22	3749194.84	19.10	
	404079.09	3749194.84	19.30	
	404180.96	3749194.84	17.70	
	404282.83	3749194.84	17.60	
	404384.70	3749194.84	17.60	
	404486.57	3749194.84	15.70	
	404588.44	3749194.84	18.00	
	404690.31	3749194.84	17.90	
	402245.43	3749295.85	18.70	
	402347.30	3749295.85	18.70	
	402449.17	3749295.85	19.20	
	402551.04	3749295.85	19.30	
	402652.91	3749295.85	20.00	
	402754.78	3749295.85	20.10	
	402856.65	3749295.85	19.40	
	402958.52	3749295.85	19.70	
	403060.39	3749295.85	19.60	
	403162.26	3749295.85	19.70	
	403264.13	3749295.85	20.10	
	403366.00	3749295.85	20.70	
	403467.87	3749295.85	20.00	
	403569.74	3749295.85	19.50	
	403671.61	3749295.85	19.30	
	403773.48	3749295.85	19.90	
	403875.35	3749295.85	19.40	
	403977.22	3749295.85	19.50	
	404079.09	3749295.85	18.80	
	404180.96	3749295.85	18.40	

Receptor Pathway

AERMOD

Receptor Network ID	Location: X-Coordinate [m]	Location: Y-Coordinate [m]	Terrain Elevations (Optional)	Flagpole Heights (Optional)
UCART1	404282.83	3749295.85	18.30	Option not Selected
	404384.70	3749295.85	17.90	
	404486.57	3749295.85	15.60	
	404588.44	3749295.85	17.80	
	404690.31	3749295.85	18.10	
	402245.43	3749396.86	19.00	
	402347.30	3749396.86	19.00	
	402449.17	3749396.86	19.00	
	402551.04	3749396.86	19.20	
	402652.91	3749396.86	19.50	
	402754.78	3749396.86	19.50	
	402856.65	3749396.86	19.20	
	402958.52	3749396.86	19.40	
	403060.39	3749396.86	19.50	
	403162.26	3749396.86	19.80	
	403264.13	3749396.86	20.30	
	403366.00	3749396.86	20.70	
	403467.87	3749396.86	20.70	
	403569.74	3749396.86	20.10	
	403671.61	3749396.86	19.60	
	403773.48	3749396.86	20.00	
	403875.35	3749396.86	20.00	
	403977.22	3749396.86	19.80	
	404079.09	3749396.86	19.60	
	404180.96	3749396.86	18.40	
	404282.83	3749396.86	18.30	
	404384.70	3749396.86	18.50	
	404486.57	3749396.86	15.60	
	404588.44	3749396.86	17.20	
	404690.31	3749396.86	17.20	
	402245.43	3749497.87	19.50	
	402347.30	3749497.87	19.70	
	402449.17	3749497.87	19.90	
	402551.04	3749497.87	19.80	
	402652.91	3749497.87	19.40	
	402754.78	3749497.87	19.60	
	402856.65	3749497.87	19.50	
	402958.52	3749497.87	19.70	
	403060.39	3749497.87	20.20	
	403162.26	3749497.87	20.40	
	403264.13	3749497.87	20.60	
	403366.00	3749497.87	20.90	
	403467.87	3749497.87	20.80	
	403569.74	3749497.87	20.40	
	403671.61	3749497.87	20.50	
	403773.48	3749497.87	19.80	
	403875.35	3749497.87	20.40	
	403977.22	3749497.87	19.80	

Receptor Pathway

AERMOD

Receptor Network ID	Location: X-Coordinate [m]	Location: Y-Coordinate [m]	Terrain Elevations (Optional)	Flagpole Heights (Optional)
UCART1	404079.09	3749497.87	19.30	Option not Selected
	404180.96	3749497.87	19.40	
	404282.83	3749497.87	18.60	
	404384.70	3749497.87	18.50	
	404486.57	3749497.87	15.90	
	404588.44	3749497.87	17.50	
	404690.31	3749497.87	18.30	
	402245.43	3749598.88	19.20	
	402347.30	3749598.88	19.40	
	402449.17	3749598.88	19.80	
	402551.04	3749598.88	19.90	
	402652.91	3749598.88	19.60	
	402754.78	3749598.88	19.70	
	402856.65	3749598.88	20.10	
	402958.52	3749598.88	19.90	
	403060.39	3749598.88	20.00	
	403162.26	3749598.88	20.90	
	403264.13	3749598.88	20.70	
	403366.00	3749598.88	21.00	
	403467.87	3749598.88	21.20	
	403569.74	3749598.88	20.80	
	403671.61	3749598.88	20.30	
	403773.48	3749598.88	20.00	
	403875.35	3749598.88	20.60	
	403977.22	3749598.88	19.70	
	404079.09	3749598.88	19.80	
	404180.96	3749598.88	20.00	
	404282.83	3749598.88	19.30	
	404384.70	3749598.88	19.30	
	404486.57	3749598.88	16.00	
	404588.44	3749598.88	17.90	
	404690.31	3749598.88	18.20	
	402245.43	3749699.89	19.80	
	402347.30	3749699.89	20.30	
	402449.17	3749699.89	21.10	
	402551.04	3749699.89	19.80	
	402652.91	3749699.89	20.00	
	402754.78	3749699.89	19.80	
	402856.65	3749699.89	20.70	
	402958.52	3749699.89	20.70	
	403060.39	3749699.89	20.50	
	403162.26	3749699.89	20.90	
	403264.13	3749699.89	21.30	
	403366.00	3749699.89	21.60	
	403467.87	3749699.89	21.50	
	403569.74	3749699.89	21.10	
	403671.61	3749699.89	20.70	
	403773.48	3749699.89	20.30	

Receptor Pathway

AERMOD

Receptor Network ID	Location: X-Coordinate [m]	Location: Y-Coordinate [m]	Terrain Elevations (Optional)	Flagpole Heights (Optional)
UCART1	403875.35	3749699.89	20.20	Option not Selected
	403977.22	3749699.89	20.00	
	404079.09	3749699.89	20.10	
	404180.96	3749699.89	20.30	
	404282.83	3749699.89	17.30	
	404384.70	3749699.89	17.60	
	404486.57	3749699.89	15.90	
	404588.44	3749699.89	18.60	
	404690.31	3749699.89	18.90	
	402245.43	3749800.90	20.10	
	402347.30	3749800.90	19.80	
	402449.17	3749800.90	19.50	
	402551.04	3749800.90	20.00	
	402652.91	3749800.90	20.70	
	402754.78	3749800.90	20.50	
	402856.65	3749800.90	20.70	
	402958.52	3749800.90	20.70	
	403060.39	3749800.90	20.30	
	403162.26	3749800.90	20.90	
	403264.13	3749800.90	21.40	
	403366.00	3749800.90	21.70	
	403467.87	3749800.90	21.50	
	403569.74	3749800.90	21.30	
	403671.61	3749800.90	21.30	
	403773.48	3749800.90	21.10	
	403875.35	3749800.90	20.90	
	403977.22	3749800.90	20.50	
	404079.09	3749800.90	20.80	
	404180.96	3749800.90	19.60	
	404282.83	3749800.90	18.60	
	404384.70	3749800.90	18.10	
	404486.57	3749800.90	16.20	
	404588.44	3749800.90	18.90	
	404690.31	3749800.90	18.60	
	402245.43	3749901.91	20.20	
	402347.30	3749901.91	20.00	
	402449.17	3749901.91	20.30	
	402551.04	3749901.91	20.00	
	402652.91	3749901.91	20.40	
	402754.78	3749901.91	20.70	
	402856.65	3749901.91	20.70	
	402958.52	3749901.91	20.70	
	403060.39	3749901.91	20.50	
	403162.26	3749901.91	21.20	
	403264.13	3749901.91	21.80	
	403366.00	3749901.91	21.50	
	403467.87	3749901.91	21.10	
	403569.74	3749901.91	21.40	

Receptor Pathway

AERMOD

Receptor Network ID	Location: X-Coordinate [m]	Location: Y-Coordinate [m]	Terrain Elevations (Optional)	Flagpole Heights (Optional)
UCART1	403671.61	3749901.91	21.50	Option not Selected
	403773.48	3749901.91	21.20	
	403875.35	3749901.91	20.70	
	403977.22	3749901.91	20.50	
	404079.09	3749901.91	20.80	
	404180.96	3749901.91	19.80	
	404282.83	3749901.91	19.20	
	404384.70	3749901.91	19.30	
	404486.57	3749901.91	18.90	
	404588.44	3749901.91	18.90	
	404690.31	3749901.91	19.60	
	402245.43	3750002.92	20.00	
	402347.30	3750002.92	20.80	
	402449.17	3750002.92	20.80	
	402551.04	3750002.92	20.90	
	402652.91	3750002.92	21.10	
	402754.78	3750002.92	20.70	
	402856.65	3750002.92	21.30	
	402958.52	3750002.92	21.60	
	403060.39	3750002.92	20.20	
	403162.26	3750002.92	21.20	
	403264.13	3750002.92	21.60	
	403366.00	3750002.92	21.60	
	403467.87	3750002.92	21.30	
	403569.74	3750002.92	21.20	
	403671.61	3750002.92	20.80	
	403773.48	3750002.92	20.50	
	403875.35	3750002.92	21.10	
	403977.22	3750002.92	20.50	
	404079.09	3750002.92	20.10	
	404180.96	3750002.92	19.50	
	404282.83	3750002.92	20.40	
	404384.70	3750002.92	20.30	
	404486.57	3750002.92	15.70	
	404588.44	3750002.92	20.40	
	404690.31	3750002.92	19.80	
	402245.43	3750103.93	21.30	
	402347.30	3750103.93	20.60	
	402449.17	3750103.93	21.40	
	402551.04	3750103.93	21.20	
	402652.91	3750103.93	21.00	
	402754.78	3750103.93	20.50	
	402856.65	3750103.93	21.80	
	402958.52	3750103.93	21.90	
	403060.39	3750103.93	21.80	
	403162.26	3750103.93	21.90	
	403264.13	3750103.93	22.00	
	403366.00	3750103.93	22.20	

Receptor Pathway

AERMOD

Receptor Network ID	Location: X-Coordinate [m]	Location: Y-Coordinate [m]	Terrain Elevations (Optional)	Flagpole Heights (Optional)
UCART1	403467.87	3750103.93	21.80	Option not Selected
	403569.74	3750103.93	21.90	
	403671.61	3750103.93	21.30	
	403773.48	3750103.93	20.60	
	403875.35	3750103.93	21.20	
	403977.22	3750103.93	21.00	
	404079.09	3750103.93	20.10	
	404180.96	3750103.93	20.40	
	404282.83	3750103.93	20.20	
	404384.70	3750103.93	22.40	
	404486.57	3750103.93	19.80	
	404588.44	3750103.93	20.00	
	404690.31	3750103.93	19.70	
	402245.43	3750204.94	22.00	
	402347.30	3750204.94	21.90	
	402449.17	3750204.94	21.70	
	402551.04	3750204.94	21.30	
	402652.91	3750204.94	21.00	
	402754.78	3750204.94	21.50	
	402856.65	3750204.94	22.10	
	402958.52	3750204.94	22.30	
	403060.39	3750204.94	22.00	
	403162.26	3750204.94	21.90	
	403264.13	3750204.94	22.20	
	403366.00	3750204.94	22.70	
	403467.87	3750204.94	23.00	
	403569.74	3750204.94	22.50	
	403671.61	3750204.94	21.80	
	403773.48	3750204.94	21.30	
	403875.35	3750204.94	21.00	
	403977.22	3750204.94	20.80	
	404079.09	3750204.94	24.20	
	404180.96	3750204.94	22.20	
	404282.83	3750204.94	22.90	
	404384.70	3750204.94	25.70	
	404486.57	3750204.94	19.70	
	404588.44	3750204.94	19.90	
	404690.31	3750204.94	20.10	
	402245.43	3750305.95	21.50	
	402347.30	3750305.95	22.10	
	402449.17	3750305.95	22.10	
	402551.04	3750305.95	21.30	
	402652.91	3750305.95	21.30	
	402754.78	3750305.95	22.60	
	402856.65	3750305.95	22.20	
	402958.52	3750305.95	22.80	
	403060.39	3750305.95	22.80	
	403162.26	3750305.95	22.60	

Receptor Pathway

AERMOD

Receptor Network ID	Location: X-Coordinate [m]	Location: Y-Coordinate [m]	Terrain Elevations (Optional)	Flagpole Heights (Optional)
UCART1	403264.13	3750305.95	22.80	Option not Selected
	403366.00	3750305.95	22.90	
	403467.87	3750305.95	23.10	
	403569.74	3750305.95	22.60	
	403671.61	3750305.95	22.20	
	403773.48	3750305.95	21.50	
	403875.35	3750305.95	21.30	
	403977.22	3750305.95	20.80	
	404079.09	3750305.95	21.00	
	404180.96	3750305.95	19.20	
	404282.83	3750305.95	20.00	
	404384.70	3750305.95	20.00	
	404486.57	3750305.95	17.00	
	404588.44	3750305.95	20.40	
	404690.31	3750305.95	20.60	
	402245.43	3750406.96	22.10	
	402347.30	3750406.96	22.20	
	402449.17	3750406.96	22.70	
	402551.04	3750406.96	21.70	
	402652.91	3750406.96	21.70	
	402754.78	3750406.96	21.70	
	402856.65	3750406.96	22.50	
	402958.52	3750406.96	23.00	
	403060.39	3750406.96	23.20	
	403162.26	3750406.96	23.20	
	403264.13	3750406.96	23.90	
	403366.00	3750406.96	23.00	
	403467.87	3750406.96	23.30	
	403569.74	3750406.96	22.90	
	403671.61	3750406.96	22.50	
	403773.48	3750406.96	22.20	
	403875.35	3750406.96	21.70	
	403977.22	3750406.96	20.80	
	404079.09	3750406.96	21.90	
	404180.96	3750406.96	21.40	
	404282.83	3750406.96	20.60	
	404384.70	3750406.96	20.90	
	404486.57	3750406.96	17.60	
	404588.44	3750406.96	20.00	
	404690.31	3750406.96	20.10	
	402245.43	3750507.97	22.20	
	402347.30	3750507.97	22.50	
	402449.17	3750507.97	23.30	
	402551.04	3750507.97	22.30	
	402652.91	3750507.97	22.40	
	402754.78	3750507.97	22.70	
	402856.65	3750507.97	23.30	
	402958.52	3750507.97	23.30	

Receptor Pathway

AERMOD

Receptor Network ID	Location: X-Coordinate [m]	Location: Y-Coordinate [m]	Terrain Elevations (Optional)	Flagpole Heights (Optional)
UCART1	403060.39	3750507.97	23.40	Option not Selected
	403162.26	3750507.97	23.20	
	403264.13	3750507.97	23.20	
	403366.00	3750507.97	23.50	
	403467.87	3750507.97	22.90	
	403569.74	3750507.97	23.20	
	403671.61	3750507.97	22.20	
	403773.48	3750507.97	22.20	
	403875.35	3750507.97	20.90	
	403977.22	3750507.97	20.90	
	404079.09	3750507.97	21.90	
	404180.96	3750507.97	21.00	
	404282.83	3750507.97	20.30	
	404384.70	3750507.97	20.40	
	404486.57	3750507.97	15.60	
	404588.44	3750507.97	20.30	
	404690.31	3750507.97	20.90	
	402245.43	3750608.98	22.30	
	402347.30	3750608.98	22.70	
	402449.17	3750608.98	23.20	
	402551.04	3750608.98	22.90	
	402652.91	3750608.98	22.80	
	402754.78	3750608.98	22.70	
	402856.65	3750608.98	23.30	
	402958.52	3750608.98	23.20	
	403060.39	3750608.98	23.30	
	403162.26	3750608.98	23.90	
	403264.13	3750608.98	23.60	
	403366.00	3750608.98	23.60	
	403467.87	3750608.98	26.90	
	403569.74	3750608.98	22.90	
	403671.61	3750608.98	22.00	
	403773.48	3750608.98	21.80	
	403875.35	3750608.98	21.80	
	403977.22	3750608.98	20.90	
	404079.09	3750608.98	21.80	
	404180.96	3750608.98	21.00	
	404282.83	3750608.98	21.40	
	404384.70	3750608.98	21.70	
	404486.57	3750608.98	18.40	
	404588.44	3750608.98	17.40	
	404690.31	3750608.98	21.50	
	402245.43	3750709.99	22.30	
	402347.30	3750709.99	22.50	
	402449.17	3750709.99	22.90	
	402551.04	3750709.99	23.10	
	402652.91	3750709.99	22.90	
	402754.78	3750709.99	23.80	

Receptor Pathway

Receptor Network ID	Location: X-Coordinate [m]	Location: Y-Coordinate [m]	Terrain Elevations (Optional)	Flagpole Heights (Optional)
UCART1	402856.65	3750709.99	23.80	Option not Selected
	402958.52	3750709.99	23.80	
	403060.39	3750709.99	23.90	
	403162.26	3750709.99	23.80	
	403264.13	3750709.99	24.60	
	403366.00	3750709.99	23.60	
	403467.87	3750709.99	23.40	
	403569.74	3750709.99	23.00	
	403671.61	3750709.99	22.50	
	403773.48	3750709.99	22.00	
	403875.35	3750709.99	21.90	
	403977.22	3750709.99	21.10	
	404079.09	3750709.99	22.00	
	404180.96	3750709.99	21.90	
	404282.83	3750709.99	21.30	
	404384.70	3750709.99	21.50	
	404486.57	3750709.99	21.50	
	404588.44	3750709.99	22.20	
	404690.31	3750709.99	22.60	
	402245.43	3750811.00	22.50	
	402347.30	3750811.00	22.70	
	402449.17	3750811.00	23.10	
	402551.04	3750811.00	23.00	
	402652.91	3750811.00	23.80	
	402754.78	3750811.00	23.40	
	402856.65	3750811.00	23.70	
	402958.52	3750811.00	23.80	
	403060.39	3750811.00	24.40	
	403162.26	3750811.00	23.80	
	403264.13	3750811.00	24.60	
	403366.00	3750811.00	24.90	
	403467.87	3750811.00	22.90	
	403569.74	3750811.00	23.30	
	403671.61	3750811.00	22.60	
	403773.48	3750811.00	22.20	
	403875.35	3750811.00	21.60	
	403977.22	3750811.00	21.20	
	404079.09	3750811.00	21.60	
	404180.96	3750811.00	21.60	
	404282.83	3750811.00	21.80	
	404384.70	3750811.00	21.50	
	404486.57	3750811.00	23.60	
	404588.44	3750811.00	23.70	
	404690.31	3750811.00	23.60	
	402245.43	3750912.01	23.20	
	402347.30	3750912.01	23.30	
	402449.17	3750912.01	23.70	
	402551.04	3750912.01	24.10	

Receptor Pathway

AERMOD

Receptor Network ID	Location: X-Coordinate [m]	Location: Y-Coordinate [m]	Terrain Elevations (Optional)	Flagpole Heights (Optional)
UCART1	402652.91	3750912.01	24.10	Option not Selected
	402754.78	3750912.01	23.80	
	402856.65	3750912.01	23.90	
	402958.52	3750912.01	24.90	
	403060.39	3750912.01	24.80	
	403162.26	3750912.01	25.00	
	403264.13	3750912.01	24.50	
	403366.00	3750912.01	24.40	
	403467.87	3750912.01	23.50	
	403569.74	3750912.01	23.40	
	403671.61	3750912.01	22.80	
	403773.48	3750912.01	22.20	
	403875.35	3750912.01	21.50	
	403977.22	3750912.01	21.50	
	404079.09	3750912.01	21.50	
	404180.96	3750912.01	21.90	
	404282.83	3750912.01	22.10	
	404384.70	3750912.01	23.40	
	404486.57	3750912.01	23.70	
	404588.44	3750912.01	23.20	
	404690.31	3750912.01	23.80	
	402245.43	3751013.02	23.50	
	402347.30	3751013.02	23.30	
	402449.17	3751013.02	22.90	
	402551.04	3751013.02	23.10	
	402652.91	3751013.02	23.40	
	402754.78	3751013.02	23.60	
	402856.65	3751013.02	25.10	
	402958.52	3751013.02	24.80	
	403060.39	3751013.02	26.80	
	403162.26	3751013.02	24.50	
	403264.13	3751013.02	24.50	
	403366.00	3751013.02	23.50	
	403467.87	3751013.02	23.10	
	403569.74	3751013.02	23.00	
	403671.61	3751013.02	22.50	
	403773.48	3751013.02	21.90	
	403875.35	3751013.02	21.60	
	403977.22	3751013.02	21.40	
	404079.09	3751013.02	21.70	
	404180.96	3751013.02	22.30	
	404282.83	3751013.02	21.70	
	404384.70	3751013.02	23.80	
	404486.57	3751013.02	24.00	
	404588.44	3751013.02	24.00	
	404690.31	3751013.02	24.00	
	402245.43	3751114.03	24.80	
	402347.30	3751114.03	24.00	

Receptor Pathway

Receptor Network ID	Location: X-Coordinate [m]	Location: Y-Coordinate [m]	Terrain Elevations (Optional)	Flagpole Heights (Optional)
UCART1	402449.17	3751114.03	23.70	Option not Selected
	402551.04	3751114.03	23.90	
	402652.91	3751114.03	24.20	
	402754.78	3751114.03	23.70	
	402856.65	3751114.03	25.70	
	402958.52	3751114.03	24.60	
	403060.39	3751114.03	25.30	
	403162.26	3751114.03	25.40	
	403264.13	3751114.03	24.60	
	403366.00	3751114.03	24.20	
	403467.87	3751114.03	23.50	
	403569.74	3751114.03	23.50	
	403671.61	3751114.03	22.90	
	403773.48	3751114.03	22.40	
	403875.35	3751114.03	22.20	
	403977.22	3751114.03	22.30	
	404079.09	3751114.03	22.00	
	404180.96	3751114.03	18.90	
	404282.83	3751114.03	24.10	
	404384.70	3751114.03	24.00	
	404486.57	3751114.03	24.00	
	404588.44	3751114.03	24.00	
	404690.31	3751114.03	25.00	
	402245.43	3751215.04	24.50	
	402347.30	3751215.04	23.80	
	402449.17	3751215.04	24.30	
	402551.04	3751215.04	24.20	
	402652.91	3751215.04	24.30	
	402754.78	3751215.04	24.90	
	402856.65	3751215.04	24.90	
	402958.52	3751215.04	25.20	
	403060.39	3751215.04	25.40	
	403162.26	3751215.04	25.10	
	403264.13	3751215.04	25.00	
	403366.00	3751215.04	24.90	
	403467.87	3751215.04	23.80	
	403569.74	3751215.04	23.30	
	403671.61	3751215.04	22.60	
	403773.48	3751215.04	22.30	
	403875.35	3751215.04	22.70	
	403977.22	3751215.04	22.40	
	404079.09	3751215.04	18.20	
	404180.96	3751215.04	24.00	
	404282.83	3751215.04	23.90	
	404384.70	3751215.04	24.00	
	404486.57	3751215.04	23.80	
	404588.44	3751215.04	24.40	
	404690.31	3751215.04	25.40	

Receptor Pathway

AERMOD

Receptor Network ID	Location: X-Coordinate [m]	Location: Y-Coordinate [m]	Terrain Elevations (Optional)	Flagpole Heights (Optional)
UCART1	402245.43	3751316.05	24.40	Option not Selected
	402347.30	3751316.05	23.80	
	402449.17	3751316.05	24.50	
	402551.04	3751316.05	24.50	
	402652.91	3751316.05	23.80	
	402754.78	3751316.05	24.30	
	402856.65	3751316.05	24.70	
	402958.52	3751316.05	24.60	
	403060.39	3751316.05	25.80	
	403162.26	3751316.05	25.40	
	403264.13	3751316.05	24.90	
	403366.00	3751316.05	24.40	
	403467.87	3751316.05	23.90	
	403569.74	3751316.05	23.30	
	403671.61	3751316.05	22.80	
	403773.48	3751316.05	23.00	
	403875.35	3751316.05	22.80	
	403977.22	3751316.05	20.20	
	404079.09	3751316.05	23.50	
	404180.96	3751316.05	24.10	
	404282.83	3751316.05	23.90	
	404384.70	3751316.05	24.20	
	404486.57	3751316.05	24.20	
	404588.44	3751316.05	24.70	
	404690.31	3751316.05	25.90	
	402245.43	3751417.06	25.30	
	402347.30	3751417.06	24.60	
	402449.17	3751417.06	24.40	
	402551.04	3751417.06	24.30	
	402652.91	3751417.06	24.30	
	402754.78	3751417.06	24.30	
	402856.65	3751417.06	24.70	
	402958.52	3751417.06	24.80	
	403060.39	3751417.06	25.00	
	403162.26	3751417.06	25.00	
	403264.13	3751417.06	24.90	
	403366.00	3751417.06	24.60	
	403467.87	3751417.06	23.90	
	403569.74	3751417.06	23.80	
	403671.61	3751417.06	23.40	
	403773.48	3751417.06	23.10	
	403875.35	3751417.06	23.30	
	403977.22	3751417.06	23.60	
	404079.09	3751417.06	24.30	
	404180.96	3751417.06	24.80	
	404282.83	3751417.06	24.50	
	404384.70	3751417.06	24.40	
	404486.57	3751417.06	25.60	

Receptor Pathway

AERMOD

Receptor Network ID	Location: X-Coordinate [m]	Location: Y-Coordinate [m]	Terrain Elevations (Optional)	Flagpole Heights (Optional)
UCART1	404588.44	3751417.06	25.50	Option not Selected
	404690.31	3751417.06	29.20	
	402245.43	3751518.07	25.40	
	402347.30	3751518.07	24.30	
	402449.17	3751518.07	24.40	
	402551.04	3751518.07	24.40	
	402652.91	3751518.07	24.30	
	402754.78	3751518.07	24.30	
	402856.65	3751518.07	24.90	
	402958.52	3751518.07	25.20	
	403060.39	3751518.07	25.10	
	403162.26	3751518.07	25.10	
	403264.13	3751518.07	25.20	
	403366.00	3751518.07	24.70	
	403467.87	3751518.07	23.70	
	403569.74	3751518.07	23.30	
	403671.61	3751518.07	23.00	
	403773.48	3751518.07	23.50	
	403875.35	3751518.07	24.50	
	403977.22	3751518.07	24.10	
	404079.09	3751518.07	24.50	
	404180.96	3751518.07	24.90	
	404282.83	3751518.07	24.70	
	404384.70	3751518.07	25.00	
	404486.57	3751518.07	29.10	
	404588.44	3751518.07	30.10	
	404690.31	3751518.07	31.30	
	402245.43	3751619.08	25.10	
	402347.30	3751619.08	24.80	
	402449.17	3751619.08	24.90	
	402551.04	3751619.08	24.60	
	402652.91	3751619.08	24.50	
	402754.78	3751619.08	24.40	
	402856.65	3751619.08	25.00	
	402958.52	3751619.08	25.20	
	403060.39	3751619.08	25.40	
	403162.26	3751619.08	25.30	
	403264.13	3751619.08	25.60	
	403366.00	3751619.08	25.00	
	403467.87	3751619.08	24.10	
	403569.74	3751619.08	23.70	
	403671.61	3751619.08	23.40	
	403773.48	3751619.08	20.90	
	403875.35	3751619.08	23.70	
	403977.22	3751619.08	24.10	
	404079.09	3751619.08	25.30	
	404180.96	3751619.08	25.20	
	404282.83	3751619.08	25.40	

Receptor Pathway

Receptor Network ID	Location: X-Coordinate [m]	Location: Y-Coordinate [m]	Terrain Elevations (Optional)	Flagpole Heights (Optional)
UCART1	404384.70	3751619.08	27.90	Option not Selected
	404486.57	3751619.08	28.70	
	404588.44	3751619.08	30.70	
	404690.31	3751619.08	31.70	
	402245.43	3751720.09	25.70	
	402347.30	3751720.09	25.20	
	402449.17	3751720.09	25.40	
	402551.04	3751720.09	24.80	
	402652.91	3751720.09	24.60	
	402754.78	3751720.09	24.60	
	402856.65	3751720.09	25.30	
	402958.52	3751720.09	25.50	
	403060.39	3751720.09	25.80	
	403162.26	3751720.09	25.50	
	403264.13	3751720.09	26.00	
	403366.00	3751720.09	25.50	
	403467.87	3751720.09	24.30	
	403569.74	3751720.09	24.50	
	403671.61	3751720.09	25.40	
	403773.48	3751720.09	25.40	
	403875.35	3751720.09	25.10	
	403977.22	3751720.09	25.30	
	404079.09	3751720.09	26.50	
	404180.96	3751720.09	27.80	
	404282.83	3751720.09	28.00	
	404384.70	3751720.09	29.20	
	404486.57	3751720.09	29.30	
	404588.44	3751720.09	31.00	
	404690.31	3751720.09	31.80	
	402245.43	3751821.10	25.90	
	402347.30	3751821.10	25.60	
	402449.17	3751821.10	25.50	
	402551.04	3751821.10	25.10	
	402652.91	3751821.10	25.00	
	402754.78	3751821.10	25.60	
	402856.65	3751821.10	25.70	
	402958.52	3751821.10	25.70	
	403060.39	3751821.10	25.80	
	403162.26	3751821.10	25.70	
	403264.13	3751821.10	25.60	
	403366.00	3751821.10	25.40	
	403467.87	3751821.10	25.10	
	403569.74	3751821.10	25.10	
	403671.61	3751821.10	26.90	
	403773.48	3751821.10	26.60	
	403875.35	3751821.10	26.00	
	403977.22	3751821.10	27.40	
	404079.09	3751821.10	28.60	

Receptor Pathway

AERMOD

Receptor Network ID	Location: X-Coordinate [m]	Location: Y-Coordinate [m]	Terrain Elevations (Optional)	Flagpole Heights (Optional)
UCART1	404180.96	3751821.10	28.40	Option not Selected
	404282.83	3751821.10	28.90	
	404384.70	3751821.10	29.80	
	404486.57	3751821.10	30.90	
	404588.44	3751821.10	32.00	
	404690.31	3751821.10	33.10	
	402245.43	3751922.11	26.60	
	402347.30	3751922.11	26.30	
	402449.17	3751922.11	26.10	
	402551.04	3751922.11	26.40	
	402652.91	3751922.11	25.90	
	402754.78	3751922.11	25.90	
	402856.65	3751922.11	25.60	
	402958.52	3751922.11	25.90	
	403060.39	3751922.11	25.90	
	403162.26	3751922.11	25.80	
	403264.13	3751922.11	26.10	
	403366.00	3751922.11	25.80	
	403467.87	3751922.11	25.60	
	403569.74	3751922.11	25.50	
	403671.61	3751922.11	26.30	
	403773.48	3751922.11	26.30	
	403875.35	3751922.11	27.30	
	403977.22	3751922.11	28.00	
	404079.09	3751922.11	28.90	
	404180.96	3751922.11	29.10	
	404282.83	3751922.11	29.40	
	404384.70	3751922.11	30.00	
	404486.57	3751922.11	31.00	
	404588.44	3751922.11	32.60	
	404690.31	3751922.11	34.30	
	402245.43	3752023.12	26.70	
	402347.30	3752023.12	26.40	
	402449.17	3752023.12	26.40	
	402551.04	3752023.12	26.80	
	402652.91	3752023.12	27.10	
	402754.78	3752023.12	26.20	
	402856.65	3752023.12	25.90	
	402958.52	3752023.12	26.00	
	403060.39	3752023.12	26.70	
	403162.26	3752023.12	26.80	
	403264.13	3752023.12	26.30	
	403366.00	3752023.12	26.20	
	403467.87	3752023.12	26.00	
	403569.74	3752023.12	26.00	
	403671.61	3752023.12	26.80	
	403773.48	3752023.12	27.80	
	403875.35	3752023.12	27.70	

Receptor Pathway

Receptor Network ID	Location: X-Coordinate [m]	Location: Y-Coordinate [m]	Terrain Elevations (Optional)	Flagpole Heights (Optional)
UCART1	403977.22	3752023.12	28.60	Option not Selected
	404079.09	3752023.12	28.60	
	404180.96	3752023.12	28.40	
	404282.83	3752023.12	28.30	
	404384.70	3752023.12	28.50	
	404486.57	3752023.12	31.50	
	404588.44	3752023.12	33.00	
	404690.31	3752023.12	34.90	
	402245.43	3752124.13	26.80	
	402347.30	3752124.13	26.50	
	402449.17	3752124.13	26.30	
	402551.04	3752124.13	26.60	
	402652.91	3752124.13	27.00	
	402754.78	3752124.13	26.20	
	402856.65	3752124.13	26.30	
	402958.52	3752124.13	26.70	
	403060.39	3752124.13	26.70	
	403162.26	3752124.13	26.60	
	403264.13	3752124.13	26.70	
	403366.00	3752124.13	26.90	
	403467.87	3752124.13	26.40	
	403569.74	3752124.13	26.80	
	403671.61	3752124.13	26.20	
	403773.48	3752124.13	27.10	
	403875.35	3752124.13	28.10	
	403977.22	3752124.13	28.00	
	404079.09	3752124.13	27.90	
	404180.96	3752124.13	28.10	
	404282.83	3752124.13	28.20	
	404384.70	3752124.13	28.40	
	404486.57	3752124.13	28.10	
	404588.44	3752124.13	28.60	
	404690.31	3752124.13	31.10	
	402245.43	3752225.14	27.20	
	402347.30	3752225.14	26.90	
	402449.17	3752225.14	26.70	
	402551.04	3752225.14	26.60	
	402652.91	3752225.14	26.90	
	402754.78	3752225.14	27.50	
	402856.65	3752225.14	26.70	
	402958.52	3752225.14	26.60	
	403060.39	3752225.14	26.60	
	403162.26	3752225.14	26.50	
	403264.13	3752225.14	26.50	
	403366.00	3752225.14	26.50	
	403467.87	3752225.14	28.20	
	403569.74	3752225.14	26.50	
	403671.61	3752225.14	27.00	

Receptor Pathway

AERMOD

Receptor Network ID	Location: X-Coordinate [m]	Location: Y-Coordinate [m]	Terrain Elevations (Optional)	Flagpole Heights (Optional)
UCART1	403773.48	3752225.14	27.20	Option not Selected
	403875.35	3752225.14	27.30	
	403977.22	3752225.14	27.40	
	404079.09	3752225.14	26.90	
	404180.96	3752225.14	27.20	
	404282.83	3752225.14	27.40	
	404384.70	3752225.14	27.60	
	404486.57	3752225.14	27.90	
	404588.44	3752225.14	28.40	
	404690.31	3752225.14	28.50	
	402245.43	3752326.15	26.80	
	402347.30	3752326.15	26.70	
	402449.17	3752326.15	26.70	
	402551.04	3752326.15	27.30	
	402652.91	3752326.15	27.20	
	402754.78	3752326.15	27.70	
	402856.65	3752326.15	27.20	
	402958.52	3752326.15	26.90	
	403060.39	3752326.15	26.70	
	403162.26	3752326.15	26.40	
	403264.13	3752326.15	26.60	
	403366.00	3752326.15	27.40	
	403467.87	3752326.15	27.10	
	403569.74	3752326.15	27.00	
	403671.61	3752326.15	26.80	
	403773.48	3752326.15	27.00	
	403875.35	3752326.15	27.20	
	403977.22	3752326.15	27.10	
	404079.09	3752326.15	27.90	
	404180.96	3752326.15	28.30	
	404282.83	3752326.15	28.50	
	404384.70	3752326.15	28.50	
	404486.57	3752326.15	28.40	
	404588.44	3752326.15	27.60	
	404690.31	3752326.15	28.10	
	402245.43	3752427.16	27.20	
	402347.30	3752427.16	27.10	
	402449.17	3752427.16	27.30	
	402551.04	3752427.16	27.60	
	402652.91	3752427.16	27.40	
	402754.78	3752427.16	27.60	
	402856.65	3752427.16	27.50	
	402958.52	3752427.16	27.30	
	403060.39	3752427.16	28.40	
	403162.26	3752427.16	27.20	
	403264.13	3752427.16	27.20	
	403366.00	3752427.16	27.00	
	403467.87	3752427.16	27.10	

Receptor Pathway

Receptor Network ID	Location: X-Coordinate [m]	Location: Y-Coordinate [m]	Terrain Elevations (Optional)	Flagpole Heights (Optional)
UCART1	403569.74	3752427.16	27.10	Option not Selected
	403671.61	3752427.16	26.70	
	403773.48	3752427.16	26.60	
	403875.35	3752427.16	27.30	
	403977.22	3752427.16	27.20	
	404079.09	3752427.16	28.00	
	404180.96	3752427.16	28.00	
	404282.83	3752427.16	28.80	
	404384.70	3752427.16	31.40	
	404486.57	3752427.16	29.60	
	404588.44	3752427.16	29.30	
	404690.31	3752427.16	28.20	
	402245.43	3752528.17	27.60	
	402347.30	3752528.17	27.60	
	402449.17	3752528.17	27.60	
	402551.04	3752528.17	28.10	
	402652.91	3752528.17	28.10	
	402754.78	3752528.17	27.90	
	402856.65	3752528.17	27.70	
	402958.52	3752528.17	27.60	
	403060.39	3752528.17	28.30	
	403162.26	3752528.17	27.80	
	403264.13	3752528.17	28.20	
	403366.00	3752528.17	27.30	
	403467.87	3752528.17	27.90	
	403569.74	3752528.17	27.80	
	403671.61	3752528.17	27.20	
	403773.48	3752528.17	23.40	
	403875.35	3752528.17	27.60	
	403977.22	3752528.17	27.20	
	404079.09	3752528.17	28.20	
	404180.96	3752528.17	28.20	
	404282.83	3752528.17	31.10	
	404384.70	3752528.17	32.00	
	404486.57	3752528.17	31.20	
	404588.44	3752528.17	31.10	
	404690.31	3752528.17	29.30	
	402245.43	3752629.18	27.60	
	402347.30	3752629.18	27.90	
	402449.17	3752629.18	28.00	
	402551.04	3752629.18	27.90	
	402652.91	3752629.18	27.70	
	402754.78	3752629.18	27.60	
	402856.65	3752629.18	27.80	
	402958.52	3752629.18	27.50	
	403060.39	3752629.18	28.00	
	403162.26	3752629.18	27.40	
	403264.13	3752629.18	28.10	

Receptor Pathway

AERMOD

Receptor Network ID	Location: X-Coordinate [m]	Location: Y-Coordinate [m]	Terrain Elevations (Optional)	Flagpole Heights (Optional)
UCART1	403366.00	3752629.18	28.00	Option not Selected
	403467.87	3752629.18	28.30	
	403569.74	3752629.18	28.10	
	403671.61	3752629.18	27.90	
	403773.48	3752629.18	30.10	
	403875.35	3752629.18	31.20	
	403977.22	3752629.18	30.40	
	404079.09	3752629.18	28.10	
	404180.96	3752629.18	29.60	
	404282.83	3752629.18	30.90	
	404384.70	3752629.18	32.00	
	404486.57	3752629.18	32.90	
	404588.44	3752629.18	31.20	
	404690.31	3752629.18	29.50	
	402245.43	3752730.19	27.90	
	402347.30	3752730.19	28.00	
	402449.17	3752730.19	28.40	
	402551.04	3752730.19	28.20	
	402652.91	3752730.19	27.80	
	402754.78	3752730.19	28.90	
	402856.65	3752730.19	28.30	
	402958.52	3752730.19	28.10	
	403060.39	3752730.19	28.10	
	403162.26	3752730.19	28.30	
	403264.13	3752730.19	28.70	
	403366.00	3752730.19	28.30	
	403467.87	3752730.19	28.50	
	403569.74	3752730.19	28.80	
	403671.61	3752730.19	29.10	
	403773.48	3752730.19	30.60	
	403875.35	3752730.19	32.00	
	403977.22	3752730.19	33.40	
	404079.09	3752730.19	33.80	
	404180.96	3752730.19	29.90	
	404282.83	3752730.19	31.20	
	404384.70	3752730.19	33.00	
	404486.57	3752730.19	33.00	
	404588.44	3752730.19	31.00	
	404690.31	3752730.19	30.10	
	402245.43	3752831.20	28.40	
	402347.30	3752831.20	28.50	
	402449.17	3752831.20	28.80	
	402551.04	3752831.20	28.60	
	402652.91	3752831.20	28.20	
	402754.78	3752831.20	28.60	
	402856.65	3752831.20	28.90	
	402958.52	3752831.20	29.20	
	403060.39	3752831.20	29.20	

Receptor Pathway

AERMOD

Receptor Network ID	Location: X-Coordinate [m]	Location: Y-Coordinate [m]	Terrain Elevations (Optional)	Flagpole Heights (Optional)
UCART1	403162.26	3752831.20	29.20	Option not Selected
	403264.13	3752831.20	29.10	
	403366.00	3752831.20	28.10	
	403467.87	3752831.20	28.40	
	403569.74	3752831.20	28.70	
	403671.61	3752831.20	30.20	
	403773.48	3752831.20	31.00	
	403875.35	3752831.20	30.40	
	403977.22	3752831.20	34.30	
	404079.09	3752831.20	35.60	
	404180.96	3752831.20	30.00	
	404282.83	3752831.20	31.60	
	404384.70	3752831.20	33.20	
	404486.57	3752831.20	33.30	
	404588.44	3752831.20	31.20	
	404690.31	3752831.20	30.40	
	402245.43	3752932.21	28.90	
	402347.30	3752932.21	29.30	
	402449.17	3752932.21	30.50	
	402551.04	3752932.21	28.90	
	402652.91	3752932.21	28.20	
	402754.78	3752932.21	28.20	
	402856.65	3752932.21	28.60	
	402958.52	3752932.21	29.00	
	403060.39	3752932.21	29.00	
	403162.26	3752932.21	29.10	
	403264.13	3752932.21	29.40	
	403366.00	3752932.21	29.70	
	403467.87	3752932.21	29.90	
	403569.74	3752932.21	31.00	
	403671.61	3752932.21	30.40	
	403773.48	3752932.21	30.80	
	403875.35	3752932.21	26.20	
	403977.22	3752932.21	33.10	
	404079.09	3752932.21	31.40	
	404180.96	3752932.21	30.30	
	404282.83	3752932.21	31.80	
	404384.70	3752932.21	33.50	
	404486.57	3752932.21	33.50	
	404588.44	3752932.21	31.50	
	404690.31	3752932.21	30.70	
	402245.43	3753033.22	28.50	
	402347.30	3753033.22	33.90	
	402449.17	3753033.22	28.80	
	402551.04	3753033.22	28.80	
	402652.91	3753033.22	28.50	
	402754.78	3753033.22	28.40	
	402856.65	3753033.22	28.10	

Receptor Pathway

AERMOD

Receptor Network ID	Location: X-Coordinate [m]	Location: Y-Coordinate [m]	Terrain Elevations (Optional)	Flagpole Heights (Optional)
UCART1	402958.52	3753033.22	28.00	Option not Selected
	403060.39	3753033.22	28.00	
	403162.26	3753033.22	28.00	
	403264.13	3753033.22	29.10	
	403366.00	3753033.22	28.90	
	403467.87	3753033.22	29.00	
	403569.74	3753033.22	29.80	
	403671.61	3753033.22	30.80	
	403773.48	3753033.22	30.50	
	403875.35	3753033.22	30.50	
	403977.22	3753033.22	31.40	
	404079.09	3753033.22	32.00	
	404180.96	3753033.22	30.80	
	404282.83	3753033.22	32.40	
	404384.70	3753033.22	33.60	
	404486.57	3753033.22	33.40	
	404588.44	3753033.22	31.00	
	404690.31	3753033.22	30.50	
	402245.43	3753134.23	34.70	
	402347.30	3753134.23	34.50	
	402449.17	3753134.23	28.90	
	402551.04	3753134.23	29.70	
	402652.91	3753134.23	29.40	
	402754.78	3753134.23	29.80	
	402856.65	3753134.23	29.20	
	402958.52	3753134.23	29.20	
	403060.39	3753134.23	29.30	
	403162.26	3753134.23	29.30	
	403264.13	3753134.23	29.70	
	403366.00	3753134.23	29.40	
	403467.87	3753134.23	30.30	
	403569.74	3753134.23	29.80	
	403671.61	3753134.23	32.90	
	403773.48	3753134.23	32.10	
	403875.35	3753134.23	31.40	
	403977.22	3753134.23	31.60	
	404079.09	3753134.23	32.50	
	404180.96	3753134.23	31.20	
	404282.83	3753134.23	32.40	
	404384.70	3753134.23	32.40	
	404486.57	3753134.23	33.00	
	404588.44	3753134.23	32.20	
	404690.31	3753134.23	32.00	

Meteorology Pathway

Met Input Data

Surface Met Data

Filename: KFUL_V9_ADJU\KFUL_v9.SFC
Format Type: Default AERMET format

Profile Met Data

Filename: KFUL_V9_ADJU\KFUL_v9.PFL
Format Type: Default AERMET format

Wind Speed

☐ Wind Speeds are Vector Mean (Not Scalar Means)

Wind Direction

Rotation Adjustment [deg]:

Potential Temperature Profile

Base Elevation above MSL (for Primary Met Tower): 30.00 [m]

Meteorological Station Data

Stations	Station No.	Year	X Coordinate [m]	Y Coordinate [m]	Station Name
Surface		2012			Fullerton Municipal Airport
Upper Air		2012			

Data Period

Data Period to Process

Start Date: 1/1/2012 Start Hour: 1 End Date: 12/31/2016 End Hour: 24

Wind Speed Categories

Stability Category	Wind Speed [m/s]	Stability Category	Wind Speed [m/s]
A	1.54	D	8.23
B	3.09	E	10.8
C	5.14	F	No Upper Bound

Output Pathway

Tabular Printed Outputs

Short Term Averaging Period	RECTABLE Highest Values Table										MAXTABLE Maximum Values Table	DAYTABLE Daily Values Table
	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th		
1	■	☐	☐	☐	☐	☐	☐	☐	☐	☐		No

Contour Plot Files (PLOTFILE)

Path for PLOTFILES: 23_078_CARM_OP.AD

Averaging Period	Source Group ID	High Value	File Name
1	ALL	1st	01H1GALL.PLT
Period	ALL	N/A	PE00GALL.PLT

Results Summary

C:\Users\EPD\EPD Solutions\EPD Project Site - Projects\TECHNICAL SER

PM10 - Concentration - Source Group: ALL

Averaging Period	Rank	Peak	Units	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	0.75736	ug/m^3	403467.87	3751316.05	23.90	0.00	23.90	1/10/2014, 19
PERIOD		0.07313	ug/m^3	403467.87	3751114.03	23.50	0.00	23.50	

Sensitive Receptor Summary

C:\Users\EPD\EPD Solutions\EPD Project Site - Projects\TECHNICAL SER

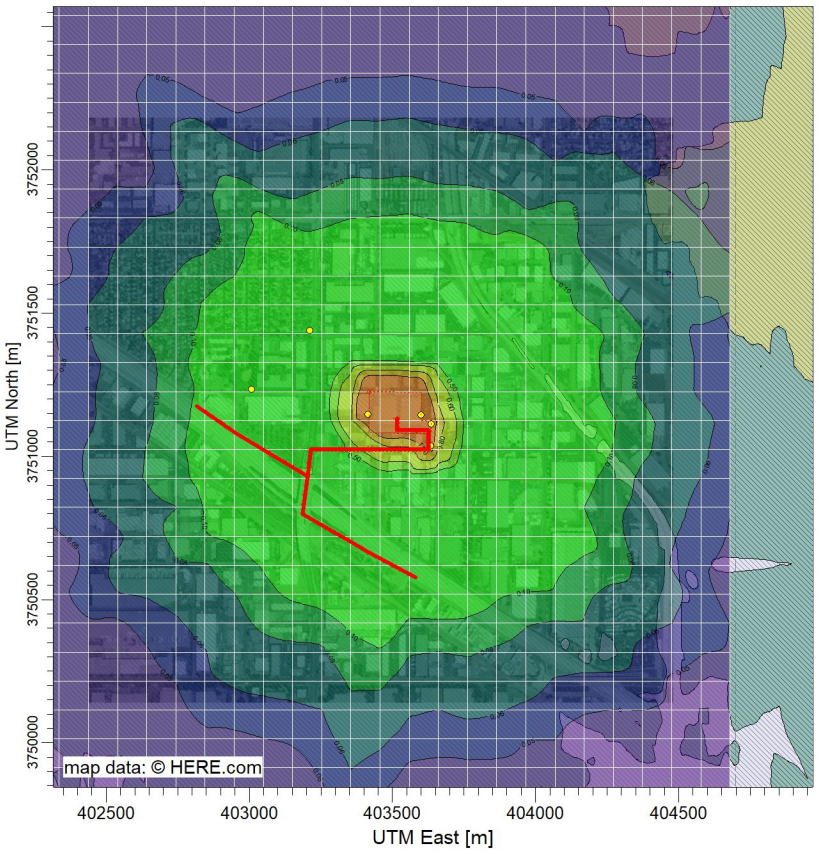
PM10 - Concentration - Source Group: ALL

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	0.26780	ug/m^3	School	403008.61	3751235.14	24.46	0.00	24.46	10/1/2012, 22
1-HR	1ST	0.37119	ug/m^3	Res	403210.21	3751439.62	25.01	0.00	25.01	1/19/2012, 19
1-HR	1ST	0.62630	ug/m^3	Worker	403635.16	3751113.73	23.03	0.00	23.03	5/12/2013, 24
1-HR	1ST	0.42538	ug/m^3	Worker	403415.16	3751147.23	24.41	0.00	24.41	10/28/2012, 5
1-HR	1ST	0.69206	ug/m^3	Worker	403600.54	3751145.56	23.24	0.00	23.24	9/26/2012, 6
1-HR	1ST	0.60027	ug/m^3	Worker	403633.48	3751038.35	22.83	0.00	22.83	9/30/2012, 3
PERIOD		0.00840	ug/m^3	School	403008.39	3751234.87	24.46	0.00	24.46	
PERIOD		0.00579	ug/m^3	Res	403210.21	3751439.36	25.01	0.00	25.01	
PERIOD		0.04283	ug/m^3	Worker	403635.16	3751113.73	23.03	0.00	23.03	
PERIOD		0.04626	ug/m^3	Worker	403415.16	3751147.23	24.41	0.00	24.41	
PERIOD		0.05338	ug/m^3	Worker	403600.54	3751145.56	23.24	0.00	23.24	
PERIOD		0.02923	ug/m^3	Worker	403633.48	3751038.35	22.83	0.00	22.83	

APPENDIX B.3 – AERMOD MITIGATED CONSTRUCTION MODEL OUTPUT

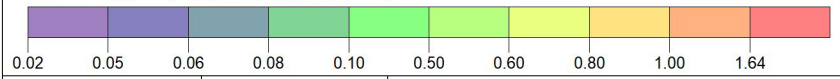
PROJECT TITLE:

Carmenita Construction DPM Emission Sources



PLOT FILE OF HIGH 1ST HIGH 1-HR VALUES FOR SOURCE GROUP: ALL ug/m^3

Max: 1.64 [ug/m^3] at (403456.57, 3751226.00)



COMMENTS:	SOURCES: 5		
	RECEPTORS: 1008	MODELER:	
	OUTPUT TYPE: Concentration	SCALE: 1:26,348 (0 — 0.5 km)	
	MAX: 1.64 ug/m^3	DATE: 5/30/2024	PROJECT NO.: Project No.: 2

Control Pathway

AERMOD

Dispersion Options

Titles

C:\Users\EPD\EPD Solutions\EPD Project Site - Projects\TECHNICAL SER

Dispersion Options

- [■] Regulatory Default
- [ ] Non-Default Options

Dispersion Coefficient

Urban

Population:
Name (Optional):
Roughness Length:

Output Type

- [■] Concentration
- [ ] Total Deposition (Dry & Wet)
- [ ] Dry Deposition
- [ ] Wet Deposition

Plume Depletion

- [ ] Dry Removal
- [ ] Wet Removal

Output Warnings

- [ ] No Output Warnings
- [ ] Non-fatal Warnings for Non-sequential Met Data

Pollutant / Averaging Time / Terrain Options

Pollutant Type

PM10

Averaging Time Options

Hours

1	2	3	4	6	8	12	24
■	☐	☐	☐	☐	☐	☐	☐

- [ ] Month
- [■] Period
- [ ] Annual

Exponential Decay

Default half-life values will be used

Terrain Height Options

- [ ] Flat
- [■] Elevated

SO: Meters
RE: Meters
TG: Meters

Flagpole Receptors

- [ ] Yes
- [■] No

Default Height = 0.00 m

Control Pathway

Optional Files

Re-Start File	Init File	Multi-Year Analyses	Event Input File	Error Listing File
☐	☐	☐	☐	■

Detailed Error Listing File

Filename: Carm_Run.err

Source Pathway - Source Inputs

Polygon Area Sources

Source Type: AREA POLY

Source: PAREA1 (Area Source)

Base Elevation (Optional)	Release Height [m]	Emission Rate [g/ (s-m^2)]	Initial Vertical Dim. [m]	Number of Vertices (or sides)	X Coordinate for Vertices [m]	Y Coordinate for Vertices [m]
24.24	3.11	5.50E-8		8	403418.87	3751225.66
		5.50E-8			403418.21	3751082.28
		5.50E-8			403620.12	3751080.97
		5.50E-8			403620.12	3751032.95
		5.50E-8			403632.95	3751032.95
		5.50E-8			403634.26	3751123.39
		5.50E-8			403600.39	3751124.38
		5.50E-8			403600.72	3751223.69

Source Pathway - Source Inputs

Line Area Sources

Source Type: LINE AREA

Source: ARLN4 (Offsite 2: 50% I-5 North)

Length of Side [m]	Emission Rate [g/ (s-m^2)]	Initial Vertical Dimension [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
3.50	3.42E-11	2.46	403203.17	3750930.87	32.00	2.64
			402952.82	3751078.91	25.50	2.64
			402815.31	3751175.96	25.21	2.64

Source Type: LINE AREA

Source: ARLN5 (Offsite 3: 50% I-5 South)

Length of Side [m]	Emission Rate [g/ (s-m^2)]	Initial Vertical Dimension [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
3.50	3.42E-11	2.46	403203.76	3750931.65	31.98	2.64
			403186.00	3750799.14	23.32	2.64
			403370.42	3750692.59	24.40	2.64
			403413.13	3750666.94	23.47	2.64
			403581.24	3750577.46	22.56	2.64

Source Type: LINE AREA

Source: ARLN7 (Onsite 5mph)

Length of Side [m]	Emission Rate [g/ (s-m^2)]	Initial Vertical Dimension [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
13.00	4.28E-11	2.46	403516.40	3751131.03	23.27	2.64
			403516.81	3751092.15	23.15	2.64
			403625.58	3751091.74	22.97	2.64
			403627.23	3751022.67	22.65	2.64

Source Pathway - Source Inputs

Source Type: LINE AREA

Source: ARLN8 (Offsite 1: 100%)

Length of Side [m]	Emission Rate [g/ (s-m^2)]	Initial Vertical Dimension [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
13.00	1.84E-11	2.46	403625.73	3751024.91	22.66	2.64
			403215.13	3751024.91	27.35	2.64
			403203.14	3750931.83	31.99	2.64

Source Pathway - Source Inputs

Area Sources Generated from Line Sources

Line Source ID	Area Source ID	X Coordinate [m]	Y Coordinate [m]	Release Height [m]	Length of Side [m]	Angle [deg]	Base Elevation [m]	Initial Sigma Z [m]
ARLN4	A0000047	403204.06	3750932.37	2.64	32.32	210.60	32.01	2.46
	A0000048	403176.25	3750948.82	2.64	32.32	210.60	31.95	2.46
	A0000049	403148.43	3750965.27	2.64	32.32	210.60	24.57	2.46
	A0000050	403120.61	3750981.72	2.64	32.32	210.60	24.70	2.46
	A0000051	403092.80	3750998.17	2.64	32.32	210.60	25.59	2.46
	A0000052	403064.98	3751014.62	2.64	32.32	210.60	26.72	2.46
	A0000053	403037.16	3751031.07	2.64	32.32	210.60	26.00	2.46
	A0000054	403009.35	3751047.52	2.64	32.32	210.60	25.41	2.46
	A0000055	402981.53	3751063.96	2.64	32.32	210.60	25.23	2.46
	A0000056	402953.83	3751080.34	2.64	33.66	215.21	25.23	2.46
	A0000057	402926.33	3751099.75	2.64	33.66	215.21	25.25	2.46
	A0000058	402898.83	3751119.16	2.64	33.66	215.21	25.31	2.46
	A0000059	402871.32	3751138.57	2.64	33.66	215.21	25.25	2.46
	A0000060	402843.82	3751157.98	2.64	33.66	215.21	25.16	2.46

Line Source ID	Area Source ID	X Coordinate [m]	Y Coordinate [m]	Release Height [m]	Length of Side [m]	Angle [deg]	Base Elevation [m]	Initial Sigma Z [m]
ARLN8	A0000061	403625.73	3751031.41	2.64	102.65	180.00	22.70	2.46
	A0000062	403523.08	3751031.41	2.64	102.65	180.00	22.94	2.46
	A0000063	403420.43	3751031.41	2.64	102.65	180.00	23.23	2.46
	A0000064	403317.78	3751031.41	2.64	102.65	180.00	23.65	2.46
	A0000065	403208.69	3751025.74	2.64	93.85	97.34	28.05	2.46

Line Source ID	Area Source ID	X Coordinate [m]	Y Coordinate [m]	Release Height [m]	Length of Side [m]	Angle [deg]	Base Elevation [m]	Initial Sigma Z [m]

Source Pathway - Source Inputs

AERMOD

Line Source ID	Area Source ID	X Coordinate [m]	Y Coordinate [m]	Release Height [m]	Length of Side [m]	Angle [deg]	Base Elevation [m]	Initial Sigma Z [m]
ARLN5	A0000066	403202.03	3750931.88	2.64	33.42	97.63	32.07	2.46
	A0000067	403197.59	3750898.75	2.64	33.42	97.63	24.73	2.46
	A0000068	403193.15	3750865.63	2.64	33.42	97.63	24.85	2.46
	A0000069	403188.71	3750832.50	2.64	33.42	97.63	24.68	2.46
	A0000070	403185.13	3750797.63	2.64	30.43	30.02	23.37	2.46
	A0000071	403211.47	3750782.40	2.64	30.43	30.02	24.76	2.46
	A0000072	403237.82	3750767.18	2.64	30.43	30.02	24.66	2.46
	A0000073	403264.16	3750751.96	2.64	30.43	30.02	24.67	2.46
	A0000074	403290.51	3750736.74	2.64	30.43	30.02	24.65	2.46
	A0000075	403316.85	3750721.52	2.64	30.43	30.02	24.26	2.46
	A0000076	403343.20	3750706.30	2.64	30.43	30.02	24.15	2.46
	A0000077	403369.52	3750691.09	2.64	24.91	30.98	24.36	2.46
	A0000078	403390.87	3750678.27	2.64	24.91	30.98	23.73	2.46
	A0000079	403412.31	3750665.40	2.64	31.74	28.03	23.57	2.46
	A0000080	403440.33	3750650.49	2.64	31.74	28.03	23.38	2.46
	A0000081	403468.35	3750635.57	2.64	31.74	28.03	23.54	2.46
	A0000082	403496.36	3750620.66	2.64	31.74	28.03	22.94	2.46
	A0000083	403524.38	3750605.74	2.64	31.74	28.03	22.79	2.46
	A0000084	403552.40	3750590.83	2.64	31.74	28.03	22.80	2.46

Line Source ID	Area Source ID	X Coordinate [m]	Y Coordinate [m]	Release Height [m]	Length of Side [m]	Angle [deg]	Base Elevation [m]	Initial Sigma Z [m]
ARLN7	A0000085	403509.90	3751130.96	2.64	38.88	89.39	23.34	2.46
	A0000086	403516.79	3751085.65	2.64	108.77	0.22	23.21	2.46
	A0000087	403619.08	3751091.58	2.64	69.09	88.63	22.97	2.46

Receptor Pathway

Receptor Networks

Note: Terrain Elavations and Flagpole Heights for Network Grids are in Page RE2 - 1 (If applicable)
Generated Discrete Receptors for Multi-Tier (Risk) Grid and Receptor Locations for Fenceline Grid are in Page RE3 - 1 (If applicable)

Uniform Cartesian Grid

Receptor Network ID	Grid Origin X Coordinate [m]	Grid Origin Y Coordinate [m]	No. of X-Axis Receptors	No. of Y-Axis Receptors	Spacing for X-Axis [m]	Spacing for Y-Axis [m]
UCART1	402234.13	3749205.80	25	40	101.87	101.01

Discrete Receptors

Discrete Cartesian Receptors

Record Number	X-Coordinate [m]	Y-Coordinate [m]	Group Name (Optional)	Terrain Elevations	Flagpole Heights [m] (Optional)
1	403008.61	3751235.14		24.46	
2	403210.21	3751439.36		25.01	
3	403635.16	3751113.73		23.03	
4	403415.16	3751147.23		24.41	
5	403600.54	3751145.56		23.24	
6	403633.48	3751038.35		22.83	

Plant Boundary Receptors

Discrete Cartesian Receptors (ARC) for EVALFILE Output

Record Number	X-Coordinate [m]	Y-Coordinate [m]	Group Name (Optional)	Terrain Elevations	Flagpole Heights [m] (Optional)
4	403008.39	3751234.87	ARCREC	24.46	
5	403210.21	3751439.62	ARCREC	25.01	

Receptor Groups

Record Number	Group ID	Group Description
1	NESTED	Nested Grid receptors
2	ARCREC	Discrete Cartesian Receptors for EVALFILE Output
3	Worker	Workers

Receptor Pathway

Terrain Elevations and Flagpole Heights for Network Grids

Uniform Cartesian Grid

Receptor Network ID	Location: X-Coordinate [m]	Location: Y-Coordinate [m]	Terrain Elevations (Optional)	Flagpole Heights (Optional)
UCART1	402234.13	3749205.80	18.60	Option not Selected
	402336.00	3749205.80	18.70	
	402437.87	3749205.80	18.70	
	402539.74	3749205.80	19.50	
	402641.61	3749205.80	19.40	
	402743.48	3749205.80	19.40	
	402845.35	3749205.80	19.60	
	402947.22	3749205.80	19.70	
	403049.09	3749205.80	19.40	
	403150.96	3749205.80	19.60	
	403252.83	3749205.80	20.50	
	403354.70	3749205.80	20.50	
	403456.57	3749205.80	19.70	
	403558.44	3749205.80	18.80	
	403660.31	3749205.80	18.60	
	403762.18	3749205.80	19.20	
	403864.05	3749205.80	18.90	
	403965.92	3749205.80	18.90	
	404067.79	3749205.80	19.20	
	404169.66	3749205.80	18.00	
	404271.53	3749205.80	17.80	
	404373.40	3749205.80	18.00	
	404475.27	3749205.80	12.40	
	404577.14	3749205.80	18.00	
	404679.01	3749205.80	17.80	
	402234.13	3749306.81	18.80	
	402336.00	3749306.81	18.60	
	402437.87	3749306.81	19.30	
	402539.74	3749306.81	19.40	
	402641.61	3749306.81	20.10	
	402743.48	3749306.81	20.40	
	402845.35	3749306.81	19.60	
	402947.22	3749306.81	19.60	
	403049.09	3749306.81	19.70	
	403150.96	3749306.81	19.90	
	403252.83	3749306.81	20.50	
	403354.70	3749306.81	20.80	
	403456.57	3749306.81	19.60	
	403558.44	3749306.81	19.70	
	403660.31	3749306.81	19.20	
	403762.18	3749306.81	19.90	
	403864.05	3749306.81	19.70	
	403965.92	3749306.81	19.80	
	404067.79	3749306.81	19.20	
	404169.66	3749306.81	19.00	

Receptor Pathway

AERMOD

Receptor Network ID	Location: X-Coordinate [m]	Location: Y-Coordinate [m]	Terrain Elevations (Optional)	Flagpole Heights (Optional)
UCART1	404271.53	3749306.81	18.20	Option not Selected
	404373.40	3749306.81	18.40	
	404475.27	3749306.81	12.50	
	404577.14	3749306.81	17.60	
	404679.01	3749306.81	17.50	
	402234.13	3749407.82	19.10	
	402336.00	3749407.82	19.10	
	402437.87	3749407.82	19.00	
	402539.74	3749407.82	19.20	
	402641.61	3749407.82	19.20	
	402743.48	3749407.82	19.10	
	402845.35	3749407.82	19.10	
	402947.22	3749407.82	19.20	
	403049.09	3749407.82	19.50	
	403150.96	3749407.82	19.70	
	403252.83	3749407.82	20.10	
	403354.70	3749407.82	20.90	
	403456.57	3749407.82	20.80	
	403558.44	3749407.82	20.20	
	403660.31	3749407.82	19.70	
	403762.18	3749407.82	19.80	
	403864.05	3749407.82	19.80	
	403965.92	3749407.82	19.50	
	404067.79	3749407.82	19.00	
	404169.66	3749407.82	18.30	
	404271.53	3749407.82	18.10	
	404373.40	3749407.82	18.30	
	404475.27	3749407.82	12.60	
	404577.14	3749407.82	18.00	
	404679.01	3749407.82	17.20	
	402234.13	3749508.83	19.20	
	402336.00	3749508.83	19.70	
	402437.87	3749508.83	19.80	
	402539.74	3749508.83	19.50	
	402641.61	3749508.83	19.30	
	402743.48	3749508.83	19.60	
	402845.35	3749508.83	19.60	
	402947.22	3749508.83	19.90	
	403049.09	3749508.83	20.10	
	403150.96	3749508.83	20.00	
	403252.83	3749508.83	20.50	
	403354.70	3749508.83	20.80	
	403456.57	3749508.83	20.80	
	403558.44	3749508.83	20.40	
	403660.31	3749508.83	20.50	
	403762.18	3749508.83	20.10	
	403864.05	3749508.83	20.70	
	403965.92	3749508.83	20.00	

Receptor Pathway

AERMOD

Receptor Network ID	Location: X-Coordinate [m]	Location: Y-Coordinate [m]	Terrain Elevations (Optional)	Flagpole Heights (Optional)
UCART1	404067.79	3749508.83	19.60	Option not Selected
	404169.66	3749508.83	19.40	
	404271.53	3749508.83	17.80	
	404373.40	3749508.83	18.40	
	404475.27	3749508.83	12.90	
	404577.14	3749508.83	17.70	
	404679.01	3749508.83	17.50	
	402234.13	3749609.84	19.10	
	402336.00	3749609.84	19.20	
	402437.87	3749609.84	19.60	
	402539.74	3749609.84	19.40	
	402641.61	3749609.84	19.10	
	402743.48	3749609.84	19.20	
	402845.35	3749609.84	19.30	
	402947.22	3749609.84	19.50	
	403049.09	3749609.84	20.30	
	403150.96	3749609.84	20.70	
	403252.83	3749609.84	20.90	
	403354.70	3749609.84	20.80	
	403456.57	3749609.84	21.30	
	403558.44	3749609.84	20.90	
	403660.31	3749609.84	20.30	
	403762.18	3749609.84	20.00	
	403864.05	3749609.84	20.40	
	403965.92	3749609.84	19.80	
	404067.79	3749609.84	19.90	
	404169.66	3749609.84	20.20	
	404271.53	3749609.84	19.10	
	404373.40	3749609.84	18.80	
	404475.27	3749609.84	13.20	
	404577.14	3749609.84	17.70	
	404679.01	3749609.84	18.10	
	402234.13	3749710.85	20.10	
	402336.00	3749710.85	20.30	
	402437.87	3749710.85	20.50	
	402539.74	3749710.85	19.90	
	402641.61	3749710.85	20.20	
	402743.48	3749710.85	20.10	
	402845.35	3749710.85	20.70	
	402947.22	3749710.85	20.70	
	403049.09	3749710.85	20.50	
	403150.96	3749710.85	21.10	
	403252.83	3749710.85	21.30	
	403354.70	3749710.85	21.60	
	403456.57	3749710.85	21.30	
	403558.44	3749710.85	21.10	
	403660.31	3749710.85	21.10	
	403762.18	3749710.85	20.70	

Receptor Pathway

AERMOD

Receptor Network ID	Location: X-Coordinate [m]	Location: Y-Coordinate [m]	Terrain Elevations (Optional)	Flagpole Heights (Optional)
UCART1	403864.05	3749710.85	20.20	Option not Selected
	403965.92	3749710.85	19.90	
	404067.79	3749710.85	20.00	
	404169.66	3749710.85	20.10	
	404271.53	3749710.85	17.60	
	404373.40	3749710.85	17.50	
	404475.27	3749710.85	13.50	
	404577.14	3749710.85	18.80	
	404679.01	3749710.85	19.20	
	402234.13	3749811.86	20.00	
	402336.00	3749811.86	19.90	
	402437.87	3749811.86	19.60	
	402539.74	3749811.86	20.20	
	402641.61	3749811.86	20.90	
	402743.48	3749811.86	21.40	
	402845.35	3749811.86	20.70	
	402947.22	3749811.86	20.70	
	403049.09	3749811.86	20.50	
	403150.96	3749811.86	20.80	
	403252.83	3749811.86	21.40	
	403354.70	3749811.86	21.50	
	403456.57	3749811.86	21.50	
	403558.44	3749811.86	21.50	
	403660.31	3749811.86	21.80	
	403762.18	3749811.86	21.80	
	403864.05	3749811.86	21.20	
	403965.92	3749811.86	20.90	
	404067.79	3749811.86	20.70	
	404169.66	3749811.86	19.50	
	404271.53	3749811.86	19.10	
	404373.40	3749811.86	18.20	
	404475.27	3749811.86	13.80	
	404577.14	3749811.86	19.00	
	404679.01	3749811.86	18.70	
	402234.13	3749912.87	19.80	
	402336.00	3749912.87	19.80	
	402437.87	3749912.87	20.40	
	402539.74	3749912.87	19.70	
	402641.61	3749912.87	20.60	
	402743.48	3749912.87	20.80	
	402845.35	3749912.87	20.80	
	402947.22	3749912.87	20.80	
	403049.09	3749912.87	20.80	
	403150.96	3749912.87	21.10	
	403252.83	3749912.87	21.50	
	403354.70	3749912.87	21.50	
	403456.57	3749912.87	21.30	
	403558.44	3749912.87	21.10	

Receptor Pathway

AERMOD

Receptor Network ID	Location: X-Coordinate [m]	Location: Y-Coordinate [m]	Terrain Elevations (Optional)	Flagpole Heights (Optional)
UCART1	403660.31	3749912.87	21.20	Option not Selected
	403762.18	3749912.87	20.80	
	403864.05	3749912.87	20.80	
	403965.92	3749912.87	20.40	
	404067.79	3749912.87	20.70	
	404169.66	3749912.87	20.00	
	404271.53	3749912.87	19.30	
	404373.40	3749912.87	19.70	
	404475.27	3749912.87	14.90	
	404577.14	3749912.87	19.00	
	404679.01	3749912.87	19.70	
	402234.13	3750013.88	20.00	
	402336.00	3750013.88	20.80	
	402437.87	3750013.88	20.40	
	402539.74	3750013.88	20.60	
	402641.61	3750013.88	21.00	
	402743.48	3750013.88	20.80	
	402845.35	3750013.88	21.60	
	402947.22	3750013.88	21.40	
	403049.09	3750013.88	20.80	
	403150.96	3750013.88	21.60	
	403252.83	3750013.88	21.50	
	403354.70	3750013.88	21.90	
	403456.57	3750013.88	21.50	
	403558.44	3750013.88	21.90	
	403660.31	3750013.88	21.50	
	403762.18	3750013.88	20.50	
	403864.05	3750013.88	21.20	
	403965.92	3750013.88	20.60	
	404067.79	3750013.88	20.40	
	404169.66	3750013.88	19.60	
	404271.53	3750013.88	20.60	
	404373.40	3750013.88	20.20	
	404475.27	3750013.88	14.00	
	404577.14	3750013.88	20.80	
	404679.01	3750013.88	19.80	
	402234.13	3750114.89	21.40	
	402336.00	3750114.89	21.30	
	402437.87	3750114.89	20.90	
	402539.74	3750114.89	21.40	
	402641.61	3750114.89	21.10	
	402743.48	3750114.89	20.70	
	402845.35	3750114.89	21.70	
	402947.22	3750114.89	21.80	
	403049.09	3750114.89	21.90	
	403150.96	3750114.89	21.90	
	403252.83	3750114.89	21.90	
	403354.70	3750114.89	22.20	

Receptor Pathway

AERMOD

Receptor Network ID	Location: X-Coordinate [m]	Location: Y-Coordinate [m]	Terrain Elevations (Optional)	Flagpole Heights (Optional)
UCART1	403456.57	3750114.89	22.00	Option not Selected
	403558.44	3750114.89	22.50	
	403660.31	3750114.89	22.00	
	403762.18	3750114.89	20.80	
	403864.05	3750114.89	21.20	
	403965.92	3750114.89	21.20	
	404067.79	3750114.89	20.10	
	404169.66	3750114.89	20.50	
	404271.53	3750114.89	20.20	
	404373.40	3750114.89	22.30	
	404475.27	3750114.89	14.00	
	404577.14	3750114.89	20.00	
	404679.01	3750114.89	19.70	
	402234.13	3750215.90	22.00	
	402336.00	3750215.90	21.80	
	402437.87	3750215.90	21.60	
	402539.74	3750215.90	21.30	
	402641.61	3750215.90	21.10	
	402743.48	3750215.90	21.60	
	402845.35	3750215.90	22.40	
	402947.22	3750215.90	22.40	
	403049.09	3750215.90	22.20	
	403150.96	3750215.90	21.90	
	403252.83	3750215.90	22.10	
	403354.70	3750215.90	22.50	
	403456.57	3750215.90	22.80	
	403558.44	3750215.90	22.40	
	403660.31	3750215.90	22.00	
	403762.18	3750215.90	21.70	
	403864.05	3750215.90	21.10	
	403965.92	3750215.90	21.00	
	404067.79	3750215.90	23.60	
	404169.66	3750215.90	20.70	
	404271.53	3750215.90	25.50	
	404373.40	3750215.90	26.20	
	404475.27	3750215.90	14.10	
	404577.14	3750215.90	20.00	
	404679.01	3750215.90	20.00	
	402234.13	3750316.91	22.50	
	402336.00	3750316.91	22.00	
	402437.87	3750316.91	22.00	
	402539.74	3750316.91	21.10	
	402641.61	3750316.91	21.20	
	402743.48	3750316.91	22.60	
	402845.35	3750316.91	22.10	
	402947.22	3750316.91	22.80	
	403049.09	3750316.91	22.90	
	403150.96	3750316.91	22.70	

Receptor Pathway

AERMOD

Receptor Network ID	Location: X-Coordinate [m]	Location: Y-Coordinate [m]	Terrain Elevations (Optional)	Flagpole Heights (Optional)
UCART1	403252.83	3750316.91	22.80	Option not Selected
	403354.70	3750316.91	22.90	
	403456.57	3750316.91	23.00	
	403558.44	3750316.91	22.70	
	403660.31	3750316.91	22.10	
	403762.18	3750316.91	21.60	
	403864.05	3750316.91	21.20	
	403965.92	3750316.91	21.20	
	404067.79	3750316.91	21.00	
	404169.66	3750316.91	18.40	
	404271.53	3750316.91	19.90	
	404373.40	3750316.91	20.20	
	404475.27	3750316.91	14.30	
	404577.14	3750316.91	20.50	
	404679.01	3750316.91	20.50	
	402234.13	3750417.92	22.10	
	402336.00	3750417.92	22.20	
	402437.87	3750417.92	22.70	
	402539.74	3750417.92	21.70	
	402641.61	3750417.92	21.70	
	402743.48	3750417.92	21.60	
	402845.35	3750417.92	22.40	
	402947.22	3750417.92	23.10	
	403049.09	3750417.92	23.20	
	403150.96	3750417.92	23.10	
	403252.83	3750417.92	23.40	
	403354.70	3750417.92	23.10	
	403456.57	3750417.92	23.50	
	403558.44	3750417.92	22.70	
	403660.31	3750417.92	22.50	
	403762.18	3750417.92	22.20	
	403864.05	3750417.92	21.80	
	403965.92	3750417.92	21.10	
	404067.79	3750417.92	21.80	
	404169.66	3750417.92	21.10	
	404271.53	3750417.92	20.40	
	404373.40	3750417.92	20.90	
	404475.27	3750417.92	14.80	
	404577.14	3750417.92	20.20	
	404679.01	3750417.92	20.10	
	402234.13	3750518.93	22.30	
	402336.00	3750518.93	22.30	
	402437.87	3750518.93	22.60	
	402539.74	3750518.93	22.40	
	402641.61	3750518.93	22.40	
	402743.48	3750518.93	23.30	
	402845.35	3750518.93	23.30	
	402947.22	3750518.93	23.30	

Receptor Pathway

AERMOD

Receptor Network ID	Location: X-Coordinate [m]	Location: Y-Coordinate [m]	Terrain Elevations (Optional)	Flagpole Heights (Optional)
UCART1	403049.09	3750518.93	23.30	Option not Selected
	403150.96	3750518.93	23.30	
	403252.83	3750518.93	23.40	
	403354.70	3750518.93	23.60	
	403456.57	3750518.93	23.00	
	403558.44	3750518.93	23.30	
	403660.31	3750518.93	22.20	
	403762.18	3750518.93	22.20	
	403864.05	3750518.93	21.30	
	403965.92	3750518.93	21.00	
	404067.79	3750518.93	22.00	
	404169.66	3750518.93	21.10	
	404271.53	3750518.93	20.40	
	404373.40	3750518.93	20.50	
	404475.27	3750518.93	15.30	
	404577.14	3750518.93	20.30	
	404679.01	3750518.93	20.90	
	402234.13	3750619.94	22.30	
	402336.00	3750619.94	22.50	
	402437.87	3750619.94	22.50	
	402539.74	3750619.94	22.50	
	402641.61	3750619.94	22.60	
	402743.48	3750619.94	22.70	
	402845.35	3750619.94	23.30	
	402947.22	3750619.94	23.20	
	403049.09	3750619.94	23.30	
	403150.96	3750619.94	23.80	
	403252.83	3750619.94	23.50	
	403354.70	3750619.94	23.70	
	403456.57	3750619.94	24.80	
	403558.44	3750619.94	23.20	
	403660.31	3750619.94	22.10	
	403762.18	3750619.94	21.70	
	403864.05	3750619.94	21.90	
	403965.92	3750619.94	20.90	
	404067.79	3750619.94	21.90	
	404169.66	3750619.94	21.10	
	404271.53	3750619.94	20.90	
	404373.40	3750619.94	21.40	
	404475.27	3750619.94	15.60	
	404577.14	3750619.94	21.60	
	404679.01	3750619.94	20.10	
	402234.13	3750720.95	22.50	
	402336.00	3750720.95	22.60	
	402437.87	3750720.95	22.70	
	402539.74	3750720.95	23.40	
	402641.61	3750720.95	23.50	
	402743.48	3750720.95	23.60	

Receptor Pathway

AERMOD

Receptor Network ID	Location: X-Coordinate [m]	Location: Y-Coordinate [m]	Terrain Elevations (Optional)	Flagpole Heights (Optional)
UCART1	402845.35	3750720.95	23.70	Option not Selected
	402947.22	3750720.95	23.70	
	403049.09	3750720.95	23.70	
	403150.96	3750720.95	24.00	
	403252.83	3750720.95	24.70	
	403354.70	3750720.95	23.70	
	403456.57	3750720.95	23.40	
	403558.44	3750720.95	23.10	
	403660.31	3750720.95	22.10	
	403762.18	3750720.95	21.90	
	403864.05	3750720.95	22.20	
	403965.92	3750720.95	21.10	
	404067.79	3750720.95	22.10	
	404169.66	3750720.95	22.10	
	404271.53	3750720.95	21.50	
	404373.40	3750720.95	21.60	
	404475.27	3750720.95	19.20	
	404577.14	3750720.95	22.30	
	404679.01	3750720.95	22.50	
	402234.13	3750821.96	22.70	
	402336.00	3750821.96	23.00	
	402437.87	3750821.96	22.80	
	402539.74	3750821.96	22.90	
	402641.61	3750821.96	23.20	
	402743.48	3750821.96	23.30	
	402845.35	3750821.96	23.40	
	402947.22	3750821.96	23.40	
	403049.09	3750821.96	24.60	
	403150.96	3750821.96	24.00	
	403252.83	3750821.96	24.70	
	403354.70	3750821.96	24.70	
	403456.57	3750821.96	22.90	
	403558.44	3750821.96	23.20	
	403660.31	3750821.96	22.70	
	403762.18	3750821.96	22.30	
	403864.05	3750821.96	21.60	
	403965.92	3750821.96	21.20	
	404067.79	3750821.96	21.40	
	404169.66	3750821.96	21.60	
	404271.53	3750821.96	22.00	
	404373.40	3750821.96	21.70	
	404475.27	3750821.96	23.60	
	404577.14	3750821.96	23.60	
	404679.01	3750821.96	24.10	
	402234.13	3750922.97	23.20	
	402336.00	3750922.97	23.30	
	402437.87	3750922.97	23.30	
	402539.74	3750922.97	23.50	

Receptor Pathway

AERMOD

Receptor Network ID	Location: X-Coordinate [m]	Location: Y-Coordinate [m]	Terrain Elevations (Optional)	Flagpole Heights (Optional)
UCART1	402641.61	3750922.97	23.50	Option not Selected
	402743.48	3750922.97	23.60	
	402845.35	3750922.97	23.90	
	402947.22	3750922.97	24.90	
	403049.09	3750922.97	25.10	
	403150.96	3750922.97	25.00	
	403252.83	3750922.97	24.60	
	403354.70	3750922.97	24.30	
	403456.57	3750922.97	23.30	
	403558.44	3750922.97	23.40	
	403660.31	3750922.97	22.50	
	403762.18	3750922.97	22.20	
	403864.05	3750922.97	21.70	
	403965.92	3750922.97	21.50	
	404067.79	3750922.97	21.50	
	404169.66	3750922.97	21.80	
	404271.53	3750922.97	22.20	
	404373.40	3750922.97	23.30	
	404475.27	3750922.97	23.90	
	404577.14	3750922.97	23.30	
	404679.01	3750922.97	23.80	
	402234.13	3751023.98	23.60	
	402336.00	3751023.98	23.20	
	402437.87	3751023.98	23.00	
	402539.74	3751023.98	23.30	
	402641.61	3751023.98	23.60	
	402743.48	3751023.98	23.80	
	402845.35	3751023.98	25.10	
	402947.22	3751023.98	24.90	
	403049.09	3751023.98	26.40	
	403150.96	3751023.98	24.80	
	403252.83	3751023.98	26.00	
	403354.70	3751023.98	23.50	
	403456.57	3751023.98	23.10	
	403558.44	3751023.98	22.80	
	403660.31	3751023.98	22.50	
	403762.18	3751023.98	21.90	
	403864.05	3751023.98	21.60	
	403965.92	3751023.98	21.40	
	404067.79	3751023.98	21.70	
	404169.66	3751023.98	22.40	
	404271.53	3751023.98	21.50	
	404373.40	3751023.98	23.80	
	404475.27	3751023.98	23.90	
	404577.14	3751023.98	24.00	
	404679.01	3751023.98	24.00	
	402234.13	3751124.99	24.90	
	402336.00	3751124.99	24.00	

Receptor Pathway

AERMOD

Receptor Network ID	Location: X-Coordinate [m]	Location: Y-Coordinate [m]	Terrain Elevations (Optional)	Flagpole Heights (Optional)
UCART1	402437.87	3751124.99	23.60	Option not Selected
	402539.74	3751124.99	23.80	
	402641.61	3751124.99	24.20	
	402743.48	3751124.99	23.80	
	402845.35	3751124.99	25.70	
	402947.22	3751124.99	24.70	
	403049.09	3751124.99	25.50	
	403150.96	3751124.99	25.40	
	403252.83	3751124.99	24.60	
	403354.70	3751124.99	24.30	
	403456.57	3751124.99	23.60	
	403558.44	3751124.99	23.50	
	403660.31	3751124.99	23.10	
	403762.18	3751124.99	22.40	
	403864.05	3751124.99	22.20	
	403965.92	3751124.99	22.10	
	404067.79	3751124.99	22.10	
	404169.66	3751124.99	18.20	
	404271.53	3751124.99	24.20	
	404373.40	3751124.99	23.50	
	404475.27	3751124.99	23.90	
	404577.14	3751124.99	23.90	
	404679.01	3751124.99	24.70	
	402234.13	3751226.00	24.50	
	402336.00	3751226.00	23.90	
	402437.87	3751226.00	24.30	
	402539.74	3751226.00	24.10	
	402641.61	3751226.00	24.30	
	402743.48	3751226.00	24.70	
	402845.35	3751226.00	24.60	
	402947.22	3751226.00	24.80	
	403049.09	3751226.00	25.60	
	403150.96	3751226.00	25.40	
	403252.83	3751226.00	24.70	
	403354.70	3751226.00	24.60	
	403456.57	3751226.00	23.90	
	403558.44	3751226.00	23.40	
	403660.31	3751226.00	22.70	
	403762.18	3751226.00	22.40	
	403864.05	3751226.00	22.50	
	403965.92	3751226.00	22.60	
	404067.79	3751226.00	18.20	
	404169.66	3751226.00	24.00	
	404271.53	3751226.00	23.80	
	404373.40	3751226.00	23.80	
	404475.27	3751226.00	23.80	
	404577.14	3751226.00	24.40	
	404679.01	3751226.00	25.80	

Receptor Pathway

AERMOD

Receptor Network ID	Location: X-Coordinate [m]	Location: Y-Coordinate [m]	Terrain Elevations (Optional)	Flagpole Heights (Optional)
UCART1	402234.13	3751327.01	24.40	Option not Selected
	402336.00	3751327.01	23.90	
	402437.87	3751327.01	24.20	
	402539.74	3751327.01	24.50	
	402641.61	3751327.01	23.90	
	402743.48	3751327.01	24.00	
	402845.35	3751327.01	24.60	
	402947.22	3751327.01	24.60	
	403049.09	3751327.01	25.90	
	403150.96	3751327.01	25.40	
	403252.83	3751327.01	24.90	
	403354.70	3751327.01	24.30	
	403456.57	3751327.01	23.90	
	403558.44	3751327.01	23.30	
	403660.31	3751327.01	22.60	
	403762.18	3751327.01	22.90	
	403864.05	3751327.01	22.80	
	403965.92	3751327.01	20.50	
	404067.79	3751327.01	23.70	
	404169.66	3751327.01	24.10	
	404271.53	3751327.01	23.90	
	404373.40	3751327.01	24.20	
	404475.27	3751327.01	24.50	
	404577.14	3751327.01	24.80	
	404679.01	3751327.01	25.70	
	402234.13	3751428.02	25.30	
	402336.00	3751428.02	24.60	
	402437.87	3751428.02	24.40	
	402539.74	3751428.02	24.30	
	402641.61	3751428.02	24.10	
	402743.48	3751428.02	24.20	
	402845.35	3751428.02	24.40	
	402947.22	3751428.02	24.60	
	403049.09	3751428.02	24.80	
	403150.96	3751428.02	24.90	
	403252.83	3751428.02	25.20	
	403354.70	3751428.02	25.10	
	403456.57	3751428.02	24.10	
	403558.44	3751428.02	23.50	
	403660.31	3751428.02	23.30	
	403762.18	3751428.02	22.90	
	403864.05	3751428.02	23.50	
	403965.92	3751428.02	23.90	
	404067.79	3751428.02	24.10	
	404169.66	3751428.02	24.80	
	404271.53	3751428.02	24.40	
	404373.40	3751428.02	24.60	
	404475.27	3751428.02	25.30	

Receptor Pathway

AERMOD

Receptor Network ID	Location: X-Coordinate [m]	Location: Y-Coordinate [m]	Terrain Elevations (Optional)	Flagpole Heights (Optional)
UCART1	404577.14	3751428.02	26.10	Option not Selected
	404679.01	3751428.02	29.20	
	402234.13	3751529.03	25.60	
	402336.00	3751529.03	24.40	
	402437.87	3751529.03	24.30	
	402539.74	3751529.03	24.50	
	402641.61	3751529.03	24.50	
	402743.48	3751529.03	24.20	
	402845.35	3751529.03	24.70	
	402947.22	3751529.03	25.10	
	403049.09	3751529.03	25.10	
	403150.96	3751529.03	25.00	
	403252.83	3751529.03	25.10	
	403354.70	3751529.03	24.90	
	403456.57	3751529.03	24.40	
	403558.44	3751529.03	23.50	
	403660.31	3751529.03	23.00	
	403762.18	3751529.03	23.40	
	403864.05	3751529.03	24.50	
	403965.92	3751529.03	24.00	
	404067.79	3751529.03	24.50	
	404169.66	3751529.03	25.00	
	404271.53	3751529.03	24.60	
	404373.40	3751529.03	24.90	
	404475.27	3751529.03	29.10	
	404577.14	3751529.03	29.80	
	404679.01	3751529.03	30.80	
	402234.13	3751630.04	25.00	
	402336.00	3751630.04	24.80	
	402437.87	3751630.04	24.90	
	402539.74	3751630.04	24.70	
	402641.61	3751630.04	24.70	
	402743.48	3751630.04	24.40	
	402845.35	3751630.04	24.90	
	402947.22	3751630.04	25.10	
	403049.09	3751630.04	25.30	
	403150.96	3751630.04	25.20	
	403252.83	3751630.04	25.50	
	403354.70	3751630.04	25.50	
	403456.57	3751630.04	24.70	
	403558.44	3751630.04	23.60	
	403660.31	3751630.04	23.60	
	403762.18	3751630.04	20.40	
	403864.05	3751630.04	24.00	
	403965.92	3751630.04	24.20	
	404067.79	3751630.04	25.30	
	404169.66	3751630.04	25.30	
	404271.53	3751630.04	25.30	

Receptor Pathway

AERMOD

Receptor Network ID	Location: X-Coordinate [m]	Location: Y-Coordinate [m]	Terrain Elevations (Optional)	Flagpole Heights (Optional)
UCART1	404373.40	3751630.04	27.90	Option not Selected
	404475.27	3751630.04	29.00	
	404577.14	3751630.04	30.50	
	404679.01	3751630.04	31.30	
	402234.13	3751731.05	25.80	
	402336.00	3751731.05	25.50	
	402437.87	3751731.05	25.10	
	402539.74	3751731.05	24.70	
	402641.61	3751731.05	24.40	
	402743.48	3751731.05	24.50	
	402845.35	3751731.05	25.10	
	402947.22	3751731.05	25.60	
	403049.09	3751731.05	25.80	
	403150.96	3751731.05	25.40	
	403252.83	3751731.05	25.70	
	403354.70	3751731.05	25.80	
	403456.57	3751731.05	25.20	
	403558.44	3751731.05	24.50	
	403660.31	3751731.05	25.40	
	403762.18	3751731.05	25.30	
	403864.05	3751731.05	24.80	
	403965.92	3751731.05	25.30	
	404067.79	3751731.05	27.10	
	404169.66	3751731.05	28.20	
	404271.53	3751731.05	28.20	
	404373.40	3751731.05	28.60	
	404475.27	3751731.05	30.00	
	404577.14	3751731.05	31.20	
	404679.01	3751731.05	31.80	
	402234.13	3751832.06	26.10	
	402336.00	3751832.06	25.90	
	402437.87	3751832.06	25.60	
	402539.74	3751832.06	25.30	
	402641.61	3751832.06	25.10	
	402743.48	3751832.06	25.50	
	402845.35	3751832.06	25.70	
	402947.22	3751832.06	25.60	
	403049.09	3751832.06	25.80	
	403150.96	3751832.06	25.70	
	403252.83	3751832.06	25.50	
	403354.70	3751832.06	25.50	
	403456.57	3751832.06	25.20	
	403558.44	3751832.06	25.10	
	403660.31	3751832.06	26.80	
	403762.18	3751832.06	26.70	
	403864.05	3751832.06	25.90	
	403965.92	3751832.06	27.10	
	404067.79	3751832.06	28.50	

Receptor Pathway

AERMOD

Receptor Network ID	Location: X-Coordinate [m]	Location: Y-Coordinate [m]	Terrain Elevations (Optional)	Flagpole Heights (Optional)
UCART1	404169.66	3751832.06	28.30	Option not Selected
	404271.53	3751832.06	28.80	
	404373.40	3751832.06	29.60	
	404475.27	3751832.06	30.70	
	404577.14	3751832.06	31.80	
	404679.01	3751832.06	32.90	
	402234.13	3751933.07	26.60	
	402336.00	3751933.07	26.40	
	402437.87	3751933.07	25.70	
	402539.74	3751933.07	26.30	
	402641.61	3751933.07	25.80	
	402743.48	3751933.07	26.10	
	402845.35	3751933.07	25.30	
	402947.22	3751933.07	25.90	
	403049.09	3751933.07	25.50	
	403150.96	3751933.07	25.90	
	403252.83	3751933.07	26.10	
	403354.70	3751933.07	25.70	
	403456.57	3751933.07	25.70	
	403558.44	3751933.07	25.50	
	403660.31	3751933.07	26.50	
	403762.18	3751933.07	26.20	
	403864.05	3751933.07	27.30	
	403965.92	3751933.07	28.10	
	404067.79	3751933.07	28.90	
	404169.66	3751933.07	29.20	
	404271.53	3751933.07	29.50	
	404373.40	3751933.07	29.70	
	404475.27	3751933.07	30.90	
	404577.14	3751933.07	32.50	
	404679.01	3751933.07	33.90	
	402234.13	3752034.08	26.80	
	402336.00	3752034.08	26.50	
	402437.87	3752034.08	26.00	
	402539.74	3752034.08	26.60	
	402641.61	3752034.08	27.30	
	402743.48	3752034.08	26.10	
	402845.35	3752034.08	25.20	
	402947.22	3752034.08	26.20	
	403049.09	3752034.08	26.80	
	403150.96	3752034.08	26.70	
	403252.83	3752034.08	26.30	
	403354.70	3752034.08	26.30	
	403456.57	3752034.08	26.10	
	403558.44	3752034.08	26.00	
	403660.31	3752034.08	26.80	
	403762.18	3752034.08	27.40	
	403864.05	3752034.08	28.10	

Receptor Pathway

AERMOD

Receptor Network ID	Location: X-Coordinate [m]	Location: Y-Coordinate [m]	Terrain Elevations (Optional)	Flagpole Heights (Optional)
UCART1	403965.92	3752034.08	28.70	Option not Selected
	404067.79	3752034.08	28.30	
	404169.66	3752034.08	28.30	
	404271.53	3752034.08	28.40	
	404373.40	3752034.08	28.20	
	404475.27	3752034.08	28.80	
	404577.14	3752034.08	32.90	
	404679.01	3752034.08	35.40	
	402234.13	3752135.09	26.90	
	402336.00	3752135.09	26.60	
	402437.87	3752135.09	26.10	
	402539.74	3752135.09	26.30	
	402641.61	3752135.09	26.90	
	402743.48	3752135.09	26.40	
	402845.35	3752135.09	26.00	
	402947.22	3752135.09	26.80	
	403049.09	3752135.09	26.70	
	403150.96	3752135.09	26.50	
	403252.83	3752135.09	26.60	
	403354.70	3752135.09	26.90	
	403456.57	3752135.09	26.40	
	403558.44	3752135.09	26.80	
	403660.31	3752135.09	26.90	
	403762.18	3752135.09	27.50	
	403864.05	3752135.09	27.50	
	403965.92	3752135.09	27.80	
	404067.79	3752135.09	28.00	
	404169.66	3752135.09	28.30	
	404271.53	3752135.09	28.30	
	404373.40	3752135.09	28.50	
	404475.27	3752135.09	28.30	
	404577.14	3752135.09	28.70	
	404679.01	3752135.09	31.10	
	402234.13	3752236.10	27.10	
	402336.00	3752236.10	26.90	
	402437.87	3752236.10	26.50	
	402539.74	3752236.10	26.70	
	402641.61	3752236.10	27.10	
	402743.48	3752236.10	27.40	
	402845.35	3752236.10	26.80	
	402947.22	3752236.10	26.60	
	403049.09	3752236.10	26.50	
	403150.96	3752236.10	26.60	
	403252.83	3752236.10	26.50	
	403354.70	3752236.10	26.50	
	403456.57	3752236.10	28.20	
	403558.44	3752236.10	26.70	
	403660.31	3752236.10	26.70	

Receptor Pathway

AERMOD

Receptor Network ID	Location: X-Coordinate [m]	Location: Y-Coordinate [m]	Terrain Elevations (Optional)	Flagpole Heights (Optional)
UCART1	403762.18	3752236.10	25.10	Option not Selected
	403864.05	3752236.10	24.50	
	403965.92	3752236.10	24.40	
	404067.79	3752236.10	26.20	
	404169.66	3752236.10	26.30	
	404271.53	3752236.10	26.50	
	404373.40	3752236.10	26.80	
	404475.27	3752236.10	28.00	
	404577.14	3752236.10	28.20	
	404679.01	3752236.10	28.20	
	402234.13	3752337.11	27.00	
	402336.00	3752337.11	26.80	
	402437.87	3752337.11	26.70	
	402539.74	3752337.11	27.00	
	402641.61	3752337.11	27.00	
	402743.48	3752337.11	27.60	
	402845.35	3752337.11	27.10	
	402947.22	3752337.11	27.00	
	403049.09	3752337.11	26.60	
	403150.96	3752337.11	26.30	
	403252.83	3752337.11	24.70	
	403354.70	3752337.11	27.30	
	403456.57	3752337.11	27.20	
	403558.44	3752337.11	27.00	
	403660.31	3752337.11	26.70	
	403762.18	3752337.11	26.80	
	403864.05	3752337.11	27.20	
	403965.92	3752337.11	27.00	
	404067.79	3752337.11	28.00	
	404169.66	3752337.11	28.20	
	404271.53	3752337.11	28.40	
	404373.40	3752337.11	28.40	
	404475.27	3752337.11	28.40	
	404577.14	3752337.11	27.60	
	404679.01	3752337.11	28.40	
	402234.13	3752438.12	27.50	
	402336.00	3752438.12	27.20	
	402437.87	3752438.12	27.00	
	402539.74	3752438.12	27.40	
	402641.61	3752438.12	27.90	
	402743.48	3752438.12	27.60	
	402845.35	3752438.12	27.40	
	402947.22	3752438.12	27.30	
	403049.09	3752438.12	28.20	
	403150.96	3752438.12	27.50	
	403252.83	3752438.12	24.40	
	403354.70	3752438.12	26.90	
	403456.57	3752438.12	27.10	

Receptor Pathway

AERMOD

Receptor Network ID	Location: X-Coordinate [m]	Location: Y-Coordinate [m]	Terrain Elevations (Optional)	Flagpole Heights (Optional)
UCART1	403558.44	3752438.12	27.10	Option not Selected
	403660.31	3752438.12	26.90	
	403762.18	3752438.12	26.20	
	403864.05	3752438.12	27.20	
	403965.92	3752438.12	27.00	
	404067.79	3752438.12	28.00	
	404169.66	3752438.12	27.90	
	404271.53	3752438.12	29.00	
	404373.40	3752438.12	31.20	
	404475.27	3752438.12	30.70	
	404577.14	3752438.12	29.40	
	404679.01	3752438.12	29.10	
	402234.13	3752539.13	27.90	
	402336.00	3752539.13	27.60	
	402437.87	3752539.13	27.50	
	402539.74	3752539.13	28.20	
	402641.61	3752539.13	28.20	
	402743.48	3752539.13	28.00	
	402845.35	3752539.13	27.60	
	402947.22	3752539.13	27.80	
	403049.09	3752539.13	28.30	
	403150.96	3752539.13	27.90	
	403252.83	3752539.13	27.60	
	403354.70	3752539.13	27.20	
	403456.57	3752539.13	27.90	
	403558.44	3752539.13	28.00	
	403660.31	3752539.13	27.20	
	403762.18	3752539.13	24.70	
	403864.05	3752539.13	27.70	
	403965.92	3752539.13	27.30	
	404067.79	3752539.13	28.30	
	404169.66	3752539.13	28.10	
	404271.53	3752539.13	31.10	
	404373.40	3752539.13	31.90	
	404475.27	3752539.13	31.40	
	404577.14	3752539.13	31.80	
	404679.01	3752539.13	30.10	
	402234.13	3752640.14	27.40	
	402336.00	3752640.14	27.70	
	402437.87	3752640.14	28.10	
	402539.74	3752640.14	27.90	
	402641.61	3752640.14	27.70	
	402743.48	3752640.14	27.70	
	402845.35	3752640.14	28.00	
	402947.22	3752640.14	27.70	
	403049.09	3752640.14	27.80	
	403150.96	3752640.14	27.80	
	403252.83	3752640.14	28.00	

Receptor Pathway

AERMOD

Receptor Network ID	Location: X-Coordinate [m]	Location: Y-Coordinate [m]	Terrain Elevations (Optional)	Flagpole Heights (Optional)
UCART1	403354.70	3752640.14	28.20	Option not Selected
	403456.57	3752640.14	28.40	
	403558.44	3752640.14	28.20	
	403660.31	3752640.14	27.80	
	403762.18	3752640.14	29.90	
	403864.05	3752640.14	31.30	
	403965.92	3752640.14	31.30	
	404067.79	3752640.14	28.60	
	404169.66	3752640.14	29.60	
	404271.53	3752640.14	31.00	
	404373.40	3752640.14	32.20	
	404475.27	3752640.14	33.20	
	404577.14	3752640.14	31.60	
	404679.01	3752640.14	29.60	
	402234.13	3752741.15	27.80	
	402336.00	3752741.15	28.30	
	402437.87	3752741.15	28.50	
	402539.74	3752741.15	28.40	
	402641.61	3752741.15	27.90	
	402743.48	3752741.15	28.90	
	402845.35	3752741.15	28.40	
	402947.22	3752741.15	28.20	
	403049.09	3752741.15	28.20	
	403150.96	3752741.15	28.30	
	403252.83	3752741.15	28.50	
	403354.70	3752741.15	28.20	
	403456.57	3752741.15	28.50	
	403558.44	3752741.15	28.70	
	403660.31	3752741.15	28.90	
	403762.18	3752741.15	30.40	
	403864.05	3752741.15	32.10	
	403965.92	3752741.15	33.30	
	404067.79	3752741.15	34.30	
	404169.66	3752741.15	29.80	
	404271.53	3752741.15	31.30	
	404373.40	3752741.15	33.00	
	404475.27	3752741.15	33.50	
	404577.14	3752741.15	30.80	
	404679.01	3752741.15	30.30	
	402234.13	3752842.16	28.20	
	402336.00	3752842.16	28.80	
	402437.87	3752842.16	29.00	
	402539.74	3752842.16	28.60	
	402641.61	3752842.16	28.10	
	402743.48	3752842.16	29.10	
	402845.35	3752842.16	28.90	
	402947.22	3752842.16	28.80	
	403049.09	3752842.16	28.80	

Receptor Pathway

AERMOD

Receptor Network ID	Location: X-Coordinate [m]	Location: Y-Coordinate [m]	Terrain Elevations (Optional)	Flagpole Heights (Optional)
UCART1	403150.96	3752842.16	28.90	Option not Selected
	403252.83	3752842.16	28.60	
	403354.70	3752842.16	28.50	
	403456.57	3752842.16	28.60	
	403558.44	3752842.16	29.00	
	403660.31	3752842.16	30.40	
	403762.18	3752842.16	30.80	
	403864.05	3752842.16	25.50	
	403965.92	3752842.16	34.10	
	404067.79	3752842.16	35.60	
	404169.66	3752842.16	30.20	
	404271.53	3752842.16	31.40	
	404373.40	3752842.16	33.20	
	404475.27	3752842.16	33.70	
	404577.14	3752842.16	31.00	
	404679.01	3752842.16	30.60	
	402234.13	3752943.17	28.80	
	402336.00	3752943.17	29.30	
	402437.87	3752943.17	30.60	
	402539.74	3752943.17	28.90	
	402641.61	3752943.17	28.20	
	402743.48	3752943.17	28.20	
	402845.35	3752943.17	28.70	
	402947.22	3752943.17	28.80	
	403049.09	3752943.17	28.80	
	403150.96	3752943.17	28.80	
	403252.83	3752943.17	29.10	
	403354.70	3752943.17	29.50	
	403456.57	3752943.17	29.60	
	403558.44	3752943.17	30.50	
	403660.31	3752943.17	30.10	
	403762.18	3752943.17	30.70	
	403864.05	3752943.17	30.20	
	403965.92	3752943.17	32.80	
	404067.79	3752943.17	31.30	
	404169.66	3752943.17	30.30	
	404271.53	3752943.17	31.70	
	404373.40	3752943.17	33.40	
	404475.27	3752943.17	33.70	
	404577.14	3752943.17	31.20	
	404679.01	3752943.17	30.70	
	402234.13	3753044.18	28.00	
	402336.00	3753044.18	34.20	
	402437.87	3753044.18	29.20	
	402539.74	3753044.18	28.80	
	402641.61	3753044.18	28.50	
	402743.48	3753044.18	28.60	
	402845.35	3753044.18	28.40	

Receptor Pathway

AERMOD

Receptor Network ID	Location: X-Coordinate [m]	Location: Y-Coordinate [m]	Terrain Elevations (Optional)	Flagpole Heights (Optional)
UCART1	402947.22	3753044.18	28.00	Option not Selected
	403049.09	3753044.18	28.00	
	403150.96	3753044.18	28.00	
	403252.83	3753044.18	28.90	
	403354.70	3753044.18	29.50	
	403456.57	3753044.18	29.40	
	403558.44	3753044.18	29.80	
	403660.31	3753044.18	32.80	
	403762.18	3753044.18	31.70	
	403864.05	3753044.18	30.50	
	403965.92	3753044.18	31.30	
	404067.79	3753044.18	32.40	
	404169.66	3753044.18	30.90	
	404271.53	3753044.18	32.20	
	404373.40	3753044.18	32.30	
	404475.27	3753044.18	33.50	
	404577.14	3753044.18	31.40	
	404679.01	3753044.18	30.70	
	402234.13	3753145.19	34.50	
	402336.00	3753145.19	34.50	
	402437.87	3753145.19	29.50	
	402539.74	3753145.19	29.90	
	402641.61	3753145.19	29.60	
	402743.48	3753145.19	29.90	
	402845.35	3753145.19	29.60	
	402947.22	3753145.19	29.50	
	403049.09	3753145.19	29.40	
	403150.96	3753145.19	29.40	
	403252.83	3753145.19	29.30	
	403354.70	3753145.19	29.40	
	403456.57	3753145.19	30.10	
	403558.44	3753145.19	29.80	
	403660.31	3753145.19	33.10	
	403762.18	3753145.19	32.20	
	403864.05	3753145.19	31.50	
	403965.92	3753145.19	30.90	
	404067.79	3753145.19	32.60	
	404169.66	3753145.19	31.50	
	404271.53	3753145.19	32.20	
	404373.40	3753145.19	32.60	
	404475.27	3753145.19	32.80	
	404577.14	3753145.19	32.50	
	404679.01	3753145.19	32.20	

Meteorology Pathway

AERMOD

Met Input Data

Surface Met Data

Filename: KFUL_V9_ADJU\KFUL_v9.SFC

Format Type: Default AERMET format

Profile Met Data

Filename: KFUL_V9_ADJU\KFUL_v9.PFL

Format Type: Default AERMET format

Wind Speed

☐ Wind Speeds are Vector Mean (Not Scalar Means)

Wind Direction

Rotation Adjustment [deg]:

Potential Temperature Profile

Base Elevation above MSL (for Primary Met Tower): 30.00 [m]

Meteorological Station Data

Stations	Station No.	Year	X Coordinate [m]	Y Coordinate [m]	Station Name
Surface		2012			Fullerton Municipal Airport
Upper Air		2012			

Data Period

Data Period to Process

Start Date: 1/1/2012 Start Hour: 1 End Date: 12/31/2016 End Hour: 24

Wind Speed Categories

Stability Category	Wind Speed [m/s]	Stability Category	Wind Speed [m/s]
A	1.54	D	8.23
B	3.09	E	10.8
C	5.14	F	No Upper Bound

Output Pathway

Tabular Printed Outputs

Short Term Averaging Period	RECTABLE Highest Values Table										MAXTABLE Maximum Values Table	DAYTABLE Daily Values Table
	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th		
1	■	☐	☐	☐	☐	☐	☐	☐	☐	☐		No

Contour Plot Files (PLOTFILE)

Path for PLOTFILES: CARM_RUN.AD

Averaging Period	Source Group ID	High Value	File Name
1	ALL	1st	01H1GALL.PLT
Period	ALL	N/A	PE00GALL.PLT

Results Summary

C:\Users\EPD\EPD Solutions\EPD Project Site - Projects\TECHNICAL SER

PM10 - Concentration - Source Group: ALL

Averaging Period	Rank	Peak	Units	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	1.63648	ug/m^3	403456.57	3751226.00	23.90	0.00	23.90	5/28/2012, 6
PERIOD		0.38421	ug/m^3	403558.44	3751124.99	23.50	0.00	23.50	

Sensitive Receptor Summary

C:\Users\EPD\EPD Solutions\EPD Project Site - Projects\TECHNICAL SER

PM10 - Concentration - Source Group: ALL

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	0.15603	ug/m^3	School	403008.61	3751235.14	24.46	0.00	24.46	1/9/2013, 8
1-HR	1ST	0.21244	ug/m^3	Res	403210.21	3751439.62	25.01	0.00	25.01	5/28/2012, 6
1-HR	1ST	1.35850	ug/m^3	Worker	403635.16	3751113.73	23.03	0.00	23.03	6/22/2016, 6
1-HR	1ST	1.55940	ug/m^3	Worker	403415.16	3751147.23	24.41	0.00	24.41	10/14/2012, 7
1-HR	1ST	1.45373	ug/m^3	Worker	403600.54	3751145.56	23.24	0.00	23.24	6/22/2016, 6
1-HR	1ST	1.15218	ug/m^3	Worker	403633.48	3751038.35	22.83	0.00	22.83	6/29/2013, 6
PERIOD		0.00857	ug/m^3	School	403008.61	3751235.14	24.46	0.00	24.46	
PERIOD		0.00582	ug/m^3	Res	403210.21	3751439.36	25.01	0.00	25.01	
PERIOD		0.18990	ug/m^3	Worker	403635.16	3751113.73	23.03	0.00	23.03	
PERIOD		0.23637	ug/m^3	Worker	403415.16	3751147.23	24.41	0.00	24.41	
PERIOD		0.27982	ug/m^3	Worker	403600.54	3751145.56	23.24	0.00	23.24	
PERIOD		0.08402	ug/m^3	Worker	403633.48	3751038.35	22.83	0.00	22.83	

APPENDIX C.1 – ESTIMATION OF PROJECT CONSTRUCTION DPM EMISSIONS

Carmenita Industrial Project **Un-Mitigated**

Construction DPM Emissions
Data Source: CalEEMod Project Output

Work Schedule 8 hrs/day 5 days per week

Onsite DPM Construction Emissions

Size of the Construction Area: 13,462 m2

Unit Emission Rate: 7.42832E-05 g/m2-sec

CalEEMod Construction Vehicle Trip Length

Vehicle	Distance (miles)
Haul Truck	20
Vendor Truck	10.2
Worker	18.5

Daily Max Onsite PM10E

Activity	Start Date	End Date	DPM Emissions lb/day	Work Days	DPM Emissions (lbs)	DPM Emissions (tons)
Demolition	9/2/2025	9/30/2025	**0.9175**	**20**	18.35	0.009175
Site Preparation	10/1/2025	10/15/2025	**1.9309**	**10**	19.31	0.009655
Grading	10/16/2025	11/13/2025	**1.1460**	**20**	22.92	0.011460
Building Construction - 2025	11/14/2025	12/31/2025	**0.4663**	**35**	16.32	0.008160
Building Construction - 2026	1/1/2026	9/3/2026	**0.4094**	**175**	71.64	0.035819
Paving	9/4/2026	10/1/2026	**0.3199**	**20**	6.49	0.003244
Architectural Coating	10/1/2026	10/28/2026	**0.0309**	**20**	0.63	0.000313
			5.2208186	301	155.653	0.518

Year	Annual DPM Emissions (tons/year)	# Construction Work Days	Average Daily DPM Emissions (lb/day)	Average Hourly DPM Emissions (lb/hr)	Average Hourly DPM Emissions (g/sec)	Average Hourly DPM Area Emission (g/m2-sec)	
2025	0.029275052	85	0.6888	0.0861	0.0109	8.066E-07	5.36E-07
2026	0.039376474	215	0.3663	0.0458	0.0058	4.289E-07	0.1834
					0.017		

Offsite DPM Construction Emissions

Daily Max Onsite PM10E — Daily Max Onsite PM10E — Daily Max Onsite PM10E

Activity	Start Date	End Date	Work Days	Offsite DPM Haul Truck (lb/day)	Offsite DPM Haul Truck (pounds)	Offsite DPM Haul Truck tons	Offsite DPM Vendor Truck (lb/day)	Offsite DPM Vendor Truck (pounds)	Offsite DPM Vendor Trucks (tons)	Offsite DPM Worker Vehicles (lb/day)	Offsite DPM Worker Vehicles (pounds)	Offsite DPM Worker Vehicles (tons)
			0.0926									
Demolition	9/2/2025	9/30/2025	20	0.1834	3.668	0.001834	0.0000	**0**	**0**	0	0	0
Site Preparation	10/1/2025	10/15/2025	10	0.0000	0	0	0.0000	0	0	0	0	0
Grading	10/16/2025	11/13/2025	20	0.1610	3.220512	0.001610256	0.0000	0	0	0	0	0
Building Construction - 2025	11/14/2025	12/31/2025	35	0.0000	0	0	0.0107	0.373835	0.000186918	0	0	0
Building Constriciton - 2026	1/1/2026	9/3/2026	175	0.0000	0	0	0.0107	1.869175	0.000934588	0	0	0
Paving	9/4/2026	10/1/2026	20	0.0000	0	0	0.0000	0	0	0	0	0
Architectural Coating	10/1/2026	10/28/2026	20	0.0000	0	0	0.0000	0	0	0	0	0
			301	0.3444256	6.888512	0.003444256	0.021362	2.24301	0.001121505	0	0	0

Offsite DPM Emissions (at the CalEEMOd Default Trip Distances)

		Haul Trucks				Vendor Trucks				Worker Vehicles				
Year	# of Construction Days	AnnualEmissions (tons/year)	Average Daily (lb/day)	Average Hourly (lb/hr)	Average Hourly (g/sec)	AnnualEmissions (tons/year)	Average Daily (lb/day)	Average Hourly (lb/hr)	Average Hourly (g/sec)	AnnualEmissions (tons/year)	Average Daily (lb/day)	Average Hourly (lb/hr)	erage Hourly (g/sec)	
2025	85	0.003444256	0.081041318	0.010130165	0.001277526	0.000186918	0.004398059	0.000549757	6.93305E-05	0	0	0	0	3.28E-03
2026	215	0	0	0	0	0.000934588	0.008693837	0.00108673	0.000137049	0	0	0	0	

CalEEMod Construction Vehicle Trip Length

Vehicle	Distance (miles)
Haul Truck	60
Vendor Truck	10.2
Worker	18.5

Assumed Construction Trip Distance in AERMOD 0.683 mile from AERMOD Emission Source Data

Assumed Construction Trip Distances in AERMOD

	meters	Distance (mi)	%Distribution	
Excelsior>Carmenita Intersection		0.313	100%	
I-5 N		0.285	50%	
I-5 S		0.365	50%	Assumption Made: during the Construction phase 100% of trucks will use Excelsior Road to enter/exit the site
Onsite	216.7	0.135		

Offsite Scaled DPM Emissions to AERMOD Trip Distance

Year	Haul Trucks (g/sec)	Vendor Trucks (g/sec)	Worker Vehicles (g/sec)	Total (g/sec)	Total (lb/hr)	Total (lb/day)
2025 (From CalEEMOd)	6.656E-06	2.125E-06	0.000E+00	8.781E-06	6.963E-05	5.570E-04
Onsite	1.494E-08	2.805E-08	0.000E+00	4.299E-08	3.409E-07	2.727E-06
2025 (Scaled for Distance and Distribution)						
Route 1	3.468E-08	6.513E-08	0.000E+00	9.981E-08	7.914E-07	6.331E-06
Route 2	1.583E-08	2.973E-08	0.000E+00	4.556E-08	3.612E-07	2.890E-06
Route 3	2.023E-08	3.799E-08	0.000E+00	5.823E-08	4.617E-07	3.694E-06
2026 (from CalEEMod)	0.000E+00	4.200E-06	0.000E+00	4.200E-06	3.331E-05	2.665E-04
Onsite	0.000E+00	5.545E-08	0.000E+00	5.545E-08	4.397E-07	3.517E-06
2026 (Scaled for Distance and Distribution)						
Route 1	0.000E+00	1.287E-07	0.000E+00	1.287E-07	1.021E-06	8.166E-06
Route 2	0.000E+00	5.876E-08	0.000E+00	5.876E-08	4.660E-07	3.728E-06
Route 3	0.000E+00	7.510E-08	0.000E+00	7.510E-08	5.955E-07	4.764E-06

Hauling Trips Onsite

Weighted Average Emissions	
Route 1	**1.205E-07 g/sec**
Route 2	**5.502E-08 g/sec**
Route 3	**7.032E-08 g/sec**

2025	**8.781E-06 g/sec**
2026	**4.200E-06 g/sec**

Carmenita Industrial Project **Mitigated**

Tier 4 Mitigation

Construction DPM Emissions
Data Source: CalEEMod Project Output

Work Schedule 8 hrs/day
5 days per week

Onsite DPM Construction Emissions

Size of the Construction Area: 13,462 m2

Unit Emission Rate: 7.42832E-05 g/m2-sec

CalEEMod Construction Vehicle Trip Length

Vehicle	Distance (miles)
Haul Truck	20
Vendor Truck	10.2
Worker	18.5

Daily Max Onsite PM10E

Activity	Start Date	End Date	DPM Emissions lb/day	Work Days	DPM Emissions (lbs)	DPM Emissions (tons)
Demolition	9/2/2025	9/30/2025	**0.0633**	**20**	1.27	0.000633
Site Preparation	10/1/2025	10/15/2025	**0.1041**	**10**	1.04	0.000520
Grading	10/16/2025	11/13/2025	**0.0588**	**20**	1.18	0.000588
Building Construction - 2025	11/14/2025	12/31/2025	**0.0475**	**35**	1.66	0.000832
Building Construction - 2026	1/1/2026	9/3/2026	**0.0475**	**175**	8.32	0.004160
Paving	9/4/2026	10/1/2026	**0.0281**	**20**	0.57	0.000285
Architectural Coating	10/1/2026	10/28/2026	**0.0031**	**20**	0.06	0.000032
			0.3524663	301	14.099	0.047

Year	Annual DPM Emissions (tons/year)	# Construction Work Days	Average Daily DPM Emissions (lb/day)	Average Hourly DPM Emissions (lb/hr)	Average Hourly DPM Emissions (g/sec)	Average Hourly DPM Area Emission (g/m2-sec)
2025	0.002573	85	0.0605	0.0076	0.0010	7.089E-08
2026	0.004477	215	0.0416	0.0052	0.0007	4.877E-08
					0.002	

→ Weighted Average: 5.50E-08

Offsite DPM Construction Emissions

Daily Max Onsite PM10E — Daily Max Onsite PM10E — Daily Max Onsite PM10E

Activity	Start Date	End Date	Work Days	Offsite DPM Haul Truck (lb/day)	Offsite DPM Haul Truck (pounds)	Offsite DPM Haul Truck tons	Offsite DPM Vendor Truck (lb/day)	Offsite DPM Vendor Truck (pounds)	Offsite DPM Vendor Trucks (tons)	Offsite DPM Worker Vehicles (lb/day)	Offsite DPM Worker Vehicles (pounds)	Offsite DPM Worker Vehicles (tons)
Demolition	9/2/2025	9/30/2025	20	0.1834	3.668	0.001834	0.0000	**0**	**0**	0.000	0	0
Site Preparation	10/1/2025	10/15/2025	10	0.0000	0	0	0.0000	0	0	0.000	0	0
Grading	10/16/2025	11/13/2025	20	0.1610	3.220512	0.001610256	0.0000	0	0	0.000	0	0
Building Construction - 2025	11/14/2025	12/31/2025	35	0.0000	0	0	0.0107	0.373835	0.000186918	0.000	0	0
Building Constriciton - 2026	1/1/2026	9/3/2026	175	0.0000	0	0	0.0107	1.869175	0.000934588	0.000	0	0
Paving	9/4/2026	10/1/2026	20	0.0000	0	0	0.0000	0	0	0.000	0	0
Architectural Coating	10/1/2026	10/28/2026	20	0.0000	0	0	0.0000	0	0	0.000	0	0
			301	0.3444256	6.888512	0.003444256	0.021362	2.24301	0.001121505	0.000	0	0

Offsite DPM Emissions (at the CalEEMOd Default Trip Distances)

Year	# of Construction Days	Haul Trucks AnnualEmissions (tons/year)	Haul Trucks Average Daily (lb/day)	Haul Trucks Average Hourly (lb/hr)	Haul Trucks Average Hourly (g/sec)	Vendor Trucks AnnualEmissions (tons/year)	Vendor Trucks Average Daily (lb/day)	Vendor Trucks Average Hourly (lb/hr)	Vendor Trucks Average Hourly (g/sec)	Worker Vehicles AnnualEmissions (tons/year)	Worker Vehicles Average Daily (lb/day)	Worker Vehicles Average Hourly (lb/hr)	Worker Vehicles Average Hourly (g/sec)
2025	85	0.003444256	0.081041318	0.010130165	0.001277526	0.000186918	0.004398059	0.000549757	6.93305E-05	0	0	0	0
2026	215	0	0	0	0	0.000934588	0.008693837	0.00108673	0.000137049	0	0	0	0

3.28E-03

CalEEMod Construction Vehicle Trip Length

Vehicle	Distance (miles)
Haul Truck	60
Vendor Truck	10.2
Worker	18.5

Assumed Construction Trip Distance in AERMOD 0.683 mile from AERMOD Emission Source Data

Assumed Construction Trip Distances in AERMOD

	meters	Distance (mi)	%Distribution	
Excelsior>Carmenita Intersection		0.313	100%	
I-5 N		0.285	50%	
I-5 S		0.365	50%	Assumption Made: during the Construction phase 100% of trucks will use Excelsior Road to enter/exit the site
Onsite	216.7	0.135		

Offsite Scaled DPM Emissions to AERMOD Trip Distance

Year	Haul Trucks (g/sec)	Vendor Trucks (g/sec)	Worker Vehicles (g/sec)	Total (g/sec)	Total (lb/hr)	Total (lb/day)
2025 (From CalEEMOd)	6.656E-06	2.125E-06	0.000E+00	8.781E-06	6.963E-05	5.570E-04
Onsite	1.494E-08	2.805E-08	0.000E+00	4.299E-08	3.409E-07	2.727E-06
2025 (Scaled for Distance and Distribution)						
Route 1	3.468E-08	6.513E-08	0.000E+00	9.981E-08	7.914E-07	6.331E-06
Route 2	1.583E-08	2.973E-08	0.000E+00	4.556E-08	3.612E-07	2.890E-06
Route 3	2.023E-08	3.799E-08	0.000E+00	5.823E-08	4.617E-07	3.694E-06
2026 (from CalEEMod)	0.000E+00	4.200E-06	0.000E+00	4.200E-06	3.331E-05	2.665E-04
Onsite	0.000E+00	5.545E-08	0.000E+00	5.545E-08	4.397E-07	3.517E-06
2026 (Scaled for Distance and Distribution)						
Route 1	0.000E+00	1.287E-07	0.000E+00	1.287E-07	1.021E-06	8.166E-06
Route 2	0.000E+00	5.876E-08	0.000E+00	5.876E-08	4.660E-07	3.728E-06
Route 3	0.000E+00	7.510E-08	0.000E+00	7.510E-08	5.955E-07	4.764E-06

Hauling has no 2026

Weighted Average Emissions	
Route 1	**1.205E-07 g/sec**
Route 2	**5.502E-08 g/sec**
Route 3	**7.032E-08 g/sec**

2025	**8.781E-06 g/sec**
2026	**4.200E-06 g/sec**

APPENDIX C.2 – ESTIMATION OF PROJECT OPERATIONAL DPM EMISSIONS

Carmenita Road Proposed Project **2026**

Emission Assumptions **DPM** Emissions

1) Vehicle Emissions

(a) Truck and Auto Traffic	EMFAC2021	
(b) Location	Norwalk- SCAQMD	
(c) Truck Mix		
Project Trip Generation Memo		
Assumes all heavy duty trucks are diesel fueled as a conservative assumption		
(d) Vehicle Travel Speed		
Onsite Travel	5	mph
Offsite Travel	25	mph
(e) Truck Idle time:	15	minutes (truck idling)
		for LHDT, MHDT, and HHDT diesel trucks)
(f) Emission factors for	DPM	emissions
(g) Emissions calculated for	2026	

2) Refrigerated Land Uses

Percentage of Buildings used for Refrigeration (applies to DSL LHDT, MHDT and HHDT)

Land Use 1- Proposed Warehou 20% ASSUMPTION based on the % of building space devoted to cold storage

TRU Onsite Operating Time 1 hours - ASSUMPTION

3) Traffic Allocation

1) Onsite travel emssions generated from vehicles traveling to building loading docks
2) Onsite idling emissions generated only for heavy duty diesel trucks
3) Offsite travel trips allocated in accordance with the Traffic Impact Memorandum

4) Trip Allocation	**Building Size**	**%Total**
Land Use 1- Proposed Warehou	115,921	80%
Land Use 2- Proposed GLI (Build	28,980	20%
Total	144,901	100%

4) Emission Source Configuration

1) Vehicle traffic represented by a line source
2) Onsite idling represented as a series of point sources to accommodate the effects of building downwash

5) Venicle Trip Lengths

Onsite Travel Links

	Travel Distance (m)	**Trip Distance (mi)**	**% of Truck Travel**	**MPH**
Excelsior >Loading Docks (Land Use 1)	216.7	0.135	95%	5
Carmenita>Loading Docks (Land Use 1)	293.8	0.183	5%	5

Off site Travel Links

	Travel Distance (m)	**Travel Distance (mi)**	**% of Truck Travel**	
Offsite 1: Site>Carmenita	111.9	0.070	5%	25
Offsite 2: Excelsior>Intersection	411.6	0.256	95%	25
Offsite 3: Intersection> I5 Junction	91.4	0.057	100%	25
Offsite 4: I5 Junction> I5-N ramp	459.2	0.285	50%	25
Offsite 5: I5 Junction> I5-S ramp	586.9	0.365	50%	25
Offsite 6: Carmenita>Intersection	111.9	0.070	5%	25

6) Other Input Parameters

Facility Operations for Warehouses (hr/day):	24	In order to provide a conservative analysis, operations are assumed to
Annual Operations (days/year)	365	be 24 hours a day, 7 days a week since no industrial operation hours

Carmenita Road Proposed Project **2026**

Vehicle Trip Allocation to Buildings (proportional to the realtive size of buildings)

Building	Building Size Total (sq-ft)
Land Use 1- Proposed Warehousing (Building 1)	115,921
Land Use 2- Proposed GLI (Building 2)	28,980
Total	144,901

Trip Generation

Trip Generation Rate	1.71	trips/TSF as per Traffic Trip Generation Memorandum	Warehousing
	4.87		GLI

Building	trips/day (Non-PCE)
Land Use 1- Proposed Warehousing (Building 1)	198
Land Use 2- Proposed GLI (Building 2)	141
Total	339

Vehicle Fleet Distribution	% Trips
Land Use 1- Proposed Warehousing (Building 1)	58%
Land Use 2- Proposed GLI (Building 2)	42%

Vehicle Fleet Mix from Trip Generation Memo

Land Use 1- Proposed Warehousing (Building 1)

	Vehicle Distribution	Daily Trips	Building 1
LDA (Passenger Vehicles)	55.30%	110	64
LHDT (2 axle truck)	15.50%	31	18
MHDT(3 axle truck)	4.90%	10	6
HHDT (4+ axle truck)	24.30%	48	28
	100.0%	198	
			116

Land Use 2- Proposed GLI (Building 2)

	Vehicle Distribution	Daily Trips	Building 1	Building 2	Building 3	Building 4	Building 5
LDA (Passenger Vehicles)	72.50%	102	C41*B31	#VALUE!	0	0	0
LHDT (2 axle truck)	4.60%	6	C42*B31	3	0	0	0
MHDT(3 axle truck)	5.70%	8	C43*B31	3	0	0	0
HHDT (4+ axle truck)	17.20%	24	C44*B31	10	0	0	0
	100.0%	141					
			SUM(D41:D45)	#VALUE!	0	0	0

Passenger Vehicle Fleet Mix

	CalEEMod Default Mix	% Total	Daily Trips	Land Use 1- Proposed Warehousing (Building 1	Land Use 2- Proposed GLI (Building 2)		
LDA	37.55%	37.6%	80	41	38	0	0
LDT1	32.39%	32.4%	69	36	33	0	0
LDT2	17.76%	17.8%	38	19	18	0	0
MCY	1.63%	1.6%	3	2	2		
MDV	10.66%	10.7%	23	12	11	0	0
Total	99.99%	100.0%	212	110	102	0	0

Light Heavy Duty Fleet Mix

	CalEEMod Default Mix	% Total	Daily Trips	% Diesel	Number of Daily Diesel Trips	Number of Diesel Daily Trips: Land Use 1- Proposed Warehousing (Building 1)	Land Use 2- Proposed GLI (Building 2)
LHDT1	2.73%	80.2%	30	34.39%	10	8	2
LHDT2	0.67%	19.8%	7	62.05%	5	4	1
Total	3.41%	100.0%	37	**Total**	**15**	12	3

CalEEMod Assumption: Passenger Vehicles + "Local Trucks": LDA+LDT+MDT+LHDT w/CalEEMod default trip distances

"Local trucks"assumed to be LHDTs that are not long-distance bound unlike the MHDT and HHDT vehicle classes for which a 40-mile trip distance is assumed

Fleet Mix	Total Trips	%Total	Daily Trip Rate (Trips/TSF)
LDA	80	**31.9%**	**0.55**
LDT1	69	**27.6%**	**0.47**
LDT2	38	**15.1%**	**0.26**
MCY	3	**1.4%**	**0.02**
MDV	23	**9.1%**	**0.16**
LHDT1	30	**12.0%**	**0.21**
LHDT2	7	**3.0%**	**0.05**
Total	249	**100.0%**	**1.72**

I have recently changed these % DSL to 100%

CalEEMod Assumption: Haul Trucks: MHDT +HHDT w/ trip distance of 40 miles

Fleet Mix	Total Trips	%Total	Daily Trip Rate (Trips/TSF)	% Diesel	Number of Daily Diesel Trips	Land Use 1- Proposed Warehousing (Building 1)	Land Use 2- Proposed GLI (Building 2)	Total
MHDT	18	**19.7%**		100.00%	18	10	7	18
HHDT	72	**80.3%**		100.00%	72	42	30	72
Total	90	**100.0%**	**0.62**	**Total**	90	53	38	90

Composite Fleet Mix	Number of Daily Trips	% Total
LDA	80	**23.5%**
LDT1	69	**20.2%**
LDT2	38	**11.1%**
MCY	3	**1.0%**
MDV	23	**6.7%**
LHDT1	30	**8.8%**
LHDT2	7	**2.2%**
MHDT	18	**5.2%**
HHDT	72	**21.3%**
	339	**100.0%**

Total Diesel Trips	
	10
	5
	18
	72
	105

Carmenita Road Proposed Project

Pollutant: DPM
Year: 2026

Emission Summary

Onsite Emissions		**Emissions (g/sec)**	**Emissions (lbs/day)**
ONSITE1	Excelsior >Loading Docks (Land Use 1)	5.75E-06	1.09E-03
OS1B2	Excelsior > Loading Docks (Land Use 2)	3.04E-06	5.78E-04
ONSITE2	Carmenita>Loading Docks (Land Use 1)	1.92E-07	3.65E-05
OS2B2	Carmenita>Loading Docks (Land Use 2)	1.08E-07	2.05E-05
	Total	9.09E-06	1.73E-03
	Onsite 1 (Excelsior)	8.79E-06	1.67E-03
	Onsite 2 (Carmenita)	3.00E-07	5.70E-05

Idling Emissions		**Emissions (g/sec)**	**Emissions (lbs/day)**	
IB1	Idling Sources - Land Use 1	1.11E-04	2.11E-02	These idling emissions wold be subdivided by
IB2	Idling Sources - Land Use 2	7.73E-05	1.47E-02	
	Total	1.88E-04	3.58E-02	the number of idling point source assumed in the calculation
	Idle Average	9.40E-05	1.79E-02	

Offsite Emissions	**Emissons (g/sec)**	**Emissions (lb/day)**
Offsite 1: Site>Carmenita	4.63E-08	8.82E-06
Offsite 2: Excelsior>Intersection	5.14E-06	9.78E-04
Offsite 3: Intersection> I5 Junction	1.21E-06	2.30E-04
Offsite 4: I5 Junction> I5-N ramp	2.36E-06	4.48E-04
Offsite 5: I5 Junction> I5-S ramp	3.01E-06	5.73E-04
Offsite 6: Carmenita>Intersection	7.51E-08	1.43E-05
Total	1.18E-05	2.25E-03

Total Emissions (Offsite Alternative 1)	**Emissons (g/sec)**	**Emissions (lb/day)**
Total	**2.09E-04**	**3.98E-02**

Sens Receptor

Total Annual (ug/m3)
0.008400

worker

Total Annual (ug/m3)
0.0534

TRU Emissions SCAQMD 2025

OFFROAD 2017 OFFROAD2021 does not supply horsepower-hours per year TRU usage

Calculated Here from EmFac

Region	Calendar Y	Vehicle Category	Model Year	Horsepower Bin	Fuel	PM10_tpd	Fuel Consumption	Total Activity_hov	Total Population	horsepower Hours_hhov
Los Angeles (S	2026	Transport Refrigeration Unit - Instate Genset	Aggregate	Aggregate	Diesel	0.00183292	398721.54	818011.94	1047.23	
Los Angeles (S	2026	Transport Refrigeration Unit - Instate Trailer	Aggregate	Aggregate	Diesel	0.029719208	8730877.36	12281205.42	6849.08	
Los Angeles (S	2026	Transport Refrigeration Unit - Instate Truck	Aggregate	Aggregate	Diesel	0.00605077	611530.62	1103850.54	1475.64	
Los Angeles (S	2026	Transport Refrigeration Unit - Out-Of-State Genset	Aggregate	Aggregate	Diesel	0.001737411	318331.58	655633.38	5287.24	
Los Angeles (S	2026	Transport Refrigeration Unit - Out-Of-State Trailer	Aggregate	Aggregate	Diesel	0.023862678	4826967.87	7086872.33	26054.49	

PM10 Emissions

Pollutant	Vehicle Category	Horsepower	Emissions (t/d)	Emissions (t/yr)	Emissions (grams/year)	Usage (hp-hr/yr)	Emission factor (grams/hp-hr)	Activity (hrs/year)	Horsepower (HP)	Emission Rate grams/hr	Fuel Consumption gallons/year	Fuel Rate gallons/hr
PM10	Transport Refrigeration Unit - Instate Truck	Aggregate	0.00605077	2.20853105	2005346.193	0	1.815050099	1103850.54	0	1.815050099	611530.62	0.553997663
PM10	Transport Refrigeration Unit - Instate Genset	Aggregate	0.00183292	0.6690158	607466.3464	0	0.741945685	818011.94	0	0.741945685	398721.54	0.487427531
PM10	Transport Refrigeration Unit - Out-Of-State Genset	Aggregate	0.001737411	0.634154833	575812.5879	0	0.877464655	655633.38	0	0.877464655	318331.58	0.485532906
PM10	Transport Refrigeration Unit - Out-Of-State Trailer	Aggregate	0.023862678	8.70987747	7908568.743	0	1.114943393	7086872.33	0	1.114943393	4826967.87	0.681113987
											Total	
						Weighted by Usage			Weighted by Activity	1.14722668	6155551.61	0.636932647

Table 1: Mass Conversion

tons	2000 lbs	453.592 g
day	1 ton	1 lbs

Table 2: Activity Conversion

Hours	1 year	3600 sec
Year	365 days	1 hour

Table 3: OFFROAD PM10 Mass Conversion

tons/day	lbs / day	g / day
0.00605077	12.10154	5489.161732
0.00183292	3.66584	1662.795697
0.001737411	3.474821	1576.151007
0.023862678	47.725356	21647.83968
0	0	0
0	0	0

Table 4: OFFROAD PM10 Activity Conversion

hours / yr	hours (runtime) / day	second (runtime) / day
1103850.54	3024.248055	10887293
818011.94	2241.128603	8068062.97
655633.38	1796.255836	6466521.008
7086872.33	19416.08858	69897918.87
0	0	0
0	0	0

Table 5: PM10 Rates

g / sec (runtime)	g / hour (runtime)
0.000504181	1.815050099
0.000206096	0.741945685
0.00024374	0.877464655
0.000309706	1.114943393

= data used in calculation

= emissions rate for dispersion modeling

Source: EMFAC2021 (v1.0.2) Emission Rates
Region Type: Air District
Region: South Coast AQMD
Calendar Year: 2024
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for CVMT and EVMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HOTSOAK and RUNLOSS, g/vehicle/day for IDLEX and DIURN. PHEV calculated based on total VMT.

Region	Calendar Y	Vehicle Ca	Model Yea	Speed	Fuel	VMT		DSL-VMT	GAS-VMT	Total	%DSL	%GAS	%Total
Los Angeles (MD	2026	LDA	Aggregate	Aggregate	Diesel	81290394	LDA	81290393.93	44439583726	4.45E+10	0.2%	99.8%	49.3%
Los Angeles (MD	2026	LDT1	Aggregate	Aggregate	Diesel	729261.09	LDT1	729261.0887	3877434852	3.88E+09	0.0%	100.0%	4.3%
Los Angeles (MD	2026	LDT2	Aggregate	Aggregate	Diesel	77587505	LDT2	77587505.36	22848289230	2.29E+10	0.3%	99.7%	25.4%
Los Angeles (MD	2026	LHDT1	Aggregate	Aggregate	Diesel	848997788	LHDT1	848997788.1	1619581946	2.47E+09	34.4%	65.6%	2.7%
Los Angeles (MD	2026	LHDT2	Aggregate	Aggregate	Diesel	377929211	LHDT2	377929210.6	231144136.6	6.09E+08	62.0%	38.0%	0.7%
Los Angeles (MD	2026	MDV	Aggregate	Aggregate	Diesel	148218371	MDV	148218370.6	12596834411	1.27E+10	1.2%	98.8%	14.1%
Los Angeles (MD	2026	T6-MHDT	Aggregate	Aggregate	Diesel	787384459	T6-MHDT	787384458.7	254865525.8	1.04E+09	75.5%	24.5%	1.2%
Los Angeles (MD	2026	T7-HHDT	Aggregate	Aggregate	Diesel	2.095E+09	T7-HHDT	2094960712	892747.5291	2.1E+09	100.0%	0.0%	2.3%
Los Angeles (MD	2026	LDA	Aggregate	Aggregate	Gasoline	4.444E+10							
Los Angeles (MD	2026	LDT1	Aggregate	Aggregate	Gasoline	3.877E+09	Total	4417097700	85868626575	9.03E+10	4.9%	95.1%	100.0%
Los Angeles (MD	2026	LDT2	Aggregate	Aggregate	Gasoline	2.285E+10							
Los Angeles (MD	2026	LHDT1	Aggregate	Aggregate	Gasoline	1.62E+09							
Los Angeles (MD	2026	LHDT2	Aggregate	Aggregate	Gasoline	231144137							
Los Angeles (MD	2026	MDV	Aggregate	Aggregate	Gasoline	1.26E+10							
Los Angeles (MD	2026	T6-MHDT	Aggregate	Aggregate	Gasoline	254865526							
Los Angeles (MD	2026	T7-HHDT	Aggregate	Aggregate	Gasoline	892747.53							

Source: EMFAC2021 (v1.0.2) Emission Rates
Region Type: Air District
Region: South Coast AQMD
Calendar Year: 2024
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for CVMT and EVMT, g/mile for RUNEX, PMBW and PMTW, mph for Speed, kWh/mile for Energy Consumption, gallon/mile for Fuel Consumption. PHEV calculated based on total VMT.

Region	Calendar Y	Vehicle Ca	Model Yea	Speed	Fuel	VMT	PM10_RUNEX
South Coast AQM	2026	LHDT1	Aggregate	5	Diesel	482.34578	0.0632
South Coast AQM	2026	LHDT2	Aggregate	5	Diesel	213.11592	0.063353
South Coast AQM	2026	T6-MHDT	Aggregate	5	Diesel	2551.1722	0.041169
South Coast AQM	2026	T7-HHDT	Aggregate	5	Diesel	591.52485	0.014557
South Coast AQM	2026	LHDT1	Aggregate	25	Diesel	182787.61	0.029919
South Coast AQM	2026	LHDT2	Aggregate	25	Diesel	80308.252	0.030492
South Coast AQM	2026	T6-MHDT	Aggregate	25	Diesel	291732.94	0.01076
South Coast AQM	2026	T7-HHDT	Aggregate	25	Diesel	257910.56	0.007096

Idling Emission Factors

	freq	city	veh	IDLEX	type	TPD
2026	Annual	Los Angele	LHDT1	IDLEX	PM10	0.331315285
2026	Annual	Los Angele	HHDT	IDLEX	PM10	0.553079694
2026	Annual	Los Angele	LHDT2	IDLEX	PM10	0.553079694
2026	Annual	Los Angele	MHDT	IDLEX	PM10	0.050133447
2026	Annual	Los Angele	HHDT	IDLEX	PM10	0.014789066

Carmenita Road Proposed Project **Year: 2026**
Emissions from Onsite Delivery and TRU Travel
DPM Emissions

Truck Operations

Assumption: Number of TRUs = % Cold Storage x Number of DSL LHDT1+LHDT2+MHDT + HHDT

				DSL Daily	DSL Daily	DSL Daily	DSL Daily	DSL Daily	DSL Daily	DSL Daily	DSL Daily	DSL Daily	DSL Daily Total		DSL Daily Total	DSL Daily Total	DSL Total
		Trip Length	Operations	HHDT	MHDT	LHDT1	LHDT2	TRU	HHDT	MHDT	LHDT1	LHDT2	Trucks	TRU	Truck+TRU	Truck+TRU	Truck+TRU
AERMOD ID	On-Site Truck Delivery Emissions	(mi)		Truck Trips	Trucks Trips	Trucks Trips	Truck Trips	Trips	(g/day)	(g/day)	(g/day)	(g/day)	(g/day)	(g/day)	(g/day)	(lb/day)	(g/sec)
ONSITE1	Excelsior >Loading Docks (Land Use 1)	0.135	24	40	10	8	4	9	7.88E-02	5.46E-02	6.85E-02	3.06E-02	2.32E-01	2.64E-01	4.97E-01	1.09E-03	5.75E-06
OS1B2	Excelsior > Loading Docks (Land Use 2)	0.135	24	29	7	2	1	5	5.61E-02	3.89E-02	1.45E-02	6.46E-03	1.16E-01	1.47E-01	2.63E-01	5.78E-04	3.04E-06
ONSITE2	Carmenita>Loading Docks (Land Use 1)	0.183	24	2	1	0	0	0	5.62E-03	3.90E-03	4.89E-03	2.18E-03	1.66E-02	0.00E+00	1.66E-02	3.65E-05	1.92E-07
OS2B2	Carmenita>Loading Docks (Land Use 2)	0.183	24	2	0	0	0	0	4.00E-03	2.77E-03	1.03E-03	1.50E-03	9.31E-03	0.00E+00	9.31E-03	2.05E-05	1.08E-07
				72	18	10	5	13	1.44E-01	1.00E-01	8.89E-02	4.07E-02	3.74E-01	4.11E-01	7.85E-01	1.73E-03	9.0862E-06

Operation Days = 365
Delivery Truck Hours (hrs/day) = 24
Delivery Truck Speed (mph) = 5

Daily Truck Emissions = Emission Factor (g/mi) * (Truck trips/day) * (miles/Truck Trip)

Daily TRU Emissions = Emission Rate (g/hr) * (TRU Trips/day /Speed (m/hr) * (miles/TRU Trip) 8.17E-06

Diesel Truck Emission Factors (EMFAC2021)
2-Axle (LHDT1) = 0.063
2-axle (LHDT2) 0.063
3-Axle MHDT (g/mi) = 0.041
4-Axle HHD (g/mi) = 0.015
Truck emissions for trucks based on EMFAC 2021 for truck speed of 5 mph SCAQMD 2026

TRU Emission Factor
TRU Emission Rate[a] (g/hr) = 1.15
TRU run time during travel (hr) = Road Length (mi)/Truck Speed (mph)

Notes:
Emission factor derived from CARB EMFAC2021 model as the fleet average for SCAQMD 2026
TRU emission factor from Draft 2019 Update to Emissions Inventory for Transport Refrigeration Units (ARB 2019)

Carmenita Road Proposed Project **2026**
Onsite Truck Delivery Iding and TRU Operational Emissions
DPM Emissions

Truck Onsite Idling and TRU Operations

		Average Daily Truck Deliveries															
AERMOD ID	User/ Location	HHDT Trucks	MHDT Trucks	LHDT1 Trucks	LHDT2 Trucks	TRU Number	Idle Time per Truck (hour/day)	HHDTruck Emissions (g/day)	MHDTruck Emissions (g/day)	LHDTruck1 Emissions (g/day)	LHDTruck2 Emissions (g/day)	Total Truck (g/day)	TRU OP Time (hours/day/TRU)	Total TRU Emissions (g/day)	Total Emissions (g/day)	Emissions Average (lb/day)	Emissions Average (g/sec)	Area Source Emisison g/m2-sec
Truck Idling Sources																		
IB11 to IB18	Idling Sources - Land Use 1	21	5	4	2	4	0.250	4.30E+00	6.50E-02	3.51E-01	2.61E-01	4.98E+00	1.000	4.59E+00	9.56E+00	2.11E-02	1.11E-04	0
	Idling Sources - Land Use 2	15	4	1	0	3	0.250	3.06E+00	4.63E-02	7.42E-02	5.51E-02	3.24E+00	1.000	3.44E+00	6.68E+00	1.47E-02	7.73E-05	0
Totals		**36**	**9**	**5**	**2**	**7**		**7.36E+00**	**1.11E-01**	**4.25E-01**	**3.16E-01**	**8.21E+00**		**8.03E+00**	**1.62E+01**	**3.58E-02**	**1.88E-04**	1.21E-10

Daily Operation = 24 per day
Operation Days = 365 days/year
TRU Emissions
TRU Emission Rate = 1.15 g/hr

Daily Truck idle emissions = Idle EF (g/hr) * idle time (min)/60 / daily hours (hr)/3600 * No. trucks

Daily TRU emissions = TRU Emission Rate (g/hr) * TRU run time (min)/60 / Daily Hours (hr) * No. TRUs

Diesel Diesel Truck Emission Factors
LHDT1 Truck Idle Emissions (g/hr)= 0.331 g/hr
LHDT2 Truck Idle Emissions (g/hr)= 0.553 g/hr
MHDT Truck Idle Emissions (g/hr) = 0.050 g/hr
HHD Truck Idle Emissions (g/hr) = 0.813 g,hr

Truck idle time (min) = 60 min
Notes:
TRU emission factor from OFFROAD2017

Idling emission factor derived from CARB EMFAC2021 model as the fleet average for Los Angeles County 2026
Since the emission factors for LAC are the highest within the SCAQMD

Carmenita Road Proposed Project **Year: 2026**
Emissions from Offsite Vehicle Travel

Truck Operations

Off-Site Truck Delivery Emissions - Alternative 1

		Trip		Number of	Number of	Number of	Number of	Number of	HHDT	MHDT	LHDT1	LHDT2	Total Emissions			
		Length	Operations	HHDT Trips	MHDT	LHDT1	LHDT2	TRU Trips	Emissions	Emissions	Emissions	Emissions	Truck Emissions	TRU Total	Daily Total	Hourly Ave
AERMOD ID	Trip Description	(mi)	(hr)	(trips/day)	(trips/day)	(trips/day)	(trips/day)	(number)	(grams/day)	(grams/day)	(grams/day)	(grams/day)	(g/day)	(grams/day)	(lbs/day)	(grams/sec)
OFFSITE1	Offsite 1: Site>Carmenita	0.070	24	4	1	1	0	0	1.79E-03	6.64E-04	1.07E-03	4.84E-04	4.00E-03	0.00E+00	8.82E-06	4.63E-08
OFFSITE2	Offsite 2: Excelsior>Intersection	0.256	24	69	17	10	4	14	1.25E-01	4.64E-02	7.46E-02	3.39E-02	2.80E-01	1.64E-01	9.78E-04	5.14E-06
OFFSITE3	Offsite 3: Intersection> I5 Junction	0.057	24	72	18	10	5	15	2.92E-02	1.08E-02	1.74E-02	7.91E-03	6.54E-02	3.91E-02	2.30E-04	1.21E-06
OFFSITE4	Offsite 4: I5 Junction> I5-N ramp	0.285	24	36	9	5	2	3	7.33E-02	2.73E-02	4.38E-02	1.99E-02	1.64E-01	3.93E-02	4.48E-04	2.36E-06
OFFSITE5	Offsite 5: I5 Junction> I5-S ramp	0.365	24	36	9	5	2	3	9.37E-02	3.48E-02	5.60E-02	2.54E-02	2.10E-01	5.02E-02	5.73E-04	3.01E-06
OFFSITE6	Offsite 6: Carmenita>Intersection	0.070	24	5	4	1	0	0	2.22E-03	2.71E-03	1.07E-03	4.84E-04	6.49E-03	0.00E+00	1.43E-05	7.51E-08
Total				**218**	**56**	**31**	**14**	**35**	**3.25E-01**	**1.23E-01**	**1.94E-01**	**8.80E-02**	**7.30E-01**	**2.93E-01**	**2.25E-03**	**1.18E-05**

Operation Days = 365
Delivery Truck Hours (hrs/day) = 24
Delivery Truck Speed (mph) = 25

Daily Truck Emissions = Emission Factor (g/mi) * (Truck trips/day) * (miles/Truck Trip)

Daily TRU Emissions = Emission Rate (g/hr) * (TRU Trips/day /Speed (m/hr) * (miles/TRU Trip)

Diesel Truck Emission Factors (EMFAC2021)
2-axle LHDT1 (g/mi)= 0.030
2-axle LHDT2 (g/mi) = 0.030
3-Axle MHDT (g/mi) = 0.011
4-Axle HHD (g/mi) = 0.007

Truck emissions for trucks based on EMFAC 2021 for truck speed of 25 mph and Norwalk- SCAQMD 2026

TRU Emission Factor
TRU Emission Rate[a] (g/hr) = 1.15
TRU run time during travel (hr) = Road Length (mi)/Truck Speed (mph)
Notes:
TRU emission factor from OFFROAD2017

APPENDIX D.1 – ESTIMATION OF CONSTRUCTION CANCER RISK

Carmenita Industrial Project

Exposure Durations During Construction

	Start	End	Days	% Year
Calendar Construction Days	2/3/2025	2/19/2026	381	1.04
3rd Trimester (2025)	2/3/2025	5/5/2025	91	0.25
0-1 year (2025)	5/6/2025	12/31/2025	239	0.65
0-1 year (2026)	1/1/2026	2/19/2026	49	0.13
				1.04

3:58

Carmenita Industrial Project **2026** **Unmitigated**

Annual DPM Concentrations at Maximum Impacted Sensitive and Worker Receptor

Onsite Unit Emission Source Rate

Size of Construction Area	13,462	m2	
Unit EmissionRate:	7.42832E-05	g/m2-sec	> Plugged this into Area Source

Inputs:

Actual Onsite Emission Source

Year	Average Hourly Emission Rate (g/m2-sec)
2025	8.06608E-07
2026	4.28926E-07

Weighted Avg (g/m2-sec) Area Source:
5.36E-07

Offsite Unit Emission Source: 0.001 g/sec

Year	Average Hourly Emission Rate (g/sec)		New 60mi Inputs (g/sec)
2025	7.02541E-06	Excelsior>Carmenita Intersection	**1.20539E-07**
		I-5 N	**5.50213E-08**
2026	4.20036E-06	I-5 S	**7.03223E-08**

Max Period Concentration

MAX VALUES	
Max=School	1.61806
Max=Residentia	2.20722
Max^	2.20722
Max=Worker	15.2166
Residential	

Results:

Modeled Annual DPM Concentrations at Maximum Impacted Sensitive Receptor

Year	Emission Source	Model Output (1) (ug/m3)	Actual DPM Concentration (ug/m3)	Total Annual (ug/m3)
2025	Onsite		0.0000	8.35E-02
	Offsite		0	
2026	Onsite		0.0000	0.00E+00
	Offsite		0	

Modeled Annual DPM Concentrations at Maximum Impacted Worker Receptor

Year	Emission Source	Model Output (1) (ug/m3)	Actual DPM Concentration (ug/m3)	Total Annual (ug/m3)
2025	Onsite		0.0000	2.7251
	Offsite		0	
2026	Onsite		0.0000	0.0000
	Offsite		0	

Note:
(1) Based on a unit emission rate

Carmenita Industrial Project No Mitigation

Cancer Risk Calculation - Location of Max Risk

SCAQMD Guidance	**Residential**	**30-year Exposure**	**Total Cancer risk**	**HI**
			10.16	0.017

Maximum Period DPM Concentration **8.35E-02** ug/m3

Year	**Year**	**Maximum DPM (ug/m3)**	**CPF (mg/kg-day)^-1**	**95% DBR (l/kg-day)**	**ED (years)**	**EF (days)**	**AT (years)**	**TAH (%)**	**ASF**	**Operational Risk (risk/million)**
3rd Trimester	2025	0.08349	1.1	361	0.25	350	25550	0.85	10	0.96
1	2025	0.08349	1.1	1090	0.65	350	25550	0.85	10	7.63
2	2026	0.08349	1.1	1090	0.13	350	25550	0.85	10	1.56
3	2027	0.00000								0.00
4	2028	0.00000								0.00
5	2029	0.00000								0.00
6	2030	0.00000								0.00
7	2031	0.00000								0.00
8	2032	0.00000								0.00
9	2033	0.00000								0.00
10	2034	0.00000								0.00
11	2035	0.00000								0.00
12	2036	0.00000								0.00
13	2037	0.00000								0.00
14	2038	0.00000								0.00
15	2039	0.00000								0.00
16	2040	0.00000								0.00
17	2041	0.00000								0.00
18	2042	0.00000								0.00
19	2043	0.00000								0.00
20	2044	0.00000								0.00
21	2045	0.00000								0.00
22	2046	0.00000								0.00
23	2047	0.00000								0.00
24	2048	0.00000								0.00
25	2049	0.00000								0.00
26	2050	0.00000								0.00
27	2051	0.00000								0.00
28	2052	0.00000								0.00
29	2053	0.00000								0.00
30	2054	0.00000								0.00

Carmenita Industrial Project

No Mitigation

Cancer Risk Calculation - Location of Max Risk

SCAQMD Guidance	Child	9-year Exposure	Total Cancer risk
			10.16

Maximum Period DPM Concentration 0.08349 ug/m3

Year	Year	Maximum DPM (ug/m3)	CPF (mg/kg-day)^-1	95% DBR (l/kg-day)	ED (years)	EF (days)	AT (years)	TAH (%)	ASF	Operational Risk (risk/million)
3rd Trimester	2025	0.08349	1.1	361	0.25	350	25550	0.85	10	0.96
1	2025	0.08349	1.1	1090	0.65	350	25550	0.85	10	7.63
2	2026	0.08349	1.1	1090	0.13	350	25550	0.85	10	1.56
3	2027	0.00000								0.00
4	2028	0.00000								0.00
5	2029	0.00000								0.00
6	2030	0.00000								0.00
7	2031	0.00000								0.00
8	2032	0.00000								0.00
9	2033	0.00000								0.00

Carmenita Industrial Project

No Mitigation

Cancer Risk Calculation - Location of Max Risk

SCAQMD Guidance	Residential	30-year Exposure	Adult	Total Cancer risk
				0.28

Maximum Period DPM Concentration 0.08349 ug/m3

Year	Year	Maximum DPM (ug/m3)	CPF (mg/kg-day)^-1	95% DBR (l/kg-day)	ED (years)	EF (days)	AT (years)	TAH (%)	ASF	Operational Risk (risk/million)
1	2025	0.08349	1.1	290	0.90	350	25550	0.73	1	0.24
2	2026	0.08349	1.1	290	0.13	350	25550	0.73	1	0.04
3	2027	0.00000								0.00
4	2028	0.00000								0.00
5	2029	0.00000								0.00
6	2030	0.00000								0.00
7	2031	0.00000								0.00
8	2032	0.00000								0.00
9	2033	0.00000								0.00
10	2034	0.00000								0.00
11	2035	0.00000								0.00
12	2036	0.00000								0.00
13	2037	0.00000								0.00
14	2038	0.00000								0.00
15	2039	0.00000								0.00
16	2040	0.00000								0.00
17	2041	0.00000								0.00
18	2042	0.00000								0.00
19	2043	0.00000								0.00
20	2044	0.00000								0.00
21	2045	0.00000								0.00
22	2046	0.00000								0.00
23	2047	0.00000								0.00
24	2048	0.00000								0.00
25	2049	0.00000								0.00
26	2050	0.00000								0.00
27	2051	0.00000								0.00
28	2052	0.00000								0.00
29	2053	0.00000								0.00
30	2054	0.00000								0.00

Carmenita Industrial Project

No Mitigation

Cancer Risk Calculation - Location of Max Risk

SCAQMD Guidance	**Residential**	**70-year Exposure**		**Total Cancer risk**
				10.16
Maximum Period DPM Concentration		**8.35E-02**	ug/m3	

Year	Year	Maximum DPM (ug/m3)	CPF (mg/kg-day)^-1	95% DBR (l/kg-day)	ED (years)	EF (days)	AT (years)	TAH (%)	ASF	Operational Risk (risk/million)
3rd Trimester	2025	0.08349	1.1	361	0.25	350	25550	0.85	10	0.96
1	2025	0.08349	1.1	1090	0.65	350	25550	0.85	10	7.63
2	2026	0.08349	1.1	1090	0.13	350	25550	0.85	10	1.56
3										0.00
4										0.00
5										0.00
6										0.00
7										0.00
8										0.00
9										0.00
10										0.00
11										0.00
12										0.00
13										0.00
14										0.00
15										0.00
16										0.00
17										0.00
18										0.00
19										0.00
20										0.00
21										0.00
22										0.00
23										0.00
24										0.00
25										0.00
26										0.00
27										0.00
28										0.00
29										0.00
30										0.00

Carmenita Industrial Project No Mitigation

Cancer Risk Calculation - Location of Max Risk

SCAQMD Guidance	**Worker**	**25-year Exposure**							**Total Cancer risk**	
									7.00	0.55

Maximum Period DPM Concentration **2.72514** ug/m3

Year	**Year**	**Maximum DPM (ug/m3)**	**CPF (mg/kg-day)^-1**	**DBR (l/kg-day)**	**ED (years)**	**EF (days)**	**AT (years)**	**TAH (%)**	**ASF**	**Operational Risk (risk/million)**
1	2025	2.72514	1.1	230	0.90	250	25550	1	1	6.10
2	2026	2.72514	1.1	230	0.13	250	25550	1	1	0.91
3	2026									0.00
4	2027									0.00
5	2028									0.00
6	2029									0.00
7	2030									0.00
8	2031									0.00
9	2032									0.00
10	2033									0.00
11	2034									0.00
12	2035									0.00
13	2036									0.00
14	2037									0.00
15	2038									0.00
16	2039									0.00
17	2040									0.00
18	2041									0.00
19	2042									0.00
20	2043									0.00
21	2044									0.00
22	2045									0.00
23	2046									0.00
24	2047									0.00
25	2048									0.00

APPENDIX D.2 – ESTIMATION OF MITIGATED CONSTRUCTION CANCER RISK

Carmenita Industrial Project Mitigated *Area Source Changes for Mitigated

Annual DPM Concentrations at Maximum Impacted Sensitive and Worker Receptor

Onsite Unit Emission Source Rate

Size of Construction Area	13462	m2	
Unit EmissionRate:	7.42832E-05	g/m2-sec	> Plugged this into Area Source

Inputs:

Actual Onsite Emission Source

Year	Average Hourly Emission Rate (g/m2-sec)	Weighted Avg (g/m2-sec)
2025	8.06608E-07	**Area Source:**
2026	4.28926E-07	5.01E-08

Offsite Unit Emission Source: 0.001 g/sec

Year	Average Hourly Emission Rate (g/sec)		New 60mi Inputs (g/sec)	60mi with new demo	difference	percentage difference
2025	8.78115E-06	Excelsior>Carmenita Intersection	**1.179E-07**	1.1795E-07	0.000000000002	0%
		I-5 N	**5.384E-08**	5.50213E-08	0.000000001182	2%
2026	4.20036E-06	I-5 S	**6.881E-08**	7.03223E-08	0.000000001511	2%

Results:

Modeled Annual DPM Concentrations at Maximum Impacted Sensitive Receptor

Year	Emission Source	Model Output (1) (ug/m3)	Actual DPM Concentration (ug/m3)	Total Annual (ug/m3)
2025	Onsite		0.0000	0.008570
	Offsite		0	
2026	Onsite		0.0000	0.00E+00
	Offsite		0	

Modeled Annual DPM Concentrations at Maximum Impacted Worker Receptor

Year	Emission Source	Model Output (1) (ug/m3)	Actual DPM Concentration (ug/m3)	Total Annual (ug/m3)
2025	Onsite		0.0000	0.2798
	Offsite		0	
2026	Onsite		0.0000	0.0000
	Offsite		0	

Max=School
Max=Residential
Max^
Max=Worker
Residential

Note:
(1) Based on a unit emission rate

Carmenita Industrial Project No Mitigation

Cancer Risk Calculation - Location of Max Risk

SCAQMD Guidance	**Residential**	**30-year Exposure**	**Total Cancer risk**	**HI**
			1.04	0.0017

Maximum Period DPM Concentration **8.57E-03** ug/m3

Year	**Year**	**Maximum DPM (ug/m3)**	**CPF (mg/kg-day)^-1**	**95% DBR (l/kg-day)**	**ED (years)**	**EF (days)**	**AT (years)**	**TAH (%)**	**ASF**	**Operational Risk (risk/million)**
3rd Trimester	2025	0.00857	1.1	361	0.25	350	25550	0.85	10	0.10
1	2025	0.00857	1.1	1090	0.65	350	25550	0.85	10	0.78
2	2026	0.00857	1.1	1090	0.13	350	25550	0.85	10	0.16
3	2027	0.00000								0.00
4	2028	0.00000								0.00
5	2029	0.00000								0.00
6	2030	0.00000								0.00
7	2031	0.00000								0.00
8	2032	0.00000								0.00
9	2033	0.00000								0.00
10	2034	0.00000								0.00
11	2035	0.00000								0.00
12	2036	0.00000								0.00
13	2037	0.00000								0.00
14	2038	0.00000								0.00
15	2039	0.00000								0.00
16	2040	0.00000								0.00
17	2041	0.00000								0.00
18	2042	0.00000								0.00
19	2043	0.00000								0.00
20	2044	0.00000								0.00
21	2045	0.00000								0.00
22	2046	0.00000								0.00
23	2047	0.00000								0.00
24	2048	0.00000								0.00
25	2049	0.00000								0.00
26	2050	0.00000								0.00
27	2051	0.00000								0.00
28	2052	0.00000								0.00
29	2053	0.00000								0.00
30	2054	0.00000								0.00

Carmenita Industrial Project

No Mitigation

Cancer Risk Calculation - Location of Max Risk

SCAQMD Guidance	Child	9-year Exposure	Total Cancer risk
			1.04

Maximum Period DPM Concentration 0.00857 ug/m3

Year	Year	Maximum DPM (ug/m3)	CPF (mg/kg-day)^-1	95% DBR (l/kg-day)	ED (years)	EF (days)	AT (years)	TAH (%)	ASF	Operational Risk (risk/million)
3rd Trimester	2025	0.00857	1.1	361	0.25	350	25550	0.85	10	0.10
1	2025	0.00857	1.1	1090	0.65	350	25550	0.85	10	0.78
2	2026	0.00857	1.1	1090	0.13	350	25550	0.85	10	0.16
3	2027	0.00000								0.00
4	2028	0.00000								0.00
5	2029	0.00000								0.00
6	2030	0.00000								0.00
7	2031	0.00000								0.00
8	2032	0.00000								0.00
9	2033	0.00000								0.00

Carmenita Industrial Project

No Mitigation

Cancer Risk Calculation - Location of Max Risk

SCAQMD Guidance	Residential	30-year Exposure	Adult	Total Cancer risk
				0.03

Maximum Period DPM Concentration 0.00857 ug/m3

Year	Year	Maximum DPM (ug/m3)	CPF (mg/kg-day)^-1	95% DBR (l/kg-day)	ED (years)	EF (days)	AT (years)	TAH (%)	ASF	Operational Risk (risk/million)
1	2025	0.00857	1.1	290	0.90	350	25550	0.73	1	0.02
2	2026	0.00857	1.1	290	0.13	350	25550	0.73	1	0.00
3	2027	0.00000								0.00
4	2028	0.00000								0.00
5	2029	0.00000								0.00
6	2030	0.00000								0.00
7	2031	0.00000								0.00
8	2032	0.00000								0.00
9	2033	0.00000								0.00
10	2034	0.00000								0.00
11	2035	0.00000								0.00
12	2036	0.00000								0.00
13	2037	0.00000								0.00
14	2038	0.00000								0.00
15	2039	0.00000								0.00
16	2040	0.00000								0.00
17	2041	0.00000								0.00
18	2042	0.00000								0.00
19	2043	0.00000								0.00
20	2044	0.00000								0.00
21	2045	0.00000								0.00
22	2046	0.00000								0.00
23	2047	0.00000								0.00
24	2048	0.00000								0.00
25	2049	0.00000								0.00
26	2050	0.00000								0.00
27	2051	0.00000								0.00
28	2052	0.00000								0.00
29	2053	0.00000								0.00
30	2054	0.00000								0.00

Carmenita Industrial Project

No Mitigation

Cancer Risk Calculation - Location of Max Risk

			Total Cancer risk
SCAQMD Guidance	**Residential**	**70-year Exposure**	1.04

Maximum Period DPM Concentration **8.57E-03** ug/m3

Year	Year	Maximum DPM (ug/m3)	CPF (mg/kg-day)^-1	95% DBR (l/kg-day)	ED (years)	EF (days)	AT (years)	TAH (%)	ASF	Operational Risk (risk/million)
3rd Trimester	2025	0.00857	1.1	361	0.25	350	25550	0.85	10	0.10
1	2025	0.00857	1.1	1090	0.65	350	25550	0.85	10	0.78
2	2026	0.00857	1.1	1090	0.13	350	25550	0.85	10	0.16
3										0.00
4										0.00
5										0.00
6										0.00
7										0.00
8										0.00
9										0.00
10										0.00
11										0.00
12										0.00
13										0.00
14										0.00
15										0.00
16										0.00
17										0.00
18										0.00
19										0.00
20										0.00
21										0.00
22										0.00
23										0.00
24										0.00
25										0.00
26										0.00
27										0.00
28										0.00
29										0.00
30										0.00

Carmenita Industrial Project No Mitigation

Cancer Risk Calculation - Location of Max Risk

SCAQMD Guidance	Worker	25-year Exposure	Total Cancer risk	HI
			0.72	0.06

Maximum Period DPM Concentration **0.27981** ug/m3

Year	Year	Maximum DPM (ug/m3)	CPF (mg/kg-day)^-1	DBR (l/kg-day)	ED (years)	EF (days)	AT (years)	TAH (%)	ASF	Operational Risk (risk/million)
1	2025	0.27981	1.1	230	0.90	250	25550	1	1	0.63
2	2026	0.27981	1.1	230	0.13	250	25550	1	1	0.09
3	2026									0.00
4	2027									0.00
5	2028									0.00
6	2029									0.00
7	2030									0.00
8	2031									0.00
9	2032									0.00
10	2033									0.00
11	2034									0.00
12	2035									0.00
13	2036									0.00
14	2037									0.00
15	2038									0.00
16	2039									0.00
17	2040									0.00
18	2041									0.00
19	2042									0.00
20	2043									0.00
21	2044									0.00
22	2045									0.00
23	2046									0.00
24	2047									0.00
25	2048									0.00

APPENDIX D.3 – ESTIMATION OF OPERATIONAL CANCER RISK

Carmenita Road Proposed Project Non-mitigated

Pollutant: DPM
Year: 2026

Emission Summary

Onsite Emissions		**Emissions (g/sec)**	**Emissions (lbs/day)**
ONSITE1	Excelsior >Loading Docks (Land Use 1)	5.75E-06	1.09E-03
OS1B2	Excelsior > Loading Docks (Land Use 2	3.04E-06	5.78E-04
ONSITE2	Carmenita>Loading Docks (Land Use 1	1.92E-07	3.65E-05
OS2B2	Carmenita>Loading Docks (Land Use 2	1.08E-07	2.05E-05
	Total	9.09E-06	1.73E-03
	Onsite 1 (Excelsior)	8.79E-06	1.67E-03
	Onsite 2 (Carmenita)	3.00E-07	5.70E-05

Idling Emissions		**Emissions (g/sec)**	**Emissions (lbs/day)**	
IB1	Idling Sources - Land Use 1	1.11E-04	2.11E-02	These idling emissions wold be subdivided by
IB2	Idling Sources - Land Use 2	7.73E-05	1.47E-02	the number of idling point source assumed in the calculation
	Total	1.88E-04	3.58E-02	
	Idle Average	9.40E-05	1.79E-02	

Offsite Emissions	**Emissons (g/sec)**	**Emissions (lb/day)**
Offsite 1: Site>Carmenita	4.63E-08	8.82E-06
Offsite 2: Excelsior>Intersection	5.14E-06	9.78E-04
Offsite 3: Intersection> I5 Junction	1.21E-06	2.30E-04
Offsite 4: I5 Junction> I5-N ramp	2.36E-06	4.48E-04
Offsite 5: I5 Junction> I5-S ramp	3.01E-06	5.73E-04
Offsite 6: Carmenita>Intersection	7.51E-08	1.43E-05
Total	1.18E-05	2.25E-03

Total Emissions (Offsite Alternative 1)

	Emissons (g/sec)	**Emissions (lb/day)**
Total	**2.09E-04**	**3.98E-02**

Max Period Concentration

MAX VALUES
Max=School
Max=Residential
Onsite Max^
Offsite Max^
Max=Worker
Onsite Worker

Modeled Annual DPM Concentrations at Maximum Impacted Sensitive Receptor

Year	**Emission Source**	**Model Output (1) (ug/m3)**	**Actual DPM Concentration (ug/m3)**	**Max Total Annual (ug/m3)**
2025	Onsite			
	Offsite			
2026	Onsite			**8.40E-03**
	Offsite			

Modeled Annual DPM Concentrations at Maximum Impacted Worker Receptor

Year	**Emission Source**	**Model Output (1) (ug/m3)**	**Actual DPM Concentration (ug/m3)**	**Max Total Annual (ug/m3) 2025**
2025	Onsite			
	Offsite			
2026	Onsite			**0.0534**
	Offsite			

Carmenita Road Proposed Project

Non-mitigated

Cancer Risk Calculation - Location of Max Risk

			Total Cancer risk	Chronic Non-cancer Hazard
SCAQMD Guidance	**Residential**	**30-year Exposure**	5.727	0.001680

Annual DPM Concentration at Max Impacted Sensiive Receptor **8.40E-03** **ug/m3**

Year	Year	Maximum DPM (ug/m3)	CPF (mg/kg-day)^-1	95% DBR (l/kg-day)	ED (years)	EF (days)	AT (years)	TAH (%)	ASF	Operational Risk (risk/million)
3rd Trimester	2026	0.00840	1.1	361	0.25	350	25550	0.85	10	0.10
1	2026	0.00840	1.1	1090	1	350	25550	0.85	10	1.17
2	2027	0.00840	1.1	1090	1	350	25550	0.85	10	1.17
3	2028	0.00840	1.1	745	1	350	25550	0.72	3	0.20
4	2029	0.00840	1.1	745	1	350	25550	0.72	3	0.20
5	2030	0.00840	1.1	745	1	350	25550	0.72	3	0.20
6	2031	0.00840	1.1	745	1	350	25550	0.72	3	0.20
7	2032	0.00840	1.1	745	1	350	25550	0.72	3	0.20
8	2033	0.00840	1.1	745	1	350	25550	0.72	3	0.20
9	2034	0.00840	1.1	745	1	350	25550	0.72	3	0.20
10	2035	0.00840	1.1	745	1	350	25550	0.72	3	0.20
11	2036	0.00840	1.1	745	1	350	25550	0.72	3	0.20
12	2037	0.00840	1.1	745	1	350	25550	0.72	3	0.20
13	2038	0.00840	1.1	745	1	350	25550	0.72	3	0.20
14	2039	0.00840	1.1	745	1	350	25550	0.72	3	0.20
15	2040	0.00840	1.1	745	1	350	25550	0.72	3	0.20
16	2041	0.00840	1.1	745	1	350	25550	0.72	3	0.20
17	2042	0.00840	1.1	335	1	350	25550	0.73	1	0.03
18	2043	0.00840	1.1	335	1	350	25550	0.73	1	0.03
19	2044	0.00840	1.1	335	1	350	25550	0.73	1	0.03
20	2045	0.00840	1.1	335	1	350	25550	0.73	1	0.03
21	2046	0.00840	1.1	335	1	350	25550	0.73	1	0.03
22	2047	0.00840	1.1	335	1	350	25550	0.73	1	0.03
23	2048	0.00840	1.1	335	1	350	25550	0.73	1	0.03
24	2049	0.00840	1.1	335	1	350	25550	0.73	1	0.03
25	2050	0.00840	1.1	335	1	350	25550	0.73	1	0.03
26	2051	0.00840	1.1	335	1	350	25550	0.73	1	0.03
27	2052	0.00840	1.1	335	1	350	25550	0.73	1	0.03
28	2053	0.00840	1.1	335	1	350	25550	0.73	1	0.03
29	2054	0.00840	1.1	335	1	350	25550	0.73	1	0.03
30	2055	0.00840	1.1	335	1	350	25550	0.73	1	0.03

Carmenita Road Proposed Project

Non-mitigated

Cancer Risk Calculation - Location of Max Risk

SCAQMD Guidance	**Residential**	**Child (9 years)**	**Total Cancer risk**
			4.090

Annual DPM Concentration at Max Impacted Sensiive Receptor **8.40E-03** **ug/m3**

Year	**Year**	**Maximum DPM (ug/m3)**	**CPF (mg/kg-day)^-1**	**95% DBR (l/kg-day)**	**ED (years)**	**EF (days)**	**AT (years)**	**TAH (%)**	**ASF**	**Operational Risk (risk/million)**
3rd Trimester	2026	0.00840	1.1	361	0.25	350	25550	0.85	10	0.10
1	2026	0.00840	1.1	1090	1	350	25550	0.85	10	1.17
2	2027	0.00840	1.1	1090	1	350	25550	0.85	10	1.17
3	2028	0.00840	1.1	861	1	350	25550	0.72	3	0.24
4	2029	0.00840	1.1	861	1	350	25550	0.72	3	0.24
5	2030	0.00840	1.1	861	1	350	25550	0.72	3	0.24
6	2031	0.00840	1.1	861	1	350	25550	0.72	3	0.24
7	2032	0.00840	1.1	861	1	350	25550	0.72	3	0.24
8	2033	0.00840	1.1	861	1	350	25550	0.72	3	0.24
9	2034	0.00840	1.1	861	1	350	25550	0.72	3	0.24

Carmenita Road Proposed Project

Non-mitigated

Cancer Risk Calculation - Location of Max Risk

					Total Cancer risk
SCAQMD Guidance	**Residential**	**30-year Exposure**	**Adult**		0.929

Annual DPM Concentration at Max Impacted Sensiive Receptor **8.40E-03** **ug/m3**

Year	Year	Maximum DPM (ug/m3)	CPF (mg/kg-day)^-1	95% DBR (l/kg-day)	ED (years)	EF (days)	AT (years)	TAH (%)	ASF	Operational Risk (risk/million)
1	2026	0.00840	1.1	335	1	350	25550	0.73	1	0.03
2	2027	0.00840	1.1	335	1	350	25550	0.73	1	0.03
3	2028	0.00840	1.1	335	1	350	25550	0.73	1	0.03
4	2029	0.00840	1.1	335	1	350	25550	0.73	1	0.03
5	2030	0.00840	1.1	335	1	350	25550	0.73	1	0.03
6	2031	0.00840	1.1	335	1	350	25550	0.73	1	0.03
7	2032	0.00840	1.1	335	1	350	25550	0.73	1	0.03
8	2033	0.00840	1.1	335	1	350	25550	0.73	1	0.03
9	2034	0.00840	1.1	335	1	350	25550	0.73	1	0.03
10	2035	0.00840	1.1	335	1	350	25550	0.73	1	0.03
11	2036	0.00840	1.1	335	1	350	25550	0.73	1	0.03
12	2037	0.00840	1.1	335	1	350	25550	0.73	1	0.03
13	2038	0.00840	1.1	335	1	350	25550	0.73	1	0.03
14	2039	0.00840	1.1	335	1	350	25550	0.73	1	0.03
15	2040	0.00840	1.1	335	1	350	25550	0.73	1	0.03
16	2041	0.00840	1.1	335	1	350	25550	0.73	1	0.03
17	2042	0.00840	1.1	335	1	350	25550	0.73	1	0.03
18	2043	0.00840	1.1	335	1	350	25550	0.73	1	0.03
19	2044	0.00840	1.1	335	1	350	25550	0.73	1	0.03
20	2045	0.00840	1.1	335	1	350	25550	0.73	1	0.03
21	2046	0.00840	1.1	335	1	350	25550	0.73	1	0.03
22	2047	0.00840	1.1	335	1	350	25550	0.73	1	0.03
23	2048	0.00840	1.1	335	1	350	25550	0.73	1	0.03
24	2049	0.00840	1.1	335	1	350	25550	0.73	1	0.03
25	2050	0.00840	1.1	335	1	350	25550	0.73	1	0.03
26	2051	0.00840	1.1	335	1	350	25550	0.73	1	0.03
27	2052	0.00840	1.1	335	1	350	25550	0.73	1	0.03
28	2053	0.00840	1.1	335	1	350	25550	0.73	1	0.03
29	2054	0.00840	1.1	335	1	350	25550	0.73	1	0.03
30	2055	0.00840	1.1	335	1	350	25550	0.73	1	0.03

Carmenita Road Proposed Project Non-mitigated

Cancer Risk Calculation - Location of Max Risk

SCAQMD Guidance	**Residential**	**70-year Exposure**	**Total Cancer risk**
			6.741

Annual DPM Concentration at Max Impacted Sensitive Receptor **8.40E-03 ug/m3**

Year	Year	Maximum DPM (ug/m3)	CPF (mg/kg-day)^-1	95% DBR (l/kg-day)	ED (years)	EF (days)	AT (years)	TAH (%)	ASF	Operational Risk (risk/million)
3rd Trimester	2026	0.00840	1.1	361	0.25	350	25550	0.85	10	0.10
1	2026	0.00840	1.1	1090	1	350	25550	0.85	10	1.17
2	2027	0.00840	1.1	1090	1	350	25550	0.85	10	1.17
3	2028	0.00840	1.1	745	1	350	25550	0.72	3	0.20
4	2029	0.00840	1.1	745	1	350	25550	0.72	3	0.20
5	2030	0.00840	1.1	745	1	350	25550	0.72	3	0.20
6	2031	0.00840	1.1	745	1	350	25550	0.72	3	0.20
7	2032	0.00840	1.1	745	1	350	25550	0.72	3	0.20
8	2033	0.00840	1.1	745	1	350	25550	0.72	3	0.20
9	2034	0.00840	1.1	745	1	350	25550	0.72	3	0.20
10	2035	0.00840	1.1	745	1	350	25550	0.72	3	0.20
11	2036	0.00840	1.1	745	1	350	25550	0.72	3	0.20
12	2037	0.00840	1.1	745	1	350	25550	0.72	3	0.20
13	2038	0.00840	1.1	745	1	350	25550	0.72	3	0.20
14	2039	0.00840	1.1	745	1	350	25550	0.72	3	0.20
15	2040	0.00840	1.1	745	1	350	25550	0.72	3	0.20
16	2041	0.00840	1.1	745	1	350	25550	0.72	3	0.20
17	2042	0.00840	1.1	290	1	350	25550	0.73	1	0.03
18	2043	0.00840	1.1	290	1	350	25550	0.73	1	0.03
19	2044	0.00840	1.1	290	1	350	25550	0.73	1	0.03
20	2045	0.00840	1.1	290	1	350	25550	0.73	1	0.03
21	2046	0.00840	1.1	290	1	350	25550	0.73	1	0.03
22	2047	0.00840	1.1	290	1	350	25550	0.73	1	0.03
23	2048	0.00840	1.1	290	1	350	25550	0.73	1	0.03
24	2049	0.00840	1.1	290	1	350	25550	0.73	1	0.03
25	2050	0.00840	1.1	290	1	350	25550	0.73	1	0.03
26	2051	0.00840	1.1	290	1	350	25550	0.73	1	0.03
27	2052	0.00840	1.1	290	1	350	25550	0.73	1	0.03
28	2053	0.00840	1.1	290	1	350	25550	0.73	1	0.03
29	2054	0.00840	1.1	290	1	350	25550	0.73	1	0.03
30	2055	0.00840	1.1	290	1	350	25550	0.73	1	0.03
31	2056	0.00840	1.1	290	1	350	25550	0.73	1	0.03
32	2057	0.00840	1.1	290	1	350	25550	0.73	1	0.03
33	2058	0.00840	1.1	290	1	350	25550	0.73	1	0.03
34	2059	0.00840	1.1	290	1	350	25550	0.73	1	0.03
35	2060	0.00840	1.1	290	1	350	25550	0.73	1	0.03
36	2061	0.00840	1.1	290	1	350	25550	0.73	1	0.03
37	2062	0.00840	1.1	290	1	350	25550	0.73	1	0.03
38	2063	0.00840	1.1	290	1	350	25550	0.73	1	0.03
39	2064	0.00840	1.1	290	1	350	25550	0.73	1	0.03
40	2065	0.00840	1.1	290	1	350	25550	0.73	1	0.03
41	2066	0.00840	1.1	290	1	350	25550	0.73	1	0.03
42	2067	0.00840	1.1	290	1	350	25550	0.73	1	0.03
43	2068	0.00840	1.1	290	1	350	25550	0.73	1	0.03
44	2069	0.00840	1.1	290	1	350	25550	0.73	1	0.03
45	2070	0.00840	1.1	290	1	350	25550	0.73	1	0.03
46	2071	0.00840	1.1	290	1	350	25550	0.73	1	0.03
47	2072	0.00840	1.1	290	1	350	25550	0.73	1	0.03
48	2073	0.00840	1.1	290	1	350	25550	0.73	1	0.03
49	2074	0.00840	1.1	290	1	350	25550	0.73	1	0.03
50	2075	0.00840	1.1	290	1	350	25550	0.73	1	0.03
51	2076	0.00840	1.1	290	1	350	25550	0.73	1	0.03
52	2077	0.00840	1.1	290	1	350	25550	0.73	1	0.03
53	2078	0.00840	1.1	290	1	350	25550	0.73	1	0.03
54	2079	0.00840	1.1	290	1	350	25550	0.73	1	0.03
55	2080	0.00840	1.1	290	1	350	25550	0.73	1	0.03
56	2081	0.00840	1.1	290	1	350	25550	0.73	1	0.03
57	2082	0.00840	1.1	290	1	350	25550	0.73	1	0.03
58	2083	0.00840	1.1	290	1	350	25550	0.73	1	0.03
59	2084	0.00840	1.1	290	1	350	25550	0.73	1	0.03
60	2085	0.00840	1.1	290	1	350	25550	0.73	1	0.03
61	2086	0.00840	1.1	290	1	350	25550	0.73	1	0.03
62	2087	0.00840	1.1	290	1	350	25550	0.73	1	0.03
63	2088	0.00840	1.1	290	1	350	25550	0.73	1	0.03
64	2089	0.00840	1.1	290	1	350	25550	0.73	1	0.03
65	2090	0.00840	1.1	290	1	350	25550	0.73	1	0.03
66	2091	0.00840	1.1	290	1	350	25550	0.73	1	0.03
67	2092	0.00840	1.1	290	1	350	25550	0.73	1	0.03
68	2093	0.00840	1.1	290	1	350	25550	0.73	1	0.03
69	2094	0.00840	1.1	290	1	350	25550	0.73	1	0.03
70	2095	0.00840	1.1	290	1	350	25550	0.73	1	0.03

Carmenita Road Proposed Project

Non-mitigated

Cancer Risk Calculation - Location of Max Risk

SCAQMD Guidance	Worker	25-year Exposure	Total Cancer risk	Chronic Non-cancer Hazard
			3.305	0.0107

Annuak DPM Concentration at Max Impacted Sensiive Receptor **0.0534 ug/m3**

Year	Year	Maximum DPM (ug/m3)	CPF (mg/kg-day)^-1	DBR (l/kg-day)	ED (years)	EF (days)	AT (years)	TAH (%)	ASF	Operational Risk (risk/million)
1	2026	0.05340	1.1	230	1	250	25550	1	1	0.13
2	2027	0.05340	1.1	230	1	250	25550	1	1	0.13
3	2028	0.05340	1.1	230	1	250	25550	1	1	0.13
4	2029	0.05340	1.1	230	1	250	25550	1	1	0.13
5	2030	0.05340	1.1	230	1	250	25550	1	1	0.13
6	2031	0.05340	1.1	230	1	250	25550	1	1	0.13
7	2032	0.05340	1.1	230	1	250	25550	1	1	0.13
8	2033	0.05340	1.1	230	1	250	25550	1	1	0.13
9	2034	0.05340	1.1	230	1	250	25550	1	1	0.13
10	2035	0.05340	1.1	230	1	250	25550	1	1	0.13
11	2036	0.05340	1.1	230	1	250	25550	1	1	0.13
12	2037	0.05340	1.1	230	1	250	25550	1	1	0.13
13	2038	0.05340	1.1	230	1	250	25550	1	1	0.13
14	2039	0.05340	1.1	230	1	250	25550	1	1	0.13
15	2040	0.05340	1.1	230	1	250	25550	1	1	0.13
16	2041	0.05340	1.1	230	1	250	25550	1	1	0.13
17	2042	0.05340	1.1	230	1	250	25550	1	1	0.13
18	2043	0.05340	1.1	230	1	250	25550	1	1	0.13
19	2044	0.05340	1.1	230	1	250	25550	1	1	0.13
20	2045	0.05340	1.1	230	1	250	25550	1	1	0.13
21	2046	0.05340	1.1	230	1	250	25550	1	1	0.13
22	2047	0.05340	1.1	230	1	250	25550	1	1	0.13
23	2048	0.05340	1.1	230	1	250	25550	1	1	0.13
24	2049	0.05340	1.1	230	1	250	25550	1	1	0.13
25	2050	0.05340	1.1	230	1	250	25550	1	1	0.13

APPENDIX D.4 – ESTIMATION OF COMBINED CONSTRUCTION AND OPERATIONAL CANCER RISK

Carmenita Cancer Risk Assessment - Unmitigated Construction + Operaations

Cancer Risk Calculation - Location of Max Risk

				Total	Chronic Non-cancer
SCAQMD Guidance	**Residential**	**30-year Exposure**		**Cancer risk**	**Hazard**
	Construction:	**8.35E-02**		14.744	0.016698
	Operational:	**8.40E-03**			

Year	Year	Maximum DPM (ug/m3)	CPF (mg/kg-day)^-1	95% DBR (l/kg-day)	ED (years)	EF (days)	AT (years)	TAH (%)	ASF	Operational Risk (risk/million)	
3rd Trimester	2025	0.08349	1.1	361	0.25	350	25550	0.85	10	0.97	Construction
1	2025	0.08349	1.1	1090	0.05	350	25550	0.85	10	0.58	Construction
2	2026	0.08349	1.1	1090	0.85	350	25550	0.85	10	9.91	Construction
2	2027	0.00840	1.1	1090	0.15	350	25550	0.85	10	0.18	Operation
3	2028	0.00840	1.1	745	1	350	25550	0.72	3	0.20	Operation
4	2029	0.00840	1.1	745	1	350	25550	0.72	3	0.20	Operation
5	2030	0.00840	1.1	745	1	350	25550	0.72	3	0.20	Operation
6	2031	0.00840	1.1	745	1	350	25550	0.72	3	0.20	Operation
7	2032	0.00840	1.1	745	1	350	25550	0.72	3	0.20	Operation
8	2033	0.00840	1.1	745	1	350	25550	0.72	3	0.20	Operation
9	2034	0.00840	1.1	745	1	350	25550	0.72	3	0.20	Operation
10	2035	0.00840	1.1	745	1	350	25550	0.72	3	0.20	Operation
11	2036	0.00840	1.1	745	1	350	25550	0.72	3	0.20	Operation
12	2037	0.00840	1.1	745	1	350	25550	0.72	3	0.20	Operation
13	2038	0.00840	1.1	745	1	350	25550	0.72	3	0.20	Operation
14	2039	0.00840	1.1	745	1	350	25550	0.72	3	0.20	Operation
15	2040	0.00840	1.1	745	1	350	25550	0.72	3	0.20	Operation
16	2041	0.00840	1.1	335	1	350	25550	0.73	1	0.03	Operation
17	2042	0.00840	1.1	335	1	350	25550	0.73	1	0.03	Operation
18	2043	0.00840	1.1	335	1	350	25550	0.73	1	0.03	Operation
19	2044	0.00840	1.1	335	1	350	25550	0.73	1	0.03	Operation
20	2045	0.00840	1.1	335	1	350	25550	0.73	1	0.03	Operation
21	2046	0.00840	1.1	335	1	350	25550	0.73	1	0.03	Operation
22	2047	0.00840	1.1	335	1	350	25550	0.73	1	0.03	Operation
23	2048	0.00840	1.1	335	1	350	25550	0.73	1	0.03	Operation
24	2049	0.00840	1.1	335	1	350	25550	0.73	1	0.03	Operation
25	2050	0.00840	1.1	335	1	350	25550	0.73	1	0.03	Operation
26	2051	0.00840	1.1	335	1	350	25550	0.73	1	0.03	Operation
27	2052	0.00840	1.1	335	1	350	25550	0.73	1	0.03	Operation
28	2053	0.00840	1.1	335	1	350	25550	0.73	1	0.03	Operation
29	2054	0.00840	1.1	335	1	350	25550	0.73	1	0.03	Operation
30	2055	0.00840	1.1	335	1	350	25550	0.73	1	0.03	Operation

Carmenita Cancer Risk Assessment - Unmitigated Construction + Operaations

Cancer Risk Calculation - Location of Max Risk

SCAQMD Guidance	Worker	25-year Exposure	Total Cancer risk	Chronic Non-cancer Hazard
	Construction:	**2.72514**	5.183	0.010680
	Operational:	**0.0534**		

Year	Year	Maximum DPM (ug/m3)	CPF (mg/kg-day)^-1	95% DBR (l/kg-day)	ED (years)	EF (days)	AT (years)	TAH (%)	ASF	Operational Risk (risk/million)
1	2025	2.72514	1.1	230	0.3	250	25550	1	1	2.02
2	2026	0.05340	1.1	230	0.85	250	25550	1	1	0.11
2	2027	0.05340	1.1	230	0.05	250	25550	1	1	0.01
3	2028	0.05340	1.1	230	1	250	25550	1	1	0.13
4	2029	0.05340	1.1	230	1	250	25550	1	1	0.13
5	2030	0.05340	1.1	230	1	250	25550	1	1	0.13
6	2031	0.05340	1.1	230	1	250	25550	1	1	0.13
7	2032	0.05340	1.1	230	1	250	25550	1	1	0.13
8	2033	0.05340	1.1	230	1	250	25550	1	1	0.13
9	2034	0.05340	1.1	230	1	250	25550	1	1	0.13
10	2035	0.05340	1.1	230	1	250	25550	1	1	0.13
11	2036	0.05340	1.1	230	1	250	25550	1	1	0.13
12	2037	0.05340	1.1	230	1	250	25550	1	1	0.13
13	2038	0.05340	1.1	230	1	250	25550	1	1	0.13
14	2039	0.05340	1.1	230	1	250	25550	1	1	0.13
15	2040	0.05340	1.1	230	1	250	25550	1	1	0.13
16	2041	0.05340	1.1	230	1	250	25550	1	1	0.13
17	2042	0.05340	1.1	230	1	250	25550	1	1	0.13
18	2043	0.05340	1.1	230	1	250	25550	1	1	0.13
19	2044	0.05340	1.1	230	1	250	25550	1	1	0.13
20	2045	0.05340	1.1	230	1	250	25550	1	1	0.13
21	2046	0.05340	1.1	230	1	250	25550	1	1	0.13
22	2047	0.05340	1.1	230	1	250	25550	1	1	0.13
23	2048	0.05340	1.1	230	1	250	25550	1	1	0.13
24	2049	0.05340	1.1	230	1	250	25550	1	1	0.13
25	2050	0.05340	1.1	230	1	250	25550	1	1	0.13

Carmenita Cancer Risk Assessment - Mitigated Construction + Operaations

Cancer Risk Calculation - Location of Max Risk

				Total	Chronic Non-cancer
SCAQMD Guidance	**Residential**	**30-year Exposure**		**Cancer risk**	**Hazard**
	Construction:	**8.57E-03**		4.464	0.001714
	Operational:	**8.40E-03**			

Year	Year	Maximum DPM (ug/m3)	CPF (mg/kg-day)^-1	95% DBR (l/kg-day)	ED (years)	EF (days)	AT (years)	TAH (%)	ASF	Operational Risk (risk/million)	
3rd Trimester	2025	0.00857	1.1	361	0.25	350	25550	0.85	10	0.10	Construction
1	2025	0.00857	1.1	1090	0.05	350	25550	0.85	10	0.06	Construction
2	2026	0.00857	1.1	1090	0.85	350	25550	0.85	10	1.02	Construction
2	2027	0.00840	1.1	1090	0.15	350	25550	0.85	10	0.18	Operation
3	2028	0.00840	1.1	745	1	350	25550	0.72	3	0.20	Operation
4	2029	0.00840	1.1	745	1	350	25550	0.72	3	0.20	Operation
5	2030	0.00840	1.1	745	1	350	25550	0.72	3	0.20	Operation
6	2031	0.00840	1.1	745	1	350	25550	0.72	3	0.20	Operation
7	2032	0.00840	1.1	745	1	350	25550	0.72	3	0.20	Operation
8	2033	0.00840	1.1	745	1	350	25550	0.72	3	0.20	Operation
9	2034	0.00840	1.1	745	1	350	25550	0.72	3	0.20	Operation
10	2035	0.00840	1.1	745	1	350	25550	0.72	3	0.20	Operation
11	2036	0.00840	1.1	745	1	350	25550	0.72	3	0.20	Operation
12	2037	0.00840	1.1	745	1	350	25550	0.72	3	0.20	Operation
13	2038	0.00840	1.1	745	1	350	25550	0.72	3	0.20	Operation
14	2039	0.00840	1.1	745	1	350	25550	0.72	3	0.20	Operation
15	2040	0.00840	1.1	745	1	350	25550	0.72	3	0.20	Operation
16	2041	0.00840	1.1	335	1	350	25550	0.73	1	0.03	Operation
17	2042	0.00840	1.1	335	1	350	25550	0.73	1	0.03	Operation
18	2043	0.00840	1.1	335	1	350	25550	0.73	1	0.03	Operation
19	2044	0.00840	1.1	335	1	350	25550	0.73	1	0.03	Operation
20	2045	0.00840	1.1	335	1	350	25550	0.73	1	0.03	Operation
21	2046	0.00840	1.1	335	1	350	25550	0.73	1	0.03	Operation
22	2047	0.00840	1.1	335	1	350	25550	0.73	1	0.03	Operation
23	2048	0.00840	1.1	335	1	350	25550	0.73	1	0.03	Operation
24	2049	0.00840	1.1	335	1	350	25550	0.73	1	0.03	Operation
25	2050	0.00840	1.1	335	1	350	25550	0.73	1	0.03	Operation
26	2051	0.00840	1.1	335	1	350	25550	0.73	1	0.03	Operation
27	2052	0.00840	1.1	335	1	350	25550	0.73	1	0.03	Operation
28	2053	0.00840	1.1	335	1	350	25550	0.73	1	0.03	Operation
29	2054	0.00840	1.1	335	1	350	25550	0.73	1	0.03	Operation
30	2055	0.00840	1.1	335	1	350	25550	0.73	1	0.03	Operation

Carmenita Cancer Risk Assessment - Mitigated Construction + Operaations

Cancer Risk Calculation - Location of Max Risk

SCAQMD Guidance	Worker	25-year Exposure	Total Cancer risk	Chronic Non-cancer Hazard
	Construction:	**0.27981**	3.367	0.010680
	Operational:	**0.0534**		

Year	Year	Maximum DPM (ug/m3)	CPF (mg/kg-day)^-1	95% DBR (l/kg-day)	ED (years)	EF (days)	AT (years)	TAH (%)	ASF	Operational Risk (risk/million)
1	2025	0.27981	1.1	230	0.3	250	25550	1	1	0.21
2	2026	0.05340	1.1	230	0.85	250	25550	1	1	0.11
2	2027	0.05340	1.1	230	0.05	250	25550	1	1	0.01
3	2028	0.05340	1.1	230	1	250	25550	1	1	0.13
4	2029	0.05340	1.1	230	1	250	25550	1	1	0.13
5	2030	0.05340	1.1	230	1	250	25550	1	1	0.13
6	2031	0.05340	1.1	230	1	250	25550	1	1	0.13
7	2032	0.05340	1.1	230	1	250	25550	1	1	0.13
8	2033	0.05340	1.1	230	1	250	25550	1	1	0.13
9	2034	0.05340	1.1	230	1	250	25550	1	1	0.13
10	2035	0.05340	1.1	230	1	250	25550	1	1	0.13
11	2036	0.05340	1.1	230	1	250	25550	1	1	0.13
12	2037	0.05340	1.1	230	1	250	25550	1	1	0.13
13	2038	0.05340	1.1	230	1	250	25550	1	1	0.13
14	2039	0.05340	1.1	230	1	250	25550	1	1	0.13
15	2040	0.05340	1.1	230	1	250	25550	1	1	0.13
16	2041	0.05340	1.1	230	1	250	25550	1	1	0.13
17	2042	0.05340	1.1	230	1	250	25550	1	1	0.13
18	2043	0.05340	1.1	230	1	250	25550	1	1	0.13
19	2044	0.05340	1.1	230	1	250	25550	1	1	0.13
20	2045	0.05340	1.1	230	1	250	25550	1	1	0.13
21	2046	0.05340	1.1	230	1	250	25550	1	1	0.13
22	2047	0.05340	1.1	230	1	250	25550	1	1	0.13
23	2048	0.05340	1.1	230	1	250	25550	1	1	0.13
24	2049	0.05340	1.1	230	1	250	25550	1	1	0.13
25	2050	0.05340	1.1	230	1	250	25550	1	1	0.13