

HEALTH RISK ASSESSMENT

FOR

ELITE TRUCK REPAIR PROJECT

2041 RENE AVENUE

SACRAMENTO, CA

NOVEMBER 2022

PREPARED FOR:

AREA WEST ENVIRONMENTAL
6248 MAIN AVE SUITE #C,
ORANGEVALE, CA 95662

PREPARED BY:



75 FIGUERA STREET, SUITE 105
SAN LUIS OBISPO, CA 93401

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INTRODUCTION

This report was prepared for the purpose of documenting potential on-site health risks associated with the proposed Elite Truck Repair Project, located at 2041 Rene Avenue, APN: 238-0150-002. The project includes the development of a heavy-duty truck repair facility located adjacent to and north of Rene Avenue. This report was prepared for informational purposes based on guidance from the Office of Environmental Health Hazard Assessment (OEHHA) and the Sacramento Metropolitan Air Quality Management District (SMAQMD).

PROPOSED PROJECT SUMMARY

The owners of the parcel, Elite Truck Repair LLC, propose to construct a new truck service facility to provide minor truck service, truck parking, warehouse space, and administrative office space. The project is being designed to provide service to electric powered trucks. The proposed truck service building is approximately 20,850 square feet and includes: a pre-engineered metal building combined with an office standard metal frame; five service bays for minor repairs and service; a warehouse; truck driver and mechanic locker rooms, visiting trucker lounge and laundry; parts storage, storage area; administrative offices; and a dispatch office. The site would provide truck maintenance service, oil changes, brake service, alignments, and tire changes. Photovoltaic solar panels will be mounted on a "cool" roof. No emergency generators would be required for the facility. Maps depicting the project vicinity and project location are presented in Figure 1 and Figure 2, respectively. The proposed project site is depicted in Figure 3 and the proposed site plan is depicted in Figure 4.

The business would be operational 5 days a week, Monday through Friday from 6:00 a.m. to 5:00 p.m., and would employ the use of a forklift and an air compressor.

Existing Setting

The project is located in Sacramento, California within the Sacramento Valley Air Basin (SVAB) and is subject to the jurisdiction of the SMAQMD. Air quality in the SVAB is influenced by a variety of factors, including topography, and local and regional meteorology.

Topography and Meteorology

Sacramento County is located within the boundaries of the SVAB. The SVAB is bounded by the North Coast Ranges on the west and the Northern Sierra Nevada Mountains on the east. The intervening terrain is flat. Sacramento is often described as a bowl shaped valley.

The Sacramento Valley has a Mediterranean climate, characterized by hot dry summers and mild rainy winters. During the year the temperature may range from 20 to 115 degrees Fahrenheit with summer highs usually in the 90s and winter lows occasionally below freezing. Average annual rainfall is about 20 inches with snowfall being very rare. The prevailing winds are moderate in strength and vary from moist breezes from the south to dry land flows from the north.

The mountains surrounding the Sacramento Valley create a barrier to airflow, which can trap air pollutants in the valley when meteorological conditions are right and a temperature inversion exists. Air stagnation in the autumn and early winter occurs when large high-pressure cells lie over the valley. The lack of surface wind during these periods and the reduced vertical flow caused by less surface heating reduces the influx of outside air and allows pollutants to become concentrated in the air. The surface concentrations of pollutants are highest when these conditions are combined with increased levels of smoke or when temperature inversions trap cool air, fog, and pollutants near the ground.

The ozone season (May through October) in the Sacramento Valley is characterized by stagnant morning air or light winds with the Delta sea breeze arriving in the afternoon out of the southwest. Usually, the evening breeze transports the airborne pollutants to the north out of the Sacramento Valley. During about half of the days from July to September, however, a phenomenon called the "Schultz Eddy" prevents this from occurring. Instead of allowing for the prevailing wind patterns to move north carrying the pollutants out of the valley, the Schultz Eddy causes the wind pattern and pollutants to circle back southward. This phenomenon's effect exacerbates the pollution levels in the area and increases the likelihood of violating the federal and state air quality standards (SMAQMD 2020)

Figure 1 . Project Vicinity

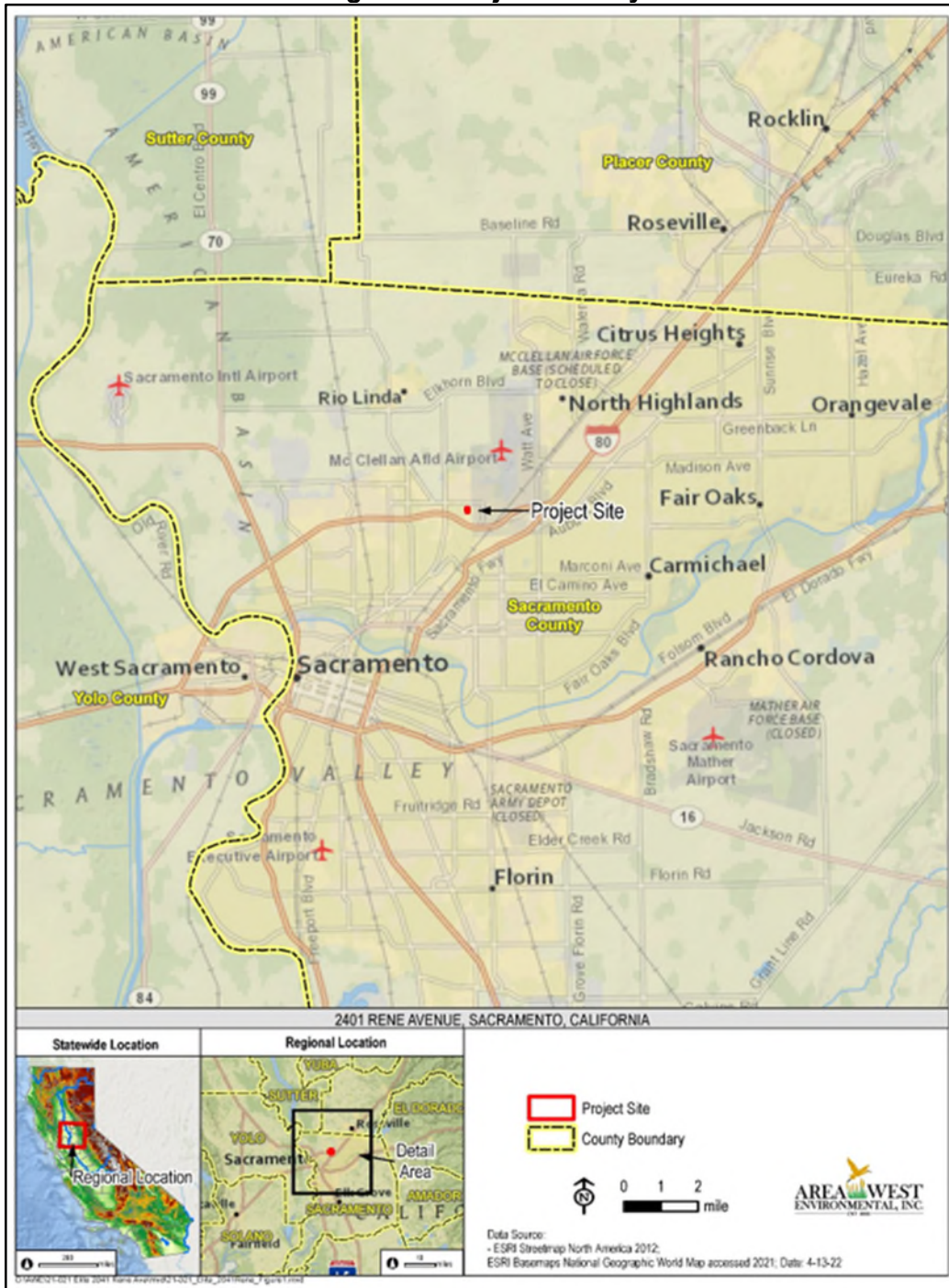


Figure 2. Project Location

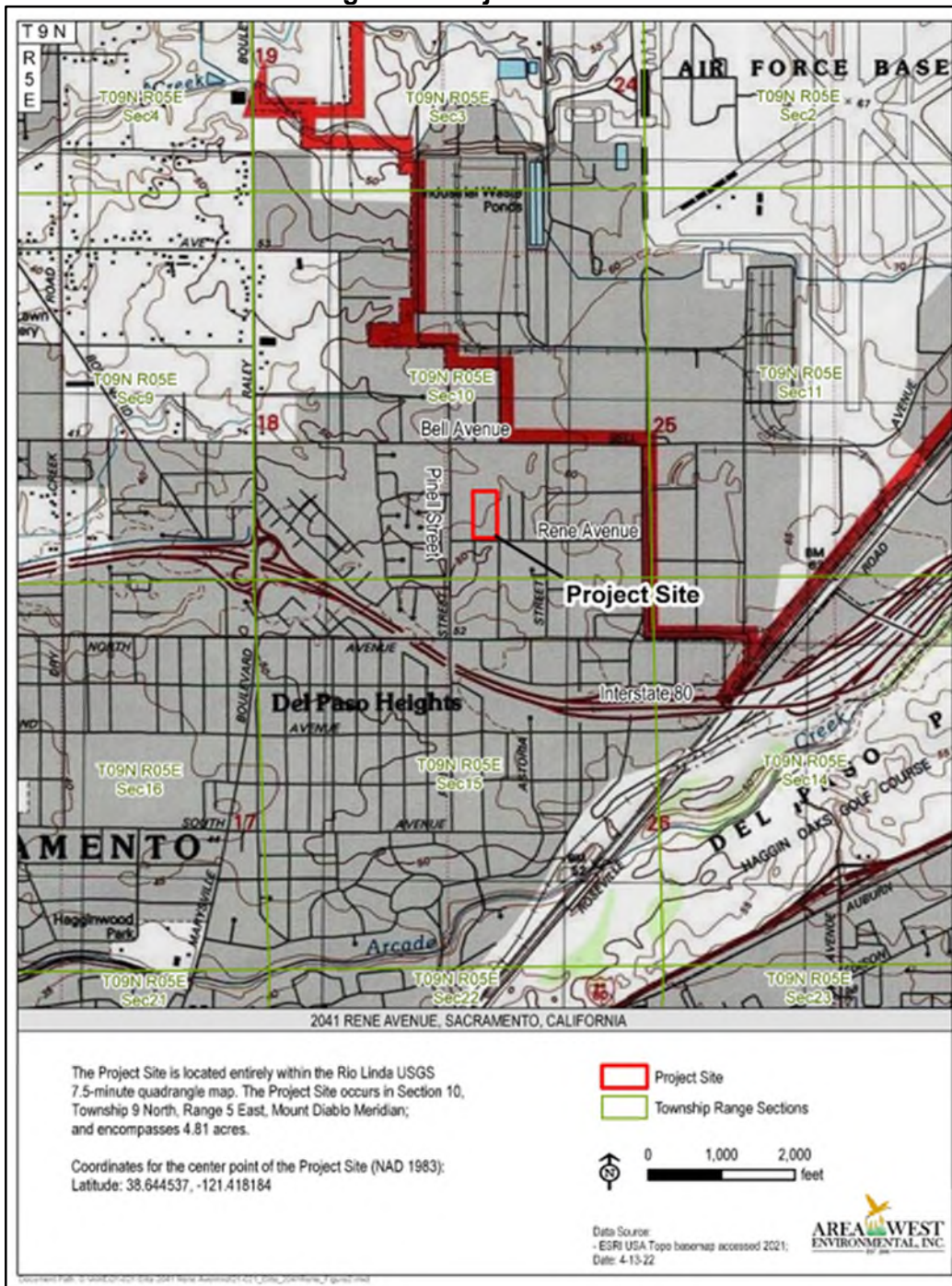
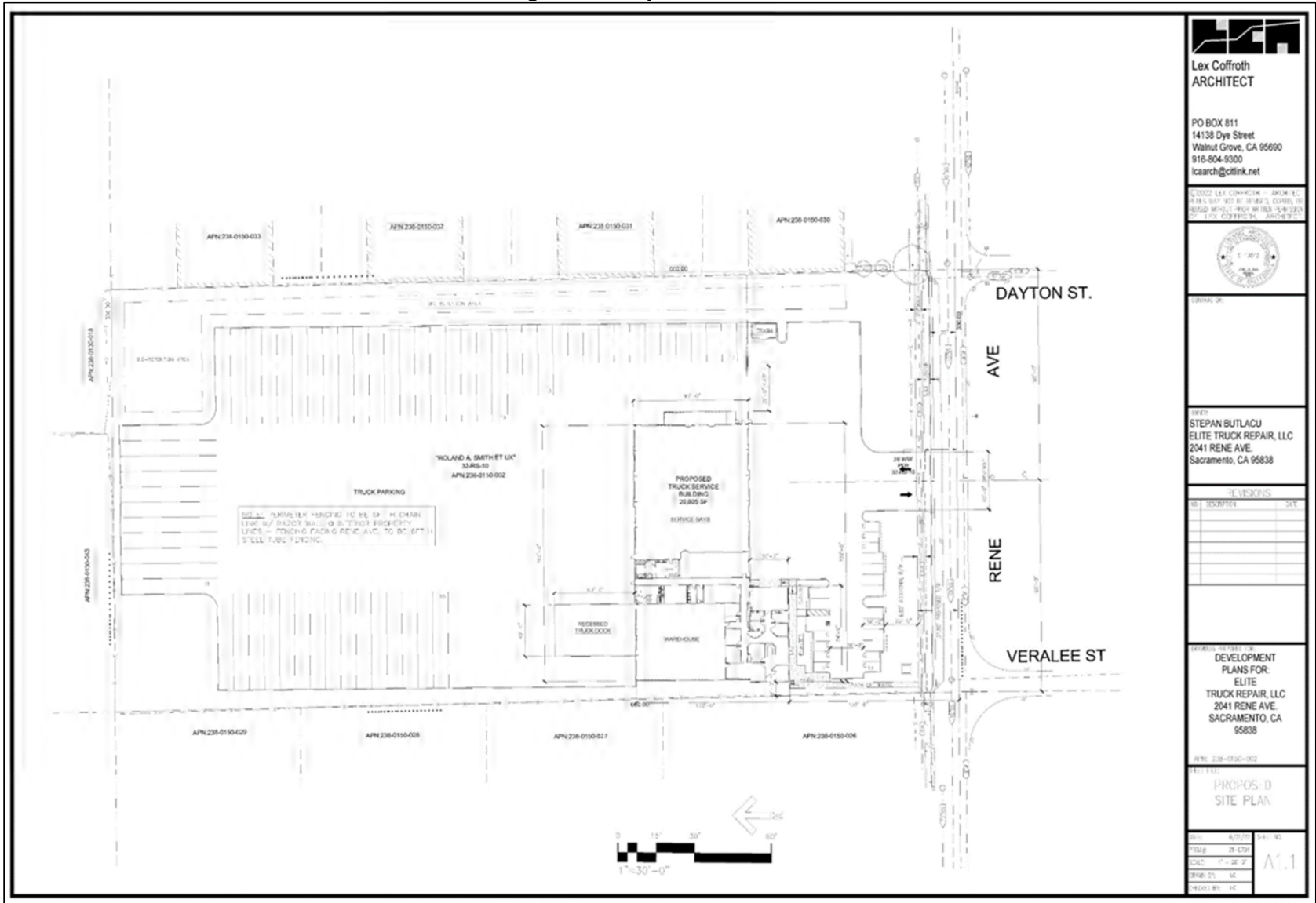


Figure 3. Proposed Project Site



Figure 4. Proposed Site Plan



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SYSTEM.

DATE: 11/20/22

PROJECT: STEPAN BUTLACU
ELITE TRUCK REPAIR, LLC
2041 RENE AVE.
SACRAMENTO, CA 95838

REVISIONS

NO.	DESCRIPTION	DATE

DEVELOPER: STEPAN BUTLACU
DEVELOPMENT
PLANS FOR:
ELITE
TRUCK REPAIR, LLC
2041 RENE AVE.
SACRAMENTO, CA
95838

APN: 238-0150-002

PROJECT: PROPOSED
SITE PLAN

SCALE: 1"=30'-0"

DATE: 11/20/22

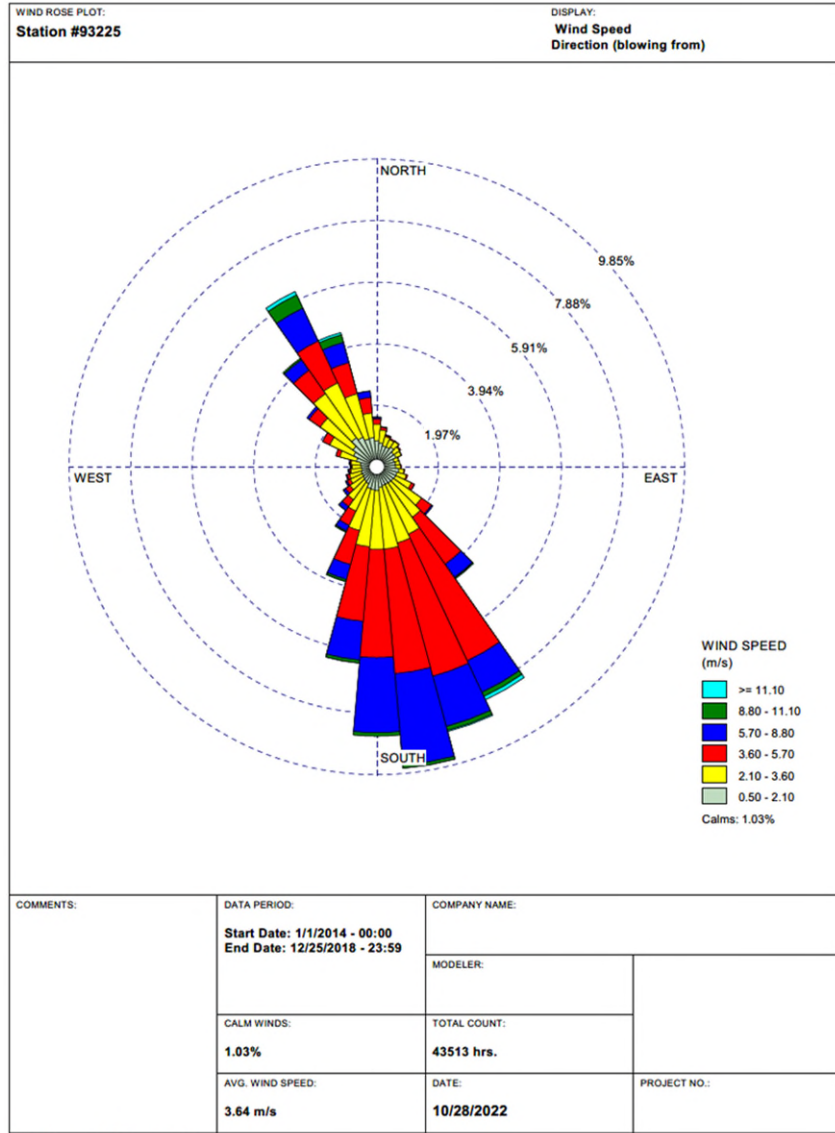
DRAWN BY: AC

CHECKED BY: AC

11.1

Predominant wind flow in the project area based on historical meteorological data from the Sacramento International Airport is depicted in Figure 5. As depicted, wind flow in the project area is predominantly from the south, averaging approximately 3.6 meters/second (approximately 8.1 mph). Calm winds are present an average of approximately one percent of the time.

Figure 5. Sacramento International Airport Wind Rose Plot



Human Health & Welfare Effects

The air pollutants and associated adverse health and welfare effects are summarized in Table 1. For this report, the air pollutants of primary concern with regard to human health include diesel-exhaust particulate matter (PM). As depicted in Table 1, exposure to increased pollutant concentrations of PM can result in various heart and lung ailments and death. DPM is considered a toxic air contaminant (TAC), which can result in increased cancer risk, and increased risk of reproductive, developmental, and neurological effects.

Table 1. Air Pollutant Adverse Effects

Pollutant	Human Health & Welfare Effects
Particulate Matter (PM ₁₀ & PM _{2.5})	Increased respiratory symptoms, such as irritation of the airways, coughing, or difficulty breathing; aggravated asthma; development of chronic bronchitis; irregular heartbeat; nonfatal heart attacks; and premature death in people with heart or lung disease. Impairs visibility (haze).
Toxic Air Contaminants (TACs)	Increased cancer risk, reproductive, developmental, and neurological effects.

Source: ARB 2022

Toxic Air Contaminants

TACs are air pollutants that may cause or contribute to an increase in mortality or serious illness, or which may pose a hazard to human health. TACs are usually present in minute quantities in the ambient air, but due to their high toxicity, they may pose a threat to public health even at very low concentrations. Because there is no threshold level below which adverse health impacts are not expected to occur, TACs differ from criteria pollutants for which acceptable levels of exposure can be determined and for which state and federal governments have set ambient air quality standards. TACs, therefore, are not considered "criteria pollutants" under either the Federal Clean Air Act (FCAA) or the California Clean Air Act (CCAA) and are thus not subject to National or State AAQS. TACs are not considered criteria pollutants in that the federal and California Clean Air Acts do not address them specifically through the setting of National or State AAQS. Instead, the U.S. EPA and California Air Resources Board (ARB) regulate Hazardous Air Pollutants (HAPs) and TACs, respectively, through statutes and regulations that generally require the use of the maximum or best available control technology to limit emissions. In conjunction with District rules, these federal and state statutes and regulations establish the regulatory framework for TACs. At the national level, the U.S. EPA has established National Emission Standards for HAPs (NESHAPs), in accordance with the requirements of the FCAA and subsequent amendments. These are technology-based source-specific regulations that limit allowable emissions of HAPs.

Within California, TACs are regulated primarily through the Tanner Air Toxics Act (AB 1807) and the Air Toxics Hot Spots Information and Assessment Act of 1987 (AB 2588). The Tanner Act sets forth a formal procedure for ARB to designate substances as TACs. This includes research, public participation, and scientific peer review before ARB designates a substance as a TAC. Existing sources of TACs that are subject to the Air Toxics Hot Spots Information and Assessment Act are required to: (1) prepare a toxic emissions inventory; (2) prepare a risk assessment if emissions are significant; (3) notify the public of significant risk levels; and (4) prepare and implement risk reduction measures.

At the state level, the ARB has the authority to regulate emissions from motor vehicles, fuels, and consumer products. Most recently, Diesel-exhaust particulate matter (DPM) was added to the ARB list of TACs. DPM is the primary TACs of concern for mobile sources. Of all controlled TACs, emissions of DPM are estimated to be responsible for about 70 percent of the total ambient TAC risk. The ARB has made the reduction of the public's exposure to DPM one of its highest priorities, with an aggressive plan to require cleaner diesel fuel and cleaner diesel engines and vehicles (ARB 2005).

At the local level, air districts have authority over stationary or industrial sources. All projects that require air quality permits from the SMAQMD are evaluated for TAC emissions. The SMAQMD limits emissions and public exposure to TACs through a number of programs. The SMAQMD prioritizes TAC-emitting stationary sources, based on the quantity and toxicity of the TAC emissions and the proximity of the facilities to sensitive receptors. The SMAQMD requires a comprehensive health risk assessment for facilities that are classified in the significant-risk category, pursuant to AB 2588. No major existing sources of TACs have been identified in the project area. In addition, implementation of the proposed project would not result in the installation of any major stationary sources of TACs anticipated to be subject to SMAQMD permitting requirements.

IMPACT ANALYSIS

Threshold of Significance

In April 2021 the SMAQMD released the *Guide to Air Quality Assessment in Sacramento County* (CEQA Guide) which presents guidance for evaluating and mitigating potential air quality impacts for new developments within the District. The CEQA Guide includes recommended thresholds of significance for HRAs involving high-volume TAC-generating activity in a small area. A project that results in a cancer risk greater than 10.0 in a million at any off-site receptor would exceed the District's threshold.

Methodology

Emissions associated with local roadways near the proposed project were calculated using emission rates derived from the ARB's Emission Factor 2021 (EMFAC2021) v1.0.2 web platform. Emission rates were included in the Lakes Air Dispersion Modeling (AERMOD) v11.0.1 computer program to model pollutant concentrations in the proposed project area. Lakes Environmental provides a graphical user interface (GUI) to the U.S. EPA AERMOD version 21112. Meteorological data used for this analysis was provided by SMAQMD and includes meteorological data for the most recent five years of available data (i.e., 2014 - 2018). Health risk calculations were conducted using the Hot Spot Analysis and Reporting Program Version 2 (HARP2). AERMOD output files are presented in Appendix B and HARP2 output files are presented in Appendix C of this report.

Traffic Volumes and Emission Rate.

Traffic volumes used in the modeling were provided by the project proponent. The proposed project is predicted to include 208 truck trips per day. To be conservative, emission rates for truck DPM sources were calculated based on EMFAC2021 rates for the highest heavy heavy-duty truck (HHDT) classification (T7 Public Class 8) for operational year 2023 conditions. Trucks travel speeds were based on existing roadway speed limits and assumed: 40 miles per hour (mph) on Bell Avenue, 35 mph on Winter Street, 25 mph on Rene Avenue, 15 mph on Pinell Street (school zone), and 5 mph on the project site. On-site idling of trucks was included and assumed an idle time of 5 minutes per truck in accordance with ARB regulatory requirements. DPM emission rates relative to travel speed associated with modeled roadway segments and associated emission rates are summarized in Table 2. Additional information relating to emission rates is presented in Appendix A of this report.

Table 2. EMFAC2021 DPM Emission Rates Relative to Travel Speed

Roadway Segment	Speed (mph)	Emission Rate
On-Site HHDT Idle	0	8.64E-02 grams/day
On-Site HHDT Travel	5	1.33E-01 gram/mile
Pinell Street, Bell Avenue to Rene Avenue	15	8.07E-02 gram/mile
Rene Avenue, Pinell Street to Project Entrance/Exit	25	4.90E-02 gram/mile
Winter Street, I-80 to Bell Avenue	35	3.96E-02 gram/mile
Bell Avenue, Winter Street to Pinell Street	40	3.73E-02 gram/mile

Dispersion Modeling

Truck travel routes were modeled using line volume sources (a series of adjacent volume sources) in AERMOD. For each roadway, one line volume source was included for each travel direction on the roadway (i.e., east and west travel or north and south travel). The line volume source was placed in the center of the travel lane. Each directional roadway's line volume source was given an emission rate in grams/second based on the roadway of travel. On-site truck idle times were limited to 5-minutes per truck as required by ARB's *Airborne Toxic Control Measure to Limit Diesel-Fueled Motor Vehicle Idling*. AERMOD line volume sources, the corresponding roadway, and emission rates are summarized in Table 3. Modeling was conducted based on the proposed project's hours of operation (6:00 a.m. to 5:00 p.m.).

Plume release heights for truck volume sources are based on average vehicle heights from the 2021 U.S. EPA *PM Hot-Spot Guidance*. For trucks, an average height of 4 meters produces a plume height of approximately 6.8 meters (U.S. EPA 2021). 25-meter by 25-meter receptor grids, with the default receptor height, were

placed around the proposed project site to represent potential sensitive receptors, including Bell Avenue Elementary/Robla Pre-School, nearby residential dwellings, and the workers within the adjacent commercial/industrial land uses. The receptor values represent the predicated pollutant concentrations in the unit of micro-grams per meter cubed ($\mu\text{g}/\text{m}^3$). Receptor concentrations were modeled for DPM in 1-hour and period intervals. The worst-case receptors representing the school, residential dwellings, and off-site workers were selected for risk calculation purposes. These receptor locations and predicted DPM concentrations are summarized in Table 4.

Table 3. AERMOD Line Volume Source Emission Rates

Source	Travel Distance (miles)	Emission Rate (gram/mile)	Truck Rate (trucks/hour)	Emission Rate (gram/mile/hour)	Emission Rate (gram/second)
SLINE1 (On-Site Entrance)	1.94E-01	1.33E-01	10	1.33E+00	7.13E-05
SLINE2 (On-Site Exit)	2.62E-02	1.33E-01	10	1.33E+00	9.64E-06
SLINE5 (NB Winter Street)	6.53E-01	3.96E-02	10	3.96E-01	7.18E-05
SLINE6 (SB Winter Street)	6.30E-01	3.96E-02	10	3.96E-01	6.93E-05
SLINE7 (WB Bell Avenue)	5.07E-01	3.73E-02	10	3.73E-01	5.25E-05
SLINE8 (EB Bell Avenue)	4.95E-01	3.73E-02	10	3.73E-01	5.12E-05
SLINE9 (NB Pinell Street)	2.43E-01	8.07E-02	10	8.07E-01	5.45E-05
SLINE10 (SB Pinell Street)	2.53E-01	8.07E-02	10	8.07E-01	5.67E-05
SLINE11 (WB Rene Avenue)	9.00E-02	4.90E-02	10	4.90E-01	1.22E-05
SLINE12 (EB Rene Avenue)	9.71E-02	4.90E-02	10	4.90E-01	1.32E-05
Source	Travel Distance (miles)	Emission Rate (gram/day/truck)	Emission Rate (gram/second/5-minute idle)		
SLINE3 (Idle, Parking Lot)	NA	8.64E-02	8.33E-07		
SLINE4 (Idle, Entrance)	NA	8.64E-02	8.33E-07		

Table 4. Predicted Receptor DPM Concentrations

Receptor Name	DPM Concentration ($\mu\text{g}/\text{m}^3$)	Land Use
Hourly		
Schl45	1.58E-01	School
S_Res18	2.32E-01	Residential
W_Ind1	1.58E-01	Commercial/Industrial (Off-Site Worker)
Period		
Schl45	3.40E-03	School
S_Res18	4.13E-03	Residential
W_Ind1	4.79E-03	Commercial/Industrial (Off-Site Worker)

Exposure Assessment

The DPM concentration at receptors: Schl43, S_Res18, and W_Ind1 were used to evaluate the potential for cancer risk. In addition to DPM concentration, recommended (OEHHA 2015) exposure variants were also included in the risk assessment. Some of the exposure variants include breathing rates, exposure frequency, exposure duration, and the fraction of time at home.

Residential Exposure

Residential risk assessment for the proposed project follows the policy presented in the *Risk Management Guidance Document* (ARB/CAPCOA 2015). This policy recommends a 95th percentile breathing rate for age groups below 2 years, and an 80th percentile breathing rate for age groups above 2 years. To be conservative, the proposed project was assessed using the 95th percentile breathing rates for all age groups. The age groups and corresponding breathing rates are summarized in Table 5.

The residential receptor was assumed to have an exposure frequency of 350 days per year over a 30-year exposure duration. The fraction of time at home and the age sensitivity factor for each age group are based on OEHHA guidelines and are presented in Table 6. (OEHHA 2015)

Table 5. Residential Breathing Rates

3 rd Trimester ¹	0 < 2 Years	2 < 16 Years	16 < 30 Years
95th Percentile (L/kg/day)			
361	1090	745	335
1. Based on breathing rates of the pregnant woman using the assumption that the dose to the fetus during the 3 rd trimester is the same as the mother			
Source: OEHHA 2015			

Table 6. Age Sensitivity and Fraction of Time at Home

Age Group	Age Sensitivity Factors	Fraction of Time at Home
3 rd Trimester	10	0.85
0 < 2 Years	10	0.85
2 < 16 Years	3	0.72
16 < 30 Years	1	0.73
Source: OEHHA 2015		

Off-Site Worker Exposure

For the off-site worker receptor, the 95th percentile 8-hour breathing rate of 230 L/kg/8-hours was selected. This rate represents moderate activity for the 16 to 70 age range. The calculation of health risk for the off-site worker receptor was based on an exposure frequency of 250 days per year over a 25-year exposure duration (OEHHA 2015).

School Children Exposure

For the school (children) receptor, the 95th percentile 8-hour breathing rate of 520 L/kg/8-hours was selected. This rate represents moderate activity for the 2 to 16 age range. To be conservative, the calculation of health risk was based on an exposure frequency of 180 days per year over a 9-year exposure duration (OEHHA 2015).

Cancer Risk

Cancer risks for the proposed project were calculated using the (HARP2) computer program. HARP2 includes a Health Risk Assessment Standalone Tool (RAST). HARP2 output files are included in Appendix C of this report.

POTENTIAL HEALTH RISKS

The predicted cancer risks at the worst-case school, residential, and worker receptors are summarized in Table 7. As noted in Table 7, the cancer risk for DPM would be less than 1 in a million for children at the nearby Bell Avenue Elementary/Robla Pre-School, approximately 3 in a million for residences, and less than 1 in a million for workers. Predicted chronic and acute risks would be less than one. The cancer risk at these receptors is not predicted to exceed the District's risk threshold of 10 in a million.

It is important to note that the project has been designed to service electric trucks. This report assumes a worst-case scenario in which all truck traffic associated with the proposed facility is diesel-powered. With the inclusion of electric trucks, DPM emissions associated with the proposed facility would be lower.

Table 7. Health Risk Summary

Receptor	Land Use	Cancer Risk (in a million)	Exceeds Recommended Threshold (10 in a million)?
Schl45	School	0.72	No
S_Res18	Residential	2.89	No
W_Ind1	Commercial/Industrial	0.30	No

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California Air Resources Board (ARB). April 2005. *Air Quality and Land Use Handbook: A Community Health Perspective*.

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<https://www.epa.gov/state-and-local-transportation/project-level-conformity-and-hot-spot-analyses#pmguidance>

Appendix A
Traffic Data and Emission Factors

Source: EMFAC2021 (v1.0.2) Emission Rates

Region Type: Sub-Area

Region: Sacramento (SV)

Calendar Year: 2023

Season: Annual

Vehicle Classification: EMFAC202x 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 Year	Vehicle Category	Model Year	Speed	Fuel	Total VMT	CVMT	EVMT	PM10_RUNEX
Sacramento (SV)	2023	T7 Public Class 8	Aggregate	40	Diesel	20461.1464	20461.15	0	0.037280717
Sacramento (SV)	2023	T7 Public Class 8	Aggregate	35	Diesel	19584.36317	19584.36	0	0.039576773
Sacramento (SV)	2023	T7 Public Class 8	Aggregate	25	Diesel	10271.34029	10271.34	0	0.048969275
Sacramento (SV)	2023	T7 Public Class 8	Aggregate	15	Diesel	8273.753879	8273.754	0	0.080747445
Sacramento (SV)	2023	T7 Public Class 8	Aggregate	5	Diesel	6138.614559	6138.615	0	0.13266005

Source: EMFAC2021 (v1.0.2) Emission Rates

Region Type: Sub-Area

Region: Sacramento (SV)

Calendar Year: 2023

Season: Annual

Vehicle Classification: EMFAC202x 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 Year	Vehicle Category	Model Year	Speed	Fuel	Population	Total VMT	CVMT	EVMT	Trips	PM10_IDLEX
Sacramento (SV)	2023	T7 Public Class 8	Aggregate	Aggregate	Diesel	4131.712528	176901.6009	176901.6	0	21195.69	0.086403249

Volume Source	Distance (meter)	Distance (mile)	Rate (g/veh*mile)	Veh/hr	g/mile*hr	g/hr	g/sec	lbs/hr
SLINE1 (Enter)	311.6	1.94E-01	1.33E-01	10	1.33E+00	2.57E-01	7.13E-05	5.66E-04
SLINE2 (Exit)	42.1	2.62E-02	1.33E-01	10	1.33E+00	3.47E-02	9.64E-06	7.65E-05
SLINE5 (NB Winter St)	1051.1	6.53E-01	3.96E-02	10	3.96E-01	2.58E-01	7.18E-05	5.70E-04
SLINE6 (SB Winter St)	1014	6.30E-01	3.96E-02	10	3.96E-01	2.49E-01	6.93E-05	5.50E-04
SLINE7 (WB Bell Ave)	815.9	5.07E-01	3.73E-02	10	3.73E-01	1.89E-01	5.25E-05	4.17E-04
SLINE8 (EB Bell Ave)	796	4.95E-01	3.73E-02	10	3.73E-01	1.84E-01	5.12E-05	4.07E-04
SLINE9 (NB Pinell St)	391.3	2.43E-01	8.07E-02	10	8.07E-01	1.96E-01	5.45E-05	4.33E-04
SLINE10 (SB Pinell St)	406.8	2.53E-01	8.07E-02	10	8.07E-01	2.04E-01	5.67E-05	4.50E-04
SLINE11 (WB Rene Ave)	144.9	9.00E-02	4.90E-02	10	4.90E-01	4.41E-02	1.22E-05	9.72E-05
SLINE12 (EB Rene Ave)	156.2	9.71E-02	4.90E-02	10	4.90E-01	4.75E-02	1.32E-05	1.05E-04
Volume Source	Distance (meter)	Distance (mile)	Rate (g/veh*day)		g/sec*veh	g/hr	g/sec	
SLINE3 (Idle parking lot)	NA	NA	8.64E-02	10	1.00E-05	3.00E-03	8.33E-07	
SLINE4 (Idle Entrance)	NA	NA	8.64E-02	10	1.00E-06	3.00E-03	8.33E-07	

Trucks	208
Trucks/hr	18.90909
Truck each way	9.454545

Appendix B

AERMOD Output Files and Concentration Contours

*** AERMOD - VERSION 22112 *** *** C:\Users\AMBIENT Air\Desktop\Elite
Truck 102522\Elite Truck 102522.i *** 10/31/22
*** AERMET - VERSION 19191 *** ***
*** 11:27:06

PAGE 1

*** MODELOPTs: RegDEFAULT CONC ELEV FLGPOL RURAL ADJ_U*

*** MODEL SETUP OPTIONS

SUMMARY ***

** Model Options Selected:

- * Model Uses Regulatory DEFAULT Options
- * Model Is Setup For Calculation of Average CONCentration Values.
- * NO GAS DEPOSITION Data Provided.
- * NO PARTICLE DEPOSITION Data Provided.
- * Model Uses NO DRY DEPLETION. DDPLETE = F
- * Model Uses NO WET DEPLETION. WETDPLT = F
- * Stack-tip Downwash.
- * Model Accounts for ELEVated Terrain Effects.
- * Use Calms Processing Routine.
- * Use Missing Data Processing Routine.
- * No Exponential Decay.
- * Model Uses RURAL Dispersion Only.
- * ADJ_U* - Use ADJ_U* option for SBL in AERMET
- * CCVR_Sub - Meteorological data includes CCVR substitutions
- * TEMP_Sub - Meteorological data includes TEMP substitutions
- * Model Accepts FLAGPOLE Receptor . Heights.
- * The User Specified a Pollutant Type of: PM_10

**Model Calculates 1 Short Term Average(s) of: 1-HR
and Calculates PERIOD Averages

**This Run Includes: 631 Source(s); 1 Source Group(s); and
273 Receptor(s)

with: 0 POINT(s), including
0 POINTCAP(s) and 0 POINTHOR(s)
and: 631 VOLUME source(s)
and: 0 AREA type source(s)
and: 0 LINE source(s)
and: 0 RLINE/RLINEXT source(s)
and: 0 OPENPIT source(s)
and: 0 BUOYANT LINE source(s) with a total of 0
line(s)
and: 0 SWPOINT source(s)

**Model Set To Continue RUNning After the Setup Testing.

**The AERMET Input Meteorological Data Version Date: 19191

**Output Options Selected:
Model Outputs Tables of PERIOD Averages by Receptor
Model Outputs Tables of Highest Short Term Values by Receptor
(RECTABLE Keyword)
Model Outputs External File(s) of Concurrent Values for
Postprocessing (POSTFILE Keyword)
Model Outputs External File(s) of High Values for Plotting
(PLOTFILE Keyword)
Model Outputs Separate Summary File of High Ranked Values
(SUMMFILE Keyword)

**NOTE: The Following Flags May Appear Following CONC Values: c for
Calm Hours
m for
Missing Hours
b for
Both Calm and Missing Hours

**Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 7.00 ;
Decay Coef. = 0.000 ; Rot. Angle = 0.0
Emission Units = GRAMS/SEC
; Emission Rate Unit Factor = 0.10000E+07
Output Units = MICROGRAMS/M**3

**Approximate Storage Requirements of Model = 4.1 MB of RAM.

**Input Runstream File: aermod.inp
**Output Print File: aermod.out

**Detailed Error/Message File: Elite Truck with Off Site 102622.err
**File for Summary of Results: Elite Truck with Off Site 102622.sum

*** AERMOD - VERSION 22112 *** *** C:\Users\AMBIENT Air\Desktop\Elite
 Truck 102522\Elite Truck 102522.i *** 10/31/22
 *** AERMET - VERSION 19191 *** ***
 *** 11:27:06

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*** MODELOPTs: RegDEFAULT CONC ELEV FLGPOL RURAL ADJ_U*

*** UP TO THE FIRST 24 HOURS OF

METEOROLOGICAL DATA ***

Surface file: S:\AMBIENT_Projects\Sacramento Elite Truck Repair
 Facility HRA\MET DATA - Sac In Met Version: 19191
 Profile file: S:\AMBIENT_Projects\Sacramento Elite Truck Repair
 Facility HRA\MET DATA - Sac In
 Surface format: FREE
 Profile format: FREE
 Surface station no.: 93225 Upper air station no.:
 23230
 Name: UNKNOWN Name:
 OAKLAND/WSO_AP Year: 2014 Year:
 2014

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O	LEN	Z0
BOWEN	ALBEDO	REF	WS	WD	HT	REF	TA	HT					
14	01	01	1	01	-15.5	0.166	-9.000	-9.000	-999.	162.		30.3	0.05
0.69	1.00		2.36	211.	10.1	275.4	2.0						
14	01	01	1	02	-3.4	0.079	-9.000	-9.000	-999.	56.		13.1	0.06
0.69	1.00		1.06	188.	10.1	273.8	2.0						
14	01	01	1	03	-12.2	0.146	-9.000	-9.000	-999.	134.		23.5	0.05
0.69	1.00		2.10	136.	10.1	275.9	2.0						
14	01	01	1	04	-23.3	0.226	-9.000	-9.000	-999.	257.		56.0	0.05
0.69	1.00		3.15	142.	10.1	277.0	2.0						
14	01	01	1	05	-16.2	0.171	-9.000	-9.000	-999.	170.		32.2	0.06
0.69	1.00		2.33	186.	10.1	274.9	2.0						
14	01	01	1	06	-3.0	0.076	-9.000	-9.000	-999.	55.		12.9	0.06
0.69	1.00		0.99	204.	10.1	273.1	2.0						
14	01	01	1	07	-4.8	0.092	-9.000	-9.000	-999.	67.		14.7	0.07
0.69	1.00		1.28	171.	10.1	272.0	2.0						
14	01	01	1	08	-1.8	0.065	-9.000	-9.000	-999.	40.		14.3	0.06
0.69	1.00		0.67	183.	10.1	273.1	2.0						
14	01	01	1	09	-0.3	0.062	-9.000	-9.000	-999.	37.		75.4	0.06
0.69	0.41		0.82	181.	10.1	278.1	2.0						
14	01	01	1	10	36.6	0.151	0.431	0.020	80.	141.		-8.6	0.05
0.69	0.28		1.55	141.	10.1	280.4	2.0						
14	01	01	1	11	65.9	0.162	0.666	0.019	163.	157.		-5.9	0.07
0.69	0.24		1.48	161.	10.1	283.1	2.0						
14	01	01	1	12	82.5	0.174	0.784	0.017	212.	175.		-5.8	0.07
0.69	0.22		1.59	152.	10.1	285.9	2.0						

14	01	01	1	13	86.0	0.219	0.835	0.015	246.	246.	-11.1	0.07
0.69	0.22	2.18	154.	10.1	288.1	2.0						
14	01	01	1	14	74.8	0.234	0.838	0.014	286.	272.	-15.6	0.05
0.69	0.23	2.56	229.	10.1	288.1	2.0						
14	01	01	1	15	42.8	0.198	0.714	0.013	308.	212.	-16.5	0.06
0.69	0.26	2.08	180.	10.1	288.8	2.0						
14	01	01	1	16	15.1	0.151	0.507	0.013	315.	141.	-20.7	0.06
0.69	0.35	1.62	194.	10.1	288.1	2.0						
14	01	01	1	17	-9.6	0.137	-9.000	-9.000	-999.	122.	24.4	0.05
0.69	0.61	1.96	223.	10.1	286.4	2.0						
14	01	01	1	18	-1.5	0.061	-9.000	-9.000	-999.	38.	13.6	0.04
0.69	1.00	0.65	251.	10.1	283.8	2.0						
14	01	01	1	19	-1.5	0.058	-9.000	-9.000	-999.	34.	12.1	0.02
0.69	1.00	0.72	47.	10.1	280.9	2.0						
14	01	01	1	20	-3.4	0.076	-9.000	-9.000	-999.	50.	11.8	0.03
0.69	1.00	1.20	81.	10.1	278.8	2.0						
14	01	01	1	21	-2.2	0.065	-9.000	-9.000	-999.	40.	11.5	0.03
0.69	1.00	0.91	73.	10.1	278.8	2.0						
14	01	01	1	22	-1.6	0.059	-9.000	-9.000	-999.	35.	12.0	0.02
0.69	1.00	0.74	22.	10.1	279.2	2.0						
14	01	01	1	23	-1.9	0.063	-9.000	-9.000	-999.	38.	11.9	0.03
0.69	1.00	0.82	60.	10.1	277.0	2.0						
14	01	01	1	24	-5.1	0.090	-9.000	-9.000	-999.	65.	13.1	0.02
0.69	1.00	1.57	34.	10.1	276.4	2.0						

First hour of profile data

YR	MO	DY	HR	HEIGHT	F	WDIR	WSPD	AMB_TMP	sigmaA	sigmaW	sigmaV
14	01	01	01	10.1	1	211.	2.36	275.4	99.0	-99.00	-99.00

F indicates top of profile (=1) or below (=0)

*** AERMOD - VERSION 22112 *** *** C:\Users\AMBIENT Air\Desktop\Elite
Truck 102522\Elite Truck 102522.i *** 10/31/22
*** AERMET - VERSION 19191 *** ***
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*** MODELOPTs: RegDEFAULT CONC ELEV FLGPOL RURAL ADJ_U*

*** THE SUMMARY OF

HIGHEST 1-HR RESULTS ***

MICROGRAMS/M**3 ** CONC OF PM_10 IN **

DATE

NETWORK

GROUP ID AVERAGE CONC (YYMMDDHH)

RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG) OF TYPE GRID-ID

ALL HIGH 1ST HIGH VALUE IS 0.23806 ON 18020208: AT (
637645.47, 4278394.87, 16.28, 16.28, 0.00) DC

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR

*** AERMOD - VERSION 22112 *** *** C:\Users\AMBIENT Air\Desktop\Elite
Truck 102522\Elite Truck 102522.i *** 10/31/22
*** AERMET - VERSION 19191 *** ***
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*** MODELOPTs: RegDEFAULT CONC ELEV FLGPOL RURAL ADJ_U*

*** Message Summary : AERMOD Model Execution ***

----- Summary of Total Messages -----

A Total of 0 Fatal Error Message(s)
A Total of 2 Warning Message(s)
A Total of 996 Informational Message(s)

A Total of 43680 Hours Were Processed

A Total of 452 Calm Hours Identified

A Total of 544 Missing Hours Identified (1.25 Percent)

***** FATAL ERROR MESSAGES *****
*** NONE ***

***** WARNING MESSAGES *****
ME W186 9199 MEOPEN: THRESH_1MIN 1-min ASOS wind speed
threshold used 0.50
ME W187 9199 MEOPEN: ADJ_U* Option for Stable Low Winds used in
AERMET

Discrete Receptor ID (Group Name)	X	Y	Concentration (AVERAGE CONC) [ug/m^3]	Elevation (ZELEV)	Hill Heights (ZHILL)	Flagpole (ZFLAG)	Averagin Period (AVE)	Source Group (GRP)	Rank	Net ID	Date (DATE(CON)
Schl1	637324.33	4278640.16	0.09577	17.15	17.15	0	1-HR	ALL	15T		1/30/2015 09 hr
Schl2	637324.33	4278665.16	0.09872	17.11	17.11	0	1-HR	ALL	15T		1/30/2015 09 hr
Schl3	637324.33	4278690.16	0.10055	17.03	17.03	0	1-HR	ALL	15T		1/30/2015 09 hr
Schl4	637324.33	4278715.16	0.09943	16.91	16.91	0	1-HR	ALL	15T		1/30/2015 09 hr
Schl5	637324.33	4278740.16	0.09433	16.78	16.78	0	1-HR	ALL	15T		1/30/2015 09 hr
Schl6	637324.33	4278765.16	0.08801	16.66	16.66	0	1-HR	ALL	15T		2/23/2017 08 hr
Schl7	637324.33	4278790.16	0.0842	16.56	16.56	0	1-HR	ALL	15T		2/23/2017 08 hr
Schl8	637349.33	4278640.16	0.10475	17.29	17.29	0	1-HR	ALL	15T		1/30/2015 09 hr
Schl9	637349.33	4278665.16	0.1076	17.15	17.15	0	1-HR	ALL	15T		1/30/2015 09 hr
Schl10	637349.33	4278690.16	0.10844	17.03	17.03	0	1-HR	ALL	15T		1/30/2015 09 hr
Schl11	637349.33	4278715.16	0.10517	16.92	16.92	0	1-HR	ALL	15T		1/30/2015 09 hr
Schl12	637349.33	4278740.16	0.09733	16.8	16.8	0	1-HR	ALL	15T		1/30/2015 09 hr
Schl13	637349.33	4278765.16	0.0937	16.67	16.67	0	1-HR	ALL	15T		2/23/2017 08 hr
Schl14	637349.33	4278790.16	0.09327	16.53	16.53	0	1-HR	ALL	15T		2/23/2017 08 hr
Schl15	637374.33	4278640.16	0.11534	17.37	17.37	0	1-HR	ALL	15T		1/30/2015 09 hr
Schl16	637374.33	4278665.16	0.11794	17.22	17.22	0	1-HR	ALL	15T		1/30/2015 09 hr
Schl17	637374.33	4278690.16	0.11712	17.11	17.11	0	1-HR	ALL	15T		1/30/2015 09 hr
Schl18	637374.33	4278715.16	0.1109	17.03	17.03	0	1-HR	ALL	15T		1/30/2015 09 hr
Schl19	637374.33	4278740.16	0.10017	16.95	16.95	0	1-HR	ALL	15T		1/30/2015 09 hr
Schl20	637374.33	4278765.16	0.10006	16.85	16.85	0	1-HR	ALL	15T		1/30/2017 07 hr
Schl21	637374.33	4278790.16	0.10488	16.76	16.76	0	1-HR	ALL	15T		2/23/2017 08 hr
Schl22	637399.33	4278640.16	0.12784	17.41	17.41	0	1-HR	ALL	15T		1/30/2015 09 hr
Schl23	637399.33	4278665.16	0.12966	17.28	17.28	0	1-HR	ALL	15T		1/30/2015 09 hr
Schl24	637399.33	4278690.16	0.12605	17.19	17.19	0	1-HR	ALL	15T		1/30/2015 09 hr
Schl25	637399.33	4278715.16	0.1161	17.14	17.14	0	1-HR	ALL	15T		1/30/2015 09 hr
Schl26	637399.33	4278740.16	0.105	17.1	17.1	0	1-HR	ALL	15T		2/11/2016 07 hr
Schl27	637399.33	4278765.16	0.11011	17.08	17.08	0	1-HR	ALL	15T		1/30/2017 07 hr
Schl28	637399.33	4278790.16	0.11885	17.05	17.05	0	1-HR	ALL	15T		2/23/2017 08 hr
Schl29	637424.33	4278640.16	0.14284	17.51	17.51	0	1-HR	ALL	15T		1/30/2015 09 hr
Schl30	637424.33	4278665.16	0.14271	17.39	17.39	0	1-HR	ALL	15T		1/30/2015 09 hr
Schl31	637424.33	4278690.16	0.13477	17.31	17.31	0	1-HR	ALL	15T		1/30/2015 09 hr
Schl32	637424.33	4278715.16	0.12049	17.24	17.24	0	1-HR	ALL	15T		1/30/2015 09 hr
Schl33	637424.33	4278740.16	0.11814	17.18	17.18	0	1-HR	ALL	15T		12/21/2016 08 hr
Schl34	637424.33	4278765.16	0.12043	17.19	17.19	0	1-HR	ALL	15T		1/31/2018 08 hr
Schl35	637424.33	4278790.16	0.13343	17.18	17.18	0	1-HR	ALL	15T		2/23/2017 08 hr
Schl36	637449.33	4278640.16	0.15937	17.63	17.63	0	1-HR	ALL	15T		1/30/2015 09 hr
Schl37	637449.33	4278665.16	0.15521	17.52	17.52	0	1-HR	ALL	15T		1/30/2015 09 hr
Schl38	637449.33	4278690.16	0.14148	17.44	17.44	0	1-HR	ALL	15T		1/30/2015 09 hr
Schl39	637449.33	4278715.16	0.1369	17.35	17.35	0	1-HR	ALL	15T		12/21/2016 08 hr
Schl40	637449.33	4278740.16	0.13854	17.26	17.26	0	1-HR	ALL	15T		2/3/2015 08 hr
Schl41	637449.33	4278765.16	0.13759	17.23	17.23	0	1-HR	ALL	15T		2/3/2015 08 hr
Schl42	637449.33	4278790.16	0.14515	17.22	17.22	0	1-HR	ALL	15T		2/23/2017 08 hr
Schl43	637474.33	4278640.16	0.16913	17.68	17.68	0	1-HR	ALL	15T		1/30/2015 09 hr
Schl44	637474.33	4278665.16	0.15849	17.61	17.61	0	1-HR	ALL	15T		1/30/2015 09 hr
Schl45	637474.33	4278690.16	0.15808	17.56	17.56	0	1-HR	ALL	15T		12/21/2016 08 hr
Schl46	637474.33	4278715.16	0.16053	17.46	17.46	0	1-HR	ALL	15T		2/3/2015 08 hr
Schl47	637474.33	4278740.16	0.15893	17.35	17.35	0	1-HR	ALL	15T		2/3/2015 08 hr
Schl48	637474.33	4278765.16	0.15738	17.26	17.26	0	1-HR	ALL	15T		1/27/2014 07 hr
Schl49	637474.33	4278790.16	0.15694	17.24	17.24	0	1-HR	ALL	15T		1/13/2014 08 hr
W_Res1	637427.56	4278238.25	0.09188	16.14	16.14	0	1-HR	ALL	15T		12/1/2017 17 hr
W_Res2	637452.56	4278238.25	0.10132	16.1	16.1	0	1-HR	ALL	15T		1/22/2015 17 hr
W_Res3	637452.56	4278263.25	0.10447	15.64	15.64	0	1-HR	ALL	15T		12/21/2018 09 hr
W_Res4	637452.56	4278288.25	0.10928	15.52	15.52	0	1-HR	ALL	15T		2/2/2018 08 hr
W_Res5	637452.56	4278313.25	0.12053	15.58	15.58	0	1-HR	ALL	15T		1/1/2015 09 hr
W_Res6	637452.56	4278338.25	0.12954	15.53	15.53	0	1-HR	ALL	15T		1/1/2015 09 hr
W_Res7	637452.56	4278363.25	0.14476	15.69	15.69	0	1-HR	ALL	15T		1/1/2015 09 hr
W_Res8	637452.56	4278388.25	0.15258	16.02	16.02	0	1-HR	ALL	15T		1/9/2015 09 hr
W_Res9	637452.56	4278413.25	0.15498	16.2	16.2	0	1-HR	ALL	15T		2/23/2017 08 hr
W_Res10	637452.56	4278438.25	0.14657	16.37	16.37	0	1-HR	ALL	15T		1/14/2016 09 hr
W_Res11	637452.56	4278463.25	0.14612	16.64	16.64	0	1-HR	ALL	15T		1/15/2015 17 hr
W_Res12	637452.56	4278488.25	0.14151	16.92	16.92	0	1-HR	ALL	15T		1/30/2015 09 hr
W_Res13	637452.56	4278513.25	0.14133	17.3	17.3	0	1-HR	ALL	15T		1/30/2015 09 hr
W_Res14	637452.56	4278538.25	0.14256	17.49	17.49	0	1-HR	ALL	15T		1/30/2015 09 hr
W_Res15	637452.56	4278563.25	0.14608	17.71	17.71	0	1-HR	ALL	15T		1/30/2015 09 hr
W_Res16	637452.56	4278588.25	0.15247	17.92	17.92	0	1-HR	ALL	15T		1/30/2015 09 hr
W_Res17	637477.56	4278238.25	0.11224	16	16	0	1-HR	ALL	15T		1/12/2018 07 hr
W_Res18	637477.56	4278263.25	0.11803	15.58	15.58	0	1-HR	ALL	15T		1/12/2018 07 hr
W_Res19	637477.56	4278288.25	0.12907	15.49	15.49	0	1-HR	ALL	15T		1/22/2015 17 hr
W_Res20	637477.56	4278313.25	0.14106	15.58	15.58	0	1-HR	ALL	15T		1/22/2015 17 hr
W_Res21	637477.56	4278338.25	0.1494	15.59	15.59	0	1-HR	ALL	15T		1/22/2015 17 hr
W_Res22	637477.56	4278363.25	0.15496	15.74	15.74	0	1-HR	ALL	15T		2/2/2018 08 hr
W_Res23	637477.56	4278388.25	0.16022	15.98	15.98	0	1-HR	ALL	15T		2/2/2018 08 hr
W_Res24	637477.56	4278413.25	0.17447	16.19	16.19	0	1-HR	ALL	15T		2/5/2018 08 hr
W_Res25	637477.56	4278438.25	0.16427	16.41	16.41	0	1-HR	ALL	15T		2/2/2018 08 hr
W_Res26	637477.56	4278463.25	0.16652	16.68	16.68	0	1-HR	ALL	15T		2/2/2018 08 hr
W_Res27	637477.56	4278488.25	0.16896	17	17	0	1-HR	ALL	15T		2/2/2018 08 hr
W_Res28	637477.56	4278513.25	0.1715	17.34	17.34	0	1-HR	ALL	15T		2/2/2018 08 hr
W_Res29	637477.56	4278538.25	0.17281	17.6	17.6	0	1-HR	ALL	15T		2/2/2018 08 hr
W_Res30	637477.56	4278563.25	0.17349	17.81	17.81	0	1-HR	ALL	15T		12/1/2017 17 hr
W_Res31	637477.56	4278588.25	0.17289	17.94	17.94	0	1-HR	ALL	15T		12/1/2017 17 hr
S_Res1	637545.47	4278344.87	0.17143	15.99	15.99	0	1-HR	ALL	15T		12/13/2018 17 hr
S_Res2	637545.47	4278369.87	0.18044	16.21	16.21	0	1-HR	ALL	15T		12/13/2018 17 hr
S_Res3	637545.47	4278394.87	0.17542	16.42	16.42	0	1-HR	ALL	15T		1/9/2015 09 hr
S_Res4	637570.47	4278344.87	0.13895	16.1	16.1	0	1-HR	ALL	15T		1/2/2014 08 hr
S_Res5	637570.47	4278369.87	0.17388	16.21	16.21	0	1-HR	ALL	15T		1/1/2015 09 hr
S_Res6	637570.47	4278394.87	0.1711	16.33	16.33	0	1-HR	ALL	15T		1/30/2015 08 hr
S_Res7	637595.47	4278344.87	0.1559	16	16	0	1-HR	ALL	15T		2/8/2018 08 hr
S_Res8	637595.47	4278369.87	0.16202	16.09	16.09	0	1-HR	ALL	15T		1/16/2017 08 hr
S_Res9	637595.47	4278394.87	0.18986	16.2	16.2	0	1-HR	ALL	15T		1/1/2015 09 hr
S_Res10	637620.47	4278344.87	0.17467	15.86	15.86	0	1-HR	ALL	15T		12/1/2017 17 hr
S_Res11	637620.47	4278369.87	0.18244	15.95	15.95	0	1-HR	ALL	15T		2/8/2018 08 hr
S_Res12	637620.47	4278394.87	0.19086	16.17	16.17	0	1-HR	ALL	15T		1/16/2017 08 hr
S_Res13	637645.47	4278344.87	0.19657	15.9	15.9	0	1-HR	ALL	15T		1/8/2016 09 hr
S_Res14	637645.47	4278369.87	0.21493	15.97	15.97	0	1-HR	ALL	15T		1/8/2016 09 hr
S_Res15	637645.47	4278394.87	0.23806	16.28	16.28	0	1-HR	ALL	15T		2/2/2018 08 hr
S_Res16	637670.47	4278344.87	0.18744	15.99	15.99	0	1-HR	ALL	15T		2/25/2015 08 hr
S_Res17	637670.47	4278369.87	0.20954	16.01	16.01	0	1-HR	ALL	15T		2/25/2015 08 hr
S_Res18	637670.47	4278394.87	0.23226	16.28	16.28	0	1-HR	ALL	15T		12/7/2015 08 hr
S_Res19	637695.47	4278344.87	0.17356	16.03	16.03	0	1-HR	ALL	15T		1/19/2015 07 hr

S_Res33	637795.47	4278394.87	0.12938	16.29	16.29	0	1-HR	ALL	15T	1/12/2015 09 hr
S_Res34	637820.47	4278344.87	0.11869	16.83	16.83	0	1-HR	ALL	15T	1/12/2015 09 hr
S_Res35	637820.47	4278369.87	0.11737	16.37	16.37	0	1-HR	ALL	15T	1/12/2015 09 hr
S_Res36	637820.47	4278394.87	0.11034	16.48	16.48	0	1-HR	ALL	15T	1/12/2015 09 hr
S_Res37	637845.47	4278344.87	0.10933	17.14	17.14	0	1-HR	ALL	15T	1/12/2015 09 hr
S_Res38	637845.47	4278369.87	0.1017	16.58	16.58	0	1-HR	ALL	15T	1/12/2015 09 hr
S_Res39	637845.47	4278394.87	0.08977	16.7	16.7	0	1-HR	ALL	15T	12/7/2018 17 hr
S_Res40	637870.47	4278344.87	0.09524	17.13	17.13	0	1-HR	ALL	15T	1/12/2015 09 hr
S_Res41	637870.47	4278369.87	0.08414	16.74	16.74	0	1-HR	ALL	15T	12/7/2018 17 hr
S_Res42	637870.47	4278394.87	0.08273	16.85	16.85	0	1-HR	ALL	15T	1/16/2017 09 hr
S_Res43	637895.47	4278344.87	0.07951	17.09	17.09	0	1-HR	ALL	15T	1/12/2015 09 hr
S_Res44	637895.47	4278369.87	0.07398	16.89	16.89	0	1-HR	ALL	15T	12/7/2018 17 hr
S_Res45	637895.47	4278394.87	0.07807	17	17	0	1-HR	ALL	15T	1/16/2017 09 hr
E_Res1	637775.6	4278446.12	0.12497	16.49	16.49	0	1-HR	ALL	15T	1/12/2015 09 hr
E_Res2	637775.6	4278471.12	0.12179	16.63	16.63	0	1-HR	ALL	15T	1/15/2014 17 hr
E_Res3	637775.6	4278496.12	0.12221	16.64	16.64	0	1-HR	ALL	15T	2/9/2018 08 hr
E_Res4	637775.6	4278521.12	0.11342	16.72	16.72	0	1-HR	ALL	15T	1/28/2014 09 hr
E_Res5	637775.6	4278546.12	0.11346	16.8	16.8	0	1-HR	ALL	15T	1/28/2014 09 hr
E_Res6	637775.6	4278571.12	0.10867	16.91	16.91	0	1-HR	ALL	15T	1/28/2014 09 hr
E_Res7	637775.6	4278596.12	0.10802	17.14	17.14	0	1-HR	ALL	15T	1/28/2014 09 hr
E_Res8	637800.6	4278446.12	0.10075	16.59	16.59	0	1-HR	ALL	15T	1/16/2017 09 hr
E_Res9	637800.6	4278471.12	0.10738	16.73	16.73	0	1-HR	ALL	15T	1/15/2014 17 hr
E_Res10	637800.6	4278496.12	0.11288	16.83	16.83	0	1-HR	ALL	15T	2/9/2018 08 hr
E_Res11	637800.6	4278521.12	0.10264	16.92	16.92	0	1-HR	ALL	15T	12/8/2014 17 hr
E_Res12	637800.6	4278546.12	0.09957	16.93	16.93	0	1-HR	ALL	15T	1/28/2014 09 hr
E_Res13	637800.6	4278571.12	0.09969	16.94	16.94	0	1-HR	ALL	15T	1/28/2014 09 hr
E_Res14	637800.6	4278596.12	0.09827	17.08	17.08	0	1-HR	ALL	15T	1/28/2014 09 hr
E_Res15	637825.6	4278446.12	0.09466	16.88	16.88	0	1-HR	ALL	15T	1/16/2017 09 hr
E_Res16	637825.6	4278471.12	0.09653	17.06	17.06	0	1-HR	ALL	15T	1/16/2017 09 hr
E_Res17	637825.6	4278496.12	0.09896	17.17	17.17	0	1-HR	ALL	15T	2/9/2018 08 hr
E_Res18	637825.6	4278521.12	0.0982	17.21	17.21	0	1-HR	ALL	15T	2/9/2018 08 hr
E_Res19	637825.6	4278546.12	0.09147	17.18	17.18	0	1-HR	ALL	15T	2/9/2018 08 hr
E_Res20	637825.6	4278571.12	0.09007	17.16	17.16	0	1-HR	ALL	15T	2/9/2018 08 hr
E_Res21	637825.6	4278596.12	0.09146	17.27	17.27	0	1-HR	ALL	15T	2/9/2018 08 hr
E_Ind1	637731.59	4278446.3	0.18002	16.52	16.52	0	1-HR	ALL	15T	1/12/2015 09 hr
E_Ind2	637731.59	4278471.3	0.16856	16.83	16.83	0	1-HR	ALL	15T	2/9/2018 08 hr
E_Ind3	637731.59	4278496.3	0.16199	16.95	16.95	0	1-HR	ALL	15T	1/28/2014 09 hr
E_Ind4	637731.59	4278521.3	0.14557	17.11	17.11	0	1-HR	ALL	15T	1/28/2014 09 hr
E_Ind5	637731.59	4278546.3	0.13521	17.32	17.32	0	1-HR	ALL	15T	1/28/2014 09 hr
E_Ind6	637731.59	4278571.3	0.13611	17.55	17.55	0	1-HR	ALL	15T	1/28/2014 09 hr
E_Ind7	637731.59	4278596.3	0.13837	17.77	17.77	0	1-HR	ALL	15T	1/28/2014 09 hr
E_Ind8	637756.59	4278446.3	0.15034	16.53	16.53	0	1-HR	ALL	15T	1/12/2015 09 hr
E_Ind9	637756.59	4278471.3	0.14484	16.8	16.8	0	1-HR	ALL	15T	2/9/2018 08 hr
E_Ind10	637756.59	4278496.3	0.13075	16.86	16.86	0	1-HR	ALL	15T	12/25/2017 07 hr
E_Ind11	637756.59	4278521.3	0.13157	16.98	16.98	0	1-HR	ALL	15T	1/28/2014 09 hr
E_Ind12	637756.59	4278546.3	0.12282	17.14	17.14	0	1-HR	ALL	15T	1/28/2014 09 hr
W_Ind1	637542.53	4278447.59	0.15848	16.99	16.99	0	1-HR	ALL	15T	12/13/2018 17 hr
W_Ind2	637542.53	4278472.59	0.15577	17.3	17.3	0	1-HR	ALL	15T	12/13/2018 17 hr
W_Ind3	637542.53	4278497.59	0.15272	17.67	17.67	0	1-HR	ALL	15T	12/13/2018 17 hr
W_Ind4	637542.53	4278522.59	0.15107	18.09	18.09	0	1-HR	ALL	15T	1/12/2017 17 hr
W_Ind5	637542.53	4278547.59	0.14982	18.27	18.27	0	1-HR	ALL	15T	1/12/2017 17 hr
W_Ind6	637542.53	4278572.59	0.14741	18.24	18.24	0	1-HR	ALL	15T	1/12/2017 17 hr
W_Ind7	637542.53	4278597.59	0.14377	18.21	18.21	0	1-HR	ALL	15T	1/12/2017 17 hr
W_Ind8	637567.53	4278447.59	0.13743	17.04	17.04	0	1-HR	ALL	15T	1/1/2015 09 hr
W_Ind9	637567.53	4278472.59	0.14761	17.38	17.38	0	1-HR	ALL	15T	1/1/2015 09 hr
W_Ind10	637567.53	4278497.59	0.14773	17.7	17.7	0	1-HR	ALL	15T	1/1/2015 09 hr
W_Ind11	637567.53	4278522.59	0.13549	18.18	18.18	0	1-HR	ALL	15T	1/9/2015 09 hr
W_Ind12	637567.53	4278547.59	0.1398	18.38	18.38	0	1-HR	ALL	15T	1/15/2015 17 hr
W_Ind13	637567.53	4278572.59	0.15218	18.31	18.31	0	1-HR	ALL	15T	1/30/2015 09 hr
W_Ind14	637567.53	4278597.59	0.14889	18.3	18.3	0	1-HR	ALL	15T	1/30/2015 09 hr
W_Ind15	637592.53	4278447.59	0.13685	17.06	17.06	0	1-HR	ALL	15T	1/16/2017 08 hr
W_Ind16	637592.53	4278472.59	0.15101	17.43	17.43	0	1-HR	ALL	15T	1/1/2015 09 hr
W_Ind17	637592.53	4278497.59	0.15677	17.67	17.67	0	1-HR	ALL	15T	1/1/2015 09 hr
W_Ind18	637592.53	4278522.59	0.16048	18.17	18.17	0	1-HR	ALL	15T	1/1/2015 09 hr
W_Ind19	637592.53	4278547.59	0.16353	18.34	18.34	0	1-HR	ALL	15T	1/30/2015 09 hr
W_Ind20	637592.53	4278572.59	0.16033	18.31	18.31	0	1-HR	ALL	15T	1/30/2015 09 hr
W_Ind21	637592.53	4278597.59	0.15529	18.3	18.3	0	1-HR	ALL	15T	1/30/2015 09 hr
N_Ind1	637538.94	4278642.52	0.14126	17.9	17.9	0	1-HR	ALL	15T	1/12/2017 17 hr
N_Ind2	637538.94	4278667.52	0.13678	17.81	17.81	0	1-HR	ALL	15T	1/12/2017 17 hr
N_Ind3	637538.94	4278692.52	0.13245	17.77	17.77	0	1-HR	ALL	15T	12/4/2015 17 hr
N_Ind4	637538.94	4278717.52	0.1338	17.74	17.74	0	1-HR	ALL	15T	12/4/2015 17 hr
N_Ind5	637538.94	4278742.52	0.13514	17.71	17.71	0	1-HR	ALL	15T	12/4/2015 17 hr
N_Ind6	637538.94	4278767.52	0.1365	17.71	17.71	0	1-HR	ALL	15T	12/4/2015 17 hr
N_Ind7	637563.94	4278642.52	0.1259	17.85	17.85	0	1-HR	ALL	15T	2/3/2015 08 hr
N_Ind8	637563.94	4278667.52	0.11572	17.72	17.72	0	1-HR	ALL	15T	1/27/2014 07 hr
N_Ind9	637563.94	4278692.52	0.10406	17.68	17.68	0	1-HR	ALL	15T	1/28/2014 09 hr
N_Ind10	637563.94	4278717.52	0.10298	17.7	17.7	0	1-HR	ALL	15T	1/28/2014 09 hr
N_Ind11	637563.94	4278742.52	0.10217	17.75	17.75	0	1-HR	ALL	15T	1/28/2014 09 hr
N_Ind12	637563.94	4278767.52	0.10217	17.8	17.8	0	1-HR	ALL	15T	1/28/2014 09 hr
N_Ind13	637588.94	4278642.52	0.13666	17.85	17.85	0	1-HR	ALL	15T	1/27/2014 07 hr
N_Ind14	637588.94	4278667.52	0.11401	17.7	17.7	0	1-HR	ALL	15T	1/14/2014 08 hr
N_Ind15	637588.94	4278692.52	0.11187	17.68	17.68	0	1-HR	ALL	15T	11/21/2016 17 hr
N_Ind16	637588.94	4278717.52	0.10258	17.75	17.75	0	1-HR	ALL	15T	11/21/2016 17 hr
N_Ind17	637588.94	4278742.52	0.09137	17.88	17.88	0	1-HR	ALL	15T	1/28/2014 09 hr
N_Ind18	637588.94	4278767.52	0.09237	17.99	17.99	0	1-HR	ALL	15T	1/28/2014 09 hr
N_Ind19	637613.94	4278642.52	0.16321	17.92	17.92	0	1-HR	ALL	15T	11/21/2016 17 hr
N_Ind20	637613.94	4278667.52	0.1399	17.78	17.78	0	1-HR	ALL	15T	11/5/2014 07 hr
N_Ind21	637613.94	4278692.52	0.12536	17.75	17.75	0	1-HR	ALL	15T	1/13/2014 08 hr
N_Ind22	637613.94	4278717.52	0.11084	17.8	17.8	0	1-HR	ALL	15T	1/13/2014 08 hr
N_Ind23	637613.94	4278742.52	0.09732	17.93	17.93	0	1-HR	ALL	15T	1/13/2014 08 hr
N_Ind24	637613.94	4278767.52	0.08879	18.05	18.05	0	1-HR	ALL	15T	1/13/2014 09 hr
N_Ind25	637638.94	4278642.52	0.18734	17.92	17.92	0	1-HR	ALL	15T	1/13/2014 09 hr
N_Ind26	637638.94	4278667.52	0.15713	17.8	17.8	0	1-HR	ALL	15T	1/13/2014 09 hr
N_Ind27	637638.94	4278692.52	0.1328	17.76	17.76	0	1-HR	ALL	15T	1/13/2014 09 hr
N_Ind28	637638.94	4278717.52	0.11393	17.8	17.8	0	1-HR	ALL	15T	1/13/2014 09 hr
N_Ind29	637638.94	4278742.52	0.09952	17.92	17.92	0	1-HR	ALL	15T	1/13/2014 09 hr
N_Ind30	637638.94	4278767.52	0.08884	18.09	18.09	0	1-HR	ALL	15T	1/13/2014 09 hr
N_Ind31	637663.94	4278642.52	0.18418	17.99	17.99	0	1-HR	ALL	15T	12/28/2017 07 hr
N_Ind32	637663.94	4278667.52	0.15535	17.88	17.88	0	1-HR	ALL	15T	12/28/2017 07 hr
N_Ind33	637663.94	4278692.52	0.13284	17.84	17.84	0	1-HR	ALL	15T	12/28/2017 07 hr
N_Ind34	637663.94	4278717.52	0.11558	17.88	17.88	0	1-HR	ALL	15T	12/28/2017 07 hr
N_Ind35	637663.94	4278742.52	0.10239	18.02	18.02	0	1-HR	ALL	15T	12/28/2017 07 hr
N_Ind36	637663.94	4278767.52	0.0924	18.15	18.15	0	1-HR	ALL	15T	12/28/2017 07 hr
N_Ind37										

N_ind47	637713.94	4278742.52	0.09032	18.24	18.24	0	1-HR	ALL	1ST	12/4/2015 17 hr
N_ind48	637713.94	4278767.52	0.08551	18.2	18.2	0	1-HR	ALL	1ST	12/4/2015 17 hr
N_ind49	637738.94	4278642.52	0.11481	18.09	18.09	0	1-HR	ALL	1ST	12/19/2017 08 hr
N_ind50	637738.94	4278667.52	0.11182	18.09	18.09	0	1-HR	ALL	1ST	12/19/2017 08 hr
N_ind51	637738.94	4278692.52	0.10275	18.14	18.14	0	1-HR	ALL	1ST	1/11/2018 07 hr
N_ind52	637738.94	4278717.52	0.09186	18.27	18.27	0	1-HR	ALL	1ST	2/3/2015 07 hr
N_ind53	637738.94	4278742.52	0.08866	18.36	18.36	0	1-HR	ALL	1ST	10/28/2014 17 hr
N_ind54	637738.94	4278767.52	0.08379	18.33	18.33	0	1-HR	ALL	1ST	10/28/2014 17 hr
N_ind55	637763.94	4278642.52	0.11165	18	18	0	1-HR	ALL	1ST	1/28/2014 09 hr
N_ind56	637763.94	4278667.52	0.09863	18.11	18.11	0	1-HR	ALL	1ST	12/19/2017 08 hr
N_ind57	637763.94	4278692.52	0.0968	18.24	18.24	0	1-HR	ALL	1ST	12/19/2017 08 hr
N_ind58	637763.94	4278717.52	0.09084	18.43	18.43	0	1-HR	ALL	1ST	1/11/2018 07 hr
N_ind59	637763.94	4278742.52	0.0829	18.54	18.54	0	1-HR	ALL	1ST	1/11/2018 07 hr
N_ind60	637763.94	4278767.52	0.07788	18.54	18.54	0	1-HR	ALL	1ST	2/3/2015 07 hr
N_ind61	637788.94	4278642.52	0.10411	17.99	17.99	0	1-HR	ALL	1ST	1/28/2014 09 hr
N_ind62	637788.94	4278667.52	0.09532	18.19	18.19	0	1-HR	ALL	1ST	1/28/2014 09 hr
N_ind63	637788.94	4278692.52	0.08648	18.31	18.31	0	1-HR	ALL	1ST	12/19/2017 08 hr
N_ind64	637788.94	4278717.52	0.08576	18.48	18.48	0	1-HR	ALL	1ST	12/19/2017 08 hr
N_ind65	637788.94	4278742.52	0.08112	18.61	18.61	0	1-HR	ALL	1ST	1/11/2018 07 hr
N_ind66	637788.94	4278767.52	0.07726	18.6	18.6	0	1-HR	ALL	1ST	1/11/2018 07 hr
N_ind67	637813.94	4278642.52	0.09583	18.04	18.04	0	1-HR	ALL	1ST	1/28/2014 09 hr
N_ind68	637813.94	4278667.52	0.09275	18.32	18.32	0	1-HR	ALL	1ST	1/28/2014 09 hr
N_ind69	637813.94	4278692.52	0.08348	18.37	18.37	0	1-HR	ALL	1ST	1/28/2014 09 hr
N_ind70	637813.94	4278717.52	0.07689	18.37	18.37	0	1-HR	ALL	1ST	12/19/2017 08 hr
N_ind71	637813.94	4278742.52	0.07741	18.5	18.5	0	1-HR	ALL	1ST	12/19/2017 08 hr
N_ind72	637813.94	4278767.52	0.07514	18.59	18.59	0	1-HR	ALL	1ST	12/19/2017 08 hr
N_ind73	637838.94	4278642.52	0.08848	18.25	18.25	0	1-HR	ALL	1ST	1/28/2014 09 hr
N_ind74	637838.94	4278667.52	0.08805	18.47	18.47	0	1-HR	ALL	1ST	1/28/2014 09 hr
N_ind75	637838.94	4278692.52	0.08351	18.47	18.47	0	1-HR	ALL	1ST	1/28/2014 09 hr
N_ind76	637838.94	4278717.52	0.07546	18.4	18.4	0	1-HR	ALL	1ST	1/28/2014 09 hr
N_ind77	637838.94	4278742.52	0.0699	18.48	18.48	0	1-HR	ALL	1ST	2/2/2015 07 hr
N_ind78	637838.94	4278767.52	0.07105	18.7	18.7	0	1-HR	ALL	1ST	12/19/2017 08 hr
N_ind79	637863.94	4278642.52	0.08196	18.37	18.37	0	1-HR	ALL	1ST	1/28/2014 09 hr
N_ind80	637863.94	4278667.52	0.0829	18.53	18.53	0	1-HR	ALL	1ST	1/28/2014 09 hr
N_ind81	637863.94	4278692.52	0.08142	18.55	18.55	0	1-HR	ALL	1ST	1/28/2014 09 hr
N_ind82	637863.94	4278717.52	0.07677	18.54	18.54	0	1-HR	ALL	1ST	1/28/2014 09 hr
N_ind83	637863.94	4278742.52	0.07071	18.57	18.57	0	1-HR	ALL	1ST	1/28/2014 09 hr
N_ind84	637863.94	4278767.52	0.06967	18.77	18.77	0	1-HR	ALL	1ST	1/9/2015 09 hr
N_ind85	637888.94	4278642.52	0.07571	18.28	18.28	0	1-HR	ALL	1ST	1/28/2014 09 hr
N_ind86	637888.94	4278667.52	0.07778	18.43	18.43	0	1-HR	ALL	1ST	1/28/2014 09 hr
N_ind87	637888.94	4278692.52	0.07822	18.51	18.51	0	1-HR	ALL	1ST	1/28/2014 09 hr
N_ind88	637888.94	4278717.52	0.0763	18.56	18.56	0	1-HR	ALL	1ST	1/28/2014 09 hr
N_ind89	637888.94	4278742.52	0.0725	18.57	18.57	0	1-HR	ALL	1ST	1/28/2014 09 hr
N_ind90	637888.94	4278767.52	0.06902	18.67	18.67	0	1-HR	ALL	1ST	1/28/2014 09 hr
	637604.83	4278614.5	0.15986	18.32	18.32	1.8	1-HR	ALL	1ST	1/27/2014 07 hr
	637705.86	4278616.23	0.14622	18.28	18.28	1.8	1-HR	ALL	1ST	1/28/2014 09 hr
	637708.87	4278420	0.22082	16.26	16.26	1.8	1-HR	ALL	1ST	2/11/2016 08 hr
	637608.5	4278420	0.17178	16.49	16.49	1.8	1-HR	ALL	1ST	1/9/2015 09 hr

PROJECT TITLE:

DPM Hourly Contour

COMMENTS:

SOURCES:

12

RECEPTORS:

273

OUTPUT TYPE:

Concentration

MAX:

0.238 ug/m³

DATE:

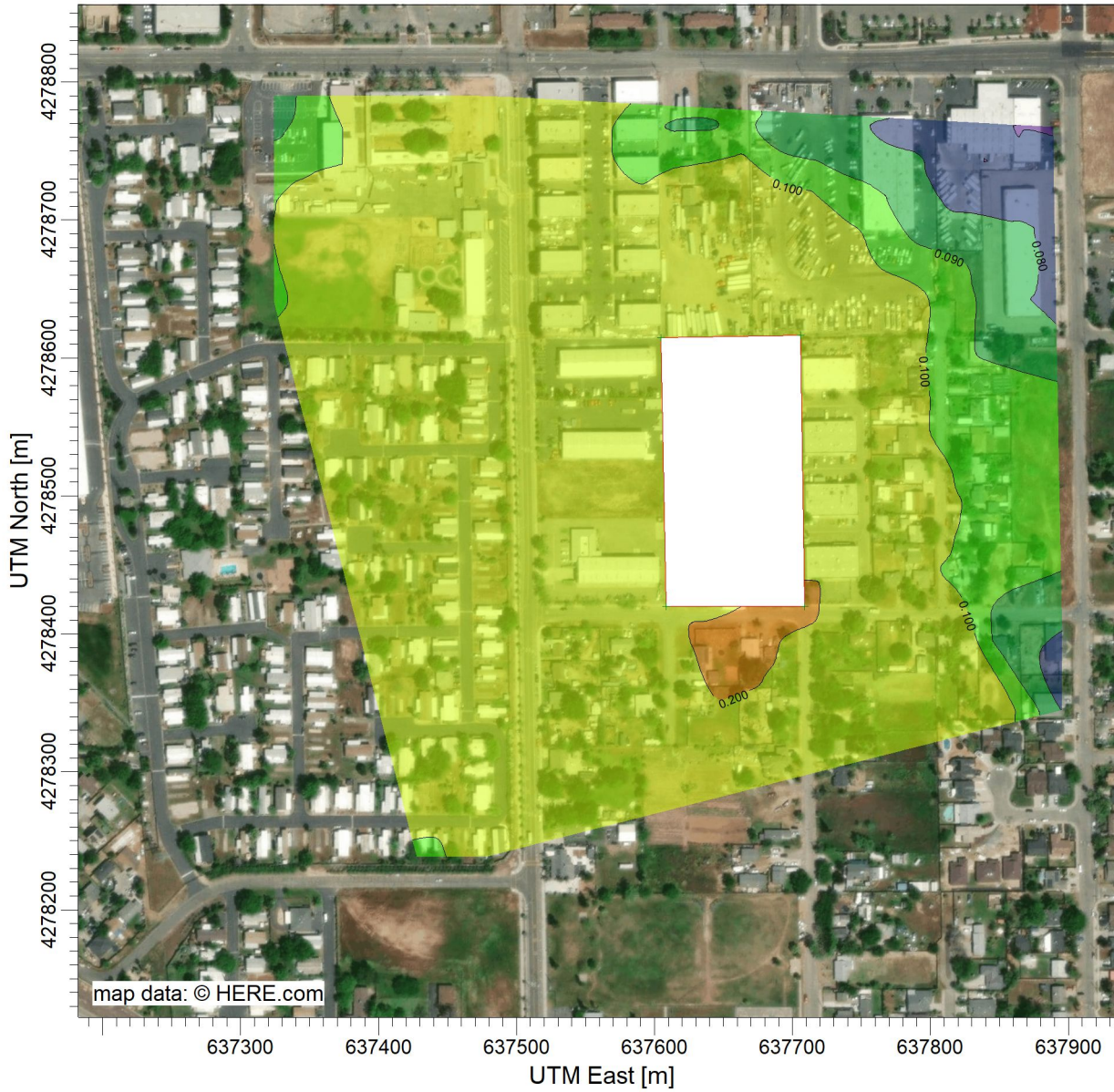
10/31/2022

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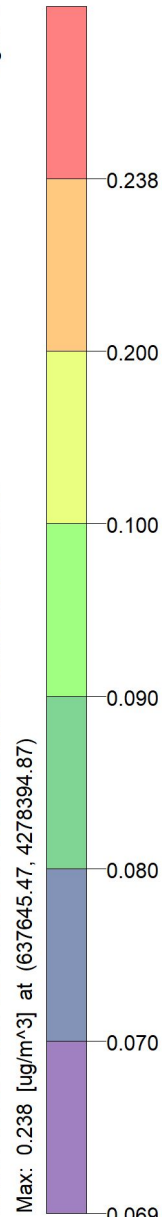


PROJECT NO.:



ug/m³

PLOT FILE OF HIGH 1ST HIGH 1-HR VALUES FOR SOURCE GROUP: ALL
Max: 0.238 [ug/m³] at (637645.47, 4278394.87)



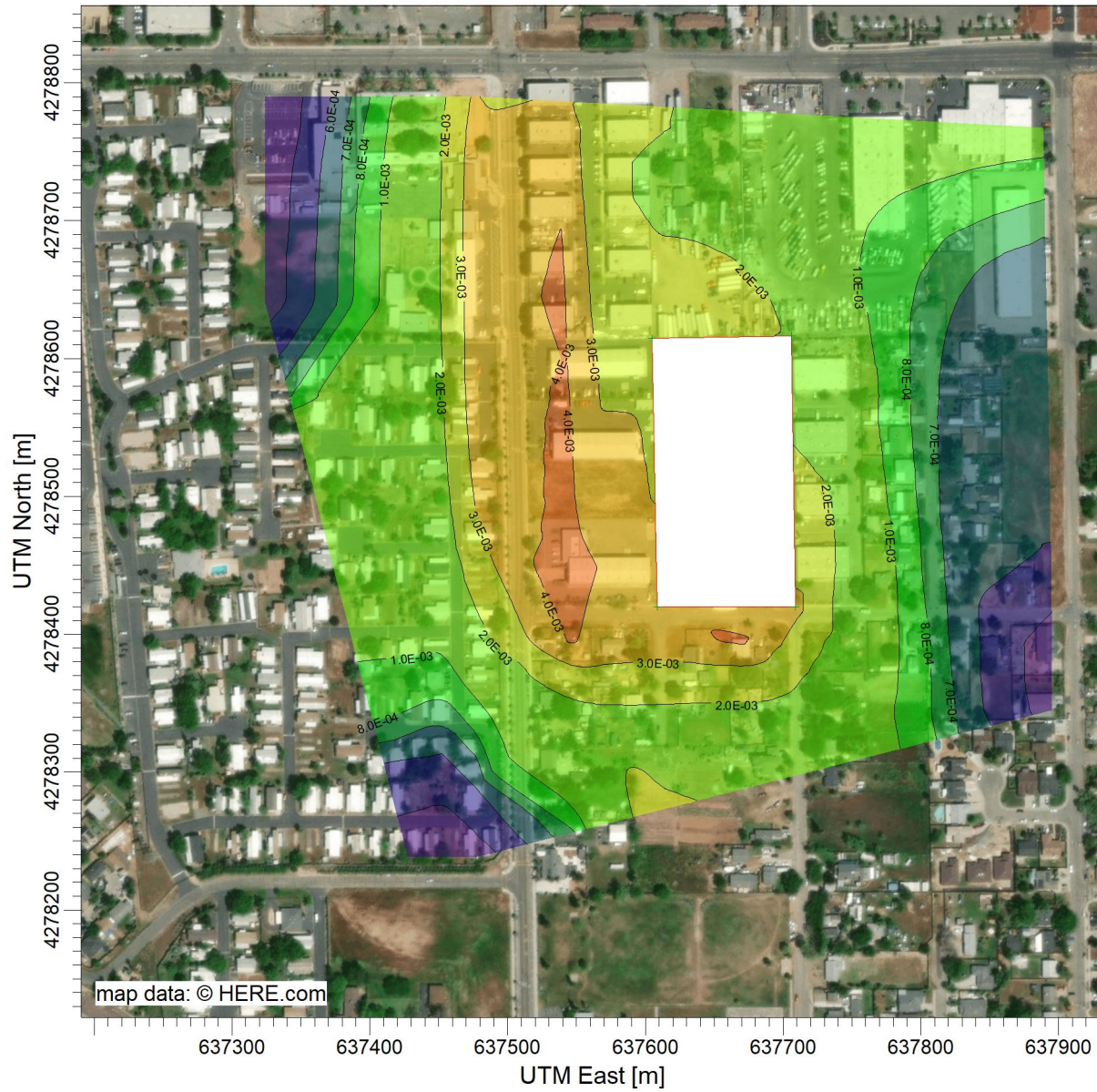
Discrete Receptor ID (Group Name)	X	Y	Concentration (AVERAGE CONC) [ug/m^3]	vation (ZEU)	Hill Heights (ZHILL)	Flagpole (ZFLAG)	Averagin Period (AVE)	Source Group (GRP)	Num Hours (NUM HRS)	Net ID
Schl1	637324.33	4278640.16	0.00044	17.15	17.15	0	PERIOD	ALL	43680	
Schl2	637324.33	4278665.16	0.00044	17.11	17.11	0	PERIOD	ALL	43680	
Schl3	637324.33	4278690.16	0.00044	17.03	17.03	0	PERIOD	ALL	43680	
Schl4	637324.33	4278715.16	0.00043	16.91	16.91	0	PERIOD	ALL	43680	
Schl5	637324.33	4278740.16	0.00042	16.78	16.78	0	PERIOD	ALL	43680	
Schl6	637324.33	4278765.16	0.00041	16.66	16.66	0	PERIOD	ALL	43680	
Schl7	637324.33	4278790.16	0.0004	16.56	16.56	0	PERIOD	ALL	43680	
Schl8	637349.33	4278640.16	0.00054	17.29	17.29	0	PERIOD	ALL	43680	
Schl9	637349.33	4278665.16	0.00054	17.15	17.15	0	PERIOD	ALL	43680	
Schl10	637349.33	4278690.16	0.00053	17.03	17.03	0	PERIOD	ALL	43680	
Schl11	637349.33	4278715.16	0.00053	16.92	16.92	0	PERIOD	ALL	43680	
Schl12	637349.33	4278740.16	0.00052	16.8	16.8	0	PERIOD	ALL	43680	
Schl13	637349.33	4278765.16	0.0005	16.67	16.67	0	PERIOD	ALL	43680	
Schl14	637349.33	4278790.16	0.00049	16.53	16.53	0	PERIOD	ALL	43680	
Schl15	637374.33	4278640.16	0.00068	17.37	17.37	0	PERIOD	ALL	43680	
Schl16	637374.33	4278665.16	0.00068	17.22	17.22	0	PERIOD	ALL	43680	
Schl17	637374.33	4278690.16	0.00067	17.11	17.11	0	PERIOD	ALL	43680	
Schl18	637374.33	4278715.16	0.00066	17.03	17.03	0	PERIOD	ALL	43680	
Schl19	637374.33	4278740.16	0.00065	16.95	16.95	0	PERIOD	ALL	43680	
Schl20	637374.33	4278765.16	0.00063	16.85	16.85	0	PERIOD	ALL	43680	
Schl21	637374.33	4278790.16	0.00061	16.76	16.76	0	PERIOD	ALL	43680	
Schl22	637399.33	4278640.16	0.0009	17.41	17.41	0	PERIOD	ALL	43680	
Schl23	637399.33	4278665.16	0.00089	17.28	17.28	0	PERIOD	ALL	43680	
Schl24	637399.33	4278690.16	0.00089	17.19	17.19	0	PERIOD	ALL	43680	
Schl25	637399.33	4278715.16	0.00087	17.14	17.14	0	PERIOD	ALL	43680	
Schl26	637399.33	4278740.16	0.00086	17.1	17.1	0	PERIOD	ALL	43680	
Schl27	637399.33	4278765.16	0.00083	17.08	17.08	0	PERIOD	ALL	43680	
Schl28	637399.33	4278790.16	0.00079	17.05	17.05	0	PERIOD	ALL	43680	
Schl29	637424.33	4278640.16	0.00124	17.51	17.51	0	PERIOD	ALL	43680	
Schl30	637424.33	4278665.16	0.00124	17.39	17.39	0	PERIOD	ALL	43680	
Schl31	637424.33	4278690.16	0.00124	17.31	17.31	0	PERIOD	ALL	43680	
Schl32	637424.33	4278715.16	0.00122	17.24	17.24	0	PERIOD	ALL	43680	
Schl33	637424.33	4278740.16	0.00119	17.18	17.18	0	PERIOD	ALL	43680	
Schl34	637424.33	4278765.16	0.00115	17.19	17.19	0	PERIOD	ALL	43680	
Schl35	637424.33	4278790.16	0.00109	17.18	17.18	0	PERIOD	ALL	43680	
Schl36	637449.33	4278640.16	0.00189	17.63	17.63	0	PERIOD	ALL	43680	
Schl37	637449.33	4278665.16	0.00189	17.52	17.52	0	PERIOD	ALL	43680	
Schl38	637449.33	4278690.16	0.00189	17.44	17.44	0	PERIOD	ALL	43680	
Schl39	637449.33	4278715.16	0.00187	17.35	17.35	0	PERIOD	ALL	43680	
Schl40	637449.33	4278740.16	0.00183	17.26	17.26	0	PERIOD	ALL	43680	
Schl41	637449.33	4278765.16	0.00177	17.23	17.23	0	PERIOD	ALL	43680	
Schl42	637449.33	4278790.16	0.00166	17.22	17.22	0	PERIOD	ALL	43680	
Schl43	637474.33	4278640.16	0.00335	17.68	17.68	0	PERIOD	ALL	43680	
Schl44	637474.33	4278665.16	0.00339	17.61	17.61	0	PERIOD	ALL	43680	
Schl45	637474.33	4278690.16	0.0034	17.56	17.56	0	PERIOD	ALL	43680	
Schl46	637474.33	4278715.16	0.00339	17.46	17.46	0	PERIOD	ALL	43680	
Schl47	637474.33	4278740.16	0.00335	17.35	17.35	0	PERIOD	ALL	43680	
Schl48	637474.33	4278765.16	0.00326	17.26	17.26	0	PERIOD	ALL	43680	
Schl49	637474.33	4278790.16	0.00306	17.24	17.24	0	PERIOD	ALL	43680	
W_Res1	637427.56	4278238.25	0.00038	16.14	16.14	0	PERIOD	ALL	43680	
W_Res2	637452.56	4278238.25	0.00042	16.1	16.1	0	PERIOD	ALL	43680	
W_Res3	637452.56	4278263.25	0.00046	15.64	15.64	0	PERIOD	ALL	43680	
W_Res4	637452.56	4278288.25	0.00053	15.52	15.52	0	PERIOD	ALL	43680	
W_Res5	637452.56	4278313.25	0.0006	15.58	15.58	0	PERIOD	ALL	43680	
W_Res6	637452.56	4278338.25	0.0007	15.53	15.53	0	PERIOD	ALL	43680	
W_Res7	637452.56	4278363.25	0.00084	15.69	15.69	0	PERIOD	ALL	43680	
W_Res8	637452.56	4278388.25	0.00101	16.02	16.02	0	PERIOD	ALL	43680	
W_Res9	637452.56	4278413.25	0.0012	16.2	16.2	0	PERIOD	ALL	43680	
W_Res10	637452.56	4278438.25	0.00136	16.37	16.37	0	PERIOD	ALL	43680	
W_Res11	637452.56	4278463.25	0.00151	16.64	16.64	0	PERIOD	ALL	43680	
W_Res12	637452.56	4278488.25	0.00164	16.92	16.92	0	PERIOD	ALL	43680	
W_Res13	637452.56	4278513.25	0.00176	17.3	17.3	0	PERIOD	ALL	43680	
W_Res14	637452.56	4278538.25	0.00185	17.49	17.49	0	PERIOD	ALL	43680	
W_Res15	637452.56	4278563.25	0.00192	17.71	17.71	0	PERIOD	ALL	43680	
W_Res16	637452.56	4278588.25	0.00197	17.92	17.92	0	PERIOD	ALL	43680	
W_Res17	637477.56	4278238.25	0.00046	16	16	0	PERIOD	ALL	43680	
W_Res18	637477.56	4278263.25	0.00052	15.58	15.58	0	PERIOD	ALL	43680	
W_Res19	637477.56	4278288.25	0.0006	15.49	15.49	0	PERIOD	ALL	43680	
W_Res20	637477.56	4278313.25	0.00071	15.58	15.58	0	PERIOD	ALL	43680	
W_Res21	637477.56	4278338.25	0.00086	15.59	15.59	0	PERIOD	ALL	43680	
W_Res22	637477.56	4278363.25	0.00109	15.74	15.74	0	PERIOD	ALL	43680	
W_Res23	637477.56	4278388.25	0.00145	15.98	15.98	0	PERIOD	ALL	43680	
W_Res24	637477.56	4278413.25	0.00193	16.19	16.19	0	PERIOD	ALL	43680	
W_Res25	637477.56	4278438.25	0.00235	16.41	16.41	0	PERIOD	ALL	43680	
W_Res26	637477.56	4278463.25	0.00274	16.68	16.68	0	PERIOD	ALL	43680	
W_Res27	637477.56	4278488.25	0.00302	17	17	0	PERIOD	ALL	43680	
W_Res28	637477.56	4278513.25	0.00322	17.34	17.34	0	PERIOD	ALL	43680	
W_Res29	637477.56	4278538.25	0.00336	17.6	17.6	0	PERIOD	ALL	43680	
W_Res30	637477.56	4278563.25	0.00347	17.81	17.81	0	PERIOD	ALL	43680	
W_Res31	637477.56	4278588.25	0.00356	17.94	17.94	0	PERIOD	ALL	43680	
S_Res1	637545.47	4278344.87	0.00173	15.99	15.99	0	PERIOD	ALL	43680	
S_Res2	637545.47	4278369.87	0.00262	16.21	16.21	0	PERIOD	ALL	43680	
S_Res3	637545.47	4278394.87	0.00408	16.42	16.42	0	PERIOD	ALL	43680	
S_Res4	637570.47	4278344.87	0.00188	16.1	16.1	0	PERIOD	ALL	43680	
S_Res5	637570.47	4278369.87	0.00261	16.21	16.21	0	PERIOD	ALL	43680	
S_Res6	637570.47	4278394.87	0.00376	16.33	16.33	0	PERIOD	ALL	43680	
S_Res7	637595.47	4278344.87	0.0019	16	16	0	PERIOD	ALL	43680	
S_Res8	637595.47	4278369.87	0.00255	16.09	16.09	0	PERIOD	ALL	43680	
S_Res9	637595.47	4278394.87	0.00363	16.2	16.2	0	PERIOD	ALL	43680	
S_Res10	637620.47	4278344.87	0.00188	15.86	15.86	0	PERIOD	ALL	43680	
S_Res11	637620.47	4278369.87	0.00253	15.95	15.95	0	PERIOD	ALL	43680	
S_Res12	637620.47	4278394.87	0.0037	16.17	16.17	0	PERIOD	ALL	43680	
S_Res13	637645.47	4278344.87	0.00186	15.9	15.9	0	PERIOD	ALL	43680	
S_Res14	637645.47	4278369.87	0.00256	15.97	15.97	0	PERIOD	ALL	43680	
S_Res15	637645.47	4278394.87	0.00396	16.28	16.28	0	PERIOD	ALL	43680	
S_Res16	637670.47	4278344.87	0.00185	15.99	15.99	0	PERIOD	ALL	43680	
S_Res17	637670.47	4278369.87	0.00258	16.01	16.01	0	PERIOD	ALL	43680	
S_Res18	637670.47	4278394.87	0.00413	16.28	16.28	0	PERIOD	ALL	43680	
S_Res19	637695.47	4278344.87	0.00179	16.03	16.03	0	PERIOD	ALL	43680	
S_Res20	637695.47	4278369.87	0.00236	16.04	16.04	0	PERIOD	ALL	43680	
S_Res21	637695.47	4278394.87	0.00316	16.2	16.2	0	PERIOD	ALL	43680	
S_Res22	637720.47	4278344.87	0.00159	16.1	16.1	0	PERIOD	ALL	43680	
S_Res23	637720.47	4278369.87	0.0019	16.06	16.06	0	PERIOD	ALL	43680	
S_Res24	637720.47	4278394.87	0.00224	16.1	16.1	0	PERIOD	ALL	43680	
S_Res25	637745.47	4278344.87	0.00133	16.25	16.25	0	PERIOD	ALL	43680	
S_Res26	637745.47	4278369.87	0.00147	16.14	16.14	0	PERIOD	ALL	43680	
S_Res27	637745.47	4278394.87	0.00158	16.1	16.1	0	PERIOD	ALL	43680	
S_Res28	637770.47	4278344.87	0.00108	16.27	16.27	0	PERIOD	ALL	43680	

S_Res29	637770.47	4278369.87	0.00113	16.16	16.16	0	PERIOD	ALL	43680
S_Res30	637770.47	4278394.87	0.00115	16.17	16.17	0	PERIOD	ALL	43680
S_Res31	637795.47	4278344.87	0.00087	16.32	16.32	0	PERIOD	ALL	43680
S_Res32	637795.47	4278369.87	0.00088	16.18	16.18	0	PERIOD	ALL	43680
S_Res33	637795.47	4278394.87	0.00088	16.29	16.29	0	PERIOD	ALL	43680
S_Res34	637820.47	4278344.87	0.00072	16.83	16.83	0	PERIOD	ALL	43680
S_Res35	637820.47	4278369.87	0.00071	16.37	16.37	0	PERIOD	ALL	43680
S_Res36	637820.47	4278394.87	0.0007	16.48	16.48	0	PERIOD	ALL	43680
S_Res37	637845.47	4278344.87	0.0006	17.14	17.14	0	PERIOD	ALL	43680
S_Res38	637845.47	4278369.87	0.00059	16.58	16.58	0	PERIOD	ALL	43680
S_Res39	637845.47	4278394.87	0.00059	16.7	16.7	0	PERIOD	ALL	43680
S_Res40	637870.47	4278344.87	0.00052	17.13	17.13	0	PERIOD	ALL	43680
S_Res41	637870.47	4278369.87	0.00051	16.74	16.74	0	PERIOD	ALL	43680
S_Res42	637870.47	4278394.87	0.00051	16.85	16.85	0	PERIOD	ALL	43680
S_Res43	637895.47	4278344.87	0.00046	17.09	17.09	0	PERIOD	ALL	43680
S_Res44	637895.47	4278369.87	0.00046	16.89	16.89	0	PERIOD	ALL	43680
S_Res45	637895.47	4278394.87	0.00045	17	17	0	PERIOD	ALL	43680
E_Res1	637775.6	4278446.12	0.00107	16.49	16.49	0	PERIOD	ALL	43680
E_Res2	637775.6	4278471.12	0.00104	16.63	16.63	0	PERIOD	ALL	43680
E_Res3	637775.6	4278496.12	0.001	16.64	16.64	0	PERIOD	ALL	43680
E_Res4	637775.6	4278521.12	0.00096	16.72	16.72	0	PERIOD	ALL	43680
E_Res5	637775.6	4278546.12	0.00093	16.8	16.8	0	PERIOD	ALL	43680
E_Res6	637775.6	4278571.12	0.00091	16.91	16.91	0	PERIOD	ALL	43680
E_Res7	637775.6	4278596.12	0.00089	17.14	17.14	0	PERIOD	ALL	43680
E_Res8	637800.6	4278446.12	0.0008	16.59	16.59	0	PERIOD	ALL	43680
E_Res9	637800.6	4278471.12	0.00079	16.73	16.73	0	PERIOD	ALL	43680
E_Res10	637800.6	4278496.12	0.00077	16.83	16.83	0	PERIOD	ALL	43680
E_Res11	637800.6	4278521.12	0.00076	16.92	16.92	0	PERIOD	ALL	43680
E_Res12	637800.6	4278546.12	0.00075	16.93	16.93	0	PERIOD	ALL	43680
E_Res13	637800.6	4278571.12	0.00075	16.94	16.94	0	PERIOD	ALL	43680
E_Res14	637800.6	4278596.12	0.00075	17.08	17.08	0	PERIOD	ALL	43680
E_Res15	637825.6	4278446.12	0.00065	16.88	16.88	0	PERIOD	ALL	43680
E_Res16	637825.6	4278471.12	0.00064	17.06	17.06	0	PERIOD	ALL	43680
E_Res17	637825.6	4278496.12	0.00064	17.17	17.17	0	PERIOD	ALL	43680
E_Res18	637825.6	4278521.12	0.00064	17.21	17.21	0	PERIOD	ALL	43680
E_Res19	637825.6	4278546.12	0.00064	17.18	17.18	0	PERIOD	ALL	43680
E_Res20	637825.6	4278571.12	0.00065	17.16	17.16	0	PERIOD	ALL	43680
E_Res21	637825.6	4278596.12	0.00066	17.27	17.27	0	PERIOD	ALL	43680
E_Ind1	637731.59	4278446.3	0.00221	16.52	16.52	0	PERIOD	ALL	43680
E_Ind2	637731.59	4278471.3	0.0022	16.83	16.83	0	PERIOD	ALL	43680
E_Ind3	637731.59	4278496.3	0.00209	16.95	16.95	0	PERIOD	ALL	43680
E_Ind4	637731.59	4278521.3	0.00192	17.11	17.11	0	PERIOD	ALL	43680
E_Ind5	637731.59	4278546.3	0.00173	17.32	17.32	0	PERIOD	ALL	43680
E_Ind6	637731.59	4278571.3	0.00157	17.55	17.55	0	PERIOD	ALL	43680
E_Ind7	637731.59	4278596.3	0.00144	17.77	17.77	0	PERIOD	ALL	43680
E_Ind8	637756.59	4278446.3	0.0014	16.53	16.53	0	PERIOD	ALL	43680
E_Ind9	637756.59	4278471.3	0.00137	16.8	16.8	0	PERIOD	ALL	43680
E_Ind10	637756.59	4278496.3	0.00131	16.86	16.86	0	PERIOD	ALL	43680
E_Ind11	637756.59	4278521.3	0.00123	16.98	16.98	0	PERIOD	ALL	43680
E_Ind12	637756.59	4278546.3	0.00116	17.14	17.14	0	PERIOD	ALL	43680
W_Ind1	637542.53	4278447.59	0.00479	16.99	16.99	0	PERIOD	ALL	43680
W_Ind2	637542.53	4278472.59	0.00441	17.3	17.3	0	PERIOD	ALL	43680
W_Ind3	637542.53	4278497.59	0.00428	17.67	17.67	0	PERIOD	ALL	43680
W_Ind4	637542.53	4278522.59	0.00423	18.09	18.09	0	PERIOD	ALL	43680
W_Ind5	637542.53	4278547.59	0.00418	18.27	18.27	0	PERIOD	ALL	43680
W_Ind6	637542.53	4278572.59	0.00411	18.24	18.24	0	PERIOD	ALL	43680
W_Ind7	637542.53	4278597.59	0.00403	18.21	18.21	0	PERIOD	ALL	43680
W_Ind8	637567.53	4278447.59	0.00393	17.04	17.04	0	PERIOD	ALL	43680
W_Ind9	637567.53	4278472.59	0.00339	17.38	17.38	0	PERIOD	ALL	43680
W_Ind10	637567.53	4278497.59	0.00319	17.7	17.7	0	PERIOD	ALL	43680
W_Ind11	637567.53	4278522.59	0.0031	18.18	18.18	0	PERIOD	ALL	43680
W_Ind12	637567.53	4278547.59	0.00304	18.38	18.38	0	PERIOD	ALL	43680
W_Ind13	637567.53	4278572.59	0.00297	18.31	18.31	0	PERIOD	ALL	43680
W_Ind14	637567.53	4278597.59	0.00287	18.3	18.3	0	PERIOD	ALL	43680
W_Ind15	637592.53	4278447.59	0.00378	17.06	17.06	0	PERIOD	ALL	43680
W_Ind16	637592.53	4278472.59	0.00324	17.43	17.43	0	PERIOD	ALL	43680
W_Ind17	637592.53	4278497.59	0.00309	17.67	17.67	0	PERIOD	ALL	43680
W_Ind18	637592.53	4278522.59	0.00307	18.17	18.17	0	PERIOD	ALL	43680
W_Ind19	637592.53	4278547.59	0.00304	18.34	18.34	0	PERIOD	ALL	43680
W_Ind20	637592.53	4278572.59	0.00296	18.31	18.31	0	PERIOD	ALL	43680
W_Ind21	637592.53	4278597.59	0.00278	18.3	18.3	0	PERIOD	ALL	43680
N_Ind1	637538.94	4278642.52	0.00418	17.9	17.9	0	PERIOD	ALL	43680
N_Ind2	637538.94	4278667.52	0.0041	17.81	17.81	0	PERIOD	ALL	43680
N_Ind3	637538.94	4278692.52	0.00401	17.77	17.77	0	PERIOD	ALL	43680
N_Ind4	637538.94	4278717.52	0.00389	17.74	17.74	0	PERIOD	ALL	43680
N_Ind5	637538.94	4278742.52	0.00375	17.71	17.71	0	PERIOD	ALL	43680
N_Ind6	637538.94	4278767.52	0.00363	17.71	17.71	0	PERIOD	ALL	43680
N_Ind7	637563.94	4278642.52	0.00279	17.85	17.85	0	PERIOD	ALL	43680
N_Ind8	637563.94	4278667.52	0.0027	17.72	17.72	0	PERIOD	ALL	43680
N_Ind9	637563.94	4278692.52	0.0026	17.68	17.68	0	PERIOD	ALL	43680
N_Ind10	637563.94	4278717.52	0.0025	17.7	17.7	0	PERIOD	ALL	43680
N_Ind11	637563.94	4278742.52	0.00245	17.75	17.75	0	PERIOD	ALL	43680
N_Ind12	637563.94	4278767.52	0.00254	17.8	17.8	0	PERIOD	ALL	43680
N_Ind13	637588.94	4278642.52	0.00242	17.85	17.85	0	PERIOD	ALL	43680
N_Ind14	637588.94	4278667.52	0.00225	17.7	17.7	0	PERIOD	ALL	43680
N_Ind15	637588.94	4278692.52	0.0021	17.68	17.68	0	PERIOD	ALL	43680
N_Ind16	637588.94	4278717.52	0.00201	17.75	17.75	0	PERIOD	ALL	43680
N_Ind17	637588.94	4278742.52	0.00201	17.88	17.88	0	PERIOD	ALL	43680
N_Ind18	637588.94	4278767.52	0.00218	17.99	17.99	0	PERIOD	ALL	43680
N_Ind19	637613.94	4278642.52	0.00261	17.92	17.92	0	PERIOD	ALL	43680
N_Ind20	637613.94	4278667.52	0.00221	17.78	17.78	0	PERIOD	ALL	43680
N_Ind21	637613.94	4278692.52	0.00196	17.75	17.75	0	PERIOD	ALL	43680
N_Ind22	637613.94	4278717.52	0.00183	17.8	17.8	0	PERIOD	ALL	43680
N_Ind23	637613.94	4278742.52	0.00183	17.93	17.93	0	PERIOD	ALL	43680
N_Ind24	637613.94	4278767.52	0.00202	18.05	18.05	0	PERIOD	ALL	43680
N_Ind25	637638.94	4278642.52	0.00296	17.92	17.92	0	PERIOD	ALL	43680
N_Ind26	637638.94	4278667.52	0.00225	17.8	17.8	0	PERIOD	ALL	43680
N_Ind27	637638.94	4278692.52	0.00189	17.76	17.76	0	PERIOD	ALL	43680
N_Ind28	637638.94	4278717.52	0.00173	17.8	17.8	0	PERIOD	ALL	43680
N_Ind29	637638.94	4278742.52	0.00173	17.92	17.92	0	PERIOD	ALL	43680
N_Ind30	637638.94	4278767.52	0.00192	18.09	18.09	0	PERIOD	ALL	43680
N_Ind31	637663.94	4278642.52	0.00274	17.99	17.99	0	PERIOD	ALL	43680
N_Ind32	637663.94	4278667.52	0.00207	17.88	17.88	0	PERIOD	ALL	43680
N_Ind33	637663.94	4278692.52	0.00175	17.84	17.84	0	PERIOD	ALL	43680
N_Ind34	637663.94	4278717.52	0.00161	17.88	17.88	0	PERIOD	ALL	43680
N_Ind35	637663.94	4278742.52	0.00163	18.02	18.02	0	PERIOD	ALL	43680
N_Ind36	637663.94	4278767.52	0.00184	18.15	18.15	0	PERIOD	ALL	43680
N_Ind37	637688.94	4278642.52	0.00205	18.11	18.11	0	PERIOD	ALL	43680
N_Ind38	637688.94	4278667.52	0.0017	18.02	18.02	0	PERIOD	ALL	43680

N_ind39	637688.94	4278692.52	0.00152	17.98	17.98	0	PERIOD	ALL	43680
N_ind40	637688.94	4278717.52	0.00145	18.01	18.01	0	PERIOD	ALL	43680
N_ind41	637688.94	4278742.52	0.00151	18.11	18.11	0	PERIOD	ALL	43680
N_ind42	637688.94	4278767.52	0.00174	18.12	18.12	0	PERIOD	ALL	43680
N_ind43	637713.94	4278642.52	0.00149	18.19	18.19	0	PERIOD	ALL	43680
N_ind44	637713.94	4278667.52	0.00136	18.11	18.11	0	PERIOD	ALL	43680
N_ind45	637713.94	4278692.52	0.00129	18.09	18.09	0	PERIOD	ALL	43680
N_ind46	637713.94	4278717.52	0.00129	18.15	18.15	0	PERIOD	ALL	43680
N_ind47	637713.94	4278742.52	0.00139	18.24	18.24	0	PERIOD	ALL	43680
N_ind48	637713.94	4278767.52	0.00166	18.2	18.2	0	PERIOD	ALL	43680
N_ind49	637738.94	4278642.52	0.00116	18.09	18.09	0	PERIOD	ALL	43680
N_ind50	637738.94	4278667.52	0.00111	18.09	18.09	0	PERIOD	ALL	43680
N_ind51	637738.94	4278692.52	0.00111	18.14	18.14	0	PERIOD	ALL	43680
N_ind52	637738.94	4278717.52	0.00116	18.27	18.27	0	PERIOD	ALL	43680
N_ind53	637738.94	4278742.52	0.00129	18.36	18.36	0	PERIOD	ALL	43680
N_ind54	637738.94	4278767.52	0.00157	18.33	18.33	0	PERIOD	ALL	43680
N_ind55	637763.94	4278642.52	0.00095	18	18	0	PERIOD	ALL	43680
N_ind56	637763.94	4278667.52	0.00095	18.11	18.11	0	PERIOD	ALL	43680
N_ind57	637763.94	4278692.52	0.00098	18.24	18.24	0	PERIOD	ALL	43680
N_ind58	637763.94	4278717.52	0.00105	18.43	18.43	0	PERIOD	ALL	43680
N_ind59	637763.94	4278742.52	0.0012	18.54	18.54	0	PERIOD	ALL	43680
N_ind60	637763.94	4278767.52	0.0015	18.54	18.54	0	PERIOD	ALL	43680
N_ind61	637788.94	4278642.52	0.00082	17.99	17.99	0	PERIOD	ALL	43680
N_ind62	637788.94	4278667.52	0.00084	18.19	18.19	0	PERIOD	ALL	43680
N_ind63	637788.94	4278692.52	0.00089	18.31	18.31	0	PERIOD	ALL	43680
N_ind64	637788.94	4278717.52	0.00098	18.48	18.48	0	PERIOD	ALL	43680
N_ind65	637788.94	4278742.52	0.00113	18.61	18.61	0	PERIOD	ALL	43680
N_ind66	637788.94	4278767.52	0.00143	18.6	18.6	0	PERIOD	ALL	43680
N_ind67	637813.94	4278642.52	0.00073	18.04	18.04	0	PERIOD	ALL	43680
N_ind68	637813.94	4278667.52	0.00077	18.32	18.32	0	PERIOD	ALL	43680
N_ind69	637813.94	4278692.52	0.00082	18.37	18.37	0	PERIOD	ALL	43680
N_ind70	637813.94	4278717.52	0.00092	18.37	18.37	0	PERIOD	ALL	43680
N_ind71	637813.94	4278742.52	0.00108	18.5	18.5	0	PERIOD	ALL	43680
N_ind72	637813.94	4278767.52	0.00138	18.59	18.59	0	PERIOD	ALL	43680
N_ind73	637838.94	4278642.52	0.00067	18.25	18.25	0	PERIOD	ALL	43680
N_ind74	637838.94	4278667.52	0.00071	18.47	18.47	0	PERIOD	ALL	43680
N_ind75	637838.94	4278692.52	0.00078	18.47	18.47	0	PERIOD	ALL	43680
N_ind76	637838.94	4278717.52	0.00087	18.4	18.4	0	PERIOD	ALL	43680
N_ind77	637838.94	4278742.52	0.00103	18.48	18.48	0	PERIOD	ALL	43680
N_ind78	637838.94	4278767.52	0.00133	18.7	18.7	0	PERIOD	ALL	43680
N_ind79	637863.94	4278642.52	0.00063	18.37	18.37	0	PERIOD	ALL	43680
N_ind80	637863.94	4278667.52	0.00067	18.53	18.53	0	PERIOD	ALL	43680
N_ind81	637863.94	4278692.52	0.00074	18.55	18.55	0	PERIOD	ALL	43680
N_ind82	637863.94	4278717.52	0.00084	18.54	18.54	0	PERIOD	ALL	43680
N_ind83	637863.94	4278742.52	0.001	18.57	18.57	0	PERIOD	ALL	43680
N_ind84	637863.94	4278767.52	0.0013	18.77	18.77	0	PERIOD	ALL	43680
N_ind85	637888.94	4278642.52	0.0006	18.28	18.28	0	PERIOD	ALL	43680
N_ind86	637888.94	4278667.52	0.00065	18.43	18.43	0	PERIOD	ALL	43680
N_ind87	637888.94	4278692.52	0.00071	18.51	18.51	0	PERIOD	ALL	43680
N_ind88	637888.94	4278717.52	0.00081	18.56	18.56	0	PERIOD	ALL	43680
N_ind89	637888.94	4278742.52	0.00098	18.57	18.57	0	PERIOD	ALL	43680
N_ind90	637888.94	4278767.52	0.00127	18.67	18.67	0	PERIOD	ALL	43680
	637604.83	4278614.5	0.00277	18.32	18.32	1.8	PERIOD	ALL	43680
	637705.86	4278616.23	0.00188	18.28	18.28	1.8	PERIOD	ALL	43680
	637708.87	4278420	0.00326	16.26	16.26	1.8	PERIOD	ALL	43680
	637608.5	4278420	0.00381	16.49	16.49	1.8	PERIOD	ALL	43680

PROJECT TITLE:
DPM Period Contour

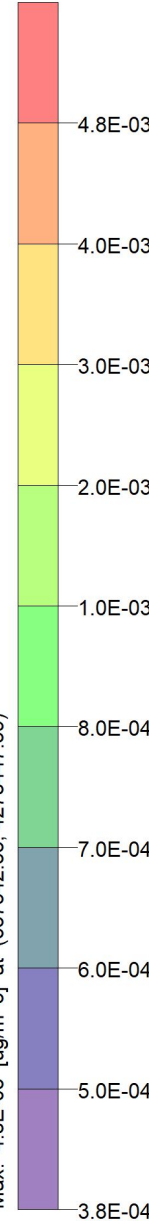
COMMENTS:



ug/m³

PLOT FILE OF PERIOD VALUES AVERAGED ACROSS 0 YEARS FOR SOURCE GROUP: ALL

Max: 4.8E-03 [ug/m³] at (637542.53, 4278447.59)



SOURCES:

12

RECEPTORS:

273

OUTPUT TYPE:

Concentration

MAX:

4.8E-03 ug/m³

DATE:

10/31/2022

SCALE:

1:5,000



PROJECT NO.:

Appendix C

HARP2 Output Files

HARP2 - HRACalc (dated 22118) 11/1/2022 9:52:23 AM - Output Log

GLCs loaded successfully
Pollutants loaded successfully

RISK SCENARIO SETTINGS

Receptor Type: Resident
Scenario: All
Calculation Method: HighEnd

EXPOSURE DURATION PARAMETERS FOR CANCER

Start Age: 5
Total Exposure Duration: 9

Exposure Duration Bin Distribution

3rd Trimester Bin: 0
0<2 Years Bin: 0
2<9 Years Bin: 0
2<16 Years Bin: 9
16<30 Years Bin: 0
16 to 70 Years Bin: 0

PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: False
Dermal: False
Mother's milk: False
Water: False
Fish: False
Homegrown crops: False
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

INHALATION

Daily breathing rate: Moderate8HR

Worker Adjustment Factors
Worker adjustment factors enabled: NO

Fraction at time at home
3rd Trimester to 16 years: OFF
16 years to 70 years: OFF

TIER 2 SETTINGS

Tier2 adjustments were used in this assessment. Please see the input file for details.
Tier2 - What was changed: ED or start age changed|DBRs changed|
Calculating cancer risk
Cancer risk saved to: C:\Users\AMBIENT Air\Desktop\New folder\School CancerRisk.csv
Calculating chronic risk
Chronic risk saved to: C:\Users\AMBIENT Air\Desktop\New folder\School NCChronicRisk.csv
Calculating acute risk
Acute risk saved to: C:\Users\AMBIENT Air\Desktop\New folder\School NCAcuteRisk.csv
HRA ran successfully

*HARP - HRACalc v22118 11/1/2022 9:52:23 AM - Cancer Risk - Input File: C:\Users\AMBIENT Air\Desktop\New folder\School HRAInput.hra

INDEX	GRP1	GRP2	POLID	POLABBREV	CONC	RISK_SUM	SCENARIO	DETAILS	INH_RISK
1			9901	DieselExhPM	0.0034	7.19E-07	9YrCancerHighEnd_Inh	*	7.19E-07

*HARP - HRACalc v22118 11/1/2022 9:52:23 AM - Chronic Risk - Input File: C:\Users\AMBIENT Air\Desktop\New folder\School HRAInput.hra

INDEX	GRP1	GRP2	POLID	POLABRE	CONC	SCENARIO	CV	CNS	IMMUN	KIDNEY	GILV	REPRO/DEVEL	RESP	SKIN	EYE	BONE/TEETH	ENDO	BLOOD	ODOR	GENERAL	DETAILS			
1			9901	DieselExp	0.0034	NonCancerChronicHighEnd_Inh	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*			
							INH_CONC	SOIL_DOSE	DERMAL_DOSE	MMILK_DOSE	WATER_DOSE	FISH_DOSE	CROP_DOSE	BEEF_DOSE	DAIRY_DOSE	PIG_DOSE	CHICKEN_DOSE	EGG_DOSE	1ST_DRIVER	2ND_DRIVER	3RD_DRIVER	PASTURE_CONC	FISH_CONC	WATER_CONC
							3.40E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	INHALATION	NA	NA	0.00E+00	0.00E+00	0.00E+00

HARP2 - HRACalc (dated 22118) 11/2/2022 2:35:45 PM - Output Log

GLCs loaded successfully
Pollutants loaded successfully

RISK SCENARIO SETTINGS

Receptor Type: Resident
Scenario: All
Calculation Method: HighEnd

EXPOSURE DURATION PARAMETERS FOR CANCER

Start Age: -0.25
Total Exposure Duration: 30

Exposure Duration Bin Distribution

3rd Trimester Bin: 0.25
0<2 Years Bin: 2
2<9 Years Bin: 0
2<16 Years Bin: 14
16<30 Years Bin: 14
16 to 70 Years Bin: 0

PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: True
Dermal: True
Mother's milk: True
Water: False
Fish: False
Homegrown crops: False
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

INHALATION

Daily breathing rate: LongTerm24HR

Worker Adjustment Factors
Worker adjustment factors enabled: NO

Fraction at time at home
3rd Trimester to 16 years: ON
16 years to 70 years: OFF

SOIL & DERMAL PATHWAY SETTINGS

Deposition rate (m/s): 0.05
Soil mixing depth (m): 0.01
Dermal climate: Mixed

TIER 2 SETTINGS

Tier2 not used.

Calculating cancer risk
Cancer risk saved to: C:\Users\AMBIENT Air\Desktop\New folder\Residential 95thCancerRisk.csv
Calculating chronic risk
Chronic risk saved to: C:\Users\AMBIENT Air\Desktop\New folder\Residential 95thNCChronicRisk.csv
Calculating acute risk
Acute risk saved to: C:\Users\AMBIENT Air\Desktop\New folder\Residential 95thNCAcuteRisk.csv
HRA ran successfully

*HARP - HRACalc v22118 11/2/2022 2:35:45 PM - Cancer Risk - Input File: C:\Users\AMBIENT Air\Desktop\New folder\Residential 95thHRAInput.hra

INDEX	GRP1	GRP2	POLID	POLABBREV	CONC	RISK_SUM	SCENARIO	DETAILS	INH_RISK
1			9901	DieselExhPM	0.00413	2.89E-06	30YrCancerHighEnd_InhSoilDermMMilk_FAH3to16	*	2.89E-06

*HARP - HRACalc v22118 11/2/2022 2:35:45 PM - Chronic Risk - Input File: C:\Users\AMBIENT Air\Desktop\New folder\Residential 95thHRAInput.hra

INDEX	GRP1	GRP2	POLID	POLABBREV	CONC	SCENARIO	CV	CNS	IMMUN	KIDNEY	GILV	REPRO/DEVEL	RESP	SKIN	EYE	BONE/TEETH	ENDO	BLOOD	ODOR	GENERAL	DETAILS			
1			9901	DieseExhPM	0.00413	NonCancerChronicHighEnd_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*			
			POLID	POLABBREV	CONC	SCENARIO	INH_CONC	SOIL_DOSE	DERMAL_DOSE	MMILK_DOSE	WATER_DOSE	FISH_DOSE	CROP_DOSE	BEEF_DOSE	DAIRY_DOSE	PIG_DOSE	CHICKEN_DOSE	EGG_DOSE	1ST_DRIVER	2ND_DRIVER	3RD_DRIVER	PASTURE_CONC	FISH_CONC	WATER_CONC
			9901	DieseExhPM	0.00413	NonCancerChronicHighEnd_InhSoilDermMMilk	4.13E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	INHALATION	NA	NA	0.00E+00	0.00E+00	0.00E+00

HARP2 - HRACalc (dated 22118) 11/2/2022 2:37:10 PM - Output Log

GLCs loaded successfully
Pollutants loaded successfully

RISK SCENARIO SETTINGS

Receptor Type: Worker
Scenario: All
Calculation Method: HighEnd

EXPOSURE DURATION PARAMETERS FOR CANCER

Start Age: 16
Total Exposure Duration: 25

Exposure Duration Bin Distribution

3rd Trimester Bin: 0
0<2 Years Bin: 0
2<9 Years Bin: 0
2<16 Years Bin: 0
16<30 Years Bin: 0
16 to 70 Years Bin: 25

PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: True
Dermal: True
Mother's milk: False
Water: False
Fish: False
Homegrown crops: False
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

INHALATION

Daily breathing rate: Moderate8HR

Worker Adjustment Factors
Worker adjustment factors enabled: NO

Fraction at time at home
3rd Trimester to 16 years: OFF
16 years to 70 years: OFF

SOIL & DERMAL PATHWAY SETTINGS

Deposition rate (m/s): 0.05
Soil mixing depth (m): 0.01
Dermal climate: Mixed

TIER 2 SETTINGS

Tier2 not used.

Calculating cancer risk
Cancer risk saved to: C:\Users\AMBIENT Air\Desktop\New folder\Worker 95thCancerRisk.csv
Calculating chronic risk
Chronic risk saved to: C:\Users\AMBIENT Air\Desktop\New folder\Worker 95thNCChronicRisk.csv
Calculating acute risk
Acute risk saved to: C:\Users\AMBIENT Air\Desktop\New folder\Worker 95thNCAcuteRisk.csv
HRA ran successfully

*HARP - HRACalc v22118 11/2/2022 2:37:10 PM - Cancer Risk - Input File: C:\Users\AMBIENT Air\Desktop\New folder\Worker 95thHRAInput.hra

INDEX	GRP1	GRP2	POLID	POLABBREV	CONC	RISK_SUM	SCENARIO	DETAILS	INH_RISK
1			9901	DieselExhPM	0.00479	2.96E-07	25YrCancerHighEnd_InhSoilDerm	*	2.96E-07

*HARP - HRACalc v22118 11/2/2022 2:37:10 PM - Chronic Risk - Input File: C:\Users\AMBIENT Air\Desktop\New folder\Worker 95thHRAInput.hra

INDEX	GRP1	GRP2	POLID	POLABBR	CONC	SCENARIO	CV	CNS	IMMUN	KIDNEY	GILV	REPRO/DEVEL	RESP	SKIN	EYE	BONE/TEETH	ENDO	BLOOD	ODOR	GENERAL	DETAILS			
1			9901	DieselExhPi	0.00479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*			
							INH_CONC	SOIL_DOSE	DERMAL_DOSE	MMILK_DOSE	WATER_DOSE	FISH_DOSE	CROP_DOSE	BEEF_DOSE	DAIRY_DOSE	PIG_DOSE	CHICKEN_DOSE	EGG_DOSE	1ST_DRIVER	2ND_DRIVER	3RD_DRIVER	PASTURE_CONC	FISH_CONC	WATER_CONC
							4.79E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	INHALATION	NA	NA	0.00E+00	0.00E+00	0.00E+00

