



**Air Quality Analysis for the
Bella Mar Project
San Diego, California**

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A handwritten signature in cursive script that reads "Jessica Fleming".

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Acronyms and Abbreviations

°F	degrees Fahrenheit
µg/m ³	micrograms per cubic meter
AAQS	Ambient Air Quality Standards
AB	Assembly Bill
AMSL	above mean sea level
CAA	Clean Air Act
CAAQS	California Ambient Air Quality Standards
CalEEMod	California Emissions Estimator Model
CAPCOA	California Air Pollution Control Officers Association
CARB	California Air Resources Board
CEQA	California Environmental Quality Act
CFR	Code of Federal Regulations
City	City of San Diego
CO	carbon monoxide
DPM	diesel particulate matter
HQ	Hazard Quotient
HVAC	heating, ventilation, and air conditioning
I-5	Interstate 5
mg/kg	milligram/kilogram
NAAQS	National Ambient Air Quality Standards
NO ₂	nitrogen dioxide
NO _x	oxides of nitrogen
OEHHA	Office of Environmental Health Hazard Assessment
Pb	lead
PM ₁₀	particulate matter with an aerodynamic diameter of 10 microns or less
PM _{2.5}	particulate matter with an aerodynamic diameter of 2.5 microns or less
ppb	parts per billion
ppm	parts per million
RAQS	Regional Air Quality Strategy
REL	Reference Exposure Level
ROG	reactive organic gas
SANDAG	San Diego Association of Governments
SDAB	San Diego Air Basin
SDAPCD	San Diego Air Pollution Control District
SIP	State Implementation Plan
SO ₂	sulfur dioxide
TACs	toxic air contaminants
TCM	Transportation Control Measures
U.S. EPA	United States Environmental Protection Agency
USC	United States Code
VOC	volatile organic compounds

Executive Summary

This report evaluates potential local and regional air quality impacts associated with the proposed Bella Mar project (project) located at 408 Hollister Street in the city of San Diego. The project site is located immediately west of Hollister Avenue, east of Interstate 5 (I-5), north of Conifer Avenue, and south of Louret Avenue, at the mouth of the Otay River valley in the city of San Diego. The 14.62-acre project site is currently undeveloped. The project proposes a rezone from AR-1-2 and OF-1-1 to RM-2-4 and the construction of 380 multi-family units.

The primary goal of the San Diego Air Pollution Control District's Regional Air Quality Strategy (RAQS) is to reduce ozone precursor emissions. The project site is designated as Open Space in the City of San Diego's (City's) General Plan and the Otay Mesa-Nestor Community Plan, and would require a Community Plan Amendment and rezone to allow for the construction of a residential development. Thus, development of the project would result in greater emissions than those accounted for in the RAQS. Future emissions of ozone precursors (reactive organic gases and nitrogen oxides) would be greater than what is prescribed in the RAQS. However, the project emissions would be less than the applicable thresholds for all criteria pollutants, and significant air quality impacts would not occur from either project construction or operations. Also, the project would provide needed housing, including over 20 percent affordable units, near a major transit stop, shopping, and recreation. Because the project would not result in an air quality violation or a cumulatively considerable net increase in criteria pollutants, the project would not conflict with implementation of the RAQS. Impacts would be less than significant.

With implementation of this measure, the project would be accounted for when updating the RAQS. With implementation of mitigation measure AQ-1, it can be concluded that the project would not obstruct or conflict with the implementation of the RAQS.

Additionally, as calculated in this analysis, project construction emissions would not exceed the applicable City emissions thresholds. These thresholds are designed to provide limits below which project emissions would not significantly change regional air quality. Therefore, as project emissions would be well below these limits, project construction would not result in regional emissions that would exceed the National Ambient Air Quality Standards (NAAQS) or California Ambient Air Quality Standards (CAAQS) or contribute to existing violations. Additionally, construction emissions would be temporary, intermittent, and would cease at the end of project construction. Therefore, project construction would result in a less than significant impact in regards to air quality standards.

Long-term emissions of regional air pollutants occur from operational sources. Based on emissions estimates, project operational emissions would not exceed the applicable regional emissions thresholds. Therefore, as project emissions would be well below these limits, project operations would not result in regional emissions that would exceed the NAAQS or CAAQS or contribute to existing violations. Therefore, the project operation would result in a less than significant impact in regards to air quality standards and no mitigation would be required.

The site-specific health risk assessment prepared for the project was based on assumptions regarding emissions from diesel-fueled truck traffic on I-5. Based on the predicted ground level concentrations, the 30-year maximum excess cancer risk is anticipated to exceed 10 in a million at the buildings located closest to I-5. However, the risk to residences would be reduced by the inclusion of various project design features, including planting vegetation between the freeway and project site, construction of a wall along the frontage with I-5, and the provision of heating, ventilation, and air conditioning (HVAC) units with MERV-13, or better, air filters in each unit. The MERV-13 filters would remove approximately 90 percent of DPM entering the indoor air, thus reducing cancer risk from diesel exhaust exposure. Thus, with the inclusion of the wall along the freeway, the landscaping proposed between the freeway and project site, and the provision of the equivalent of MERV-13, or better, air filters in the HVAC units, the potential increase in cancer risk and the non-cancer chronic risks would be less than significant.

The project does not include heavy industrial or agricultural uses that are typically associated with objectionable odors. The project would involve the use of diesel-powered equipment during construction. Diesel exhaust may occasionally be noticeable at adjacent properties; however, construction activities would be temporary and the odors would dissipate quickly in an outdoor environment. Additionally, CARB's In-Use Off-Road Diesel-Fueled Fleets Regulation would reduce construction exhaust emissions, which would also reduce construction-related odors. Therefore, this impact would be less than significant.

The project would not result in the generation of 100 pounds per day or more of particulate matter. Additionally, standard dust control measures would be implemented as a part of project construction. Impacts would be less than significant and no mitigation would be required.

The project is not anticipated to contribute to a substantial alteration of air movement that would affect air quality Roadways in the vicinity of the project include I-5 and Hollister Street. Mostly vacant parcels are located to the north, south, and east of the project site. Development is not dense enough to form an urban canyon, and buildings do not form contiguous or near contiguous frontage.

1.0 Introduction

The purpose of this report is to assess potential short-term and long-term local and regional air quality impacts resulting from development of the proposed Bella Mar project (project).

Air pollution affects all southern Californians. Effects can include increased respiratory infections, increased discomfort, missed days from work and school, and increased mortality. Polluted air also damages agriculture and our natural environment.

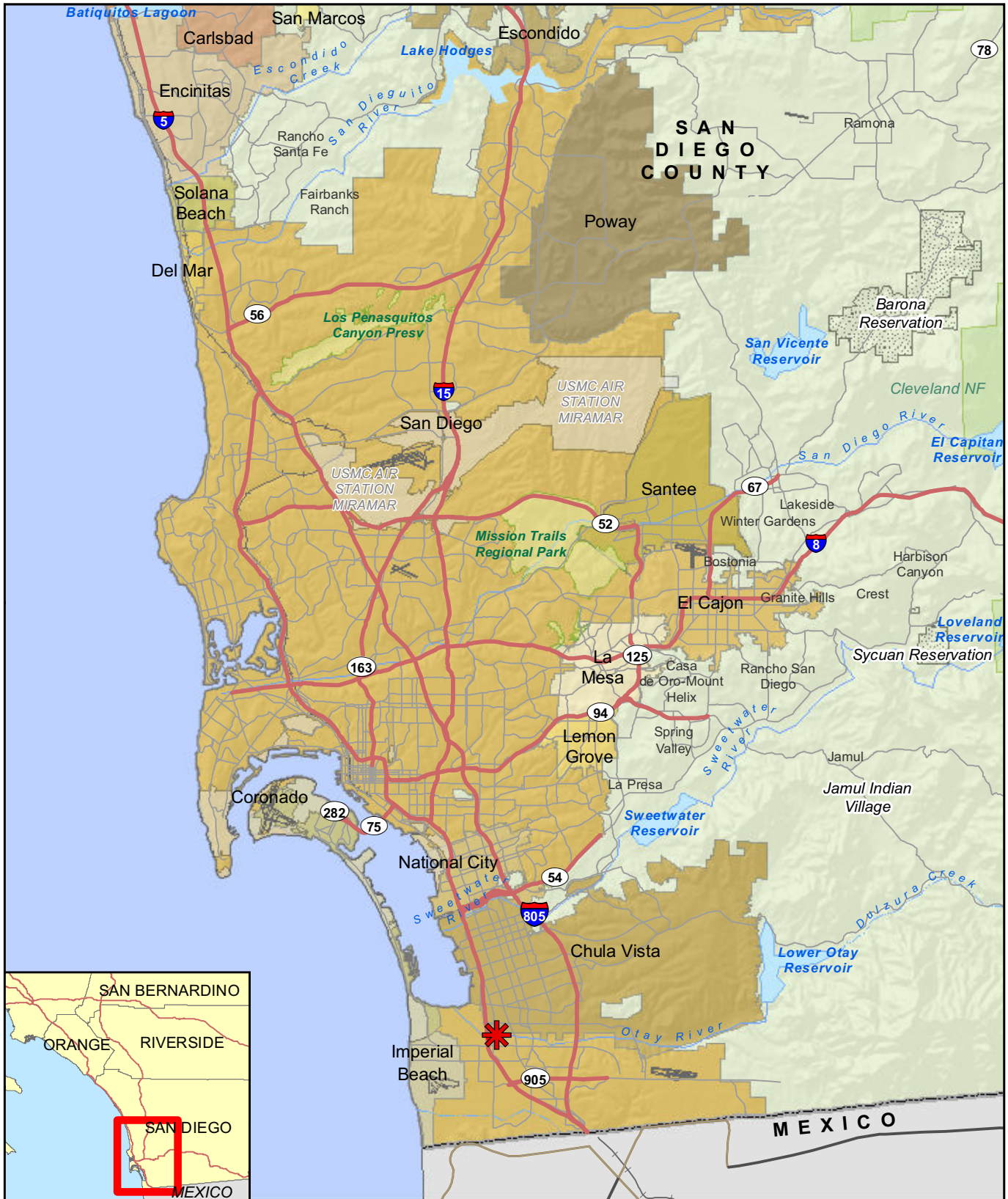
The state of California is divided geographically into 15 air basins for managing the air resources of the state on a regional basis. Areas within each air basin are considered to share the same air masses and, therefore, are expected to have similar ambient air quality. The project site is located within the San Diego Air Basin (SDAB). The SDAB is currently classified as a federal non-attainment area for ozone, and a state non-attainment area for particulate matter less than 10 microns (PM_{10}), particulate matter less than 2.5 microns ($PM_{2.5}$), and ozone.


Air quality impacts can result from the construction and operation of the project. Construction impacts are short term and result from fugitive dust, equipment exhaust, and indirect effects associated with construction workers and deliveries. Operational impacts can occur on two levels: regional impacts resulting from growth-inducing development, or local hot-spot effects stemming from sensitive receivers being placed close to highly congested roadways. In the case of this project, operational impacts would be primarily due to emissions to the basin from mobile sources associated with vehicular travel along the roadways within the project area.

The analysis of impacts is based on federal and state Ambient Air Quality Standards and is assessed in accordance with the guidelines, policies, and standards established by the City of San Diego (City) and the San Diego Air Pollution Control District (SDAPCD). Project compatibility with the adopted air quality plan for the area is also assessed. Measures are recommended, as required, to reduce potentially significant impacts.

2.0 Project Description

The Bella Mar project (project) site is located at 408 Hollister Street in the city of San Diego, California. The project site is located immediately west of Hollister Avenue, east of Interstate 5 (I-5), north of Conifer Avenue, and south of Louret Avenue, at the mouth of the Otay River valley in the city of San Diego. The 14.62-acre project site is currently undeveloped. Figure 1 shows the regional location and Figure 2 shows an aerial photograph of the project site and vicinity.



 Project Location

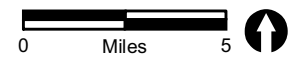
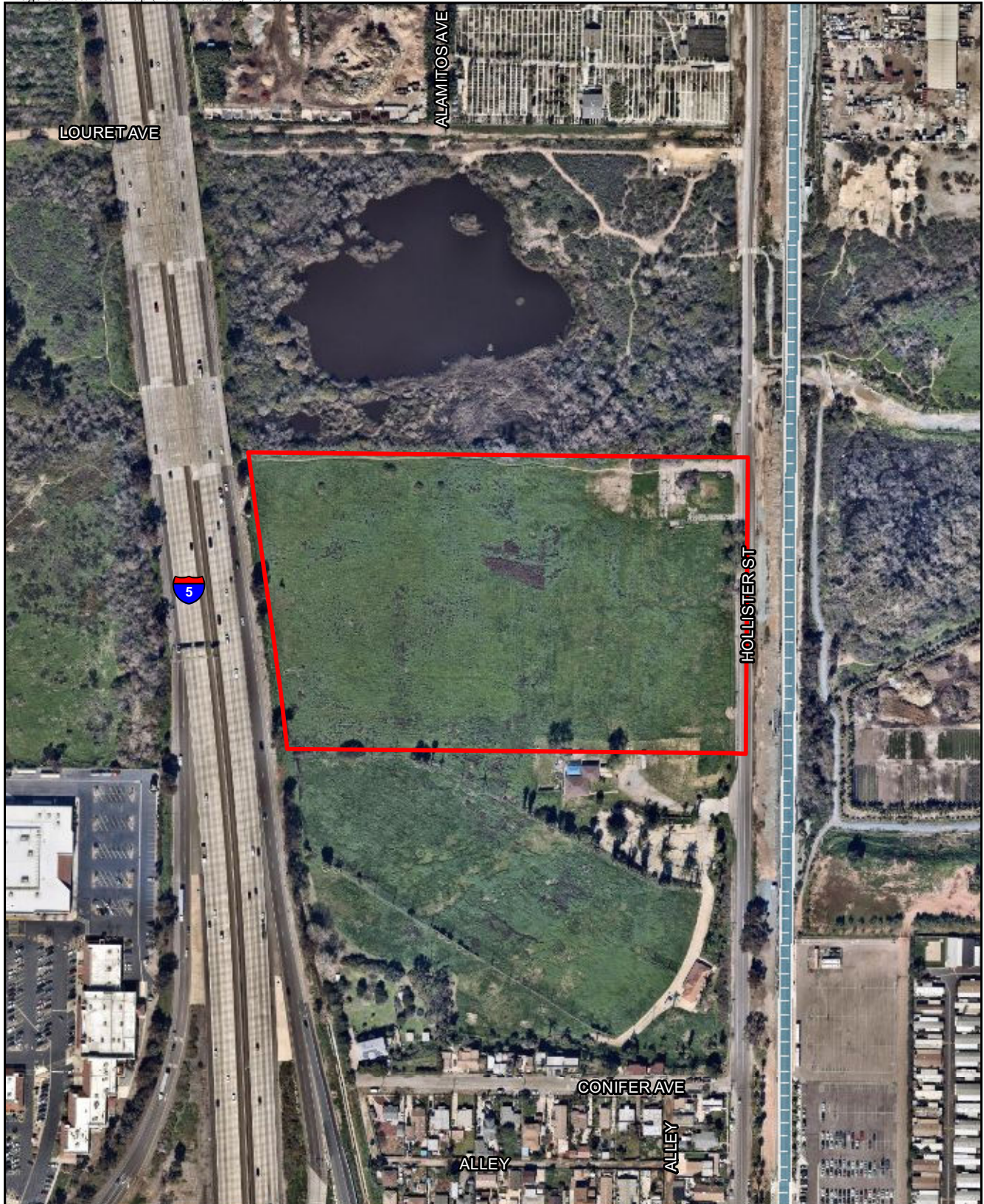



FIGURE 1
Regional Location



-  Project Boundary
-  Trolley Line

0 Feet 300



FIGURE 2
Project Location on Aerial Photograph

The project proposes a rezone from AR-1-2 and OF-1-1 to RM-2-4 and the construction of 380 multi-family units. The development would consist of two neighborhoods, a north neighborhood and south neighborhood. The north neighborhood would contain 14 separate, three-story buildings with a total of 280 market rate dwelling units, in addition to a 1,500-square-foot option leasing building and a 2,500-square-foot club/cabana area. The south neighborhood comprises a single building with both three- and four-story elements, consisting of 100 affordable housing dwelling units, in addition to a 4,500-square-foot community building. Figure 3 shows the proposed site plan.

3.0 Regulatory Framework

3.1 Federal Regulations

Ambient Air Quality Standards (AAQS) represent the maximum levels of background pollution considered safe, with an adequate margin of safety, to protect the public health and welfare. The federal Clean Air Act (CAA) was enacted in 1970 and amended in 1977 and 1990 [42 United States Code (USC) 7401] for the purposes of protecting and enhancing the quality of the nation's air resources to benefit public health, welfare, and productivity. In 1971, in order to achieve the purposes of Section 109 of the CAA [42 USC 7409], the U.S. Environmental Protection Agency (U.S. EPA) developed primary and secondary National Ambient Air Quality Standards (NAAQS).

Six criteria pollutants of primary concern have been designated: ozone, carbon monoxide (CO), sulfur dioxide (SO₂), nitrogen dioxide (NO₂), lead (Pb), and respirable particulate matter (PM₁₀ and PM_{2.5}). The primary NAAQS “. . . in the judgment of the Administrator, based on such criteria and allowing an adequate margin of safety, are requisite to protect the public health . . .” and the secondary standards “. . . protect the public welfare from any known or anticipated adverse effects associated with the presence of such air pollutant in the ambient air” [42 USC 7409(b)(2)]. The primary NAAQS were established, with a margin of safety, considering long-term exposure for the most sensitive groups in the general population (i.e., children, senior citizens, and people with breathing difficulties). The NAAQS are presented in Table 1 (California Air Resources Board [CARB] 2016).

An air basin is designated as either attainment or non-attainment for a particular pollutant. Once a non-attainment area has achieved the AAQS for a particular pollutant, it is re-designated as an attainment area for that pollutant. To be redesignated, the area must meet air quality standards for three consecutive years. After re-designation to attainment, the area is known as a maintenance area and must develop a 10-year plan for continuing to meet and maintain air quality standards, as well as satisfy other requirements of the federal CAA. The SDAB is a non-attainment area for the federal ozone standard.



- Project Boundary
- Site Plan Lines
- Trolley Line

FIGURE 3
Site Plan

Table 1 Ambient Air Quality Standards						
Pollutant	Averaging Time	California Standards ¹		National Standards ²		
		Concentration ³	Method ⁴	Primary ^{3,5}	Secondary ^{3,6}	Method ⁷
Ozone ⁸	1 Hour	0.09 ppm (180 µg/m ³)	Ultraviolet Photometry	–	Same as Primary Standard	Ultraviolet Photometry
	8 Hour	0.07 ppm (137 µg/m ³)		0.070 ppm (137 µg/m ³)		
Respirable Particulate Matter (PM ₁₀) ⁹	24 Hour	50 µg/m ³	Gravimetric or Beta Attenuation	150 µg/m ³	Same as Primary Standard	Inertial Separation and Gravimetric Analysis
	Annual Arithmetic Mean	20 µg/m ³		–		
Fine Particulate Matter (PM _{2.5}) ⁹	24 Hour	No Separate State Standard		35 µg/m ³	Same as Primary Standard	Inertial Separation and Gravimetric Analysis
	Annual Arithmetic Mean	12 µg/m ³	Gravimetric or Beta Attenuation	12 µg/m ³		
Carbon Monoxide (CO)	1 Hour	20 ppm (23 mg/m ³)	Non-dispersive Infrared Photometry	35 ppm (40 mg/m ³)	–	Non-dispersive Infrared Photometry
	8 Hour	9.0 ppm (10 mg/m ³)		9 ppm (10 mg/m ³)	–	
	8 Hour (Lake Tahoe)	6 ppm (7 mg/m ³)		–	–	
Nitrogen Dioxide (NO ₂) ¹⁰	1 Hour	0.18 ppm (339 µg/m ³)	Gas Phase Chemi- luminescence	100 ppb (188 µg/m ³)	–	Gas Phase Chemi- luminescence
	Annual Arithmetic Mean	0.030 ppm (57 µg/m ³)		0.053 ppm (100 µg/m ³)	Same as Primary Standard	
Sulfur Dioxide (SO ₂) ¹¹	1 Hour	0.25 ppm (655 µg/m ³)	Ultraviolet Fluorescence	75 ppb (196 µg/m ³)	–	Ultraviolet Fluorescence; Spectro- photometry (Pararosaniline Method)
	3 Hour	–		–	0.5 ppm (1,300 µg/m ³)	
	24 Hour	0.04 ppm (105 µg/m ³)		0.14 ppm (for certain areas) ¹¹	–	
	Annual Arithmetic Mean	–		0.030 ppm (for certain areas) ¹¹	–	
Lead ^{12,13}	30 Day Average	1.5 µg/m ³	Atomic Absorption	–	–	High Volume Sampler and Atomic Absorption
	Calendar Quarter	–		1.5 µg/m ³ (for certain areas) ¹²	Same as Primary Standard	
	Rolling 3-Month Average	–		0.15 µg/m ³		
Visibility Reducing Particles ¹⁴	8 Hour	See footnote 14	Beta Attenuation and Transmittance through Filter Tape	No National Standards		
Sulfates	24 Hour	25 µg/m ³	Ion Chroma- tography			
Hydrogen Sulfide	1 Hour	0.03 ppm (42 µg/m ³)	Ultraviolet Fluorescence			
Vinyl Chloride ¹²	24 Hour	0.01 ppm (26 µg/m ³)	Gas Chroma- tography			

See footnotes on next page.

**Table 1
Ambient Air Quality Standards**

ppm = parts per million; ppb = parts per billion; $\mu\text{g}/\text{m}^3$ = micrograms per cubic meter; – = not applicable.

- ¹ California standards for ozone, carbon monoxide (except 8-hour Lake Tahoe), sulfur dioxide (1 and 24 hour), nitrogen dioxide, particulate matter (PM_{10} , $\text{PM}_{2.5}$, and visibility reducing particles), are values that are not to be exceeded. All others are not to be equaled or exceeded. California ambient air quality standards are listed in the Table of Standards in Section 70200 of Title 17 of the California Code of Regulations.
- ² National standards (other than ozone, particulate matter, and those based on annual arithmetic mean) are not to be exceeded more than once a year. The ozone standard is attained when the fourth highest 8-hour concentration measured at each site in a year, averaged over three years, is equal to or less than the standard. For PM_{10} , the 24-hour standard is attained when the expected number of days per calendar year with a 24-hour average concentration above $150 \mu\text{g}/\text{m}^3$ is equal to or less than one. For $\text{PM}_{2.5}$, the 24-hour standard is attained when 98 percent of the daily concentrations, averaged over three years, are equal to or less than the standard. Contact the U.S. EPA for further clarification and current national policies.
- ³ Concentration expressed first in units in which it was promulgated. Equivalent units given in parentheses are based upon a reference temperature of 25°C and a reference pressure of 760 torr. Most measurements of air quality are to be corrected to a reference temperature of 25°C and a reference pressure of 760 torr; ppm in this table refers to ppm by volume, or micromoles of pollutant per mole of gas.
- ⁴ Any equivalent measurement method which can be shown to the satisfaction of the Air Resources Board to give equivalent results at or near the level of the air quality standard may be used.
- ⁵ National Primary Standards: The levels of air quality necessary, with an adequate margin of safety to protect the public health.
- ⁶ National Secondary Standards: The levels of air quality necessary to protect the public welfare from any known or anticipated adverse effects of a pollutant.
- ⁷ Reference method as described by the U.S. EPA. An “equivalent method” of measurement may be used but must have a “consistent relationship to the reference method” and must be approved by the U.S. EPA.
- ⁸ On October 1, 2015, the national 8-hour ozone primary and secondary standards were lowered from 0.075 to 0.070 ppm.
- ⁹ On December 14, 2012, the national annual $\text{PM}_{2.5}$ primary standard was lowered from $15 \mu\text{g}/\text{m}^3$ to $12.0 \mu\text{g}/\text{m}^3$. The existing national 24-hour $\text{PM}_{2.5}$ standards (primary and secondary) were retained at $35 \mu\text{g}/\text{m}^3$, as was the annual secondary standards of $15 \mu\text{g}/\text{m}^3$. The existing 24-hour PM_{10} standards (primary and secondary) of $150 \mu\text{g}/\text{m}^3$ also were retained. The form of the annual primary and secondary standards is the annual mean, averaged over 3 years.
- ¹⁰ To attain the 1-hour national standard, the 3-year average of the annual 98th percentile of the 1-hour daily maximum concentrations at each site must not exceed 100 ppb. Note that the national standards are in units of ppb. California standards are in units of ppm. To directly compare the national standards to the California standards the units can be converted from ppb to ppm. In this case, the national standard of 100 ppb is identical to 0.100 ppm.
- ¹¹ On June 2, 2010, a new 1-hour SO_2 standard was established and the existing 24-hour and annual primary standards were revoked. To attain the 1-hour national standard, the 3-year average of the annual 99th percentile of the 1-hour daily maximum concentrations at each site must not exceed 75 ppb. The 1971 SO_2 national standards (24-hour and annual) remain in effect until one year after an area is designated for the 2010 standard, except that in areas designated non-attainment for the 1971 standards, the 1971 standards remain in effect until implementation plans to attain or maintain the 2010 standards are approved.
Note that the 1-hour national standard is in units of ppb. California standards are in units of ppm. To directly compare the 1-hour national standard to the California standard the units can be converted to ppm. In this case, the national standard of 75 ppb is identical to 0.075 ppm.
- ¹² The Air Resources Board has identified lead and vinyl chloride as ‘toxic air contaminants’ with no threshold level of exposure for adverse health effects determined. These actions allow for the implementation of control measures at levels below the ambient concentrations specified for these pollutants.
- ¹³ The national standard for lead was revised on October 15, 2008 to a rolling 3-month average. The 1978 lead standard ($1.5 \mu\text{g}/\text{m}^3$ as a quarterly average) remains in effect until one year after an area is designated for the 2008 standard, except that in areas designated non-attainment for the 1978 standard, the 1978 standard remains in effect until implementation plans to attain or maintain the 2008 standard are approved.
- ¹⁴ In 1989, the ARB converted both the general statewide 10-mile visibility standard and the Lake Tahoe 30-mile visibility standard to instrumental equivalents, which are “extinction of 0.23 per kilometer” and “extinction of 0.07 per kilometer” for the statewide and Lake Tahoe Air Basin standards, respectively.

SOURCE: CARB 2016.

3.2 State Regulations

3.2.1 Criteria Pollutants

The CARB has developed the California Ambient Air Quality Standards (CAAQS) and generally has set more stringent limits on the criteria pollutants than the NAAQS (see Table 1). In addition to the federal criteria pollutants, the CAAQS also specify standards for visibility-reducing particles, sulfates, hydrogen sulfide, and vinyl chloride (see Table 1).

Similar to the federal CAA, the state classifies as either “attainment” or “non-attainment” areas for each pollutant based on the comparison of measured data with the CAAQS. The SDAB is a non-attainment area for the state ozone standards, the state PM₁₀ standard, and the state PM_{2.5} standard.

3.2.2 Toxic Air Contaminants

The public’s exposure to toxic air contaminants (TACs) is a significant public health issue in California. Diesel-exhaust particulate matter emissions have been established as TACs. The California Air Toxics Program establishes the process for the identification and control of TACs and includes provisions to make the public aware of significant toxic exposures and for reducing risk. Additionally, the Air Toxics "Hot Spots" Information and Assessment Act requires stationary sources to report the types and quantities of certain substances routinely released into the air.

The goals of the Air Toxics "Hot Spots" Act are to collect emission data, to identify facilities having localized impacts, to ascertain health risks, to notify nearby residents of significant risks, and to reduce those significant risks to acceptable levels.

The Children’s Environmental Health Protection Act, California Senate Bill 25 focuses on children’s exposure to air pollutants. The act requires CARB to review its air quality standards from a children’s health perspective, evaluate the statewide air monitoring network, and develop any additional air toxic control measures needed to protect children’s health. Locally, toxic air pollutants are regulated through the SDAPCD’s Regulation XII. Of particular concern statewide are diesel-exhaust particulate matter emissions. Diesel-exhaust particulate matter was established as a TAC in 1998, and is estimated to represent a majority of the cancer risk from TACs statewide (based on the statewide average). Diesel exhaust is a complex mixture of gases, vapors, and fine particles. This complexity makes the evaluation of health effects of diesel exhaust a complex scientific issue. Some of the chemicals in diesel exhaust, such as benzene and formaldehyde, have been previously identified as TACs by the CARB and are listed as carcinogens either under the state’s Proposition 65 or under the federal Hazardous Air Pollutants program.

Following the identification of diesel particulate matter (DPM) as a TAC in 1998, CARB has worked on developing strategies and regulations aimed at reducing the risk from DPM. The overall strategy for achieving these reductions is found in the Risk Reduction Plan to Reduce Particulate Matter Emissions from Diesel-Fueled Engines and Vehicles (CARB 2000). A

stated goal of the plan is to reduce the statewide cancer risk arising from exposure to DPM by 85 percent by 2020.

In April 2005, CARB published the Air Quality and Land Use Handbook: A Community Health Perspective (CARB 2005). The handbook makes recommendations directed at protecting sensitive land uses from air pollutant emissions while balancing a myriad of other land use issues (e.g., housing, transportation needs, economics, etc.). It notes that the handbook is not regulatory or binding on local agencies and recognizes that application takes a qualitative approach. As reflected in the CARB handbook, there is currently no adopted standard for the significance of health effects from mobile sources. Therefore, the CARB has provided guidelines for the siting of land uses near heavily traveled roadways. Of pertinence to this study, the CARB guidelines indicate that siting new sensitive land uses within 500 feet of a freeway or urban roads with 100,000 or more vehicles/day should be avoided when possible.

As an ongoing process, CARB will continue to establish new programs and regulations for the control of diesel particulate and other air-toxics emissions as appropriate. The continued development and implementation of these programs and policies will ensure that the public's exposure to DPM will continue to decline.

3.2.3 State Implementation Plan

The State Implementation Plan (SIP) is a collection of documents that set forth the state's strategies for achieving the NAAQS. In California, the SIP is a compilation of new and previously submitted plans, programs (such as air quality management plans, monitoring, modeling, permitting, etc.), district rules, state regulations, and federal controls. The CARB is the lead agency for all purposes related to the SIP under state law. Local air districts and other agencies, such as the Department of Pesticide Regulation and the Bureau of Automotive Repair, prepare SIP elements and submit them to CARB for review and approval. The CARB then forwards SIP revisions to the U.S. EPA for approval and publication in the Federal Register. All of the items included in the California SIP are listed in the Code of Federal Regulations (CFR) at 40 CFR 52.220.

The SDAPCD is responsible for preparing and implementing the portion of the SIP applicable to the SDAB. The SIP plans for San Diego County specifically include the Redesignation Request and Maintenance Plan for the 1997 National Ozone Standard for San Diego County (2012), and the 2004 Revision to the California State Implementation Plan for Carbon Monoxide – Updated Maintenance Plan for Ten Federal Planning Areas.

3.2.4 The California Environmental Quality Act

Section 15125(d) of the California Environmental Quality Act (CEQA) Guidelines requires discussion of any inconsistencies between the project and applicable general plans and regional plans, including the applicable air quality attainment or maintenance plan (or SIP).

3.3 San Diego Air Pollution Control District

The SDAPCD is the agency that regulates air quality in the SDAB. The SDAPCD prepared the Regional Air Quality Standards (RAQS) in response to the requirements set forth in the California CAA AB 2595 (SDAPCD 1992) and the federal CAA. Motor vehicles are San Diego County's leading source of air pollution (SDAPCD 2013). In addition to these sources, other mobile sources include construction equipment, trains, and airplanes. Reducing mobile source emissions requires the technological improvement of existing mobile sources and the examination of future mobile sources, such as those associated with new or modification projects (e.g., retrofitting older vehicles with cleaner emission technologies). In addition to mobile sources, stationary sources also contribute to air pollution in the SDAB. Stationary sources include gasoline stations, power plants, dry cleaners, and other commercial and industrial uses. Stationary sources of air pollution are regulated by the local air pollution control or management district, in this case the SDAPCD.

The SDAPCD is responsible for preparing and implementing the RAQS. As part of the RAQS, the SDAPCD developed Transportation Control Measures (TCMs) for the air quality plan prepared by the San Diego Association of Governments (SANDAG) in accordance with AB 2595 and adopted by SANDAG on March 27, 1992, as Resolution Number 92-49 and Addendum. The RAQS and TCM set forth the steps needed to accomplish attainment of NAAQS and CAAQS. The required triennial updates of the RAQS and corresponding TCM were adopted in 1995, 1998, 2001, 2004, 2009, and 2016.

The SDAPCD has also established a set of rules and regulations initially adopted on January 1, 1969 and periodically reviewed and updated. These rules and regulations are available for review on the agency's website.

4.0 Environmental Setting

4.1 Geographic Setting

The project is located in the city of San Diego, approximately 2.5 miles east of the Pacific Ocean. The project site is located on a parcel of land adjacent to the Otay River within the western part of a broad valley. Residential development exists to the south beyond the adjacent undeveloped parcel, the Otay Valley Regional Park open space area borders the site to the north, west, and east. I-5 occurs along the western boundary of the parcel and Hollister Street and the trolley tracks occur just east of the parcel and within the off-site improvement area. The relatively flat parcel is at an elevation of approximately 20 feet above mean sea level (AMSL). The project site is located in the western portion of the SDAB. The SDAB is surrounded by mountains to the north, east, and south. These mountains tend to restrict airflow and concentrate pollutants in the valleys and low-lying areas below.

4.2 Climate

The project area, like the rest of San Diego County, has a Mediterranean climate characterized by warm, dry summers and mild winters. The mean annual temperature for the project area is 69 degrees Fahrenheit (°F). The average annual precipitation is 10 inches, falling primarily from November to April. Winter low temperatures in the project area average about 45°F, and summer high temperatures average about 72°F. The average relative humidity is 69 percent and is based on the yearly average humidity at Lindbergh Field (Western Regional Climate Center 2019).

The dominant meteorological feature affecting the region is the Pacific High Pressure Zone, which produces the prevailing westerly to northwesterly winds. Fluctuations in the strength and pattern of winds from the Pacific High Pressure Zone creates a temperature inversion layer (a layer in the atmosphere in which temperature increases with height) that acts as a lid to the vertical dispersion. Sunlight reacts with air pollutants (ROG and NOx) to create ozone. Thus, poorly dispersed pollutants along with strong sunlight results in the creation of ozone at this surface layer. As pollutants are carried inland by prevailing winds, they frequently become “trapped” against the mountain slopes by a temperature inversion layer as their ability to disperse diminishes. Throughout the year, the height of the temperature inversion in the afternoon varies between approximately 1,500 and 2,500 feet AMSL (San Diego Air Pollution Control District [SDAPCD] 2015).

The prevailing westerly wind pattern is sometimes interrupted by regional “Santa Ana” conditions. A Santa Ana occurs when a strong high pressure develops over the Nevada-Utah area and overcomes the prevailing westerly coastal winds, sending strong, steady, hot, dry northeasterly winds over the mountains and out to sea.

Strong Santa Anas tend to blow pollutants out over the ocean, producing clear days. However, at the onset or during breakdown of these conditions, or if the Santa Ana is weak, local air quality may be adversely affected. In these cases, emissions from the South Coast Air Basin to the north are blown out over the ocean, and low pressure over Baja California draws this pollutant-laden air mass southward. As the high pressure weakens, prevailing northwesterly winds reassert themselves and send this cloud of contamination ashore in the SDAB. When this event does occur, the combination of transported and locally produced contaminants produce the worst air quality measurements recorded in the basin.

4.3 Existing Air Quality

Air quality at a particular location is a function of the kinds, amounts, and dispersal rates of pollutants being emitted into the air locally and throughout the basin. The major factors affecting pollutant dispersion are wind speed and direction, the vertical dispersion of pollutants (which is affected by inversions), and the local topography.

Air quality is commonly expressed as the number of days in which air pollution levels exceed state standards set by the CARB or federal standards set by the U.S. EPA. The SDAPCD maintains 10 air quality monitoring stations located throughout the greater San Diego

metropolitan region. Air pollutant concentrations and meteorological information are continuously recorded at these stations. Measurements are then used by scientists to help forecast daily air pollution levels.

The Chula Vista monitoring station located at 80 East J Street, approximately 3.5 miles northeast of the project site, is the nearest station to the project site. The monitoring station measures ozone, NO₂, PM₁₀, and PM_{2.5}. Table 2 provides a summary of measurements collected at the monitoring station for the years 2013 through 2017.

Table 2					
Summary of Air Quality Measurements Recorded at the Chula Vista Air Quality Monitoring Station					
Pollutant/Standard	2013	2014	2015	2016	2017
Ozone					
Days State 1-hour Standard Exceeded (0.09 ppm)	0	0	0	0	0
Days State 8-hour Standard Exceeded (0.07 ppm)	0	1	0	0	1
Days 2008 Federal 8-hour Standard Exceeded (0.075 ppm)	0	0	0	0	0
Days 2015 Federal 8-hour Standard Exceeded (0.070 ppm)	0	1	0	0	1
Max. 1-hr (ppm)	0.073	0.093	0.088	0.073	0.085
Max 8-hr (ppm)	0.063	0.072	0.067	0.069	0.075
Nitrogen Dioxide					
Days State 1-hour Standard Exceeded (0.18 ppm)	0	0	0	0	0
Days Federal 1-hour Standard Exceeded (0.100 ppm)	0	0	0	0	0
Max 1-hr (ppm)	0.057	0.055	0.049	0.054	0.057
Annual Average (ppm)	0.011	0.011	0.010	0.090	0.090
PM₁₀*					
Measured Days State 24-hour Standard Exceeded (50 µg/m ³)	0	0	0	0	1
Calculated Days State 24-hour Standard Exceeded (50 µg/m ³)	0.0	0.0	0.0	0.0	6.5
Measured Days Federal 24-hour Standard Exceeded (150 µg/m ³)	0	0	0	0	0
Calculated Days Federal 24-hour Standard Exceeded (150 µg/m ³)	0.0	0.0	0.0	0.0	0.0
Max. Daily (µg/m ³)	40.0	39.0	45.0	48.0	61.0
State Annual Average (µg/m ³)	23.7	23.4	19.8	21.6	21.4
Federal Annual Average (µg/m ³)	22.7	22.9	19.7	21.8	21.7
PM_{2.5}*					
Measured Days Federal 24-hour Standard Exceeded (35 µg/m ³)	0	0	0	0	1
Calculated Days Federal 24-hour Standard Exceeded (35 µg/m ³)	0.0	0.0	0.0	0.0	--
Max. Daily (µg/m ³)	21.9	26.5	33.5	23.9	42.7
State Annual Average (µg/m ³)	9.5	9.3	8.4	8.7	--
Federal Annual Average (µg/m ³)	9.4	9.2	8.3	8.7	--
SOURCE: CARB 2019. ppm = parts per million; µg/m ³ = micrograms per cubic meter -- = Not available. *Calculated days value. Calculated days are the estimated number of days that a measurement would have been greater than the level of the standard had measurements been collected every day. The number of days above the standard is not necessarily the number of violations of the standard for the year.					

4.3.1 Ozone

Nitrogen oxides and hydrocarbons (reactive organic gases [ROG]) are known as the chief “precursors” of ozone. These compounds react in the presence of sunlight to produce ozone, which is the primary air pollution problem in the SDAB. Because sunlight plays such an important role in its formation, ozone pollution—or smog—is mainly a concern during the daytime in summer months. The SDAB is currently designated a federal and state non-attainment area for ozone. During the past 25 years, San Diego had experienced a decline

in the number of days with unhealthy levels of ozone despite the region's growth in population and vehicle miles traveled (SDAPCD 2013).

About half of smog-forming emissions come from automobiles. Population growth in San Diego has resulted in a large increase in the number of automobiles expelling ozone-forming pollutants while operating on area roadways. In addition, the occasional transport of smog-filled air from the South Coast Air Basin only adds to the SDAB's ozone problem. Stricter automobile emission controls, including more efficient automobile engines, have played a large role in why ozone levels have steadily decreased.

In order to address adverse health effects due to prolonged exposure, the U.S. EPA phased out the national 1-hour ozone standard and replaced it with the more protective 8-hour ozone standard. The SDAB is currently a non-attainment area for the previous (1997) national 8-hour standard, and is recommended as a non-attainment area for the revised (2008) national 8-hour standard of 0.075 parts per million (ppm).

Not all of the ozone within the SDAB is derived from local sources. Under certain meteorological conditions, such as during Santa Ana wind events, ozone and other pollutants are transported from the Los Angeles Basin and combine with ozone formed from local emission sources to produce elevated ozone levels in the SDAB.

Local agencies can control neither the source nor the transportation of pollutants from outside the air basin. The SDAPCD's policy, therefore, has been to control local sources effectively enough to reduce locally produced contamination to clean air standards. Through the use of air pollution control measures outlined in the RAQS, the SDAPCD has effectively reduced ozone levels in the SDAB.

Actions that have been taken in the SDAB to reduce ozone concentrations include:

- **TCMs if vehicle travel and emissions exceed attainment demonstration levels.** TCMs are strategies that will reduce transportation-related emissions by reducing vehicle use or improving traffic flow.
- **Enhanced motor vehicle inspection and maintenance program.** The smog check program is overseen by the Bureau of Automotive Repair. The program requires most vehicles to pass a smog test once every two years before registering in the state of California. The smog check program monitors the amount of pollutants automobiles produce. One focus of the program is identifying "gross polluters," or vehicles that exceed two times the allowable emissions for a particular model. Regular maintenance and tune-ups, changing the oil, and checking tire inflation can improve gas mileage and lower air pollutant emissions. It can also reduce traffic congestion due to preventable breakdowns, further lowering emissions.
- **Air Quality Improvement Program.** This program, established by AB 118, is a voluntary incentive program administered by the CARB to fund clean vehicle and equipment projects, research on biofuels production and the air quality impacts of alternative fuels, and workforce training.

4.3.2 Carbon Monoxide

The SDAB is classified as a state attainment area and as a federal maintenance area for CO. Until 2003, no violations of the state standard for CO had been recorded in the SDAB since 1991, and no violations of the national standard had been recorded in the SDAB since 1989. The violations that took place in 2003 were likely the result of massive wildfires that occurred throughout the county. No violations of the state or federal CO standards have occurred since 2003.

Small-scale, localized concentrations of CO above the state and national standards have the potential to occur at intersections with stagnation points such as those that occur on major highways and heavily traveled and congested roadways. Localized high concentrations of CO are referred to as “CO hot spots” and are a concern at congested intersections, where automobile engines burn fuel less efficiently and their exhaust contains more CO.

4.3.3 Particulate Matter

Particulate matter is a complex mixture of microscopic solid or liquid particles including chemicals, soot, and dust. Anthropogenic sources of direct particulate emissions include crushing or grinding operations, dust stirred up by vehicle traffic, and combustion sources such as motor vehicles, power plants, wood burning, forest fires, agricultural burning and industrial processes. Additionally, indirect emissions may be formed when aerosols react with compounds found in the atmosphere.

Health studies have shown a significant association between exposure to particulate matter and premature death in people with heart or lung diseases. Other important effects include aggravation of respiratory and cardiovascular disease, lung disease, decreased lung function, asthma attacks, and certain cardiovascular problems such as heart attacks and irregular heartbeat (U.S. EPA 2016).

As its properties vary based on the size of suspended particles, particulate matter is generally categorized as particulate matter with an aerodynamic diameter of 10 microns or less (PM₁₀) or particulate matter with an aerodynamic diameter of 2.5 microns or less (PM_{2.5})

4.3.3.1 PM₁₀

PM₁₀, occasionally referred to as “inhalable coarse particles” has an aerodynamic diameter of about one-seventh of the diameter of a human hair. High concentrations of PM₁₀ are often found near roadways, construction, mining, or agricultural operations.

4.3.3.2 PM_{2.5}

PM_{2.5}, occasionally referred to as “inhalable fine particles” has an aerodynamic diameter of about one-thirtieth of the diameter of a human hair. PM_{2.5} is the main cause of haze in many parts of the United States. Federal standards applicable to PM_{2.5} were first adopted in 1997.

4.3.4 Other Criteria Pollutants

The national and state standards for NO₂, oxides of sulfur (SO_x), and the previous standard for lead are being met in the SDAB, and the latest pollutant trends suggest that these standards will not be exceeded in the foreseeable future. As discussed above, new standards for these pollutants have been adopted, and new designations for the SDAB will be determined in the future. The SDAB is also in attainment of the state standards for vinyl chloride, hydrogen sulfides, sulfates, and visibility-reducing particulates.

5.0 Thresholds of Significance

Thresholds used to evaluate potential impacts to air quality are based on applicable criteria in the CEQA Guidelines Appendix G and the City of San Diego Significance Determination Thresholds. The project would have a significant air quality impact if it would (City of San Diego 2016):

1. Obstruct or conflict with the implementation of the RAQS.
2. Result in emissions that would violate any air quality standard or contribute substantially to an existing or projected air quality violation.
3. Expose sensitive receptors to substantial pollutant concentration including air toxics such as diesel particulates.
4. Create objectionable odors affecting a substantial number of people.
5. Exceed 100 pounds per day of particulate matter (dust).
6. Result in a substantial alteration of air movement in the area.

The SDAPCD does not provide specific numeric thresholds for determining the significance of air quality impacts under CEQA. However, the SDAPCD does specify Air Quality Impact Analysis trigger levels for new or modified stationary sources (SDAPCD Rules 20.1, 20.2, and 20.3). The SDAPCD does not consider these trigger levels to represent adverse air quality impacts, rather, if these trigger levels are exceeded by a project, the SDAPCD requires an air quality analysis to determine if a significant air quality impact would occur. While, these trigger levels do not generally apply to mobile sources or general land development projects, for comparative purposes these levels are used to evaluate the increased emissions that would be discharged to the SDAB if the project were approved.

The SDAPCD trigger levels are also utilized by the City of San Diego in their Significance Determination Thresholds (City of San Diego 2016) as one of the considerations when determining the potential significance of air quality impacts for projects within the city. The air quality impact screening levels used in this analysis are shown in Table 3.

Table 3 Air Quality Impact Screening Levels			
Pollutant	Emission Rate		
	Pounds/Hour	Pounds/Day	Tons/Year
NO _x	25	250	40
SO _x	25	250	40
CO	100	550	100
PM ₁₀	--	100	15
Lead	--	3.2	0.6
VOC, ROG	--	137	15
PM _{2.5} ^a	--	67	10
SOURCE: SDAPCD, Rules 20.1, 20.2, 20.3; City of San Diego 2016. ^a The City does not specify a threshold for PM _{2.5} . Threshold here is based on SDAPCD, Rules 20.1, 20.2, 20.3.			

6.0 Air Quality Assessment

Construction impacts are short term and result from fugitive dust, equipment exhaust, and indirect effects associated with construction workers and deliveries. Operational impacts can occur on two levels: regional or local. In the case of this project, operational impacts are primarily due to emissions from mobile sources associated with vehicular travel along the roadways within the project area.

Construction and operation air emissions were calculated using California Emissions Estimator Model (CalEEMod) 2016.3.2 (California Air Pollution Control Officers Association [CAPCOA] 2017). The CalEEMod program is a tool used to estimate air emissions resulting from land development projects based on California-specific emission factors. The model estimates mass emissions from two basic sources: construction sources and operational sources (i.e., area and mobile sources).

Inputs to CalEEMod include such items as the air basin containing the project, land uses, trip generation rates, trip lengths, vehicle fleet mix (percentage of autos, medium truck, etc.), trip destination (i.e., percent of trips from home to work, etc.), duration of construction phases, construction equipment usage, grading areas, season, and ambient temperature, as well as other parameters. The CalEEMod output files contained in Attachment 1 indicate the specific outputs for each model run. Emissions of oxides of nitrogen (NO_x), CO, SO_x, PM₁₀, PM_{2.5}, and ROG are calculated. Emission factors are not available for lead, and consequently, lead emissions are not calculated. The SDAB is currently in attainment of the federal and state lead standards. Furthermore, fuel used in construction equipment and most other vehicles is not leaded.

6.1 Construction Emissions

Construction-related activities are temporary, short-term sources of air emissions. Sources of construction-related air emissions include:

- Fugitive dust from grading activities;
- Construction equipment exhaust;
- Construction-related trips by workers, delivery trucks, and material-hauling trucks; and
- Construction-related power consumption.

Construction-related pollutants result from dust raised during grading, emissions from construction vehicles, and chemicals used during construction. Fugitive dust emissions vary greatly during construction and are dependent on the amount and type of activity, silt content of the soil, and the weather. Vehicles moving over paved and unpaved surfaces, demolition, excavation, earth movement, grading, and wind erosion from exposed surfaces are all sources of fugitive dust. Construction operations are subject to the requirements established in Regulation 4, Rules 52, 54, and 55, of the SDAPCD's rules and regulations.

Heavy-duty construction equipment is usually diesel powered. In general, emissions from diesel-powered equipment contain more NO_x, SO_x, and particulate matter than gasoline-powered engines. However, diesel-powered engines generally produce less CO and less ROG than do gasoline-powered engines. Standard construction equipment includes tractors/loaders/backhoes, rubber-tired dozers, excavators, graders, cranes, forklifts, rollers, paving equipment, generator sets, welders, cement and mortar mixers, and air compressors.

Construction emissions were modeled with construction activities beginning in 2020 and lasting for approximately 16 months. Primary inputs are the numbers of each piece of equipment and the length of each construction stage. Specific construction phasing and equipment parameters are not available at this time. However, CalEEMod can estimate the required construction equipment when project-specific information is unavailable. The construction equipment estimates are based on surveys, performed by the South Coast Air Quality Management District and the Sacramento Metropolitan Air Quality Management District, of typical construction projects which provide a basis for scaling equipment needs and schedule with a project's size. Air emission estimates in CalEEMod are based on the duration of construction phases; construction equipment type, quantity, and usage; grading area; season; and ambient temperature, among other parameters.

Table 4 shows the total projected construction maximum daily emission levels for each criteria pollutant. The CalEEMod output files for construction emissions are contained in Attachment 1.

Table 4 Summary of Worst-case Construction Emissions (pounds per day)						
Construction	Pollutant					
	RO G	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}
Site Preparation	4	42	22	<1	2	12
Grading	5	50	35	<1	11	6
Building Construction	3	25	25	<1	4	2
Paving	1	13	15	<1	1	1
Architectural Coatings	36	2	3	<1	1	<1
Maximum Daily Emissions	36	50	32	<1	11	12
<i>Significance Threshold</i>	<i>137</i>	<i>250</i>	<i>550</i>	<i>250</i>	<i>100</i>	<i>67</i>

Standard dust control measures would be implemented as a part of project construction in accordance with SDAPCD rules and regulations (Rules 50, 51, 52, 54, and 55) for controlling emissions from fugitive dust and fumes:

- Water the grading areas a minimum of twice daily to minimize fugitive dust.
- Provide sufficient erosion control to prevent washout of silty material onto public roads.
- Cover haul trucks or maintain at least 12 inches of freeboard to reduce blow-off during hauling.
- Periodically sweep up dirt and debris spilled onto paved surfaces to reduce re-suspension of particulate matter caused by vehicle movement. Clean approach routes to construction sites of construction-related dirt.

Fugitive dust emissions were calculated using CalEEMod default values, and did not take into account the required dust control measures. Thus, the emissions shown in Table 4 are conservative. It should also be noted that all construction equipment is subject to the CARB In-Use Off-Road Diesel-Fueled Fleets Regulation. This regulation, which applies to all off-road diesel vehicles 25 horsepower or greater, limits unnecessary idling to 5 minutes, requires all construction fleets to be labeled and reported to CARB, bans Tier 0 equipment and phases out Tier 1 and 2 equipment (thereby replacing fleets with cleaner equipment), and requires that fleets comply with Best Available Control Technology requirements.

As shown in Table 4, maximum daily construction emissions associated with the project are projected to be less than the applicable thresholds for all criteria pollutants.

6.2 Operation Emissions

Mobile source emissions would originate from traffic generated by the project. Area source emissions would result from the use of natural gas, consumer products, as well as applying architectural coatings and landscaping activities.

Mobile source operational emissions are based on the trip rate, trip length for each land use type and size. According to the project traffic report, the project would generate 2,280 average daily trips without accounting for trip reductions for the proximity to the Palm Avenue Transit Station (Kimley-Horn 2019). It is estimated that the project's proximity to the transit station would reduce trips by 5 percent, or 114 trips, for a net total of 2,166 average daily trips. However, in order to provide a conservative air quality analysis, mobile emissions were calculated assuming the project would generate 2,280 average daily trips. Based on regional data compiled by CARB as part of the emission factor model, the average regional trip length for all trips in San Diego County is 5.62 miles (CARB 2014). This distance is multiplied by the total trip generation of the project to determine total project annual vehicle miles traveled. Default vehicle emission factors were used.

Area source emissions associated with the project include consumer products, natural gas used in space and water heating, architectural coatings, and landscaping equipment. Hearths (fireplaces) and woodstoves are also a source of area emissions; however, the project would not include hearths or woodstoves. Consumer products are chemically formulated products used by household and institutional consumers, including, but not limited to, detergents, cleaning compounds, polishes, floor finishes, disinfectants, sanitizers, and aerosol paints but not including other paint products, furniture coatings, or architectural coatings. Emissions due to consumer products are calculated using total building area and product emission factors. Emissions are generated from the combustion of natural gas used in space and water heating. Emissions are based on the Residential Appliance Saturation Survey which is a comprehensive energy use assessment that includes the end use for various climate zones in California.

For architectural coatings, emissions result from evaporation of solvents contained in surface coatings such as in paints and primers. Emissions are based on the building surface area, architectural coating emission factors, and a reapplication rate of 10 percent of area per year. Landscaping maintenance includes fuel combustion emission from equipment such as lawn mowers, rototillers, shredders/grinders, blowers, trimmers, chain saws, and hedge trimmers as well as air compressors, generators, and pumps. Emission calculations take into account building area, equipment emission factors, and the number of operational days (summer days).

Table 5 provides a summary of the operational emissions generated by the project. CalEEMod output files for project operation are contained in Attachment 1. As shown, project-generated emissions are projected to be less than the City's significance thresholds for all criteria pollutants.

Source	Pollutant					
	ROG	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}
Area Sources	11	<1	31	<1	<1	<1
Energy Sources	<1	1	<1	<1	<1	<1
Mobile Sources	3	13	34	<1	9	2
Total	14	14	66	<1	9	3
<i>Significance Threshold</i>	<i>137</i>	<i>250</i>	<i>550</i>	<i>250</i>	<i>100</i>	<i>67</i>
NOTE: Totals may vary due to independent rounding.						

6.3 Toxic Air Contaminants – Diesel Particulate Matter

The AERMOD dispersion model was used to calculate concentrations of DPM at the project site associated with emissions of TACs from traffic on I-5. Surface and upper air meteorological data from the Chula Vista monitoring station was used in the AERMOD model. The focus of the risk assessment is on DPM as it represents the major risk factor from freeway traffic. Additionally, the analysis uses the high-end excess cancer risk calculated based on guidance from the Office of Environmental Health Hazard Assessment (OEHHA; OEHHA 2015), using the 95th percentile exposure assumptions for inhalation risks. For residential uses, health risk is generally calculated based on 9, 30, and 70 years of exposure for excess cancer risks and chronic non-cancer hazards for ages ranging from the third trimester of birth through age 70.

One source of uncertainty in calculating exposures is the assumption that individuals within a particular receptor population (or subpopulation) will receive the same intake doses. Variability in parameters such as absorption rates, breathing rates, body weight, skin surface area, and frequency of exposure will exist even in a narrowly defined age group or sensitive receptor subpopulation. This range of uncertainty and variability is difficult to assess. In this analysis, OEHHA standard default factors representing the upper limit of these exposure parameters will generally overestimate risks. Thus, the risks reported in this analysis represent an upper bound of estimated risk.

6.3.1 Exposure Assessment

The purpose of the exposure assessment is to estimate the extent of public exposure to emitted substances (OEHHA 2015). Under the OEHHA and U.S. EPA guidance, risk assessments for TACs consist of dispersion modeling of air toxic emissions to predict their downwind concentrations at the ground level. The methodology uses the model results in estimating potential health risks associated with exposure at the predicted concentrations.

The exposure assessment determines the quantities or concentrations of the risk agents received by the potentially exposed populations and receptors. The exposure assessment's emphasis is on calculating risk to maximally exposed individuals or small populations. This

assessment is performed by determining the concentrations of chemicals at a location of interest and combining this information with the time that individuals or populations are exposed to the chemicals.

According to the OEHHA guidelines, an inhalation pathway cancer risk analysis must be evaluated for every health risk assessment (OEHHA 2015). Exposure through inhalation is a function of the breathing rate, the exposure frequency, and the concentration of a substance in the air (OEHHA 2015). For residential exposure, the breathing rates are determined for specific age groups, so inhalation dose (Dose-air) is calculated for each of these age groups: 3rd trimester of birth, 0 to less than 2 (0<2), 2 to less than 9 (2<9), 2 to less than 16 (2<16), 16 to less than 30 (16<30), and 16 to 70 years of age. Because the project would include senior residents and employees, inhalation dose was calculated for the adult age group (16 to 70 years). A first tier (Tier 1) evaluation uses the high-end point estimate (i.e., the 95th percentiles) breathing rates for the inhalation for all populations. OEHHA has also developed age-sensitivity factors to account for the increased susceptibility of infants and children to carcinogens, as compared to adults.

This analysis is considered conservative, as the potential methods used tend to overestimate health risks. In addition, individuals are evaluated under scenarios using the high-end point estimates for breathing rates. These higher breathing rates result in incremental cancer risk estimates that represent the upper-range of predictions and, therefore, the upper-range of health risks that may be associated with exposure to vehicles emissions from I-5. Furthermore, the toxicity values (i.e., the values for each chemical at which an adverse health risk is predicted) are designed to protect health with an adequate margin of safety and are, therefore, conservative. Therefore, the health risks calculated in this analysis represent the upper bound of risks rather than actual values for any specific individual.

The emission factors used in the dispersion modeling and concentration estimates are based on the California Department of Transportation (Caltrans) 2014 Emissions Factor Model (CT-EMFAC, version 6.0; Caltrans 2015). CT-EMFAC's emission factors are based on CARB's EMFAC2014 on-road emissions model and mobile source air toxics speciation factors developed by CARB and the U.S. EPA. Therefore, the emission factors take into account improvements in technology and rules for future emission reductions for on-road vehicles that have been implemented by CARB, but do not, and cannot take into account any future reductions that are proposed but not yet implemented. The methodology for calculating emissions based on the freeway traffic mix and by various speeds was developed from the Caltrans' emissions factor model. The EMFAC2014 emission factors were also based on the aggregated vehicle age grouping included in EMFAC2014 (Attachment 2).

Based on Caltrans' report Annual Average Daily Truck Traffic on California State Highways, 2017 (Caltrans 2017), 3.8 percent of the traffic volumes on I-5 in the vicinity of the project are trucks with more than two axels. The remaining vehicles are classified as automobiles with two axels. This percentage of trucks was further broken down by type 1 and type 2 trucks per the CT-EMFAC method, which resulted in a final vehicle classifications mix of 96.2 percent non-trucks, 2.4 percent being in the Truck 1 category, and 1.4 percent classified as truck 2. The vehicle classification mix was used in developing emission rates entered into

AERMOD to determine ground level concentrations of DPM from vehicle exhaust. To estimate potential incremental cancer risks and the potential for adverse chronic non-cancer health hazards due to exposures, the dose through inhalation in air of TACs were calculated for the inhalation pathway. The equation for dose through inhalation (Dose-air) is as follows:

$$\text{Dose-air} = (C_{\text{air}} \times \text{DBR} \times A \times \text{EF} \times 10^{-6});$$

Where:

- Dose-air = Chronic daily intake, milligram/kilogram (mg/kg) body weight per day
- C_{air} = Ground-level concentration of TAC to which the receptor is exposed, micrograms/cubic meter
- DBR = Daily breathing rate, normalized to body weight (liters per kilogram body weight per day (OEHHA 2015))
- A = Inhalation absorption factor (OEHHA recommended factor of 1)
- EF = Exposure frequency, days/year (OEHHA recommended factor of 0.96 for resident and 0.68 for workers)

6.3.2 Dose–Response Assessment

The dose-response assessment is the process of characterizing the relationship between exposure to an agent and incidence of an adverse health effect in exposed populations. The assessment involves establishing a toxicity value or criterion to use in assessing potential health risk. The toxicity criterion, or health guidance value, for carcinogens is the cancer potency factor that describes the potential risk of developing cancer over a 70-year lifetime. It is assumed in cancer risk assessments that risk is directly proportional to dose and that there is no threshold for carcinogenesis (OEHHA 2015). Cancer potency factors are typically expressed as a high end probability of developing cancer assuming continuous lifetime exposure to a substance. The cancer potency factors in this assessment have been recommended by OEHHA (OEHHA 2015).

Non-cancer health risks (chronic and acute) are characterized by comparing the exposure to a concentration at or below a level where adverse effects are not likely to occur following specified exposure conditions. These concentrations or doses are called Reference Exposure Levels (RELs). As stated in the OEHHA guidance, it should be emphasized that exceeding the REL does not necessarily indicate that an adverse health effect will occur. Unlike cancer health effects, non-cancer health effects are generally assumed to have thresholds for adverse effects. In other words, injury from a pollutant will not occur until exposure to that pollutant has reached or exceeded a certain concentration (i.e., threshold). RELs take into account the exposure of sensitive populations and are thus intended to be health protective. A Chronic REL is a level above which prolonged exposure may have an adverse health effect. An Acute REL is a level set above the level at which short-term exposure may have an adverse health effect. The Hazard Quotient (HQ) for a substance is calculated as the exposure concentration divided by the REL.

6.3.3 Risk Characterization

Risk characterization is the final step of risk assessment. In this step, modeled concentrations and exposure information, which are determined through the exposure assessment, are combined with potency factors and RELs that are developed through the dose-response assessment (OEHHA 2015). In this assessment, the health risk characterization process involves integrating the exposure and the cancer potency factors to estimate two levels of potential health effects: carcinogenic and non-carcinogenic. The following sections present the approach to calculating carcinogenic and non-carcinogenic risks in this assessment.

6.3.3.1 Carcinogenic Risk Characterization Methodology

Carcinogenic risk characterization assumes that chemicals causing cancer do not have a threshold (i.e., a carcinogen produces a risk of causing cancer at any level of exposure). It should be noted that people are exposed to numerous chemicals from natural and artificial sources, and this background exposure may exceed the risk threshold considered acceptable for a particular cancer-causing mechanism. Moreover, some people may be more susceptible to cancer than others, which means that background levels of exposure may already exceed the risk threshold values for those individuals and not for others that are equally exposed. Therefore, this assessment focuses on the incremental potential cancer risk associated with exposure to emissions and does not account for natural background or individual habits.

In assessing the carcinogenic effects resulting from exposures to environmental contaminants, the lifetime excess cancer risk, which is considered to be the risk of developing cancer above the background risk level, is calculated using the following equation:

$$\text{Inhalation Dose (mg/kg-day)} \times \text{Cancer Potency (mg/kg-day)}^{-1} = \text{Cancer Risk}$$

Cancer risk is calculated by multiplying the inhalation dose by the inhalation cancer potency factor to yield the potential inhalation excess cancer risk.

6.3.3.2 Non-carcinogenic Risk Characterization Methodology

In this analysis, non-carcinogenic impacts are evaluated for chronic exposure inhalation exposure. Estimates of health impacts from non-carcinogenic concentrations are expressed as a HQ for individual substances, such as diesel particulate. An HQ of one or less indicates that adverse health effects are not expected to result from exposure to emissions of that substance. RELs are defined as the concentration at which no adverse health effects are anticipated. Generally, the inhalation pathway is the largest contributor to the total dose. The HQ is calculated with the following equation:

$$\text{Ground-Level Concentration } (\mu\text{g/m}^3) / \text{Reference Exposure Level } (\mu\text{g/m}^3) = \text{Hazard Quotient}$$

6.3.4 Risk Assessment Results

6.3.4.1 Cancer Risk

The AERMOD dispersion model was used to calculate concentrations of DPM in the vicinity of and on the project site. DPM concentrations were also modeled at a series of receptors located at the proposed buildings and the common exterior use areas. The DPM concentration, and therefore the maximum excess cancer risk, was predicted for a location southwest of the project site within the I-5 right-of-way. The location of the maximum impact point is within the freeway right-of-way and is not located on the project site. The ground-level DPM at this point was calculated to be 0.03985 µg/m³. The maximum DPM concentration modeled on the project site was 0.02015 µg/m³. The cancer risk isopleths and modeled receptors are shown in Figure 4. The DPM concentrations modeled on the project site were used to calculate the 30-year maximum excess cancer risk and the non-cancer risk using the OEHHA methodology. Table 6 summarizes the DPM concentrations and the cancer and non-cancer risks at each of the modeled receptors.

Receptor	DPM Concentration (µg/m ³)	30-year Excess Cancer Risk (in a million)	Chronic Non-Cancer Risk (Hazard Quotient)
1	0.01941	13.25	0.0039
2	0.01929	13.17	0.0039
3	0.01943	13.26	0.0039
4	0.02043	13.95	0.0041
5	0.02044	13.95	0.0041
6	0.02051	14.00	0.0041
7	0.01676	11.44	0.0034
8	0.01513	10.33	0.0030
9	0.01398	9.54	0.0028
10	0.01171	7.99	0.0023
11	0.00981	6.70	0.0020
12	0.00853	5.82	0.0017
13	0.00803	5.48	0.0016
14	0.00844	5.76	0.0017
15	0.00922	6.29	0.0018
16	0.01011	6.90	0.0020
17	0.01105	7.54	0.0022
18	0.01229	8.39	0.0025
19	0.01369	9.35	0.0027
20	0.01689	11.53	0.0034
21	0.01618	11.04	0.0032
22	0.00948	6.47	0.0019

Bold = Maximum excess cancer risk exceeds 10 in 1 million.

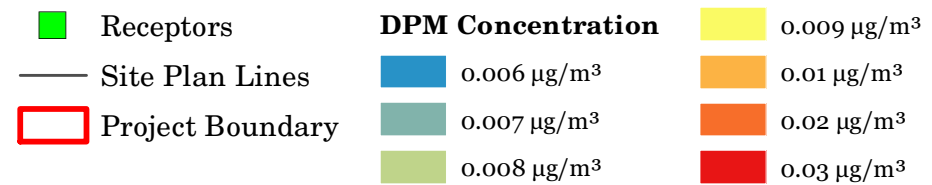
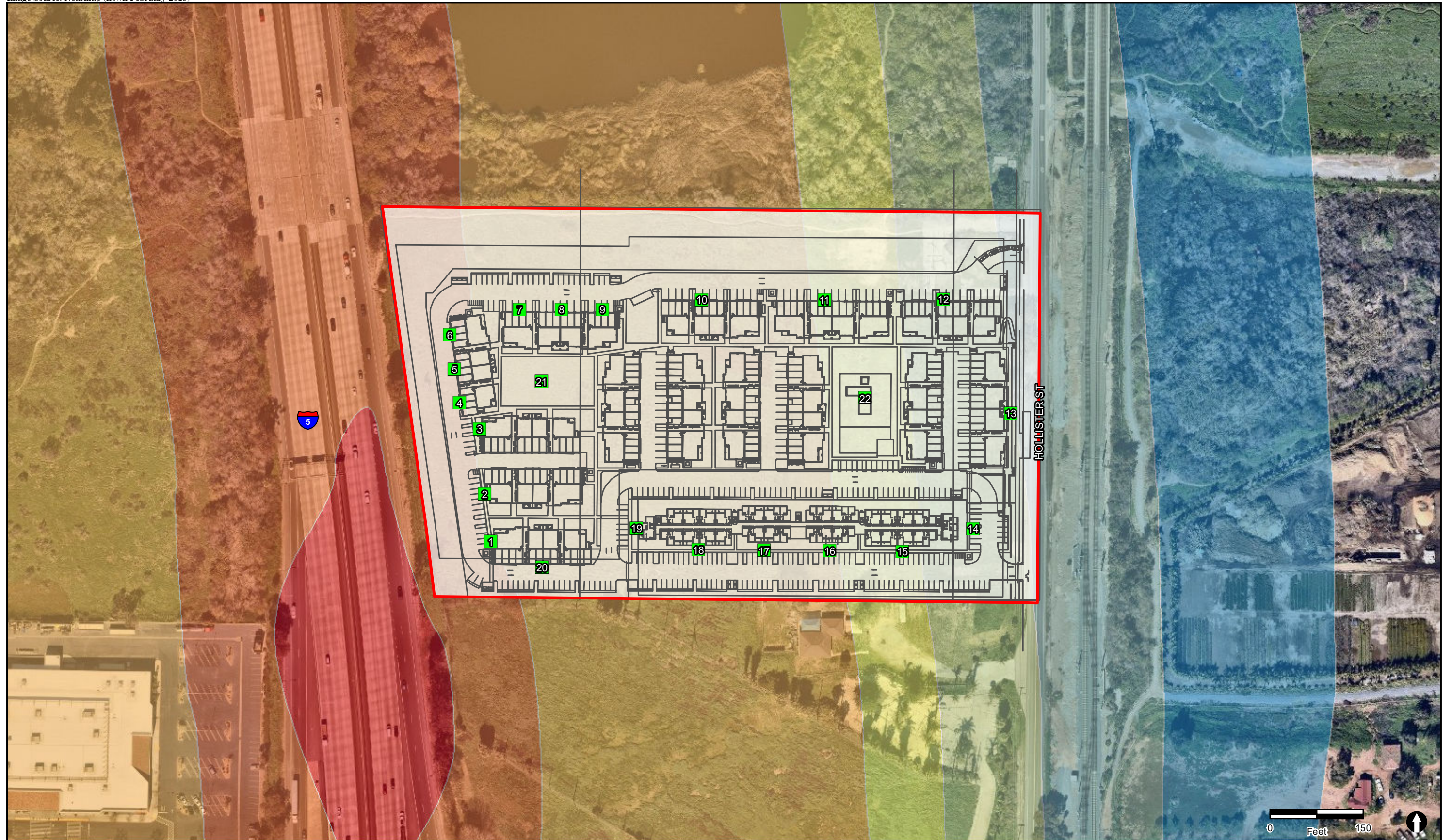


FIGURE 4
DPM Concentrations

As shown in Table 6, the 30-year maximum excess cancer risk is anticipated to exceed 10 in a million at the buildings located closest to I-5. However, the risk to residences would be reduced by the inclusion of various project design features, including planting vegetation between the freeway and project site, construction of a wall along the frontage with I-5, and the provision of heating, ventilation, and air conditioning (HVAC) units with MERV-13, or better, air filters in each unit. The MERV-13 filters would remove approximately 90 percent of DPM entering the indoor air, thus reducing cancer risk from diesel exhaust exposure. Thus, with the inclusion of the wall along the freeway, the landscaping proposed between the freeway and project site, and the provision of the equivalent of MERV-13, or better, air filters in the HVAC units, the potential increase in cancer risk and the non-cancer chronic risks would be less than significant.

The following discussion of background risks is provided for informational purposes. Based on the CARB's California Almanac of Emissions and Air Quality—2009 Edition (CARB 2009), the relative cancer risk attributable to diesel particulate emissions in San Diego County was estimated at 420 in a million for the year 2000, which represents a 52 percent drop in excess cancer risks since 1990. The reduction over time is primarily attributed to regulatory requirements and technological developments that have resulted in the reduction of toxics emitted in diesel exhaust. Based on the risk estimates, the project results of up to a 14 in a million excess cancer risk, in comparison with the background risks within San Diego County, would contribute less than one percent of the incremental increase to the estimated existing risk to the overall cumulative risk predicted in San Diego County. Additionally, the provision of MERV-13 filters would reduce DPM concentrations, and therefore cancer risk, by approximately 90 percent.

6.3.4.2 Non-cancer Risk

An HQ of 1.0 or less indicates that adverse health effects are not expected to result from exposure to DPM. As shown in Table 6, based on annual ground level concentrations on the project site, the maximum chronic non-cancer risk was 0.0041. This is below the level of 1.0 at which adverse non-cancer health risks would be anticipated.

6.4 Impact Analysis

1. Would the project obstruct or conflict with the implementation of the San Diego RAQS?

The RAQS is the applicable regional air quality plan that sets forth the SDAPCD's strategies for achieving the NAAQS and CAAQS. The SDAB is designated non-attainment for the federal and state ozone standard. Accordingly, the RAQS was developed to identify feasible emission control measures and provide expeditious progress toward attaining the standards for ozone. The two pollutants addressed in the RAQS are ROG and oxides of nitrogen (NO_x), which are precursors to the formation of ozone. Projected increases in motor vehicle usage, population, and growth create challenges in controlling emissions and by extension to maintaining and improving air quality. The RAQS, in conjunction with the TCM, were most recently adopted in 2016 as the air quality plan for the region.

The growth projections used by the SDAPCD to develop the RAQS emissions budgets are based on the population, vehicle trends, and land use plans developed in general plans and used by SANDAG in the development of the regional transportation plans and sustainable communities strategy. As such, projects that propose development that is consistent with the growth anticipated by SANDAG's growth projections and/or the general plan would not conflict with the RAQS. In the event that a project would propose development that is less dense than anticipated by the growth projections, the project would likewise be consistent with the RAQS. In the event a project proposes development that is greater than anticipated in the growth projections, further analysis would be warranted to determine if the project would exceed the growth projections used in the RAQS for the specific subregional area.

The project site is designated as Open Space in the City's General Plan and the Otay Mesa-Nestor Community Plan, and would require a Community Plan Amendment and rezone to allow for the construction of a residential development. Thus, development of the project would result in greater emissions than those accounted for in the RAQS. However, this does not imply that the project would conflict with implementation of the RAQS. Project emissions from construction and operation would be less than the applicable thresholds for all criteria pollutants; therefore, the project would not contribute to existing air quality violations, or result in regional emissions that would exceed the NAAQS or CAAQS, or result in a cumulatively considerable net increase in criteria pollutants, including ozone precursors (ROG and NO_x). Additionally, the project would be consistent with the surrounding land uses, which include single- and multi-family residential and commercial uses. The project would provide needed housing, including over 20 percent affordable units, near a major transit stop, shopping, and recreation. The project site is located within a quarter mile of the Palm Avenue trolley station, and there is an existing bus stop along the Hollister Street frontage of the property. Because the project would not result in an air quality violation or a cumulatively considerable net increase in criteria pollutants, the project would not conflict with implementation of the RAQS. Impacts would be less than significant.

2. Would the project result in emissions that would violate any air quality standard or contribute substantially to an existing or projected air quality violation?

As shown in Table 4, project construction would not exceed the applicable regional emissions thresholds. These thresholds are designed to provide limits below which project emissions would not significantly change regional air quality. Therefore, as project construction emissions would be well below these limits, project construction would not result in regional emissions that would exceed the NAAQS or CAAQS or contribute to existing violations.

Long-term emissions of regional air pollutants occur from operational sources. As shown in Table 5, project operation would not exceed the applicable regional emissions thresholds. Therefore, as project operation emissions would be well below these limits, project operation would not result in regional emissions that would exceed the NAAQS or CAAQS or contribute to existing violations. Therefore, the project would result in a less than significant impact in regards to air quality standards.

3. *Would the project expose sensitive receptors to substantial pollutant concentration including air toxics such as diesel particulates?*

Sensitive land uses include schools and schoolyards, parks and playgrounds, daycare centers, nursing homes, hospitals, and residential communities. The nearest sensitive receptor is a single-family residence located approximately 20 feet south of the southern project boundary. Other sensitive receptors include single- and multi-family residences further south of the project site.

Diesel Particulate Matter – Construction

Construction of the project and associated infrastructure would result in short-term diesel exhaust emissions from on-site heavy-duty equipment. Construction of the project would result in the generation of diesel-exhaust DPM emissions from the use of off-road diesel equipment required for site grading and excavation, paving, and other construction activities and on-road diesel equipment used to bring materials to and from the project site.

Generation of DPM from construction projects typically occurs in a single area for a short period. Construction is anticipated to last for approximately 16 months. The dose to which the receptors are exposed is the primary factor used to determine health risk. Dose is a function of the concentration of a substance or substances in the environment and the extent of exposure that person has with the substance. Dose is positively correlated with time, meaning that a longer exposure period would result in a higher exposure level for the Maximally Exposed Individual. The risks estimated for a Maximally Exposed Individual are higher if a fixed exposure occurs over a longer period of time. According to OEHHA, health risk assessments, which determine the exposure of sensitive receptors to toxic emissions, should be based on a 30-year exposure period; however, such assessments should be limited to the period/duration of activities associated with the project (OEHHA 2015). Thus, if the duration of proposed construction activities near any specific sensitive receptor were 16 months, the exposure would be 5 percent of the total exposure period used for health risk calculation. Although the nearest receptor is adjacent to the southern project boundary, the average distance between the receptor and the construction equipment would be much greater since construction activities would occur throughout the entire site. Based on the grading footprint, the average distance between the construction activity and the nearest sensitive receptor would be approximately 350 feet. All other sensitive receptors are located more than 500 feet from the project site.

Additionally, with ongoing implementation of U.S. EPA and CARB requirements for cleaner fuels; off-road diesel engine retrofits; and new, low-emission diesel engine types, the DPM emissions of individual equipment would be substantially reduced over the years as the project construction continues. As discussed previously, all construction equipment is subject to the CARB In-Use Off-Road Diesel-Fueled Fleets Regulation, which limits unnecessary idling to 5 minutes, requires all construction fleets to be labeled and reported to CARB, bans Tier 0 equipment and phases out Tier 1 and 2 equipment (thereby replacing fleets with cleaner equipment), and requires that fleets comply with Best Available Control Technology requirements. Therefore, due to the limited duration of construction activities the average distance to the nearest sensitive receptor, and implementation of the In-Use Off-Road Diesel-Fueled Fleets Regulation, DPM generated by project construction is not expected to create

conditions where the probability is greater than 10 in 1 million of contracting cancer for the Maximally Exposed Individual or to generate ground-level concentrations of non-carcinogenic TACs that exceed a Hazard Index greater than 1 for the Maximally Exposed Individual. Therefore, project construction would not expose sensitive receptors to substantial pollutant concentration.

Diesel Particulate Matter – Freeway

As discussed in Section 6.3, a health risk assessment was prepared for the project because of its proximity to I-5. The project-level health risk assessment conducted in this analysis was based on assumptions regarding emissions from diesel-fueled truck traffic on I-5. To provide an estimate of emissions to estimate a 9-year, 30-year, and 70-year exposure scenarios, emission rates were calculated from the EMFAC2014 model.

Based on the predicted ground level concentrations, the 30-year maximum excess cancer risk is anticipated to exceed 10 in a million at the buildings located closest to I-5. However, the risk to residences would be reduced by the inclusion of various project design features, including planting vegetation between the freeway and project site, construction of a wall along the frontage with I-5, and the provision of HVAC units with MERV-13, or better, air filters in each unit. The MERV-13 filters would remove approximately 90 percent of DPM entering the indoor air, thus reducing cancer risk from diesel exhaust exposure. Thus, with the inclusion of the wall along the freeway, the landscaping proposed between the freeway and project site, and the provision of the equivalent of MERV-13, or better, air filters in the HVAC units, the potential increase in cancer risk and the non-cancer chronic risks would be less than significant.

Carbon Monoxide Hot Spots

Localized CO concentration is a direct function of motor vehicle activity at signalized intersections (e.g., idling time and traffic flow conditions), particularly during peak commute hours and meteorological conditions. The SDAB is a CO maintenance area under the federal CAA. This means that SDAB was previously a non-attainment area and is currently implementing a 10-year plan for continuing to meet and maintain air quality standards.

Due to increased requirements for cleaner vehicles, equipment, and fuels, CO levels in the state have dropped substantially. All air basins are attainment or maintenance areas for CO. Therefore, more recent screening procedures based on more current methodologies have been developed. The Sacramento Metropolitan Air Quality Management District developed a screening threshold in 2011, which states that any project involving an intersection experiencing 31,600 vehicles per hour or more will require detailed analysis. In addition, the Bay Area Air Quality Management District developed a screening threshold in 2010 which states that any project involving an intersection experiencing 44,000 vehicles per hour would require detailed analysis. This analysis conservatively assesses potential CO hot spots using the Sacramento Metropolitan Air Quality Management District screening threshold of 31,600 vehicles per hour.

Based on the Transportation Impact Analysis prepared for the project, the traffic volumes at all analyzed intersections would be significantly less than 31,600 vehicles per hour (Kimley-Horn 2019). Therefore, the project is not anticipated to result in a CO hot spot.

4. Would the project create objectionable odors affecting a substantial number of people?

The project does not include heavy industrial or agricultural uses that are typically associated with odor complaints. During construction, diesel equipment may generate some nuisance odors. Sensitive receptors near the project site include single- and multi-family residential uses south of the project site; however, exposure to odors associated with project construction would be short term and temporary in nature. Additionally, CARB's In-Use Off-Road Diesel-Fueled Fleets Regulation outlined above would reduce construction exhaust emissions, which would also reduce construction-related odors. Impacts would be less than significant.

5. Would the project exceed 100 pounds per day of particulate matter (dust)?

As shown in Tables 4 and 5, emissions of PM₁₀ during construction and operation of the project would be less than 100 pounds per day. Construction operations are subject to the requirements established in Regulation 4, Rules 52, 54, and 55, of the SDAPCD's rules and regulations. Standard dust control measures would be implemented as a part of project construction.

6. Would the project result in substantial alteration of air movement in the area?

Local topographic variation such as that caused by the height and shape of a row of buildings can influence air movement in a given location (Boston Redevelopment Authority 1986). Alterations in the built environment may increase the dispersion of air pollutants or cause stagnation that may result in a harmful concentration of air pollutants. Urban canyons are places where the street is flanked by buildings on both sides creating a canyon-like environment. Where urban canyons are oriented perpendicular to the prevailing wind patterns, the likelihood of restricted air movement and associated pollutant accumulation may increase.

Roadways in the vicinity of the project include I-5 and Hollister Street. Mostly vacant parcels are located to the north, south, and east of the project site. Development is not dense enough to form an urban canyon, and buildings do not form contiguous or near contiguous frontage. The project is not anticipated to contribute to a substantial alteration of air movement that would affect air quality, and impacts would be less than significant.

7.0 Conclusions

The primary goal of the RAQS is to reduce ozone precursor emissions. The project site is designated as Open Space in the City's General Plan and the Otay Mesa-Nestor Community Plan, and would require a Community Plan Amendment and rezone to allow for the construction of a residential development. Thus, development of the project would result in greater emissions than those accounted for in the RAQS. Future emissions of ozone

precursors (ROG and NO_x) would be greater than what is accounted for in the RAQS. However, the project emissions would be less than the applicable thresholds for all criteria pollutants, and significant air quality impacts would not occur from either project construction and operations. Also, the project would provide needed housing, including over 20 percent affordable units, near a major transit stop, shopping, and recreation. Because the project would not result in an air quality violation or a cumulatively considerable net increase in criteria pollutants, the project would not conflict with implementation of the RAQS. Impacts would be less than significant.

As shown in Table 4, project construction emissions would not exceed the applicable regional emissions thresholds. These thresholds are designed to provide limits below which project emissions would not significantly change regional air quality. Therefore, as project emissions would be well below these limits, project construction would not result in regional emissions that would exceed the NAAQS or CAAQS or contribute to existing violations. Additionally, construction emissions would be temporary, intermittent, and would cease at the end of project construction.

Long-term emissions of regional air pollutants occur from operational sources. As shown in Table 5, project operational emissions would not exceed the applicable regional emissions thresholds. Therefore, as project emissions would be well below these limits, project operations would not result in regional emissions that would exceed the NAAQS or CAAQS or contribute to existing violations.

The site-specific health risk assessment was based on assumptions regarding emissions from diesel-fueled truck traffic on I-5. Based on the predicted ground level concentrations, the 30-year maximum excess cancer risk is anticipated to exceed 10 in a million at the buildings located closest to I-5. However, the risk to residences would be reduced by the inclusion of various project design features, including planting vegetation between the freeway and project site, construction of a wall along the frontage with I-5, and the provision of HVAC units with MERV-13, or better, air filters in each unit. The MERV-13 filters would remove approximately 90 percent of DPM entering the indoor air, thus reducing cancer risk from diesel exhaust exposure. Thus, with the inclusion of the wall along the freeway, the landscaping proposed between the freeway and project site, and the provision of the equivalent of MERV-13, or better, air filters in the HVAC units, the potential increase in cancer risk and the non-cancer chronic risks would be less than significant.

The project does not include heavy industrial or agricultural uses that are typically associated with objectionable odors. The project would involve the use of diesel-powered construction equipment. Diesel exhaust may be noticeable temporarily at adjacent properties; however, construction activities would be temporary. Therefore, odor impacts would be less than significant.

The project would not result in the generation of 100 pounds per day or more of particulate matter. Standard dust control measures would be implemented as a part of project construction.

Roadways in the vicinity of the project include I-5 and Hollister Street. Mostly vacant parcels are located to the north, south, and east of the project site. Development is not dense enough to form an urban canyon, and buildings do not form contiguous or near contiguous frontage. The project is not anticipated to contribute to a substantial alteration of air movement that would affect air quality.

8.0 References Cited

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ATTACHMENTS

ATTACHMENT 1
CalEEMod Output – Project Emissions

8575 Bella Mar - San Diego County APCD Air District, Winter

8575 Bella Mar
San Diego County APCD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Mid Rise	380.00	Dwelling Unit	14.55	380,000.00	1087

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2021
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MW hr)	455.72	CH4 Intensity (lb/MW hr)	0.018	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

8575 Bella Mar - San Diego County APCD Air District, Winter

Project Characteristics - Energy intensity factors updated based on SDG&E renewable procurement
(455.72, 0.018, 0.004)

Land Use - 380 units
14.55 acres

Construction Phase - Architectural coatings simultaneous with last half of building construction

Architectural Coating - SDAPCD Rule 67.0.1

Vehicle Trips - 6 trips/du
5.62 mile trip length based on EMFAC2014 data for San Diego 2020

Woodstoves - No woodstoves or fireplaces

Area Coating - Traffic Impact Study, Rick Engineering 2019
5.62 mile trip length based on EMFAC2014 data for San Diego 2020

Energy Use -

Water And Wastewater - CalGreen requires 20% reduction in indoor water use that is not accounted for in CalEEMod
(19,806,823.79 gallons)

Waste Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Residential_Exterior	250.00	150.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	100.00
tblAreaCoating	Area_EF_Residential_Exterior	250	150
tblAreaCoating	Area_EF_Residential_Interior	250	100
tblConstructionPhase	NumDays	20.00	150.00
tblConstructionPhase	PhaseEndDate	6/15/2021	4/20/2021
tblConstructionPhase	PhaseStartDate	5/19/2021	9/23/2020
tblFireplaces	FireplaceDayYear	82.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	NumberGas	209.00	0.00
tblFireplaces	NumberNoFireplace	38.00	380.00
tblFireplaces	NumberWood	133.00	0.00

8575 Bella Mar - San Diego County APCD Air District, Winter

tblLandUse	LotAcreage	10.00	14.55
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.018
tblProjectCharacteristics	CO2IntensityFactor	720.49	455.72
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.004
tblVehicleTrips	HO_TL	7.50	5.62
tblVehicleTrips	HS_TL	7.30	5.62
tblVehicleTrips	HW_TL	10.80	5.62
tblVehicleTrips	ST_TR	6.39	6.00
tblVehicleTrips	SU_TR	5.86	6.00
tblVehicleTrips	WD_TR	6.65	6.00
tblWater	IndoorWaterUseRate	24,758,529.74	19,806,823.79
tblWoodstoves	NumberCatalytic	19.00	0.00
tblWoodstoves	NumberNoncatalytic	19.00	0.00
tblWoodstoves	WoodstoveDayYear	82.00	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00

2.0 Emissions Summary

8575 Bella Mar - San Diego County APCD Air District, Winter

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	10.5497	0.3627	31.4186	1.6600e-003		0.1732	0.1732		0.1732	0.1732	0.0000	56.4499	56.4499	0.0547	0.0000	57.8175
Energy	0.0834	0.7127	0.3033	4.5500e-003		0.0576	0.0576		0.0576	0.0576		909.8860	909.8860	0.0174	0.0167	915.2930
Mobile	3.3220	13.2437	33.9550	0.1021	8.7827	0.0908	8.8735	2.3474	0.0849	2.4323		10,379.49 91	10,379.49 91	0.6093		10,394.73 26
Total	13.9551	14.3191	65.6769	0.1084	8.7827	0.3217	9.1044	2.3474	0.3157	2.6631	0.0000	11,345.83 50	11,345.83 50	0.6815	0.0167	11,367.84 30

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	10.5497	0.3627	31.4186	1.6600e-003		0.1732	0.1732		0.1732	0.1732	0.0000	56.4499	56.4499	0.0547	0.0000	57.8175
Energy	0.0834	0.7127	0.3033	4.5500e-003		0.0576	0.0576		0.0576	0.0576		909.8860	909.8860	0.0174	0.0167	915.2930
Mobile	3.3220	13.2437	33.9550	0.1021	8.7827	0.0908	8.8735	2.3474	0.0849	2.4323		10,379.49 91	10,379.49 91	0.6093		10,394.73 26
Total	13.9551	14.3191	65.6769	0.1084	8.7827	0.3217	9.1044	2.3474	0.3157	2.6631	0.0000	11,345.83 50	11,345.83 50	0.6815	0.0167	11,367.84 30

8575 Bella Mar - San Diego County APCD Air District, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2020	1/14/2020	5	10	
2	Grading	Grading	1/15/2020	2/25/2020	5	30	
3	Building Construction	Building Construction	2/26/2020	4/20/2021	5	300	
4	Paving	Paving	4/21/2021	5/18/2021	5	20	
5	Architectural Coating	Architectural Coating	9/23/2020	4/20/2021	5	150	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 75

Acres of Paving: 0

Residential Indoor: 769,500; Residential Outdoor: 256,500; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

8575 Bella Mar - San Diego County APCD Air District, Winter

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

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	274.00	41.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	55.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

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3.1 Mitigation Measures Construction

3.2 Site Preparation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216		3,685.1016	3,685.1016	1.1918		3,714.8975
Total	4.0765	42.4173	21.5136	0.0380	18.0663	2.1974	20.2637	9.9307	2.0216	11.9523		3,685.1016	3,685.1016	1.1918		3,714.8975

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0748	0.0500	0.4810	1.4300e-003	0.1479	1.0400e-003	0.1489	0.0392	9.6000e-004	0.0402		142.4038	142.4038	4.2900e-003		142.5109
Total	0.0748	0.0500	0.4810	1.4300e-003	0.1479	1.0400e-003	0.1489	0.0392	9.6000e-004	0.0402		142.4038	142.4038	4.2900e-003		142.5109

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3.2 Site Preparation - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216	0.0000	3,685.1016	3,685.1016	1.1918		3,714.8975
Total	4.0765	42.4173	21.5136	0.0380	18.0663	2.1974	20.2637	9.9307	2.0216	11.9523	0.0000	3,685.1016	3,685.1016	1.1918		3,714.8975

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0748	0.0500	0.4810	1.4300e-003	0.1479	1.0400e-003	0.1489	0.0392	9.6000e-004	0.0402		142.4038	142.4038	4.2900e-003		142.5109
Total	0.0748	0.0500	0.4810	1.4300e-003	0.1479	1.0400e-003	0.1489	0.0392	9.6000e-004	0.0402		142.4038	142.4038	4.2900e-003		142.5109

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3.3 Grading - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	4.4501	50.1975	31.9583	0.0620		2.1739	2.1739		2.0000	2.0000		6,005.865 3	6,005.865 3	1.9424		6,054.425 7
Total	4.4501	50.1975	31.9583	0.0620	8.6733	2.1739	10.8472	3.5965	2.0000	5.5965		6,005.865 3	6,005.865 3	1.9424		6,054.425 7

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0831	0.0555	0.5345	1.5900e-003	0.1643	1.1500e-003	0.1655	0.0436	1.0600e-003	0.0446		158.2264	158.2264	4.7600e-003		158.3455
Total	0.0831	0.0555	0.5345	1.5900e-003	0.1643	1.1500e-003	0.1655	0.0436	1.0600e-003	0.0446		158.2264	158.2264	4.7600e-003		158.3455

8575 Bella Mar - San Diego County APCD Air District, Winter

3.3 Grading - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	4.4501	50.1975	31.9583	0.0620		2.1739	2.1739		2.0000	2.0000	0.0000	6,005.865 3	6,005.865 3	1.9424		6,054.425 7
Total	4.4501	50.1975	31.9583	0.0620	8.6733	2.1739	10.8472	3.5965	2.0000	5.5965	0.0000	6,005.865 3	6,005.865 3	1.9424		6,054.425 7

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0831	0.0555	0.5345	1.5900e-003	0.1643	1.1500e-003	0.1655	0.0436	1.0600e-003	0.0446		158.2264	158.2264	4.7600e-003		158.3455
Total	0.0831	0.0555	0.5345	1.5900e-003	0.1643	1.1500e-003	0.1655	0.0436	1.0600e-003	0.0446		158.2264	158.2264	4.7600e-003		158.3455

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3.4 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503		2,553.063 1	2,553.063 1	0.6229		2,568.634 5
Total	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503		2,553.063 1	2,553.063 1	0.6229		2,568.634 5

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1605	4.6194	1.3071	0.0109	0.2776	0.0231	0.3006	0.0799	0.0221	0.1020		1,174.495 1	1,174.495 1	0.0945		1,176.857 8
Worker	1.1388	0.7606	7.3226	0.0218	2.2509	0.0158	2.2666	0.5970	0.0146	0.6116		2,167.701 6	2,167.701 6	0.0653		2,169.333 2
Total	1.2992	5.3800	8.6297	0.0327	2.5284	0.0389	2.5672	0.6769	0.0366	0.7135		3,342.196 6	3,342.196 6	0.1598		3,346.190 9

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3.4 Building Construction - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503	0.0000	2,553.063 1	2,553.063 1	0.6229		2,568.634 5
Total	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503	0.0000	2,553.063 1	2,553.063 1	0.6229		2,568.634 5

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1605	4.6194	1.3071	0.0109	0.2776	0.0231	0.3006	0.0799	0.0221	0.1020		1,174.495 1	1,174.495 1	0.0945		1,176.857 8
Worker	1.1388	0.7606	7.3226	0.0218	2.2509	0.0158	2.2666	0.5970	0.0146	0.6116		2,167.701 6	2,167.701 6	0.0653		2,169.333 2
Total	1.2992	5.3800	8.6297	0.0327	2.5284	0.0389	2.5672	0.6769	0.0366	0.7135		3,342.196 6	3,342.196 6	0.1598		3,346.190 9

8575 Bella Mar - San Diego County APCD Air District, Winter

3.4 Building Construction - 2021

Unmitigated Construction On-Site

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

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1307	4.1639	1.1847	0.0108	0.2776	9.1200e-003	0.2867	0.0799	8.7200e-003	0.0886		1,163.6591	1,163.6591	0.0907		1,165.9254
Worker	1.0747	0.6912	6.8315	0.0210	2.2509	0.0156	2.2664	0.5970	0.0143	0.6114		2,094.8604	2,094.8604	0.0602		2,096.3650
Total	1.2054	4.8551	8.0162	0.0318	2.5284	0.0247	2.5531	0.6769	0.0230	0.7000		3,258.5195	3,258.5195	0.1508		3,262.2904

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3.4 Building Construction - 2021

Mitigated Construction On-Site

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

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1307	4.1639	1.1847	0.0108	0.2776	9.1200e-003	0.2867	0.0799	8.7200e-003	0.0886		1,163.6591	1,163.6591	0.0907		1,165.9254
Worker	1.0747	0.6912	6.8315	0.0210	2.2509	0.0156	2.2664	0.5970	0.0143	0.6114		2,094.8604	2,094.8604	0.0602		2,096.3650
Total	1.2054	4.8551	8.0162	0.0318	2.5284	0.0247	2.5531	0.6769	0.0230	0.7000		3,258.5195	3,258.5195	0.1508		3,262.2904

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3.5 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235		2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235		2,207.2109	2,207.2109	0.7139		2,225.0573

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0588	0.0378	0.3740	1.1500e-003	0.1232	8.5000e-004	0.1241	0.0327	7.8000e-004	0.0335		114.6821	114.6821	3.2900e-003		114.7645
Total	0.0588	0.0378	0.3740	1.1500e-003	0.1232	8.5000e-004	0.1241	0.0327	7.8000e-004	0.0335		114.6821	114.6821	3.2900e-003		114.7645

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3.5 Paving - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235	0.0000	2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235	0.0000	2,207.2109	2,207.2109	0.7139		2,225.0573

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0588	0.0378	0.3740	1.1500e-003	0.1232	8.5000e-004	0.1241	0.0327	7.8000e-004	0.0335		114.6821	114.6821	3.2900e-003		114.7645
Total	0.0588	0.0378	0.3740	1.1500e-003	0.1232	8.5000e-004	0.1241	0.0327	7.8000e-004	0.0335		114.6821	114.6821	3.2900e-003		114.7645

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3.6 Architectural Coating - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	35.6663					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109		281.4481	281.4481	0.0218		281.9928
Total	35.9085	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109		281.4481	281.4481	0.0218		281.9928

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2286	0.1527	1.4699	4.3700e-003	0.4518	3.1700e-003	0.4550	0.1198	2.9200e-003	0.1228		435.1226	435.1226	0.0131		435.4501
Total	0.2286	0.1527	1.4699	4.3700e-003	0.4518	3.1700e-003	0.4550	0.1198	2.9200e-003	0.1228		435.1226	435.1226	0.0131		435.4501

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3.6 Architectural Coating - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	35.6663					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109	0.0000	281.4481	281.4481	0.0218		281.9928
Total	35.9085	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109	0.0000	281.4481	281.4481	0.0218		281.9928

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2286	0.1527	1.4699	4.3700e-003	0.4518	3.1700e-003	0.4550	0.1198	2.9200e-003	0.1228		435.1226	435.1226	0.0131		435.4501
Total	0.2286	0.1527	1.4699	4.3700e-003	0.4518	3.1700e-003	0.4550	0.1198	2.9200e-003	0.1228		435.1226	435.1226	0.0131		435.4501

8575 Bella Mar - San Diego County APCD Air District, Winter

3.6 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	35.6663					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309
Total	35.8852	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2157	0.1387	1.3713	4.2200e-003	0.4518	3.1200e-003	0.4549	0.1198	2.8700e-003	0.1227		420.5012	420.5012	0.0121		420.8032
Total	0.2157	0.1387	1.3713	4.2200e-003	0.4518	3.1200e-003	0.4549	0.1198	2.8700e-003	0.1227		420.5012	420.5012	0.0121		420.8032

8575 Bella Mar - San Diego County APCD Air District, Winter

3.6 Architectural Coating - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	35.6663					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309
Total	35.8852	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2157	0.1387	1.3713	4.2200e-003	0.4518	3.1200e-003	0.4549	0.1198	2.8700e-003	0.1227		420.5012	420.5012	0.0121		420.8032
Total	0.2157	0.1387	1.3713	4.2200e-003	0.4518	3.1200e-003	0.4549	0.1198	2.8700e-003	0.1227		420.5012	420.5012	0.0121		420.8032

4.0 Operational Detail - Mobile

8575 Bella Mar - San Diego County APCD Air District, Winter

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	3.3220	13.2437	33.9550	0.1021	8.7827	0.0908	8.8735	2.3474	0.0849	2.4323		10,379.91	10,379.91	0.6093		10,394.73
Unmitigated	3.3220	13.2437	33.9550	0.1021	8.7827	0.0908	8.8735	2.3474	0.0849	2.4323		10,379.91	10,379.91	0.6093		10,394.73

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	2,280.00	2,280.00	2280.00	4,141,923	4,141,923
Total	2,280.00	2,280.00	2,280.00	4,141,923	4,141,923

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	5.62	5.62	5.62	41.60	18.80	39.60	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.593936	0.041843	0.182569	0.108325	0.016436	0.005513	0.015940	0.023523	0.001912	0.001972	0.006090	0.000748	0.001193

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5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0834	0.7127	0.3033	4.5500e-003		0.0576	0.0576		0.0576	0.0576		909.8860	909.8860	0.0174	0.0167	915.2930
NaturalGas Unmitigated	0.0834	0.7127	0.3033	4.5500e-003		0.0576	0.0576		0.0576	0.0576		909.8860	909.8860	0.0174	0.0167	915.2930

8575 Bella Mar - San Diego County APCD Air District, Winter

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	7734.03	0.0834	0.7127	0.3033	4.5500e-003		0.0576	0.0576		0.0576	0.0576		909.8860	909.8860	0.0174	0.0167	915.2930
Total		0.0834	0.7127	0.3033	4.5500e-003		0.0576	0.0576		0.0576	0.0576		909.8860	909.8860	0.0174	0.0167	915.2930

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	7.73403	0.0834	0.7127	0.3033	4.5500e-003		0.0576	0.0576		0.0576	0.0576		909.8860	909.8860	0.0174	0.0167	915.2930
Total		0.0834	0.7127	0.3033	4.5500e-003		0.0576	0.0576		0.0576	0.0576		909.8860	909.8860	0.0174	0.0167	915.2930

6.0 Area Detail

6.1 Mitigation Measures Area

8575 Bella Mar - San Diego County APCD Air District, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	10.5497	0.3627	31.4186	1.6600e-003		0.1732	0.1732		0.1732	0.1732	0.0000	56.4499	56.4499	0.0547	0.0000	57.8175
Unmitigated	10.5497	0.3627	31.4186	1.6600e-003		0.1732	0.1732		0.1732	0.1732	0.0000	56.4499	56.4499	0.0547	0.0000	57.8175

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.4657					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	8.1320					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.9519	0.3627	31.4186	1.6600e-003		0.1732	0.1732		0.1732	0.1732		56.4499	56.4499	0.0547		57.8175
Total	10.5497	0.3627	31.4186	1.6600e-003		0.1732	0.1732		0.1732	0.1732	0.0000	56.4499	56.4499	0.0547	0.0000	57.8175

8575 Bella Mar - San Diego County APCD Air District, Winter

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.4657					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	8.1320					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.9519	0.3627	31.4186	1.6600e-003		0.1732	0.1732		0.1732	0.1732		56.4499	56.4499	0.0547		57.8175
Total	10.5497	0.3627	31.4186	1.6600e-003		0.1732	0.1732		0.1732	0.1732	0.0000	56.4499	56.4499	0.0547	0.0000	57.8175

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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8575 Bella Mar - San Diego County APCD Air District, Winter

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

8575 Bella Mar - San Diego County APCD Air District, Summer

8575 Bella Mar
San Diego County APCD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Mid Rise	380.00	Dwelling Unit	14.55	380,000.00	1087

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2021
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MW hr)	455.72	CH4 Intensity (lb/MW hr)	0.018	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

8575 Bella Mar - San Diego County APCD Air District, Summer

Project Characteristics - Energy intensity factors updated based on SDG&E renewable procurement
(455.72, 0.018, 0.004)

Land Use - 380 units
14.55 acres

Construction Phase - Architectural coatings simultaneous with last half of building construction

Architectural Coating - SDAPCD Rule 67.0.1

Vehicle Trips - 6 trips/du
5.62 mile trip length based on EMFAC2014 data for San Diego 2020

Woodstoves - No woodstoves or fireplaces

Area Coating - Traffic Impact Study, Rick Engineering 2019
5.62 mile trip length based on EMFAC2014 data for San Diego 2020

Energy Use -

Water And Wastewater - CalGreen requires 20% reduction in indoor water use that is not accounted for in CalEEMod
(19,806,823.79 gallons)

Waste Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Residential_Exterior	250.00	150.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	100.00
tblAreaCoating	Area_EF_Residential_Exterior	250	150
tblAreaCoating	Area_EF_Residential_Interior	250	100
tblConstructionPhase	NumDays	20.00	150.00
tblConstructionPhase	PhaseEndDate	6/15/2021	4/20/2021
tblConstructionPhase	PhaseStartDate	5/19/2021	9/23/2020
tblFireplaces	FireplaceDayYear	82.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	NumberGas	209.00	0.00
tblFireplaces	NumberNoFireplace	38.00	380.00
tblFireplaces	NumberWood	133.00	0.00

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tblLandUse	LotAcreage	10.00	14.55
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.018
tblProjectCharacteristics	CO2IntensityFactor	720.49	455.72
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.004
tblVehicleTrips	HO_TL	7.50	5.62
tblVehicleTrips	HS_TL	7.30	5.62
tblVehicleTrips	HW_TL	10.80	5.62
tblVehicleTrips	ST_TR	6.39	6.00
tblVehicleTrips	SU_TR	5.86	6.00
tblVehicleTrips	WD_TR	6.65	6.00
tblWater	IndoorWaterUseRate	24,758,529.74	19,806,823.79
tblWoodstoves	NumberCatalytic	19.00	0.00
tblWoodstoves	NumberNoncatalytic	19.00	0.00
tblWoodstoves	WoodstoveDayYear	82.00	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00

2.0 Emissions Summary

8575 Bella Mar - San Diego County APCD Air District, Summer

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	10.5497	0.3627	31.4186	1.6600e-003		0.1732	0.1732		0.1732	0.1732	0.0000	56.4499	56.4499	0.0547	0.0000	57.8175
Energy	0.0834	0.7127	0.3033	4.5500e-003		0.0576	0.0576		0.0576	0.0576		909.8860	909.8860	0.0174	0.0167	915.2930
Mobile	3.4265	12.9771	33.6162	0.1078	8.7827	0.0899	8.8726	2.3474	0.0840	2.4314		10,956.0288	10,956.0288	0.5993		10,971.0103
Total	14.0596	14.0525	65.3381	0.1140	8.7827	0.3207	9.1034	2.3474	0.3148	2.6622	0.0000	11,922.3647	11,922.3647	0.6714	0.0167	11,944.1207

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	10.5497	0.3627	31.4186	1.6600e-003		0.1732	0.1732		0.1732	0.1732	0.0000	56.4499	56.4499	0.0547	0.0000	57.8175
Energy	0.0834	0.7127	0.3033	4.5500e-003		0.0576	0.0576		0.0576	0.0576		909.8860	909.8860	0.0174	0.0167	915.2930
Mobile	3.4265	12.9771	33.6162	0.1078	8.7827	0.0899	8.8726	2.3474	0.0840	2.4314		10,956.0288	10,956.0288	0.5993		10,971.0103
Total	14.0596	14.0525	65.3381	0.1140	8.7827	0.3207	9.1034	2.3474	0.3148	2.6622	0.0000	11,922.3647	11,922.3647	0.6714	0.0167	11,944.1207

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2020	1/14/2020	5	10	
2	Grading	Grading	1/15/2020	2/25/2020	5	30	
3	Building Construction	Building Construction	2/26/2020	4/20/2021	5	300	
4	Paving	Paving	4/21/2021	5/18/2021	5	20	
5	Architectural Coating	Architectural Coating	9/23/2020	4/20/2021	5	150	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 75

Acres of Paving: 0

Residential Indoor: 769,500; Residential Outdoor: 256,500; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

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

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	274.00	41.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	55.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

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3.1 Mitigation Measures Construction

3.2 Site Preparation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216		3,685.1016	3,685.1016	1.1918		3,714.8975
Total	4.0765	42.4173	21.5136	0.0380	18.0663	2.1974	20.2637	9.9307	2.0216	11.9523		3,685.1016	3,685.1016	1.1918		3,714.8975

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0661	0.0445	0.5102	1.5200e-003	0.1479	1.0400e-003	0.1489	0.0392	9.6000e-004	0.0402		151.6945	151.6945	4.5300e-003		151.8077
Total	0.0661	0.0445	0.5102	1.5200e-003	0.1479	1.0400e-003	0.1489	0.0392	9.6000e-004	0.0402		151.6945	151.6945	4.5300e-003		151.8077

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3.2 Site Preparation - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216	0.0000	3,685.1016	3,685.1016	1.1918		3,714.8975
Total	4.0765	42.4173	21.5136	0.0380	18.0663	2.1974	20.2637	9.9307	2.0216	11.9523	0.0000	3,685.1016	3,685.1016	1.1918		3,714.8975

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0661	0.0445	0.5102	1.5200e-003	0.1479	1.0400e-003	0.1489	0.0392	9.6000e-004	0.0402		151.6945	151.6945	4.5300e-003		151.8077
Total	0.0661	0.0445	0.5102	1.5200e-003	0.1479	1.0400e-003	0.1489	0.0392	9.6000e-004	0.0402		151.6945	151.6945	4.5300e-003		151.8077

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3.3 Grading - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	4.4501	50.1975	31.9583	0.0620		2.1739	2.1739		2.0000	2.0000		6,005.8653	6,005.8653	1.9424		6,054.4257
Total	4.4501	50.1975	31.9583	0.0620	8.6733	2.1739	10.8472	3.5965	2.0000	5.5965		6,005.8653	6,005.8653	1.9424		6,054.4257

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0734	0.0495	0.5669	1.6900e-003	0.1643	1.1500e-003	0.1655	0.0436	1.0600e-003	0.0446		168.5494	168.5494	5.0300e-003		168.6752
Total	0.0734	0.0495	0.5669	1.6900e-003	0.1643	1.1500e-003	0.1655	0.0436	1.0600e-003	0.0446		168.5494	168.5494	5.0300e-003		168.6752

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3.3 Grading - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	4.4501	50.1975	31.9583	0.0620		2.1739	2.1739		2.0000	2.0000	0.0000	6,005.8653	6,005.8653	1.9424		6,054.4257
Total	4.4501	50.1975	31.9583	0.0620	8.6733	2.1739	10.8472	3.5965	2.0000	5.5965	0.0000	6,005.8653	6,005.8653	1.9424		6,054.4257

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0734	0.0495	0.5669	1.6900e-003	0.1643	1.1500e-003	0.1655	0.0436	1.0600e-003	0.0446		168.5494	168.5494	5.0300e-003		168.6752
Total	0.0734	0.0495	0.5669	1.6900e-003	0.1643	1.1500e-003	0.1655	0.0436	1.0600e-003	0.0446		168.5494	168.5494	5.0300e-003		168.6752

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3.4 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503		2,553.063 1	2,553.063 1	0.6229		2,568.634 5
Total	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503		2,553.063 1	2,553.063 1	0.6229		2,568.634 5

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1532	4.6231	1.1778	0.0112	0.2776	0.0226	0.3002	0.0799	0.0216	0.1015		1,205.564 3	1,205.564 3	0.0889		1,207.787 7
Worker	1.0055	0.6774	7.7668	0.0232	2.2509	0.0158	2.2666	0.5970	0.0146	0.6116		2,309.126 9	2,309.126 9	0.0690		2,310.850 7
Total	1.1587	5.3005	8.9446	0.0344	2.5284	0.0384	2.5668	0.6769	0.0362	0.7131		3,514.691 3	3,514.691 3	0.1579		3,518.638 4

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3.4 Building Construction - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503	0.0000	2,553.063 1	2,553.063 1	0.6229		2,568.634 5
Total	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503	0.0000	2,553.063 1	2,553.063 1	0.6229		2,568.634 5

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1532	4.6231	1.1778	0.0112	0.2776	0.0226	0.3002	0.0799	0.0216	0.1015		1,205.564 3	1,205.564 3	0.0889		1,207.787 7
Worker	1.0055	0.6774	7.7668	0.0232	2.2509	0.0158	2.2666	0.5970	0.0146	0.6116		2,309.126 9	2,309.126 9	0.0690		2,310.850 7
Total	1.1587	5.3005	8.9446	0.0344	2.5284	0.0384	2.5668	0.6769	0.0362	0.7131		3,514.691 3	3,514.691 3	0.1579		3,518.638 4

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3.4 Building Construction - 2021

Unmitigated Construction On-Site

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

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1240	4.1750	1.0640	0.0111	0.2776	8.7700e-003	0.2863	0.0799	8.3900e-003	0.0883		1,194.5430	1,194.5430	0.0854		1,196.6768
Worker	0.9477	0.6157	7.2675	0.0224	2.2509	0.0156	2.2664	0.5970	0.0143	0.6114		2,231.5680	2,231.5680	0.0637		2,233.1602
Total	1.0717	4.7908	8.3315	0.0335	2.5284	0.0243	2.5527	0.6769	0.0227	0.6996		3,426.1110	3,426.1110	0.1490		3,429.8370

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3.4 Building Construction - 2021

Mitigated Construction On-Site

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

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1240	4.1750	1.0640	0.0111	0.2776	8.7700e-003	0.2863	0.0799	8.3900e-003	0.0883		1,194.5430	1,194.5430	0.0854		1,196.6768
Worker	0.9477	0.6157	7.2675	0.0224	2.2509	0.0156	2.2664	0.5970	0.0143	0.6114		2,231.5680	2,231.5680	0.0637		2,233.1602
Total	1.0717	4.7908	8.3315	0.0335	2.5284	0.0243	2.5527	0.6769	0.0227	0.6996		3,426.1110	3,426.1110	0.1490		3,429.8370

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3.5 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235		2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235		2,207.2109	2,207.2109	0.7139		2,225.0573

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0519	0.0337	0.3979	1.2300e-003	0.1232	8.5000e-004	0.1241	0.0327	7.8000e-004	0.0335		122.1661	122.1661	3.4900e-003		122.2533
Total	0.0519	0.0337	0.3979	1.2300e-003	0.1232	8.5000e-004	0.1241	0.0327	7.8000e-004	0.0335		122.1661	122.1661	3.4900e-003		122.2533

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3.5 Paving - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235	0.0000	2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235	0.0000	2,207.2109	2,207.2109	0.7139		2,225.0573

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0519	0.0337	0.3979	1.2300e-003	0.1232	8.5000e-004	0.1241	0.0327	7.8000e-004	0.0335		122.1661	122.1661	3.4900e-003		122.2533
Total	0.0519	0.0337	0.3979	1.2300e-003	0.1232	8.5000e-004	0.1241	0.0327	7.8000e-004	0.0335		122.1661	122.1661	3.4900e-003		122.2533

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3.6 Architectural Coating - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	35.6663					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109		281.4481	281.4481	0.0218		281.9928
Total	35.9085	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109		281.4481	281.4481	0.0218		281.9928

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2018	0.1360	1.5590	4.6500e-003	0.4518	3.1700e-003	0.4550	0.1198	2.9200e-003	0.1228		463.5109	463.5109	0.0138		463.8569
Total	0.2018	0.1360	1.5590	4.6500e-003	0.4518	3.1700e-003	0.4550	0.1198	2.9200e-003	0.1228		463.5109	463.5109	0.0138		463.8569

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3.6 Architectural Coating - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	35.6663					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109	0.0000	281.4481	281.4481	0.0218		281.9928
Total	35.9085	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109	0.0000	281.4481	281.4481	0.0218		281.9928

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2018	0.1360	1.5590	4.6500e-003	0.4518	3.1700e-003	0.4550	0.1198	2.9200e-003	0.1228		463.5109	463.5109	0.0138		463.8569
Total	0.2018	0.1360	1.5590	4.6500e-003	0.4518	3.1700e-003	0.4550	0.1198	2.9200e-003	0.1228		463.5109	463.5109	0.0138		463.8569

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3.6 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	35.6663					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309
Total	35.8852	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1902	0.1236	1.4588	4.4900e-003	0.4518	3.1200e-003	0.4549	0.1198	2.8700e-003	0.1227		447.9425	447.9425	0.0128		448.2621
Total	0.1902	0.1236	1.4588	4.4900e-003	0.4518	3.1200e-003	0.4549	0.1198	2.8700e-003	0.1227		447.9425	447.9425	0.0128		448.2621

8575 Bella Mar - San Diego County APCD Air District, Summer

3.6 Architectural Coating - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	35.6663					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309
Total	35.8852	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1902	0.1236	1.4588	4.4900e-003	0.4518	3.1200e-003	0.4549	0.1198	2.8700e-003	0.1227		447.9425	447.9425	0.0128		448.2621
Total	0.1902	0.1236	1.4588	4.4900e-003	0.4518	3.1200e-003	0.4549	0.1198	2.8700e-003	0.1227		447.9425	447.9425	0.0128		448.2621

4.0 Operational Detail - Mobile

8575 Bella Mar - San Diego County APCD Air District, Summer

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	3.4265	12.9771	33.6162	0.1078	8.7827	0.0899	8.8726	2.3474	0.0840	2.4314		10,956.0288	10,956.0288	0.5993		10,971.0103
Unmitigated	3.4265	12.9771	33.6162	0.1078	8.7827	0.0899	8.8726	2.3474	0.0840	2.4314		10,956.0288	10,956.0288	0.5993		10,971.0103

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	2,280.00	2,280.00	2280.00	4,141,923	4,141,923
Total	2,280.00	2,280.00	2,280.00	4,141,923	4,141,923

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	5.62	5.62	5.62	41.60	18.80	39.60	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.593936	0.041843	0.182569	0.108325	0.016436	0.005513	0.015940	0.023523	0.001912	0.001972	0.006090	0.000748	0.001193

8575 Bella Mar - San Diego County APCD Air District, Summer

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0834	0.7127	0.3033	4.5500e-003		0.0576	0.0576		0.0576	0.0576		909.8860	909.8860	0.0174	0.0167	915.2930
NaturalGas Unmitigated	0.0834	0.7127	0.3033	4.5500e-003		0.0576	0.0576		0.0576	0.0576		909.8860	909.8860	0.0174	0.0167	915.2930

8575 Bella Mar - San Diego County APCD Air District, Summer

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	7734.03	0.0834	0.7127	0.3033	4.5500e-003		0.0576	0.0576		0.0576	0.0576		909.8860	909.8860	0.0174	0.0167	915.2930
Total		0.0834	0.7127	0.3033	4.5500e-003		0.0576	0.0576		0.0576	0.0576		909.8860	909.8860	0.0174	0.0167	915.2930

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	7.73403	0.0834	0.7127	0.3033	4.5500e-003		0.0576	0.0576		0.0576	0.0576		909.8860	909.8860	0.0174	0.0167	915.2930
Total		0.0834	0.7127	0.3033	4.5500e-003		0.0576	0.0576		0.0576	0.0576		909.8860	909.8860	0.0174	0.0167	915.2930

6.0 Area Detail

6.1 Mitigation Measures Area

8575 Bella Mar - San Diego County APCD Air District, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	10.5497	0.3627	31.4186	1.6600e-003		0.1732	0.1732		0.1732	0.1732	0.0000	56.4499	56.4499	0.0547	0.0000	57.8175
Unmitigated	10.5497	0.3627	31.4186	1.6600e-003		0.1732	0.1732		0.1732	0.1732	0.0000	56.4499	56.4499	0.0547	0.0000	57.8175

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.4657					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	8.1320					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.9519	0.3627	31.4186	1.6600e-003		0.1732	0.1732		0.1732	0.1732		56.4499	56.4499	0.0547		57.8175
Total	10.5497	0.3627	31.4186	1.6600e-003		0.1732	0.1732		0.1732	0.1732	0.0000	56.4499	56.4499	0.0547	0.0000	57.8175

8575 Bella Mar - San Diego County APCD Air District, Summer

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.4657					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	8.1320					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.9519	0.3627	31.4186	1.6600e-003		0.1732	0.1732		0.1732	0.1732		56.4499	56.4499	0.0547		57.8175
Total	10.5497	0.3627	31.4186	1.6600e-003		0.1732	0.1732		0.1732	0.1732	0.0000	56.4499	56.4499	0.0547	0.0000	57.8175

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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8575 Bella Mar - San Diego County APCD Air District, Summer

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

ATTACHMENT 2
Health Risk Assessment Calculations

Off-Site Maximum

3.985E-02

Maximum Exposure in Model	3rd Trimester	0<2	2<9	2<16	16<30	16-70
Cair	3.99E-02	3.99E-02	3.99E-02	3.99E-02	3.99E-02	3.99E-02
DBR	361	1090	861	745	335	290
A	1	1	1	1	1	1
EF	0.96	0.96	0.96	0.96	0.96	0.96
Dose-air	1.38E-05	4.17E-05	3.29E-05	2.85E-05	1.28E-05	1.11E-05
CPF	1.10	1.10	1.10	1.10	1.10	1.10
ASF	10	10	3	3	1	1
ED	0.25	2	7	14	14	54
AT	70	70	70	70	70	70
FAH	0.85	0.85	0.72	0.72	0.73	0.73
Risk in 1 mill	0.46	11.14	7.83	13.54	2.06	6.87
	5.00	5.00	5.00	5.00	5.00	5.00
Chronic Exposure	0.0080	0.0080	0.0080	0.0080	0.0080	0.0080
0-9	19.43	9.25				
0-30	27.20	30.25				
0-70	32.02	70.25				

On-Site Maximum

2.051E-02

Onsite Maximum Exposure	3rd Trimester	0<2	2<9	2<16	16<30	16-70
Cair	2.05E-02	2.05E-02	2.05E-02	2.05E-02	2.05E-02	2.05E-02
DBR	361	1090	861	745	335	290
A	1	1	1	1	1	1
EF	0.96	0.96	0.96	0.96	0.96	0.96
Dose-air	7.11E-06	2.15E-05	1.70E-05	1.47E-05	6.60E-06	5.71E-06
CPF	1.10	1.10	1.10	1.10	1.10	1.10
ASF	10	10	3	3	1	1
ED	0.25	2	7	14	14	54
AT	70	70	70	70	70	70
FAH	0.85	0.85	0.72	0.72	0.73	0.73
Risk in 1 mill	0.24	5.73	4.03	6.97	1.06	3.54
	5.00	5.00	5.00	5.00	5.00	5.00
Chronic Exposure	0.0041	0.0041	0.0041	0.0041	0.0041	0.0041
0-9	10.00	9.25				
0-30	14.00	30.25				
0-70	16.48	70.25				

Receptor	X	Y	Concentration	30-year Cancer Risk	Chronic Exposure
1	491840.34	3605601.12	0.01941	13.25	0.0039
2	491837.28	3605624.40	0.01929	13.17	0.0039
3	491834.56	3605656.52	0.01943	13.26	0.0039
4	491824.60	3605669.20	0.02043	13.95	0.0041
5	491821.87	3605685.74	0.02044	13.95	0.0041
6	491819.46	3605702.44	0.02051	14.00	0.0041
7	491853.66	3605715.12	0.01676	11.44	0.0034
8	491874.21	3605715.28	0.01513	10.33	0.0030
9	491894.45	3605715.44	0.01398	9.54	0.0028
10	491943.10	3605720.58	0.01171	7.99	0.0023
11	492003.31	3605720.90	0.00981	6.70	0.0020
12	492061.75	3605721.70	0.00853	5.82	0.0017
13	492095.15	3605665.99	0.00803	5.48	0.0016
14	492077.01	3605609.15	0.00844	5.76	0.0017
15	492042.33	3605597.75	0.00922	6.29	0.0018
16	492006.68	3605597.75	0.01011	6.90	0.0020
17	491974.57	3605597.75	0.01105	7.54	0.0022
18	491942.29	3605597.91	0.01229	8.39	0.0025
19	491911.95	3605608.19	0.01369	9.35	0.0027
20	491865.70	3605588.76	0.01689	11.53	0.0034
21	491864.74	3605679.96	0.01618	11.04	0.0032
22	492023.70	3605672.89	0.00948	6.47	0.0019

File Name: San Diego (SD) - 2020 - Annual.EC
 CT-EMFAC Version: 6.0.0.29548
 Run Date: 5/30/2019 10:17
 Area: San Diego (SD)
 Analysis Year: 2020
 Season: Annual

Vehicle Category	VMT Fraction Across Category	Diesel VMT Fraction Within Category
Truck 1	0.024	0.578
Truck 2	0.014	0.949
Non-Truck	0.962	0.013

Road Length: 0.0346 miles
 Volume: 150,300 vehicles per hour
 Number of Hours: 24 hours
 Avg. Idling Time: 0 minutes per vehicle
 Tot. Idling Time: 0 hours

VMT Distribution by Speed (mph):

5	0.00%
10	0.00%
15	0.00%
20	0.00%
25	0.00%
30	0.00%
35	0.00%
40	0.00%
45	0.00%
50	0.00%
55	100.00%
60	0.00%
65	0.00%
70	0.00%
75	0.00%

Summary of Project Emissions

Pollutant Name	Running Exhaust (grams)	Idling Exhaust (grams)	Running Loss (grams)	Tire Wear (grams)	Brake Wear (grams)	Total (grams)	Total (US tons)
HC	4,467.30	0	3,548.20	-	-	8,015.50	0.009
ROG	3,575.90	0	3,793.50	-	-	7,369.40	0.008
TOG	4,902.80	0	3,793.50	-	-	8,696.30	0.01
CO	99,222.30	0	-	-	-	99,222.30	0.109
NOx	24,087.70	0	-	-	-	24,087.70	0.027
CO2	37,489,262.90	0	-	-	-	37,489,262.90	41.325
CH4	1,147.20	0	-	-	-	1,147.20	0.001
PM10	278.3	0	-	1,037.00	5,037.40	6,352.80	0.007
PM2.5	260.6	0	-	259.2	2,158.90	2,678.80	0.003
Benzene	116.4	0	37.9	-	-	154.4	<0.001
Acrolein	5.6	0	-	-	-	5.6	<0.001
Acetaldehyde	55.2	0	-	-	-	55.2	<0.001
Formaldehyde	150.3	0	-	-	-	150.3	<0.001
Butadiene	25.3	0	0	-	-	25.3	<0.001
Naphthalene	3.2	0	5.3	-	-	8.6	<0.001
POM	4.7	0	-	-	-	4.7	<0.001
Diesel PM	123.7	0	-	-	-	123.7	<0.001
DEOG	496	0	-	-	-	496	<0.001

=====-END-=====

File Name: San Diego (SD) - 2020 - Annual EF
 CT-EMFAC Version: 6.0.0.29548
 Run Date: 5/30/2019 10:10
 Area: San Diego (SD)
 Analysis Year: 2020
 Season: Annual

Vehicle Category	VMT Fraction Across Category	Diesel VMT Fraction Within Category
Truck 1	0.024	0.578
Truck 2	0.014	0.349
Non-Truck	0.962	0.013

Fleet Average Running Exhaust Emission Factors (grams/veh-mile)

Pollutant Name	5 mph	10 mph	15 mph	20 mph	25 mph	30 mph	35 mph	40 mph	45 mph	50 mph	55 mph	60 mph	65 mph	70 mph	75 mph
HC	0.307827	0.203492	0.133894	0.092275	0.069137	0.054764	0.045809	0.039709	0.036427	0.035178	0.035793	0.038436	0.043475	0.047258	0.047258
ROG	0.238098	0.157109	0.104775	0.07328	0.055604	0.043658	0.036326	0.031739	0.029148	0.028163	0.028651	0.030761	0.034792	0.03775	0.03775
TOG	0.340559	0.225915	0.148341	0.101935	0.076339	0.060452	0.050198	0.04375	0.040081	0.038655	0.039282	0.042156	0.047663	0.051806	0.051806
CO	2.052452	1.758933	1.51327	1.32934	1.194065	1.086495	0.998574	0.926823	0.869274	0.82517	0.794992	0.781159	0.787943	0.801686	0.801686
NOx	0.490984	0.414222	0.325642	0.268292	0.235709	0.217046	0.205139	0.19756	0.193486	0.192029	0.192996	0.196884	0.20341	0.207779	0.207779
CO2	1060.914429	801.767822	616.691101	495.590546	415.134949	360.522766	325.16925	302.993896	291.712769	291.096375	300.372772	320.169525	353.23587	375.709961	375.709961
CH4	0.089504	0.060115	0.037887	0.024783	0.018382	0.014509	0.011983	0.010375	0.009444	0.009066	0.009192	0.009856	0.011137	0.012173	0.012173
PM10	0.014342	0.009605	0.006629	0.0048	0.003706	0.003023	0.002588	0.002324	0.002189	0.002161	0.002223	0.002383	0.00263	0.002827	0.002827
PM2.5	0.013308	0.008928	0.005168	0.004469	0.003455	0.002821	0.002417	0.002173	0.002048	0.002022	0.002098	0.002231	0.002461	0.002645	0.002645
Benzene	0.007891	0.005221	0.003449	0.002386	0.001791	0.00142	0.001182	0.001032	0.000948	0.000917	0.000933	0.001	0.001128	0.001128	0.001128
Acrolein	0.000355	0.000228	0.000155	0.000111	0.000084	0.000067	0.000056	0.000049	0.000045	0.000044	0.000045	0.000049	0.000055	0.000055	0.000055
Acetaldehyde	0.005471	0.004028	0.002378	0.001402	0.001027	0.00081	0.000658	0.000554	0.000486	0.000449	0.000442	0.000459	0.000501	0.000501	0.000501
Formaldehyde	0.013493	0.009699	0.005871	0.003601	0.002655	0.002096	0.001714	0.001456	0.001295	0.001212	0.001204	0.001263	0.001393	0.001393	0.001393
Butadiene	0.001642	0.001072	0.000719	0.000507	0.000382	0.000303	0.000253	0.000222	0.000205	0.000199	0.000203	0.000218	0.000247	0.000247	0.000247
Naphthalene	0.000222	0.000149	0.000097	0.000066	0.00005	0.000039	0.000033	0.000029	0.000026	0.000025	0.000026	0.000027	0.000031	0.000031	0.000031
POM	0.000351	0.000239	0.000151	0.000099	0.000074	0.000059	0.000049	0.000042	0.000039	0.000037	0.000038	0.00004	0.000045	0.000045	0.000045
Diesel PM	0.003178	0.002542	0.001916	0.001484	0.001246	0.001098	0.001001	0.000946	0.000927	0.000942	0.000991	0.001036	0.001076	0.001076	0.001076
DEOG	0.058973	0.044807	0.025541	0.01418	0.01027	0.00807	0.006477	0.005344	0.004579	0.004124	0.003974	0.004047	0.004318	0.004318	0.004318

Fleet Average Idling Exhaust Emission Factors (grams/veh-idle hour)

Pollutant Name	Emission Factor
HC	0.934755
ROG	0.725108
TOG	1.031705
CO	6.421854
NOx	2.091417
CO2	2673.546387
CH4	0.265994
PM10	0.043347
PM2.5	0.040446
Benzene	0.023507
Acrolein	0.001165
Acetaldehyde	0.013586
Formaldehyde	0.035163
Butadiene	0.004956
Naphthalene	0.000623
POM	0.001002
Diesel PM	0.015675
DEOG	0.140043

Fleet Average Running Loss Emission Factors (grams/veh-hour)

Pollutant Name	Emission Factor
HC	1.492544
ROG	1.595722
TOG	1.595722
Benzene	0.015957
Butadiene	0
Naphthalene	0.002234

Fleet Average Tire Wear Factors (grams/veh-mile)

Pollutant Name	Emission Factor
PM10	0.008309
PM2.5	0.002077

Fleet Average Brake Wear Factors (grams/veh-mile)

Pollutant Name	Emission Factor
PM10	0.040361
PM2.5	0.017298

END

File Name: San Diego (SD) - 2035 - Annual.EC
 CT-EMFAC Version: 6.0.0.29548
 Run Date: 5/30/2019 10:18
 Area: San Diego (SD)
 Analysis Year: 2035
 Season: Annual

Vehicle Category	VMT Fraction	Diesel VMT Fraction
	Across Category	Within Category
Truck 1	0.024	0.684
Truck 2	0.014	0.95
Non-Truck	0.962	0.013

Road Length: 0.0346 miles
 Volume: 150,300 vehicles per hour
 Number of Hours: 24 hours
 Avg. Idling Time: 0 minutes per vehicle
 Tot. Idling Time: 0 hours

VMT Distribution by Speed (mph):

5	0.00%
10	0.00%
15	0.00%
20	0.00%
25	0.00%
30	0.00%
35	0.00%
40	0.00%
45	0.00%
50	0.00%
55	100.00%
60	0.00%
65	0.00%
70	0.00%
75	0.00%

Summary of Project Emissions

Pollutant Name	Running Exhaust (grams)	Idling Exhaust (grams)	Running Loss (grams)	Tire Wear (grams)	Brake Wear (grams)	Total (grams)	Total (US tons)
HC	2,560.70	0	1,768.60	-	-	4,329.30	0.005
ROG	2,062.30	0	1,890.90	-	-	3,953.20	0.004
TOG	2,791.00	0	1,890.90	-	-	4,681.80	0.005
CO	50,662.30	0	-	-	-	50,662.30	0.056
NOx	6,958.70	0	-	-	-	6,958.70	0.008
CO2	24,952,500.90	0	-	-	-	24,952,500.90	27.505
CH4	630.5	0	-	-	-	630.5	<0.001
PM10	104.2	0	-	1,037.80	4,995.10	6,137.10	0.007
PM2.5	96.9	0	-	259.5	2,140.70	2,497.10	0.003
Benzene	67.6	0	18.9	-	-	86.6	<0.001
Acrolein	3.4	0	-	-	-	3.4	<0.001
Acetaldehyde	25.8	0	-	-	-	25.8	<0.001
Formaldehyde	75.5	0	-	-	-	75.5	<0.001
Butadiene	15	0	0	-	-	15	<0.001
Naphthalene	1.9	0	2.6	-	-	4.5	<0.001
POM	2.4	0	-	-	-	2.4	<0.001
Diesel PM	25.6	0	-	-	-	25.6	<0.001
DEOG	194.5	0	-	-	-	194.5	<0.001

=====-END=-=====

File Name: San Diego (SD) - 2035 - Annual, EF
 CT-EMFAC Version: 6.0.0.29548
 Run Date: 5/30/2019 10:12
 Area: San Diego (SD)
 Analysis Year: 2035
 Season: Annual

Vehicle Category	VMT Fraction Across Category	Diesel VMT Fraction Within Category
Truck 1	0.024	0.864
Truck 2	0.014	0.95
Non-Truck	0.962	0.013

Fleet Average Running Exhaust Emission Factors (grams/veh-mile)

Pollutant Name	5 mph	10 mph	15 mph	20 mph	25 mph	30 mph	35 mph	40 mph	45 mph	50 mph	55 mph	60 mph	65 mph	70 mph	75 mph
HC	0.186841	0.123069	0.080482	0.055022	0.040835	0.032104	0.02652	0.023029	0.021037	0.020237	0.020517	0.022	0.0249	0.02702	0.02702
ROG	0.147583	0.09702	0.063751	0.043831	0.032584	0.025647	0.02122	0.018459	0.016894	0.016278	0.016524	0.017732	0.020079	0.021782	0.021782
TOG	0.206725	0.136683	0.089048	0.060568	0.044885	0.035261	0.029095	0.025227	0.023007	0.022094	0.022362	0.023956	0.027097	0.029396	0.029396
CO	1.109398	0.951957	0.804243	0.697095	0.624579	0.567767	0.520927	0.482141	0.450294	0.42487	0.409918	0.394621	0.392587	0.395913	0.395913
NOx	0.31851	0.252812	0.174216	0.121886	0.090816	0.075522	0.066738	0.061391	0.058154	0.056385	0.055755	0.056496	0.058396	0.059664	0.059664
CO2	693.675842	527.207886	405.208893	326.403259	274.419434	239.110748	216.439713	202.035782	194.547638	194.08165	199.925293	212.401611	233.356225	247.537933	247.537933
CH4	0.05134	0.034433	0.021942	0.014502	0.010657	0.008327	0.00682	0.005899	0.005291	0.005033	0.005082	0.005386	0.006073	0.006589	0.006589
PM10	0.006499	0.004246	0.0029	0.002084	0.001582	0.001256	0.001063	0.000935	0.000861	0.000829	0.000835	0.000885	0.000986	0.001063	0.001063
PM2.5	0.006002	0.003926	0.002585	0.001931	0.001467	0.001175	0.000987	0.000869	0.0008	0.00077	0.000776	0.000822	0.000915	0.000996	0.000996
Benzene	0.004854	0.003198	0.002097	0.001438	0.001069	0.000842	0.000696	0.000606	0.000554	0.000534	0.000542	0.000582	0.00066	0.00066	0.00066
Acrolein	0.000219	0.00014	0.000095	0.000067	0.000051	0.00004	0.000033	0.000029	0.000027	0.000026	0.000027	0.000029	0.000033	0.000033	0.000033
Acetaldehyde	0.003367	0.002488	0.00145	0.000831	0.000586	0.000449	0.000355	0.00029	0.000246	0.000218	0.000207	0.000212	0.00023	0.00023	0.00023
Formaldehyde	0.008289	0.005971	0.003572	0.002138	0.001529	0.00118	0.000945	0.000787	0.000683	0.000622	0.000605	0.000603	0.000693	0.000693	0.000693
Butadiene	0.001015	0.000659	0.000439	0.000308	0.00023	0.000182	0.000151	0.000132	0.000122	0.000118	0.00012	0.00012	0.000147	0.000147	0.000147
Naphthalene	0.000139	0.000094	0.00006	0.000041	0.00003	0.000024	0.00002	0.000017	0.000015	0.000015	0.000015	0.000016	0.000018	0.000018	0.000018
POM	0.000186	0.000125	0.00008	0.000053	0.000039	0.00003	0.000025	0.000021	0.000019	0.000019	0.000019	0.00002	0.000022	0.000022	0.000022
Diesel PM	0.000887	0.000586	0.000469	0.000381	0.000323	0.000284	0.000256	0.000235	0.00022	0.000211	0.000205	0.000206	0.000214	0.000214	0.000214
DEOG	0.035888	0.02748	0.015421	0.008218	0.00644	0.004258	0.003284	0.002587	0.002089	0.001738	0.001558	0.001526	0.00157	0.00157	0.00157

Fleet Average Idling Exhaust Emission Factors (grams/veh-idle hour)

Pollutant Name	Emission Factor
HC	0.557386
ROG	0.450014
TOG	0.620487
CO	3.800225
NOx	1.135149
CO2	1755.025024
CH4	0.145876
PM10	0.023516
PM2.5	0.021955
Benzene	0.014258
Acrolein	0.000727
Acetaldehyde	0.009164
Formaldehyde	0.023049
Butadiene	0.00297
Naphthalene	0.000394
POM	0.000545
Diesel PM	0.009144
DEOG	0.096742

Fleet Average Running Loss Emission Factors (grams/veh-hour)

Pollutant Name	Emission Factor
HC	0.74395
ROG	0.795379
TOG	0.795379
Benzene	0.007954
Butadiene	0
Naphthalene	0.001114

Fleet Average Tire Wear Factors (grams/veh-mile)

Pollutant Name	Emission Factor
PM10	0.008315
PM2.5	0.002079

Fleet Average Brake Wear Factors (grams/veh-mile)

Pollutant Name	Emission Factor
PM10	0.040022
PM2.5	0.017152

END

File Name: San Diego (SD) - 2050 - Annual.EC
 CT-EMFAC Version: 6.0.0.29548
 Run Date: 5/30/2019 10:19
 Area: San Diego (SD)
 Analysis Year: 2050
 Season: Annual

Vehicle Category	VMT Fraction	Diesel VMT Fraction
	Across Category	Within Category
Truck 1	0.024	0.698
Truck 2	0.014	0.955
Non-Truck	0.962	0.013

Road Length: 0.0346 miles
 Volume: 150,300 vehicles per hour
 Number of Hours: 24 hours
 Avg. Idling Time: 0 minutes per vehicle
 Tot. Idling Time: 0 hours

VMT Distribution by Speed (mph):

5	0.00%
10	0.00%
15	0.00%
20	0.00%
25	0.00%
30	0.00%
35	0.00%
40	0.00%
45	0.00%
50	0.00%
55	100.00%
60	0.00%
65	0.00%
70	0.00%
75	0.00%

Summary of Project Emissions

Pollutant Name	Running Exhaust (grams)	Idling Exhaust (grams)	Running Loss (grams)	Tire Wear (grams)	Brake Wear (grams)	Total (grams)	Total (US tons)
HC	2,377.10	0	1,340.50	-	-	3,717.60	0.004
ROG	1,925.40	0	1,433.10	-	-	3,358.60	0.004
TOG	2,586.50	0	1,433.10	-	-	4,019.70	0.004
CO	44,849.40	0	-	-	-	44,849.40	0.049
NOx	5,128.80	0	-	-	-	5,128.80	0.006
CO2	23,762,748.20	0	-	-	-	23,762,748.20	26.194
CH4	571	0	-	-	-	571	<0.001
PM10	70.9	0	-	1,038.00	4,990.20	6,099.20	0.007
PM2.5	65.9	0	-	259.5	2,138.70	2,464.10	0.003
Benzene	63.2	0	14.3	-	-	77.5	<0.001
Acrolein	3.2	0	-	-	-	3.2	<0.001
Acetaldehyde	22.1	0	-	-	-	22.1	<0.001
Formaldehyde	66.5	0	-	-	-	66.5	<0.001
Butadiene	14.1	0	0	-	-	14.1	<0.001
Naphthalene	1.7	0	2	-	-	3.8	<0.001
POM	2	0	-	-	-	2	<0.001
Diesel PM	17.7	0	-	-	-	17.7	<0.001
DEOG	150.5	0	-	-	-	150.5	<0.001

=====-END=-=====

File Name: San Diego (SD) - 2050 - Annual, EF
 CT-EMFAC Version: 6.0.0.29548
 Run Date: 5/30/2019 10:13
 Area: San Diego (SD)
 Analysis Year: 2050
 Season: Annual

Vehicle Category	VMT Fraction Across Category	Diesel VMT Fraction Within Category
Truck 1	0.024	0.998
Truck 2	0.014	0.955
Non-Truck	0.962	0.013

Fleet Average Running Exhaust Emission Factors (grams/veh-mile)

Pollutant Name	5 mph	10 mph	15 mph	20 mph	25 mph	30 mph	35 mph	40 mph	45 mph	50 mph	55 mph	60 mph	65 mph	70 mph	75 mph
HC	0.174676	0.114976	0.07521	0.051417	0.038104	0.029922	0.024699	0.021433	0.019567	0.018807	0.019046	0.020408	0.02309	0.025029	0.025029
ROG	0.13965	0.091848	0.060192	0.041247	0.030608	0.024064	0.019891	0.017287	0.015805	0.015214	0.015427	0.016544	0.018728	0.020305	0.020305
TOG	0.193392	0.12781	0.083249	0.056586	0.041862	0.032843	0.027075	0.023457	0.021374	0.020503	0.020724	0.022179	0.025074	0.027168	0.027168
CO	1.00405	0.856125	0.718828	0.619116	0.553471	0.502601	0.46085	0.425409	0.398238	0.375664	0.359344	0.349828	0.348811	0.352235	0.352235
NOx	0.301664	0.237015	0.159366	0.107384	0.076314	0.0612	0.052557	0.047255	0.043954	0.042011	0.041093	0.041412	0.042753	0.043659	0.043659
CO2	658.727905	501.070801	385.115906	310.319794	261.027405	227.596252	206.15506	192.481552	185.390442	184.935043	190.392715	202.114075	221.912415	235.306046	235.306046
CH4	0.046426	0.031052	0.019917	0.013259	0.009728	0.007587	0.006208	0.005331	0.004811	0.004569	0.004575	0.004867	0.005483	0.005929	0.005929
PM10	0.004312	0.002824	0.001945	0.001412	0.001079	0.000868	0.000732	0.000646	0.000594	0.000568	0.000568	0.000596	0.000658	0.000703	0.000703
PM2.5	0.003998	0.00261	0.0018	0.001308	0.001001	0.000806	0.000698	0.0006	0.000552	0.000528	0.000528	0.000554	0.00061	0.000652	0.000652
Benzene	0.004568	0.003008	0.001972	0.001352	0.001003	0.000789	0.000652	0.000567	0.000518	0.000499	0.000506	0.000544	0.000617	0.000617	0.000617
Acrolein	0.000207	0.000132	0.000089	0.000064	0.000048	0.000038	0.000031	0.000028	0.000026	0.000025	0.000025	0.000028	0.000031	0.000031	0.000031
Acetaldehyde	0.003121	0.002308	0.001345	0.000767	0.000536	0.000407	0.00032	0.00026	0.000218	0.00019	0.000177	0.00018	0.000194	0.000194	0.000194
Formaldehyde	0.007705	0.005553	0.003321	0.001983	0.001408	0.001081	0.000861	0.000713	0.000615	0.000555	0.000533	0.000553	0.000607	0.000607	0.000607
Butadiene	0.000959	0.000622	0.000415	0.00029	0.000217	0.000171	0.000142	0.000124	0.000115	0.000111	0.000113	0.000122	0.000139	0.000139	0.000139
Naphthalene	0.000132	0.000088	0.000057	0.000038	0.000028	0.000022	0.000018	0.000016	0.000014	0.000014	0.000014	0.000015	0.000017	0.000017	0.000017
POM	0.00016	0.000107	0.000069	0.000046	0.000034	0.000026	0.000022	0.000019	0.000017	0.000016	0.000016	0.000017	0.00002	0.00002	0.00002
Diesel PM	0.000375	0.000346	0.0003	0.000259	0.000227	0.000204	0.000186	0.000172	0.00016	0.00015	0.000142	0.000142	0.00014	0.00014	0.00014
DEOG	0.032946	0.025297	0.014164	0.007485	0.005067	0.003779	0.002878	0.002231	0.001758	0.001408	0.001206	0.001146	0.001146	0.001146	0.001146

Fleet Average Idling Exhaust Emission Factors (grams/veh-idle hour)

Pollutant Name	Emission Factor
HC	0.506674
ROG	0.415246
TOG	0.565494
CO	3.475973
NOx	0.88893
CO2	1667.046021
CH4	0.127642
PM10	0.016744
PM2.5	0.015691
Benzene	0.013128
Acrolein	0.000673
Acetaldehyde	0.008809
Formaldehyde	0.021888
Butadiene	0.002746
Naphthalene	0.000369
POM	0.000464
Diesel PM	0.007055
DEOG	0.093767

Fleet Average Running Loss Emission Factors (grams/veh-hour)

Pollutant Name	Emission Factor
HC	0.563857
ROG	0.602836
TOG	0.602836
Benzene	0.006028
Butadiene	0
Naphthalene	0.000844

Fleet Average Tire Wear Factors (grams/veh-mile)

Pollutant Name	Emission Factor
PM10	0.008317
PM2.5	0.002079

Fleet Average Brake Wear Factors (grams/veh-mile)

Pollutant Name	Emission Factor
PM10	0.039983
PM2.5	0.017136

END

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**
** AERMOD Input Produced by:
** AERMOD View Ver. 9.5.0
** Lakes Environmental Software Inc.
** Date: 5/30/2019
** File: C:\AERMOD\8575\Bella Mar I-5\Bella Mar I-5.ADI
**
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**
CO STARTING
  TITLEONE C:\AERMOD\8575\Bella Mar I-5\Bella Mar I-5.isc
  MODELOPT DFAULT CONC
  AVERTIME ANNUAL
  POLLUTID PM_2.5
  RUNORNOT RUN
  ERRORFIL "Bella Mar I-5.err"
CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
**
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE1
** DESCRSRC I-5
** PREFIX
** Length of Side = 8.44
** Configuration = Adjacent
** Emission Rate = 0.00064429
** Vertical Dimension = 7.26
** SZINIT = 3.38
** Nodes = 16
** 492717.600, 3603662.332, 33.37, 3.63, 3.93
** 492427.767, 3604114.020, 21.10, 3.63, 3.93
** 492351.936, 3604224.955, 19.94, 3.63, 3.93
** 492197.822, 3604418.041, 17.10, 3.63, 3.93
** 492064.965, 3604571.269, 15.84, 3.63, 3.93
** 492012.243, 3604635.563, 14.59, 3.63, 3.93
** 491946.041, 3604734.865, 14.18, 3.63, 3.93
** 491871.258, 3604870.947, 12.51, 3.63, 3.93
** 491807.508, 3605068.326, 11.10, 3.63, 3.93
** 491794.022, 3605139.432, 10.65, 3.63, 3.93
** 491787.893, 3605228.927, 9.58, 3.63, 3.93
** 491778.085, 3605445.921, 7.16, 3.63, 3.93
** 491697.820, 3606124.835, 4.00, 3.63, 3.93
** 491635.355, 3606634.537, 4.20, 3.63, 3.93
** 491603.478, 3606922.657, 4.14, 3.63, 3.93
** 491531.872, 3607663.114, 3.87, 3.63, 3.93
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LOCATION L0000001  VOLUME  492715.321 3603665.884 31.01
LOCATION L0000002  VOLUME  492710.763 3603672.987 30.66
LOCATION L0000003  VOLUME  492706.205 3603680.091 30.30
LOCATION L0000004  VOLUME  492701.647 3603687.194 29.94
LOCATION L0000005  VOLUME  492697.089 3603694.297 29.56
LOCATION L0000006  VOLUME  492692.531 3603701.401 29.17
LOCATION L0000007  VOLUME  492687.973 3603708.504 28.78
LOCATION L0000008  VOLUME  492683.415 3603715.607 28.40
LOCATION L0000009  VOLUME  492678.857 3603722.711 28.08
LOCATION L0000010  VOLUME  492674.299 3603729.814 27.77

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LOCATION L0000011	VOLUME	492669.741	3603736.918	27.47
LOCATION L0000012	VOLUME	492665.183	3603744.021	27.17
LOCATION L0000013	VOLUME	492660.625	3603751.124	26.89
LOCATION L0000014	VOLUME	492656.067	3603758.228	26.62
LOCATION L0000015	VOLUME	492651.509	3603765.331	26.35
LOCATION L0000016	VOLUME	492646.951	3603772.435	26.09
LOCATION L0000017	VOLUME	492642.393	3603779.538	25.80
LOCATION L0000018	VOLUME	492637.835	3603786.641	25.52
LOCATION L0000019	VOLUME	492633.277	3603793.745	25.23
LOCATION L0000020	VOLUME	492628.719	3603800.848	24.94
LOCATION L0000021	VOLUME	492624.161	3603807.952	24.69
LOCATION L0000022	VOLUME	492619.603	3603815.055	24.55
LOCATION L0000023	VOLUME	492615.045	3603822.158	24.42
LOCATION L0000024	VOLUME	492610.487	3603829.262	24.28
LOCATION L0000025	VOLUME	492605.929	3603836.365	24.14
LOCATION L0000026	VOLUME	492601.371	3603843.469	24.01
LOCATION L0000027	VOLUME	492596.813	3603850.572	23.87
LOCATION L0000028	VOLUME	492592.255	3603857.675	23.74
LOCATION L0000029	VOLUME	492587.697	3603864.779	23.60
LOCATION L0000030	VOLUME	492583.139	3603871.882	23.47
LOCATION L0000031	VOLUME	492578.581	3603878.985	23.33
LOCATION L0000032	VOLUME	492574.023	3603886.089	23.20
LOCATION L0000033	VOLUME	492569.465	3603893.192	23.06
LOCATION L0000034	VOLUME	492564.907	3603900.296	22.98
LOCATION L0000035	VOLUME	492560.349	3603907.399	22.91
LOCATION L0000036	VOLUME	492555.791	3603914.502	22.83
LOCATION L0000037	VOLUME	492551.233	3603921.606	22.75
LOCATION L0000038	VOLUME	492546.675	3603928.709	22.67
LOCATION L0000039	VOLUME	492542.117	3603935.813	22.60
LOCATION L0000040	VOLUME	492537.559	3603942.916	22.52
LOCATION L0000041	VOLUME	492533.001	3603950.019	22.44
LOCATION L0000042	VOLUME	492528.443	3603957.123	22.37
LOCATION L0000043	VOLUME	492523.885	3603964.226	22.29
LOCATION L0000044	VOLUME	492519.327	3603971.330	22.21
LOCATION L0000045	VOLUME	492514.769	3603978.433	22.14
LOCATION L0000046	VOLUME	492510.211	3603985.536	22.06
LOCATION L0000047	VOLUME	492505.653	3603992.640	21.99
LOCATION L0000048	VOLUME	492501.095	3603999.743	21.92
LOCATION L0000049	VOLUME	492496.537	3604006.846	21.84
LOCATION L0000050	VOLUME	492491.979	3604013.950	21.76
LOCATION L0000051	VOLUME	492487.421	3604021.053	21.68
LOCATION L0000052	VOLUME	492482.863	3604028.157	21.60
LOCATION L0000053	VOLUME	492478.305	3604035.260	21.52
LOCATION L0000054	VOLUME	492473.747	3604042.363	21.44
LOCATION L0000055	VOLUME	492469.189	3604049.467	21.37
LOCATION L0000056	VOLUME	492464.631	3604056.570	21.29
LOCATION L0000057	VOLUME	492460.073	3604063.674	21.21
LOCATION L0000058	VOLUME	492455.515	3604070.777	21.14
LOCATION L0000059	VOLUME	492450.957	3604077.880	21.06
LOCATION L0000060	VOLUME	492446.399	3604084.984	20.99
LOCATION L0000061	VOLUME	492441.841	3604092.087	20.94
LOCATION L0000062	VOLUME	492437.283	3604099.191	20.88
LOCATION L0000063	VOLUME	492432.725	3604106.294	20.82
LOCATION L0000064	VOLUME	492428.167	3604113.397	20.74
LOCATION L0000065	VOLUME	492423.609	3604120.500	20.65
LOCATION L0000066	VOLUME	492418.051	3604127.603	20.56
LOCATION L0000067	VOLUME	492413.493	3604134.706	20.46
LOCATION L0000068	VOLUME	492409.935	3604141.809	20.37
LOCATION L0000069	VOLUME	492404.377	3604148.912	20.30
LOCATION L0000070	VOLUME	492399.819	3604156.015	20.22
LOCATION L0000071	VOLUME	492394.261	3604163.118	20.15
LOCATION L0000072	VOLUME	492390.703	3604170.221	20.07
LOCATION L0000073	VOLUME	492385.145	3604177.324	20.00
LOCATION L0000074	VOLUME	492380.587	3604184.427	19.97
LOCATION L0000075	VOLUME	492375.029	3604191.530	19.93
LOCATION L0000076	VOLUME	492371.471	3604198.633	19.88
LOCATION L0000077	VOLUME	492366.913	3604205.736	19.82
LOCATION L0000078	VOLUME	492361.355	3604212.839	19.75
LOCATION L0000079	VOLUME	492356.797	3604219.942	19.67
LOCATION L0000080	VOLUME	492351.239	3604227.045	19.59
LOCATION L0000081	VOLUME	492346.681	3604234.148	19.49
LOCATION L0000082	VOLUME	492341.123	3604241.251	19.39

LOCATION L0000083	VOLUME	492336.188	3604244.685	19.27
LOCATION L0000084	VOLUME	492330.923	3604251.282	19.18
LOCATION L0000085	VOLUME	492325.658	3604257.878	19.10
LOCATION L0000086	VOLUME	492320.393	3604264.474	19.03
LOCATION L0000087	VOLUME	492315.128	3604271.071	18.99
LOCATION L0000088	VOLUME	492309.863	3604277.667	18.97
LOCATION L0000089	VOLUME	492304.598	3604284.264	18.93
LOCATION L0000090	VOLUME	492299.333	3604290.860	18.89
LOCATION L0000091	VOLUME	492294.068	3604297.457	18.84
LOCATION L0000092	VOLUME	492288.803	3604304.053	18.77
LOCATION L0000093	VOLUME	492283.538	3604310.650	18.70
LOCATION L0000094	VOLUME	492278.273	3604317.246	18.62
LOCATION L0000095	VOLUME	492273.008	3604323.842	18.53
LOCATION L0000096	VOLUME	492267.743	3604330.439	18.42
LOCATION L0000097	VOLUME	492262.478	3604337.035	18.31
LOCATION L0000098	VOLUME	492257.213	3604343.632	18.19
LOCATION L0000099	VOLUME	492251.948	3604350.228	18.05
LOCATION L0000100	VOLUME	492246.683	3604356.825	17.92
LOCATION L0000101	VOLUME	492241.418	3604363.421	17.81
LOCATION L0000102	VOLUME	492236.153	3604370.017	17.74
LOCATION L0000103	VOLUME	492230.888	3604376.614	17.67
LOCATION L0000104	VOLUME	492225.623	3604383.210	17.60
LOCATION L0000105	VOLUME	492220.358	3604389.807	17.54
LOCATION L0000106	VOLUME	492215.093	3604396.403	17.47
LOCATION L0000107	VOLUME	492209.827	3604403.000	17.40
LOCATION L0000108	VOLUME	492204.562	3604409.596	17.33
LOCATION L0000109	VOLUME	492199.297	3604416.192	17.27
LOCATION L0000110	VOLUME	492193.842	3604422.631	17.20
LOCATION L0000111	VOLUME	492188.313	3604429.008	17.13
LOCATION L0000112	VOLUME	492182.784	3604435.384	17.06
LOCATION L0000113	VOLUME	492177.255	3604441.761	16.99
LOCATION L0000114	VOLUME	492171.726	3604448.138	16.92
LOCATION L0000115	VOLUME	492166.197	3604454.515	16.84
LOCATION L0000116	VOLUME	492160.668	3604460.892	16.77
LOCATION L0000117	VOLUME	492155.139	3604467.268	16.70
LOCATION L0000118	VOLUME	492149.610	3604473.645	16.63
LOCATION L0000119	VOLUME	492144.081	3604480.022	16.56
LOCATION L0000120	VOLUME	492138.552	3604486.399	16.49
LOCATION L0000121	VOLUME	492133.023	3604492.776	16.42
LOCATION L0000122	VOLUME	492127.494	3604499.152	16.35
LOCATION L0000123	VOLUME	492121.965	3604505.529	16.28
LOCATION L0000124	VOLUME	492116.436	3604511.906	16.21
LOCATION L0000125	VOLUME	492110.907	3604518.283	16.14
LOCATION L0000126	VOLUME	492105.378	3604524.660	16.06
LOCATION L0000127	VOLUME	492099.849	3604531.036	16.00
LOCATION L0000128	VOLUME	492094.320	3604537.413	15.93
LOCATION L0000129	VOLUME	492088.791	3604543.790	15.86
LOCATION L0000130	VOLUME	492083.262	3604550.167	15.78
LOCATION L0000131	VOLUME	492077.733	3604556.544	15.71
LOCATION L0000132	VOLUME	492072.204	3604562.920	15.64
LOCATION L0000133	VOLUME	492066.675	3604569.297	15.57
LOCATION L0000134	VOLUME	492061.146	3604575.674	15.50
LOCATION L0000135	VOLUME	492055.617	3604582.051	15.43
LOCATION L0000136	VOLUME	492050.088	3604588.428	15.36
LOCATION L0000137	VOLUME	492044.559	3604594.805	15.29
LOCATION L0000138	VOLUME	492039.030	3604601.182	15.23
LOCATION L0000139	VOLUME	492033.501	3604607.559	15.16
LOCATION L0000140	VOLUME	492027.972	3604613.936	15.09
LOCATION L0000141	VOLUME	492022.443	3604620.313	15.02
LOCATION L0000142	VOLUME	492016.914	3604626.690	14.95
LOCATION L0000143	VOLUME	492011.385	3604633.067	14.88
LOCATION L0000144	VOLUME	492005.856	3604639.444	14.82
LOCATION L0000145	VOLUME	492000.327	3604645.821	14.76
LOCATION L0000146	VOLUME	491994.798	3604652.198	14.70
LOCATION L0000147	VOLUME	491989.269	3604658.575	14.64
LOCATION L0000148	VOLUME	491983.740	3604664.952	14.58
LOCATION L0000149	VOLUME	491978.211	3604671.329	14.52
LOCATION L0000150	VOLUME	491972.682	3604677.706	14.46
LOCATION L0000151	VOLUME	491967.153	3604684.083	14.40
LOCATION L0000152	VOLUME	491961.624	3604690.460	14.34
LOCATION L0000153	VOLUME	491956.095	3604696.837	14.28
LOCATION L0000154	VOLUME	491950.566	3604703.214	14.22

LOCATION L0000155	VOLUME	491956.815	3604718.704	14.16
LOCATION L0000156	VOLUME	491952.134	3604725.727	14.10
LOCATION L0000157	VOLUME	491947.452	3604732.749	14.04
LOCATION L0000158	VOLUME	491943.201	3604740.033	13.98
LOCATION L0000159	VOLUME	491939.136	3604747.430	13.87
LOCATION L0000160	VOLUME	491935.072	3604754.827	13.77
LOCATION L0000161	VOLUME	491931.007	3604762.223	13.67
LOCATION L0000162	VOLUME	491926.942	3604769.620	13.56
LOCATION L0000163	VOLUME	491922.877	3604777.017	13.46
LOCATION L0000164	VOLUME	491918.812	3604784.413	13.35
LOCATION L0000165	VOLUME	491914.747	3604791.810	13.25
LOCATION L0000166	VOLUME	491910.683	3604799.207	13.15
LOCATION L0000167	VOLUME	491906.618	3604806.603	13.04
LOCATION L0000168	VOLUME	491902.553	3604814.000	12.94
LOCATION L0000169	VOLUME	491898.488	3604821.397	12.83
LOCATION L0000170	VOLUME	491894.423	3604828.793	12.77
LOCATION L0000171	VOLUME	491890.358	3604836.190	12.72
LOCATION L0000172	VOLUME	491886.293	3604843.587	12.69
LOCATION L0000173	VOLUME	491882.229	3604850.983	12.66
LOCATION L0000174	VOLUME	491878.164	3604858.380	12.64
LOCATION L0000175	VOLUME	491874.099	3604865.777	12.62
LOCATION L0000176	VOLUME	491870.477	3604873.364	12.63
LOCATION L0000177	VOLUME	491867.883	3604881.396	12.67
LOCATION L0000178	VOLUME	491865.289	3604889.427	12.71
LOCATION L0000179	VOLUME	491862.695	3604897.459	12.73
LOCATION L0000180	VOLUME	491860.101	3604905.490	12.75
LOCATION L0000181	VOLUME	491857.507	3604913.522	12.77
LOCATION L0000182	VOLUME	491854.913	3604921.553	12.66
LOCATION L0000183	VOLUME	491852.319	3604929.585	12.52
LOCATION L0000184	VOLUME	491849.725	3604937.616	12.39
LOCATION L0000185	VOLUME	491847.131	3604945.648	12.27
LOCATION L0000186	VOLUME	491844.537	3604953.679	12.15
LOCATION L0000187	VOLUME	491841.943	3604961.711	12.04
LOCATION L0000188	VOLUME	491839.349	3604969.742	11.93
LOCATION L0000189	VOLUME	491836.755	3604977.774	11.83
LOCATION L0000190	VOLUME	491834.161	3604985.805	11.73
LOCATION L0000191	VOLUME	491831.567	3604993.837	11.64
LOCATION L0000192	VOLUME	491828.973	3605001.868	11.56
LOCATION L0000193	VOLUME	491826.379	3605009.900	11.49
LOCATION L0000194	VOLUME	491823.785	3605017.931	11.46
LOCATION L0000195	VOLUME	491821.191	3605025.963	11.43
LOCATION L0000196	VOLUME	491818.597	3605033.994	11.39
LOCATION L0000197	VOLUME	491816.003	3605042.026	11.36
LOCATION L0000198	VOLUME	491813.409	3605050.057	11.33
LOCATION L0000199	VOLUME	491810.815	3605058.088	11.29
LOCATION L0000200	VOLUME	491808.220	3605066.120	11.26
LOCATION L0000201	VOLUME	491806.367	3605074.341	11.24
LOCATION L0000202	VOLUME	491804.795	3605082.633	11.22
LOCATION L0000203	VOLUME	491803.222	3605090.925	11.20
LOCATION L0000204	VOLUME	491801.649	3605099.217	11.18
LOCATION L0000205	VOLUME	491800.077	3605107.509	11.09
LOCATION L0000206	VOLUME	491798.504	3605115.801	10.99
LOCATION L0000207	VOLUME	491796.931	3605124.094	10.89
LOCATION L0000208	VOLUME	491795.359	3605132.386	10.78
LOCATION L0000209	VOLUME	491793.936	3605140.697	10.67
LOCATION L0000210	VOLUME	491793.359	3605149.118	10.58
LOCATION L0000211	VOLUME	491792.782	3605157.538	10.48
LOCATION L0000212	VOLUME	491792.206	3605165.958	10.38
LOCATION L0000213	VOLUME	491791.629	3605174.378	10.28
LOCATION L0000214	VOLUME	491791.052	3605182.799	10.18
LOCATION L0000215	VOLUME	491790.475	3605191.219	10.08
LOCATION L0000216	VOLUME	491789.899	3605199.639	9.97
LOCATION L0000217	VOLUME	491789.322	3605208.059	9.86
LOCATION L0000218	VOLUME	491788.745	3605216.480	9.76
LOCATION L0000219	VOLUME	491788.168	3605224.900	9.65
LOCATION L0000220	VOLUME	491787.694	3605233.326	9.55
LOCATION L0000221	VOLUME	491787.313	3605241.757	9.46
LOCATION L0000222	VOLUME	491786.932	3605250.189	9.36
LOCATION L0000223	VOLUME	491786.551	3605258.620	9.27
LOCATION L0000224	VOLUME	491786.169	3605267.052	9.17
LOCATION L0000225	VOLUME	491785.788	3605275.483	9.07
LOCATION L0000226	VOLUME	491785.407	3605283.914	8.98

LOCATION L0000227	VOLUME	491785.026	3605292.346	8.88
LOCATION L0000228	VOLUME	491784.645	3605300.777	8.79
LOCATION L0000229	VOLUME	491784.264	3605309.209	8.70
LOCATION L0000230	VOLUME	491783.883	3605317.640	8.61
LOCATION L0000231	VOLUME	491783.502	3605326.071	8.52
LOCATION L0000232	VOLUME	491783.121	3605334.503	8.43
LOCATION L0000233	VOLUME	491782.740	3605342.934	8.35
LOCATION L0000234	VOLUME	491782.359	3605351.366	8.26
LOCATION L0000235	VOLUME	491781.978	3605359.797	8.17
LOCATION L0000236	VOLUME	491781.597	3605368.228	8.09
LOCATION L0000237	VOLUME	491781.215	3605376.660	8.01
LOCATION L0000238	VOLUME	491780.834	3605385.091	7.92
LOCATION L0000239	VOLUME	491780.453	3605393.523	7.82
LOCATION L0000240	VOLUME	491780.072	3605401.954	7.73
LOCATION L0000241	VOLUME	491779.691	3605410.385	7.64
LOCATION L0000242	VOLUME	491779.310	3605418.817	7.55
LOCATION L0000243	VOLUME	491778.929	3605427.248	7.46
LOCATION L0000244	VOLUME	491778.548	3605435.679	7.37
LOCATION L0000245	VOLUME	491778.167	3605444.111	7.28
LOCATION L0000246	VOLUME	491777.786	3605452.542	7.19
LOCATION L0000247	VOLUME	491777.405	3605460.973	7.10
LOCATION L0000248	VOLUME	491777.024	3605469.404	7.00
LOCATION L0000249	VOLUME	491776.643	3605477.835	6.98
LOCATION L0000250	VOLUME	491776.262	3605486.266	6.97
LOCATION L0000251	VOLUME	491775.881	3605494.697	6.95
LOCATION L0000252	VOLUME	491775.500	3605503.128	6.92
LOCATION L0000253	VOLUME	491775.119	3605511.559	6.90
LOCATION L0000254	VOLUME	491774.738	3605519.990	6.87
LOCATION L0000255	VOLUME	491774.357	3605528.421	6.84
LOCATION L0000256	VOLUME	491773.976	3605536.852	6.81
LOCATION L0000257	VOLUME	491773.595	3605545.283	6.77
LOCATION L0000258	VOLUME	491773.214	3605553.714	6.74
LOCATION L0000259	VOLUME	491772.833	3605562.145	6.70
LOCATION L0000260	VOLUME	491772.452	3605570.576	6.62
LOCATION L0000261	VOLUME	491772.071	3605579.007	6.55
LOCATION L0000262	VOLUME	491771.690	3605587.438	6.48
LOCATION L0000263	VOLUME	491771.309	3605595.869	6.41
LOCATION L0000264	VOLUME	491770.928	3605604.300	6.35
LOCATION L0000265	VOLUME	491770.547	3605612.731	6.29
LOCATION L0000266	VOLUME	491770.166	3605621.162	6.22
LOCATION L0000267	VOLUME	491769.785	3605629.593	6.17
LOCATION L0000268	VOLUME	491769.404	3605638.024	6.11
LOCATION L0000269	VOLUME	491769.023	3605646.455	6.06
LOCATION L0000270	VOLUME	491768.642	3605654.886	6.00
LOCATION L0000271	VOLUME	491768.261	3605663.317	5.96
LOCATION L0000272	VOLUME	491767.880	3605671.748	5.92
LOCATION L0000273	VOLUME	491767.499	3605680.179	5.87
LOCATION L0000274	VOLUME	491767.118	3605688.610	5.82
LOCATION L0000275	VOLUME	491766.737	3605697.041	5.77
LOCATION L0000276	VOLUME	491766.356	3605705.472	5.72
LOCATION L0000277	VOLUME	491765.975	3605713.903	5.66
LOCATION L0000278	VOLUME	491765.594	3605722.334	5.61
LOCATION L0000279	VOLUME	491765.213	3605730.765	5.55
LOCATION L0000280	VOLUME	491764.832	3605739.196	5.48
LOCATION L0000281	VOLUME	491764.451	3605747.627	5.42
LOCATION L0000282	VOLUME	491764.070	3605756.058	5.37
LOCATION L0000283	VOLUME	491763.689	3605764.489	5.32
LOCATION L0000284	VOLUME	491763.308	3605772.920	5.28
LOCATION L0000285	VOLUME	491762.927	3605781.351	5.24
LOCATION L0000286	VOLUME	491762.546	3605789.782	5.20
LOCATION L0000287	VOLUME	491762.165	3605798.213	5.16
LOCATION L0000288	VOLUME	491761.784	3605806.644	5.12
LOCATION L0000289	VOLUME	491761.403	3605815.075	5.09
LOCATION L0000290	VOLUME	491761.022	3605823.506	5.06
LOCATION L0000291	VOLUME	491760.641	3605831.937	5.03
LOCATION L0000292	VOLUME	491760.260	3605840.368	5.00
LOCATION L0000293	VOLUME	491759.879	3605848.799	4.94
LOCATION L0000294	VOLUME	491759.498	3605857.230	4.87
LOCATION L0000295	VOLUME	491759.117	3605865.661	4.80
LOCATION L0000296	VOLUME	491758.736	3605874.092	4.73
LOCATION L0000297	VOLUME	491758.355	3605882.523	4.65
LOCATION L0000298	VOLUME	491757.974	3605890.954	4.57

LOCATION L0000299	VOLUME	491724.788	3605896.729	4.49
LOCATION L0000300	VOLUME	491723.797	3605905.111	4.41
LOCATION L0000301	VOLUME	491722.806	3605913.493	4.32
LOCATION L0000302	VOLUME	491721.815	3605921.874	4.24
LOCATION L0000303	VOLUME	491720.824	3605930.256	4.15
LOCATION L0000304	VOLUME	491719.833	3605938.638	4.11
LOCATION L0000305	VOLUME	491718.842	3605947.019	4.09
LOCATION L0000306	VOLUME	491717.851	3605955.401	4.07
LOCATION L0000307	VOLUME	491716.860	3605963.782	4.05
LOCATION L0000308	VOLUME	491715.869	3605972.164	4.04
LOCATION L0000309	VOLUME	491714.878	3605980.546	4.03
LOCATION L0000310	VOLUME	491713.887	3605988.927	4.02
LOCATION L0000311	VOLUME	491712.896	3605997.309	4.01
LOCATION L0000312	VOLUME	491711.905	3606005.691	4.00
LOCATION L0000313	VOLUME	491710.915	3606014.072	4.00
LOCATION L0000314	VOLUME	491709.924	3606022.454	4.00
LOCATION L0000315	VOLUME	491708.933	3606030.835	4.00
LOCATION L0000316	VOLUME	491707.942	3606039.217	3.99
LOCATION L0000317	VOLUME	491706.951	3606047.599	3.99
LOCATION L0000318	VOLUME	491705.960	3606055.980	3.98
LOCATION L0000319	VOLUME	491704.969	3606064.362	3.97
LOCATION L0000320	VOLUME	491703.978	3606072.744	3.96
LOCATION L0000321	VOLUME	491702.987	3606081.125	3.94
LOCATION L0000322	VOLUME	491701.996	3606089.507	3.92
LOCATION L0000323	VOLUME	491701.005	3606097.888	3.90
LOCATION L0000324	VOLUME	491700.014	3606106.270	3.88
LOCATION L0000325	VOLUME	491699.023	3606114.652	3.86
LOCATION L0000326	VOLUME	491698.032	3606123.033	3.84
LOCATION L0000327	VOLUME	491697.041	3606131.412	3.83
LOCATION L0000328	VOLUME	491695.987	3606139.789	3.81
LOCATION L0000329	VOLUME	491694.960	3606148.166	3.80
LOCATION L0000330	VOLUME	491693.934	3606156.544	3.79
LOCATION L0000331	VOLUME	491692.907	3606164.921	3.77
LOCATION L0000332	VOLUME	491691.880	3606173.298	3.76
LOCATION L0000333	VOLUME	491690.854	3606181.676	3.75
LOCATION L0000334	VOLUME	491689.827	3606190.053	3.73
LOCATION L0000335	VOLUME	491688.800	3606198.430	3.72
LOCATION L0000336	VOLUME	491687.774	3606206.807	3.71
LOCATION L0000337	VOLUME	491686.747	3606215.185	3.72
LOCATION L0000338	VOLUME	491685.720	3606223.562	3.73
LOCATION L0000339	VOLUME	491684.694	3606231.939	3.75
LOCATION L0000340	VOLUME	491683.667	3606240.317	3.77
LOCATION L0000341	VOLUME	491682.640	3606248.694	3.80
LOCATION L0000342	VOLUME	491681.614	3606257.071	3.82
LOCATION L0000343	VOLUME	491680.587	3606265.449	3.85
LOCATION L0000344	VOLUME	491679.561	3606273.826	3.88
LOCATION L0000345	VOLUME	491678.534	3606282.203	3.92
LOCATION L0000346	VOLUME	491677.507	3606290.581	3.95
LOCATION L0000347	VOLUME	491676.481	3606298.958	3.99
LOCATION L0000348	VOLUME	491675.454	3606307.335	4.00
LOCATION L0000349	VOLUME	491674.427	3606315.713	4.00
LOCATION L0000350	VOLUME	491673.401	3606324.090	4.00
LOCATION L0000351	VOLUME	491672.374	3606332.467	4.00
LOCATION L0000352	VOLUME	491671.347	3606340.845	4.00
LOCATION L0000353	VOLUME	491670.321	3606349.222	4.00
LOCATION L0000354	VOLUME	491669.294	3606357.599	4.00
LOCATION L0000355	VOLUME	491668.267	3606365.977	4.00
LOCATION L0000356	VOLUME	491667.241	3606374.354	4.00
LOCATION L0000357	VOLUME	491666.214	3606382.731	4.00
LOCATION L0000358	VOLUME	491665.187	3606391.109	4.00
LOCATION L0000359	VOLUME	491664.161	3606399.486	4.00
LOCATION L0000360	VOLUME	491663.134	3606407.863	4.00
LOCATION L0000361	VOLUME	491662.107	3606416.241	4.00
LOCATION L0000362	VOLUME	491661.081	3606424.618	4.00
LOCATION L0000363	VOLUME	491660.054	3606432.995	4.00
LOCATION L0000364	VOLUME	491659.028	3606441.373	4.00
LOCATION L0000365	VOLUME	491658.001	3606449.750	4.00
LOCATION L0000366	VOLUME	491656.974	3606458.127	4.00
LOCATION L0000367	VOLUME	491655.948	3606466.505	4.00
LOCATION L0000368	VOLUME	491654.921	3606474.882	4.00
LOCATION L0000369	VOLUME	491653.894	3606483.259	4.00
LOCATION L0000370	VOLUME	491652.868	3606491.637	4.02

LOCATION L0000371	VOLUME	491651.841	3606500.014	4.04
LOCATION L0000372	VOLUME	491650.814	3606508.391	4.06
LOCATION L0000373	VOLUME	491649.788	3606516.769	4.07
LOCATION L0000374	VOLUME	491648.761	3606525.146	4.09
LOCATION L0000375	VOLUME	491647.734	3606533.523	4.10
LOCATION L0000376	VOLUME	491646.708	3606541.901	4.11
LOCATION L0000377	VOLUME	491645.681	3606550.278	4.12
LOCATION L0000378	VOLUME	491644.654	3606558.655	4.12
LOCATION L0000379	VOLUME	491643.628	3606567.033	4.12
LOCATION L0000380	VOLUME	491642.601	3606575.410	4.12
LOCATION L0000381	VOLUME	491641.575	3606583.787	4.11
LOCATION L0000382	VOLUME	491640.548	3606592.164	4.10
LOCATION L0000383	VOLUME	491639.521	3606600.542	4.09
LOCATION L0000384	VOLUME	491638.495	3606608.919	4.07
LOCATION L0000385	VOLUME	491637.468	3606617.296	4.06
LOCATION L0000386	VOLUME	491636.441	3606625.674	4.05
LOCATION L0000387	VOLUME	491635.415	3606634.051	4.03
LOCATION L0000388	VOLUME	491634.481	3606642.439	4.02
LOCATION L0000389	VOLUME	491633.553	3606650.828	4.01
LOCATION L0000390	VOLUME	491632.625	3606659.217	4.00
LOCATION L0000391	VOLUME	491631.696	3606667.606	4.00
LOCATION L0000392	VOLUME	491630.768	3606675.995	4.00
LOCATION L0000393	VOLUME	491629.840	3606684.383	4.00
LOCATION L0000394	VOLUME	491628.912	3606692.772	4.00
LOCATION L0000395	VOLUME	491627.984	3606701.161	4.00
LOCATION L0000396	VOLUME	491627.056	3606709.550	4.00
LOCATION L0000397	VOLUME	491626.128	3606717.939	4.00
LOCATION L0000398	VOLUME	491625.200	3606726.327	4.00
LOCATION L0000399	VOLUME	491624.271	3606734.716	4.00
LOCATION L0000400	VOLUME	491623.343	3606743.105	4.00
LOCATION L0000401	VOLUME	491622.415	3606751.494	4.00
LOCATION L0000402	VOLUME	491621.487	3606759.883	4.00
LOCATION L0000403	VOLUME	491620.559	3606768.271	4.00
LOCATION L0000404	VOLUME	491619.631	3606776.660	4.00
LOCATION L0000405	VOLUME	491618.703	3606785.049	4.00
LOCATION L0000406	VOLUME	491617.775	3606793.438	4.00
LOCATION L0000407	VOLUME	491616.846	3606801.827	4.00
LOCATION L0000408	VOLUME	491615.918	3606810.216	4.00
LOCATION L0000409	VOLUME	491614.990	3606818.604	4.00
LOCATION L0000410	VOLUME	491614.062	3606826.993	4.00
LOCATION L0000411	VOLUME	491613.134	3606835.382	4.00
LOCATION L0000412	VOLUME	491612.206	3606843.771	4.00
LOCATION L0000413	VOLUME	491611.278	3606852.160	4.00
LOCATION L0000414	VOLUME	491610.350	3606860.548	4.00
LOCATION L0000415	VOLUME	491609.421	3606868.937	4.00
LOCATION L0000416	VOLUME	491608.493	3606877.326	4.00
LOCATION L0000417	VOLUME	491607.565	3606885.715	4.00
LOCATION L0000418	VOLUME	491606.637	3606894.104	4.00
LOCATION L0000419	VOLUME	491605.709	3606902.492	4.00
LOCATION L0000420	VOLUME	491604.781	3606910.881	4.00
LOCATION L0000421	VOLUME	491603.853	3606919.270	4.00
LOCATION L0000422	VOLUME	491602.924	3606927.666	4.00
LOCATION L0000423	VOLUME	491602.181	3606936.067	4.00
LOCATION L0000424	VOLUME	491601.369	3606944.468	4.00
LOCATION L0000425	VOLUME	491600.556	3606952.868	4.00
LOCATION L0000426	VOLUME	491599.744	3606961.269	4.00
LOCATION L0000427	VOLUME	491598.932	3606969.670	4.00
LOCATION L0000428	VOLUME	491598.119	3606978.071	4.00
LOCATION L0000429	VOLUME	491597.307	3606986.472	4.00
LOCATION L0000430	VOLUME	491596.494	3606994.873	4.00
LOCATION L0000431	VOLUME	491595.682	3607003.273	4.00
LOCATION L0000432	VOLUME	491594.870	3607011.674	4.00
LOCATION L0000433	VOLUME	491594.057	3607020.075	4.00
LOCATION L0000434	VOLUME	491593.245	3607028.476	4.00
LOCATION L0000435	VOLUME	491592.432	3607036.877	4.00
LOCATION L0000436	VOLUME	491591.620	3607045.277	4.00
LOCATION L0000437	VOLUME	491590.808	3607053.678	4.00
LOCATION L0000438	VOLUME	491589.995	3607062.079	4.00
LOCATION L0000439	VOLUME	491589.183	3607070.480	4.00
LOCATION L0000440	VOLUME	491588.370	3607078.881	4.00
LOCATION L0000441	VOLUME	491587.558	3607087.281	4.00
LOCATION L0000442	VOLUME	491586.745	3607095.682	4.00

LOCATION L0000443	VOLUME	491585.933	3607104.083	4.00
LOCATION L0000444	VOLUME	491585.121	3607112.484	4.00
LOCATION L0000445	VOLUME	491584.308	3607120.885	4.00
LOCATION L0000446	VOLUME	491583.496	3607129.285	4.00
LOCATION L0000447	VOLUME	491582.683	3607137.686	4.00
LOCATION L0000448	VOLUME	491581.871	3607146.087	4.00
LOCATION L0000449	VOLUME	491581.059	3607154.488	4.00
LOCATION L0000450	VOLUME	491580.246	3607162.889	4.00
LOCATION L0000451	VOLUME	491579.434	3607171.290	4.00
LOCATION L0000452	VOLUME	491578.621	3607179.690	4.00
LOCATION L0000453	VOLUME	491577.809	3607188.091	4.00
LOCATION L0000454	VOLUME	491576.997	3607196.492	4.00
LOCATION L0000455	VOLUME	491576.184	3607204.893	4.00
LOCATION L0000456	VOLUME	491575.372	3607213.294	4.00
LOCATION L0000457	VOLUME	491574.559	3607221.694	4.00
LOCATION L0000458	VOLUME	491573.747	3607230.095	4.00
LOCATION L0000459	VOLUME	491572.935	3607238.496	4.00
LOCATION L0000460	VOLUME	491572.122	3607246.897	4.00
LOCATION L0000461	VOLUME	491571.310	3607255.298	4.00
LOCATION L0000462	VOLUME	491570.497	3607263.698	4.00
LOCATION L0000463	VOLUME	491569.685	3607272.099	4.00
LOCATION L0000464	VOLUME	491568.873	3607280.500	4.00
LOCATION L0000465	VOLUME	491568.060	3607288.901	4.00
LOCATION L0000466	VOLUME	491567.248	3607297.302	4.00
LOCATION L0000467	VOLUME	491566.435	3607305.702	4.00
LOCATION L0000468	VOLUME	491565.623	3607314.103	4.00
LOCATION L0000469	VOLUME	491564.811	3607322.504	4.00
LOCATION L0000470	VOLUME	491563.998	3607330.905	4.00
LOCATION L0000471	VOLUME	491563.186	3607339.306	4.00
LOCATION L0000472	VOLUME	491562.373	3607347.707	4.00
LOCATION L0000473	VOLUME	491561.561	3607356.107	4.00
LOCATION L0000474	VOLUME	491560.748	3607364.508	4.00
LOCATION L0000475	VOLUME	491559.936	3607372.909	4.00
LOCATION L0000476	VOLUME	491559.124	3607381.310	4.00
LOCATION L0000477	VOLUME	491558.311	3607389.711	4.00
LOCATION L0000478	VOLUME	491557.499	3607398.111	4.00
LOCATION L0000479	VOLUME	491556.686	3607406.512	4.00
LOCATION L0000480	VOLUME	491555.874	3607414.913	4.00
LOCATION L0000481	VOLUME	491555.062	3607423.314	4.00
LOCATION L0000482	VOLUME	491554.249	3607431.715	3.99
LOCATION L0000483	VOLUME	491553.437	3607440.115	3.98
LOCATION L0000484	VOLUME	491552.624	3607448.516	3.97
LOCATION L0000485	VOLUME	491551.812	3607456.917	3.96
LOCATION L0000486	VOLUME	491551.000	3607465.318	3.95
LOCATION L0000487	VOLUME	491550.187	3607473.719	3.93
LOCATION L0000488	VOLUME	491549.375	3607482.119	3.92
LOCATION L0000489	VOLUME	491548.562	3607490.520	3.91
LOCATION L0000490	VOLUME	491547.750	3607498.921	3.90
LOCATION L0000491	VOLUME	491546.938	3607507.322	3.89
LOCATION L0000492	VOLUME	491546.125	3607515.723	3.88
LOCATION L0000493	VOLUME	491545.313	3607524.124	3.87
LOCATION L0000494	VOLUME	491544.500	3607532.524	3.86
LOCATION L0000495	VOLUME	491543.688	3607540.925	3.85
LOCATION L0000496	VOLUME	491542.876	3607549.326	3.84
LOCATION L0000497	VOLUME	491542.063	3607557.727	3.83
LOCATION L0000498	VOLUME	491541.251	3607566.128	3.82
LOCATION L0000499	VOLUME	491540.438	3607574.528	3.81
LOCATION L0000500	VOLUME	491539.626	3607582.929	3.80
LOCATION L0000501	VOLUME	491538.814	3607591.330	3.79
LOCATION L0000502	VOLUME	491538.001	3607599.731	3.78
LOCATION L0000503	VOLUME	491537.189	3607608.132	3.77
LOCATION L0000504	VOLUME	491536.376	3607616.532	3.76
LOCATION L0000505	VOLUME	491535.564	3607624.933	3.75
LOCATION L0000506	VOLUME	491534.751	3607633.334	3.74
LOCATION L0000507	VOLUME	491533.939	3607641.735	3.73
LOCATION L0000508	VOLUME	491533.127	3607650.136	3.71
LOCATION L0000509	VOLUME	491532.314	3607658.536	3.70

** End of LINE VOLUME Source ID = SLINE1

** Source Parameters **

** LINE VOLUME Source ID = SLINE1

SRCPARAM L0000001	0.000001266	3.63	3.93	3.38
SRCPARAM L0000002	0.000001266	3.63	3.93	3.38

SRCPARAM L0000507 0.000001266 3.63 3.93 3.38
SRCPARAM L0000508 0.000001266 3.63 3.93 3.38
SRCPARAM L0000509 0.000001266 3.63 3.93 3.38

SRCGROUP ALL
SO FINISHED

** AERMOD Receptor Pathway

**
**
RE STARTING
INCLUDED "Bella Mar I-5.rou"
RE FINISHED

** AERMOD Meteorology Pathway

**
**
ME STARTING
SURFFILE "N:\AIR_GHG_NOISE_Technical\001_AIR\Meterological\Chula Vista\ChulaVista_2010-2012_v14134.sfc"
PROFFILE "N:\AIR_GHG_NOISE_Technical\001_AIR\Meterological\Chula Vista\ChulaVista_2010-2012_v14134.PFL"
SURFDATA 23188 2010 SAN_DIEGO/LINDBERGH_FIELD
UAIRDATA 3190 2010
SITEDATA 1 2010
PROFBASE 55.0 METERS

ME FINISHED

** AERMOD Output Pathway

**
**
OU STARTING
** Auto-Generated Plotfiles
PLOTFILE ANNUAL ALL "BELLA MAR I-5.AVAN00GALL.PLT" 31
SUMMFILE "Bella Mar I-5.sum"
OU FINISHED

*** SETUP Finishes Successfully ***

*** AERMOD - VERSION 16216r *** ** C:\AERMOD\8575\Bella Mar I-5\Bella Mar I-5.isc *** 05/30/19
*** AERMET - VERSION 15181 *** ** *** 10:49:15

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** MODEL SETUP OPTIONS SUMMARY ***

**Model Is Setup For Calculation of Average CONCentration Values.

-- DEPOSITION LOGIC --
**NO GAS DEPOSITION Data Provided.
**NO PARTICLE DEPOSITION Data Provided.
**Model Uses NO DRY DEPLETION. DRYDPLT = F
**Model Uses NO WET DEPLETION. WETDPLT = F

**Model Uses RURAL Dispersion Only.

**Model Uses Regulatory DEFAULT Options:
1. Stack-tip Downwash.
2. Model Accounts for ELEVated Terrain Effects.
3. Use Calms Processing Routine.
4. Use Missing Data Processing Routine.
5. No Exponential Decay.

**Model Assumes No FLAGPOLE Receptor Heights.

**The User Specified a Pollutant Type of: PM_2.5

**Model Calculates ANNUAL Averages Only

**This Run Includes: 509 Source(s); 1 Source Group(s); and 2522 Receptor(s)

with: 0 POINT(s), including
0 POINTCAP(s) and 0 POINTHOR(s)
and: 509 VOLUME source(s)
and: 0 AREA type source(s)
and: 0 LINE source(s)
and: 0 OPENPIT source(s)
and: 0 BUOYANT LINE source(s) with 0 line(s)

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

**The AERMET Input Meteorological Data Version Date: 15181

**Output Options Selected:

Model Outputs Tables of ANNUAL Averages by Receptor
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) = 55.00 ; 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 = 4.0 MB of RAM.

**Detailed Error/Message File: Bella Mar I-5.err

**File for Summary of Results: Bella Mar I-5.sum

*** AERMOD - VERSION 16216r *** ** C:\AERMOD\8575\Bella Mar I-5\Bella Mar I-5.isc *** 05/30/19
*** AERMET - VERSION 15181 *** ** 10:49:15

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*** MODELOPTs: RegDFAULT CONC ELEV RURAL

*** VOLUME SOURCE DATA ***

SOURCE ID	PART. CATS.	NUMBER EMISSION RATE (GRAMS/SEC)	BASE X (METERS)	RELEASE Y (METERS)	INIT. ELEV. (METERS)	INIT. HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR	EMISSION RATE VARY BY
L0000001	0	0.12660E-05	492715.3	3603665.9	31.0	3.63	3.93	3.38	NO		
L0000002	0	0.12660E-05	492710.8	3603673.0	30.7	3.63	3.93	3.38	NO		
L0000003	0	0.12660E-05	492706.2	3603680.1	30.3	3.63	3.93	3.38	NO		
L0000004	0	0.12660E-05	492701.6	3603687.2	29.9	3.63	3.93	3.38	NO		
L0000005	0	0.12660E-05	492697.1	3603694.3	29.6	3.63	3.93	3.38	NO		
L0000006	0	0.12660E-05	492692.5	3603701.4	29.2	3.63	3.93	3.38	NO		
L0000007	0	0.12660E-05	492688.0	3603708.5	28.8	3.63	3.93	3.38	NO		
L0000008	0	0.12660E-05	492683.4	3603715.6	28.4	3.63	3.93	3.38	NO		
L0000009	0	0.12660E-05	492678.9	3603722.7	28.1	3.63	3.93	3.38	NO		
L0000010	0	0.12660E-05	492674.3	3603729.8	27.8	3.63	3.93	3.38	NO		
L0000011	0	0.12660E-05	492669.7	3603736.9	27.5	3.63	3.93	3.38	NO		
L0000012	0	0.12660E-05	492665.2	3603744.0	27.2	3.63	3.93	3.38	NO		
L0000013	0	0.12660E-05	492660.6	3603751.1	26.9	3.63	3.93	3.38	NO		
L0000014	0	0.12660E-05	492656.1	3603758.2	26.6	3.63	3.93	3.38	NO		
L0000015	0	0.12660E-05	492651.5	3603765.3	26.4	3.63	3.93	3.38	NO		
L0000016	0	0.12660E-05	492647.0	3603772.4	26.1	3.63	3.93	3.38	NO		
L0000017	0	0.12660E-05	492642.4	3603779.5	25.8	3.63	3.93	3.38	NO		
L0000018	0	0.12660E-05	492637.8	3603786.6	25.5	3.63	3.93	3.38	NO		
L0000019	0	0.12660E-05	492633.3	3603793.7	25.2	3.63	3.93	3.38	NO		
L0000020	0	0.12660E-05	492628.7	3603800.8	24.9	3.63	3.93	3.38	NO		
L0000021	0	0.12660E-05	492624.2	3603808.0	24.7	3.63	3.93	3.38	NO		
L0000022	0	0.12660E-05	492619.6	3603815.1	24.6	3.63	3.93	3.38	NO		
L0000023	0	0.12660E-05	492615.0	3603822.2	24.4	3.63	3.93	3.38	NO		

L0000024	0	0.12660E-05	492610.5	3603829.3	24.3	3.63	3.93	3.38	NO
L0000025	0	0.12660E-05	492605.9	3603836.4	24.1	3.63	3.93	3.38	NO
L0000026	0	0.12660E-05	492601.4	3603843.5	24.0	3.63	3.93	3.38	NO
L0000027	0	0.12660E-05	492596.8	3603850.6	23.9	3.63	3.93	3.38	NO
L0000028	0	0.12660E-05	492592.3	3603857.7	23.7	3.63	3.93	3.38	NO
L0000029	0	0.12660E-05	492587.7	3603864.8	23.6	3.63	3.93	3.38	NO
L0000030	0	0.12660E-05	492583.1	3603871.9	23.5	3.63	3.93	3.38	NO
L0000031	0	0.12660E-05	492578.6	3603879.0	23.3	3.63	3.93	3.38	NO
L0000032	0	0.12660E-05	492574.0	3603886.1	23.2	3.63	3.93	3.38	NO
L0000033	0	0.12660E-05	492569.5	3603893.2	23.1	3.63	3.93	3.38	NO
L0000034	0	0.12660E-05	492564.9	3603900.3	23.0	3.63	3.93	3.38	NO
L0000035	0	0.12660E-05	492560.3	3603907.4	22.9	3.63	3.93	3.38	NO
L0000036	0	0.12660E-05	492555.8	3603914.5	22.8	3.63	3.93	3.38	NO
L0000037	0	0.12660E-05	492551.2	3603921.6	22.8	3.63	3.93	3.38	NO
L0000038	0	0.12660E-05	492546.7	3603928.7	22.7	3.63	3.93	3.38	NO
L0000039	0	0.12660E-05	492542.1	3603935.8	22.6	3.63	3.93	3.38	NO
L0000040	0	0.12660E-05	492537.6	3603942.9	22.5	3.63	3.93	3.38	NO

*** AERMOD - VERSION 16216r *** ** C:\AERMOD\8575\Bella Mar I-5\Bella Mar I-5.isc *** 05/30/19
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL

*** VOLUME SOURCE DATA ***

SOURCE ID	CATS.	NUMBER PART.	EMISSION RATE (GRAMS/SEC)	BASE X (METERS)	RELEASE Y (METERS)	INIT. ELEV. (METERS)	INIT. HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR	VARY BY
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L0000041	0	0.12660E-05	492533.0	3603950.0	22.4	3.63	3.93	3.38	NO
L0000042	0	0.12660E-05	492528.4	3603957.1	22.4	3.63	3.93	3.38	NO
L0000043	0	0.12660E-05	492523.9	3603964.2	22.3	3.63	3.93	3.38	NO
L0000044	0	0.12660E-05	492519.3	3603971.3	22.2	3.63	3.93	3.38	NO
L0000045	0	0.12660E-05	492514.8	3603978.4	22.1	3.63	3.93	3.38	NO
L0000046	0	0.12660E-05	492510.2	3603985.5	22.1	3.63	3.93	3.38	NO
L0000047	0	0.12660E-05	492505.7	3603992.6	22.0	3.63	3.93	3.38	NO
L0000048	0	0.12660E-05	492501.1	3603999.7	21.9	3.63	3.93	3.38	NO
L0000049	0	0.12660E-05	492496.5	3604006.8	21.8	3.63	3.93	3.38	NO
L0000050	0	0.12660E-05	492492.0	3604013.9	21.8	3.63	3.93	3.38	NO
L0000051	0	0.12660E-05	492487.4	3604021.1	21.7	3.63	3.93	3.38	NO
L0000052	0	0.12660E-05	492482.9	3604028.2	21.6	3.63	3.93	3.38	NO
L0000053	0	0.12660E-05	492478.3	3604035.3	21.5	3.63	3.93	3.38	NO
L0000054	0	0.12660E-05	492473.7	3604042.4	21.4	3.63	3.93	3.38	NO
L0000055	0	0.12660E-05	492469.2	3604049.5	21.4	3.63	3.93	3.38	NO
L0000056	0	0.12660E-05	492464.6	3604056.6	21.3	3.63	3.93	3.38	NO
L0000057	0	0.12660E-05	492460.1	3604063.7	21.2	3.63	3.93	3.38	NO
L0000058	0	0.12660E-05	492455.5	3604070.8	21.1	3.63	3.93	3.38	NO
L0000059	0	0.12660E-05	492451.0	3604077.9	21.1	3.63	3.93	3.38	NO
L0000060	0	0.12660E-05	492446.4	3604085.0	21.0	3.63	3.93	3.38	NO
L0000061	0	0.12660E-05	492441.8	3604092.1	20.9	3.63	3.93	3.38	NO
L0000062	0	0.12660E-05	492437.3	3604099.2	20.9	3.63	3.93	3.38	NO
L0000063	0	0.12660E-05	492432.7	3604106.3	20.8	3.63	3.93	3.38	NO
L0000064	0	0.12660E-05	492428.2	3604113.4	20.7	3.63	3.93	3.38	NO
L0000065	0	0.12660E-05	492423.4	3604120.4	20.7	3.63	3.93	3.38	NO
L0000066	0	0.12660E-05	492418.7	3604127.3	20.6	3.63	3.93	3.38	NO
L0000067	0	0.12660E-05	492413.9	3604134.3	20.5	3.63	3.93	3.38	NO
L0000068	0	0.12660E-05	492409.1	3604141.3	20.4	3.63	3.93	3.38	NO
L0000069	0	0.12660E-05	492404.4	3604148.2	20.3	3.63	3.93	3.38	NO
L0000070	0	0.12660E-05	492399.6	3604155.2	20.2	3.63	3.93	3.38	NO
L0000071	0	0.12660E-05	492394.8	3604162.2	20.2	3.63	3.93	3.38	NO
L0000072	0	0.12660E-05	492390.1	3604169.2	20.1	3.63	3.93	3.38	NO
L0000073	0	0.12660E-05	492385.3	3604176.1	20.0	3.63	3.93	3.38	NO
L0000074	0	0.12660E-05	492380.6	3604183.1	20.0	3.63	3.93	3.38	NO
L0000075	0	0.12660E-05	492375.8	3604190.1	19.9	3.63	3.93	3.38	NO
L0000076	0	0.12660E-05	492371.0	3604197.0	19.9	3.63	3.93	3.38	NO
L0000077	0	0.12660E-05	492366.3	3604204.0	19.8	3.63	3.93	3.38	NO
L0000078	0	0.12660E-05	492361.5	3604211.0	19.8	3.63	3.93	3.38	NO
L0000079	0	0.12660E-05	492356.7	3604217.9	19.7	3.63	3.93	3.38	NO
L0000080	0	0.12660E-05	492352.0	3604224.9	19.6	3.63	3.93	3.38	NO

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 *** AERMET - VERSION 15181 *** ** 10:49:15

*** MODELOPTs: RegDFAULT CONC ELEV RURAL

*** VOLUME SOURCE DATA ***

SOURCE ID	PART. CATS.	NUMBER EMISSION RATE (GRAMS/SEC) (METERS)	X (METERS)	Y (METERS)	BASE RELEASE ELEV. (METERS)	HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN EMISSION RATE SOURCE SCALAR VARY BY
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L0000081	0	0.12660E-05	492346.7	3604231.5	19.5	3.63	3.93	3.38	NO
L0000082	0	0.12660E-05	492341.5	3604238.1	19.4	3.63	3.93	3.38	NO
L0000083	0	0.12660E-05	492336.2	3604244.7	19.3	3.63	3.93	3.38	NO
L0000084	0	0.12660E-05	492330.9	3604251.3	19.2	3.63	3.93	3.38	NO
L0000085	0	0.12660E-05	492325.7	3604257.9	19.1	3.63	3.93	3.38	NO
L0000086	0	0.12660E-05	492320.4	3604264.5	19.0	3.63	3.93	3.38	NO
L0000087	0	0.12660E-05	492315.1	3604271.1	19.0	3.63	3.93	3.38	NO
L0000088	0	0.12660E-05	492309.9	3604277.7	19.0	3.63	3.93	3.38	NO
L0000089	0	0.12660E-05	492304.6	3604284.3	18.9	3.63	3.93	3.38	NO
L0000090	0	0.12660E-05	492299.3	3604290.9	18.9	3.63	3.93	3.38	NO
L0000091	0	0.12660E-05	492294.1	3604297.5	18.8	3.63	3.93	3.38	NO
L0000092	0	0.12660E-05	492288.8	3604304.1	18.8	3.63	3.93	3.38	NO
L0000093	0	0.12660E-05	492283.5	3604310.6	18.7	3.63	3.93	3.38	NO
L0000094	0	0.12660E-05	492278.3	3604317.2	18.6	3.63	3.93	3.38	NO
L0000095	0	0.12660E-05	492273.0	3604323.8	18.5	3.63	3.93	3.38	NO
L0000096	0	0.12660E-05	492267.7	3604330.4	18.4	3.63	3.93	3.38	NO
L0000097	0	0.12660E-05	492262.5	3604337.0	18.3	3.63	3.93	3.38	NO
L0000098	0	0.12660E-05	492257.2	3604343.6	18.2	3.63	3.93	3.38	NO
L0000099	0	0.12660E-05	492251.9	3604350.2	18.1	3.63	3.93	3.38	NO
L0000100	0	0.12660E-05	492246.7	3604356.8	17.9	3.63	3.93	3.38	NO
L0000101	0	0.12660E-05	492241.4	3604363.4	17.8	3.63	3.93	3.38	NO
L0000102	0	0.12660E-05	492236.2	3604370.0	17.7	3.63	3.93	3.38	NO
L0000103	0	0.12660E-05	492230.9	3604376.6	17.7	3.63	3.93	3.38	NO
L0000104	0	0.12660E-05	492225.6	3604383.2	17.6	3.63	3.93	3.38	NO
L0000105	0	0.12660E-05	492220.4	3604389.8	17.5	3.63	3.93	3.38	NO
L0000106	0	0.12660E-05	492215.1	3604396.4	17.5	3.63	3.93	3.38	NO
L0000107	0	0.12660E-05	492209.8	3604403.0	17.4	3.63	3.93	3.38	NO
L0000108	0	0.12660E-05	492204.6	3604409.6	17.3	3.63	3.93	3.38	NO
L0000109	0	0.12660E-05	492199.3	3604416.2	17.3	3.63	3.93	3.38	NO
L0000110	0	0.12660E-05	492193.8	3604422.6	17.2	3.63	3.93	3.38	NO
L0000111	0	0.12660E-05	492188.3	3604429.0	17.1	3.63	3.93	3.38	NO
L0000112	0	0.12660E-05	492182.8	3604435.4	17.1	3.63	3.93	3.38	NO
L0000113	0	0.12660E-05	492177.3	3604441.8	17.0	3.63	3.93	3.38	NO
L0000114	0	0.12660E-05	492171.7	3604448.1	16.9	3.63	3.93	3.38	NO
L0000115	0	0.12660E-05	492166.2	3604454.5	16.8	3.63	3.93	3.38	NO
L0000116	0	0.12660E-05	492160.7	3604460.9	16.8	3.63	3.93	3.38	NO
L0000117	0	0.12660E-05	492155.1	3604467.3	16.7	3.63	3.93	3.38	NO
L0000118	0	0.12660E-05	492149.6	3604473.6	16.6	3.63	3.93	3.38	NO
L0000119	0	0.12660E-05	492144.1	3604480.0	16.6	3.63	3.93	3.38	NO
L0000120	0	0.12660E-05	492138.6	3604486.4	16.5	3.63	3.93	3.38	NO

*** AERMOD - VERSION 16216r *** C:\AERMOD\8575\Bella Mar I-5\Bella Mar I-5.isc *** 05/30/19
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL

*** VOLUME SOURCE DATA ***

SOURCE ID	PART. CATS.	NUMBER EMISSION RATE (GRAMS/SEC) (METERS)	X (METERS)	Y (METERS)	BASE RELEASE ELEV. (METERS)	HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN EMISSION RATE SOURCE SCALAR VARY BY
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L0000121	0	0.12660E-05	492133.0	3604492.8	16.4	3.63	3.93	3.38	NO
L0000122	0	0.12660E-05	492127.5	3604499.2	16.4	3.63	3.93	3.38	NO
L0000123	0	0.12660E-05	492122.0	3604505.5	16.3	3.63	3.93	3.38	NO
L0000124	0	0.12660E-05	492116.4	3604511.9	16.2	3.63	3.93	3.38	NO
L0000125	0	0.12660E-05	492110.9	3604518.3	16.1	3.63	3.93	3.38	NO
L0000126	0	0.12660E-05	492105.4	3604524.7	16.1	3.63	3.93	3.38	NO
L0000127	0	0.12660E-05	492099.8	3604531.0	16.0	3.63	3.93	3.38	NO
L0000128	0	0.12660E-05	492094.3	3604537.4	15.9	3.63	3.93	3.38	NO

L0000129	0	0.12660E-05	492088.8	3604543.8	15.9	3.63	3.93	3.38	NO
L0000130	0	0.12660E-05	492083.3	3604550.2	15.8	3.63	3.93	3.38	NO
L0000131	0	0.12660E-05	492077.7	3604556.5	15.7	3.63	3.93	3.38	NO
L0000132	0	0.12660E-05	492072.2	3604562.9	15.6	3.63	3.93	3.38	NO
L0000133	0	0.12660E-05	492066.7	3604569.3	15.6	3.63	3.93	3.38	NO
L0000134	0	0.12660E-05	492061.3	3604575.8	15.5	3.63	3.93	3.38	NO
L0000135	0	0.12660E-05	492055.9	3604582.3	15.4	3.63	3.93	3.38	NO
L0000136	0	0.12660E-05	492050.6	3604588.8	15.4	3.63	3.93	3.38	NO
L0000137	0	0.12660E-05	492045.2	3604595.4	15.3	3.63	3.93	3.38	NO
L0000138	0	0.12660E-05	492039.9	3604601.9	15.2	3.63	3.93	3.38	NO
L0000139	0	0.12660E-05	492034.5	3604608.4	15.2	3.63	3.93	3.38	NO
L0000140	0	0.12660E-05	492029.2	3604614.9	15.1	3.63	3.93	3.38	NO
L0000141	0	0.12660E-05	492023.8	3604621.5	15.0	3.63	3.93	3.38	NO
L0000142	0	0.12660E-05	492018.5	3604628.0	15.0	3.63	3.93	3.38	NO
L0000143	0	0.12660E-05	492013.1	3604634.5	14.9	3.63	3.93	3.38	NO
L0000144	0	0.12660E-05	492008.3	3604641.5	14.8	3.63	3.93	3.38	NO
L0000145	0	0.12660E-05	492003.6	3604648.5	14.8	3.63	3.93	3.38	NO
L0000146	0	0.12660E-05	491999.0	3604655.5	14.7	3.63	3.93	3.38	NO
L0000147	0	0.12660E-05	491994.3	3604662.5	14.6	3.63	3.93	3.38	NO
L0000148	0	0.12660E-05	491989.6	3604669.5	14.6	3.63	3.93	3.38	NO
L0000149	0	0.12660E-05	491984.9	3604676.6	14.5	3.63	3.93	3.38	NO
L0000150	0	0.12660E-05	491980.2	3604683.6	14.5	3.63	3.93	3.38	NO
L0000151	0	0.12660E-05	491975.5	3604690.6	14.4	3.63	3.93	3.38	NO
L0000152	0	0.12660E-05	491970.9	3604697.6	14.3	3.63	3.93	3.38	NO
L0000153	0	0.12660E-05	491966.2	3604704.7	14.3	3.63	3.93	3.38	NO
L0000154	0	0.12660E-05	491961.5	3604711.7	14.2	3.63	3.93	3.38	NO
L0000155	0	0.12660E-05	491956.8	3604718.7	14.2	3.63	3.93	3.38	NO
L0000156	0	0.12660E-05	491952.1	3604725.7	14.1	3.63	3.93	3.38	NO
L0000157	0	0.12660E-05	491947.5	3604732.7	14.0	3.63	3.93	3.38	NO
L0000158	0	0.12660E-05	491943.2	3604740.0	14.0	3.63	3.93	3.38	NO
L0000159	0	0.12660E-05	491939.1	3604747.4	13.9	3.63	3.93	3.38	NO
L0000160	0	0.12660E-05	491935.1	3604754.8	13.8	3.63	3.93	3.38	NO

*** AERMOD - VERSION 16216r *** ** C:\AERMOD\8575\Bella Mar I-5\Bella Mar I-5.isc *** 05/30/19
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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** VOLUME SOURCE DATA ***

SOURCE ID	PART. CATS.	NUMBER EMISSION RATE (GRAMS/SEC) (METERS)	BASE X (METERS)	RELEASE Y (METERS)	INIT. ELEV. (METERS)	INIT. HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN EMISSION RATE SOURCE SCALAR VARY BY
L0000161	0	0.12660E-05	491931.0	3604762.2	13.7	3.63	3.93	3.38	NO
L0000162	0	0.12660E-05	491926.9	3604769.6	13.6	3.63	3.93	3.38	NO
L0000163	0	0.12660E-05	491922.9	3604777.0	13.5	3.63	3.93	3.38	NO
L0000164	0	0.12660E-05	491918.8	3604784.4	13.4	3.63	3.93	3.38	NO
L0000165	0	0.12660E-05	491914.7	3604791.8	13.2	3.63	3.93	3.38	NO
L0000166	0	0.12660E-05	491910.7	3604799.2	13.2	3.63	3.93	3.38	NO
L0000167	0	0.12660E-05	491906.6	3604806.6	13.0	3.63	3.93	3.38	NO
L0000168	0	0.12660E-05	491902.6	3604814.0	12.9	3.63	3.93	3.38	NO
L0000169	0	0.12660E-05	491898.5	3604821.4	12.8	3.63	3.93	3.38	NO
L0000170	0	0.12660E-05	491894.4	3604828.8	12.8	3.63	3.93	3.38	NO
L0000171	0	0.12660E-05	491890.4	3604836.2	12.7	3.63	3.93	3.38	NO
L0000172	0	0.12660E-05	491886.3	3604843.6	12.7	3.63	3.93	3.38	NO
L0000173	0	0.12660E-05	491882.2	3604851.0	12.7	3.63	3.93	3.38	NO
L0000174	0	0.12660E-05	491878.2	3604858.4	12.6	3.63	3.93	3.38	NO
L0000175	0	0.12660E-05	491874.1	3604865.8	12.6	3.63	3.93	3.38	NO
L0000176	0	0.12660E-05	491870.5	3604873.4	12.6	3.63	3.93	3.38	NO
L0000177	0	0.12660E-05	491867.9	3604881.4	12.7	3.63	3.93	3.38	NO
L0000178	0	0.12660E-05	491865.3	3604889.4	12.7	3.63	3.93	3.38	NO
L0000179	0	0.12660E-05	491862.7	3604897.5	12.7	3.63	3.93	3.38	NO
L0000180	0	0.12660E-05	491860.1	3604905.5	12.8	3.63	3.93	3.38	NO
L0000181	0	0.12660E-05	491857.5	3604913.5	12.8	3.63	3.93	3.38	NO
L0000182	0	0.12660E-05	491854.9	3604921.6	12.7	3.63	3.93	3.38	NO
L0000183	0	0.12660E-05	491852.3	3604929.6	12.5	3.63	3.93	3.38	NO
L0000184	0	0.12660E-05	491849.7	3604937.6	12.4	3.63	3.93	3.38	NO
L0000185	0	0.12660E-05	491847.1	3604945.6	12.3	3.63	3.93	3.38	NO
L0000186	0	0.12660E-05	491844.5	3604953.7	12.2	3.63	3.93	3.38	NO
L0000187	0	0.12660E-05	491841.9	3604961.7	12.0	3.63	3.93	3.38	NO

L0000188	0	0.12660E-05	491839.3	3604969.7	11.9	3.63	3.93	3.38	NO
L0000189	0	0.12660E-05	491836.8	3604977.8	11.8	3.63	3.93	3.38	NO
L0000190	0	0.12660E-05	491834.2	3604985.8	11.7	3.63	3.93	3.38	NO
L0000191	0	0.12660E-05	491831.6	3604993.8	11.6	3.63	3.93	3.38	NO
L0000192	0	0.12660E-05	491829.0	3605001.9	11.6	3.63	3.93	3.38	NO
L0000193	0	0.12660E-05	491826.4	3605009.9	11.5	3.63	3.93	3.38	NO
L0000194	0	0.12660E-05	491823.8	3605017.9	11.5	3.63	3.93	3.38	NO
L0000195	0	0.12660E-05	491821.2	3605026.0	11.4	3.63	3.93	3.38	NO
L0000196	0	0.12660E-05	491818.6	3605034.0	11.4	3.63	3.93	3.38	NO
L0000197	0	0.12660E-05	491816.0	3605042.0	11.4	3.63	3.93	3.38	NO
L0000198	0	0.12660E-05	491813.4	3605050.1	11.3	3.63	3.93	3.38	NO
L0000199	0	0.12660E-05	491810.8	3605058.1	11.3	3.63	3.93	3.38	NO
L0000200	0	0.12660E-05	491808.2	3605066.1	11.3	3.63	3.93	3.38	NO

*** AERMOD - VERSION 16216r *** ** C:\AERMOD\8575\Bella Mar I-5\Bella Mar I-5.isc *** 05/30/19
 *** AERMET - VERSION 15181 *** ** 10:49:15

*** MODELOPTs: RegDFAULT CONC ELEV RURAL

*** VOLUME SOURCE DATA ***

SOURCE ID	PART. CATS.	EMISSION RATE (GRAMS/SEC) (METERS)	BASE X (METERS)	RELEASE Y (METERS)	INIT. ELEV. (METERS)	INIT. HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN EMISSION RATE (METERS)	EMISSION SCALAR VARY BY
L0000201	0	0.12660E-05	491806.4	3605074.3	11.2	3.63	3.93	3.38	NO	
L0000202	0	0.12660E-05	491804.8	3605082.6	11.2	3.63	3.93	3.38	NO	
L0000203	0	0.12660E-05	491803.2	3605090.9	11.2	3.63	3.93	3.38	NO	
L0000204	0	0.12660E-05	491801.6	3605099.2	11.2	3.63	3.93	3.38	NO	
L0000205	0	0.12660E-05	491800.1	3605107.5	11.1	3.63	3.93	3.38	NO	
L0000206	0	0.12660E-05	491798.5	3605115.8	11.0	3.63	3.93	3.38	NO	
L0000207	0	0.12660E-05	491796.9	3605124.1	10.9	3.63	3.93	3.38	NO	
L0000208	0	0.12660E-05	491795.4	3605132.4	10.8	3.63	3.93	3.38	NO	
L0000209	0	0.12660E-05	491793.9	3605140.7	10.7	3.63	3.93	3.38	NO	
L0000210	0	0.12660E-05	491793.4	3605149.1	10.6	3.63	3.93	3.38	NO	
L0000211	0	0.12660E-05	491792.8	3605157.5	10.5	3.63	3.93	3.38	NO	
L0000212	0	0.12660E-05	491792.2	3605166.0	10.4	3.63	3.93	3.38	NO	
L0000213	0	0.12660E-05	491791.6	3605174.4	10.3	3.63	3.93	3.38	NO	
L0000214	0	0.12660E-05	491791.1	3605182.8	10.2	3.63	3.93	3.38	NO	
L0000215	0	0.12660E-05	491790.5	3605191.2	10.1	3.63	3.93	3.38	NO	
L0000216	0	0.12660E-05	491789.9	3605199.6	10.0	3.63	3.93	3.38	NO	
L0000217	0	0.12660E-05	491789.3	3605208.1	9.9	3.63	3.93	3.38	NO	
L0000218	0	0.12660E-05	491788.7	3605216.5	9.8	3.63	3.93	3.38	NO	
L0000219	0	0.12660E-05	491788.2	3605224.9	9.7	3.63	3.93	3.38	NO	
L0000220	0	0.12660E-05	491787.7	3605233.3	9.6	3.63	3.93	3.38	NO	
L0000221	0	0.12660E-05	491787.3	3605241.8	9.5	3.63	3.93	3.38	NO	
L0000222	0	0.12660E-05	491786.9	3605250.2	9.4	3.63	3.93	3.38	NO	
L0000223	0	0.12660E-05	491786.6	3605258.6	9.3	3.63	3.93	3.38	NO	
L0000224	0	0.12660E-05	491786.2	3605267.1	9.2	3.63	3.93	3.38	NO	
L0000225	0	0.12660E-05	491785.8	3605275.5	9.1	3.63	3.93	3.38	NO	
L0000226	0	0.12660E-05	491785.4	3605283.9	9.0	3.63	3.93	3.38	NO	
L0000227	0	0.12660E-05	491785.0	3605292.3	8.9	3.63	3.93	3.38	NO	
L0000228	0	0.12660E-05	491784.6	3605300.8	8.8	3.63	3.93	3.38	NO	
L0000229	0	0.12660E-05	491784.3	3605309.2	8.7	3.63	3.93	3.38	NO	
L0000230	0	0.12660E-05	491783.9	3605317.6	8.6	3.63	3.93	3.38	NO	
L0000231	0	0.12660E-05	491783.5	3605326.1	8.5	3.63	3.93	3.38	NO	
L0000232	0	0.12660E-05	491783.1	3605334.5	8.4	3.63	3.93	3.38	NO	
L0000233	0	0.12660E-05	491782.7	3605342.9	8.4	3.63	3.93	3.38	NO	
L0000234	0	0.12660E-05	491782.4	3605351.4	8.3	3.63	3.93	3.38	NO	
L0000235	0	0.12660E-05	491782.0	3605359.8	8.2	3.63	3.93	3.38	NO	
L0000236	0	0.12660E-05	491781.6	3605368.2	8.1	3.63	3.93	3.38	NO	
L0000237	0	0.12660E-05	491781.2	3605376.7	8.0	3.63	3.93	3.38	NO	
L0000238	0	0.12660E-05	491780.8	3605385.1	7.9	3.63	3.93	3.38	NO	
L0000239	0	0.12660E-05	491780.5	3605393.5	7.8	3.63	3.93	3.38	NO	
L0000240	0	0.12660E-05	491780.1	3605402.0	7.7	3.63	3.93	3.38	NO	

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 *** AERMET - VERSION 15181 *** ** 10:49:15

*** MODELOPTs: RegDFAULT CONC ELEV RURAL

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC) (METERS)	BASE X (METERS)	RELEASE Y (METERS)	INIT. ELEV. (METERS)	INIT. HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN EMISSION RATE SOURCE SCALAR VARY BY
L0000241	0	0.12660E-05	491779.7	3605410.4	7.6	3.63	3.93	3.38	NO
L0000242	0	0.12660E-05	491779.3	3605418.8	7.5	3.63	3.93	3.38	NO
L0000243	0	0.12660E-05	491778.9	3605427.2	7.5	3.63	3.93	3.38	NO
L0000244	0	0.12660E-05	491778.5	3605435.7	7.4	3.63	3.93	3.38	NO
L0000245	0	0.12660E-05	491778.2	3605444.1	7.3	3.63	3.93	3.38	NO
L0000246	0	0.12660E-05	491777.3	3605452.5	7.2	3.63	3.93	3.38	NO
L0000247	0	0.12660E-05	491776.3	3605460.9	7.1	3.63	3.93	3.38	NO
L0000248	0	0.12660E-05	491775.3	3605469.3	7.0	3.63	3.93	3.38	NO
L0000249	0	0.12660E-05	491774.3	3605477.6	7.0	3.63	3.93	3.38	NO
L0000250	0	0.12660E-05	491773.3	3605486.0	7.0	3.63	3.93	3.38	NO
L0000251	0	0.12660E-05	491772.4	3605494.4	7.0	3.63	3.93	3.38	NO
L0000252	0	0.12660E-05	491771.4	3605502.8	6.9	3.63	3.93	3.38	NO
L0000253	0	0.12660E-05	491770.4	3605511.2	6.9	3.63	3.93	3.38	NO
L0000254	0	0.12660E-05	491769.4	3605519.6	6.9	3.63	3.93	3.38	NO
L0000255	0	0.12660E-05	491768.4	3605527.9	6.8	3.63	3.93	3.38	NO
L0000256	0	0.12660E-05	491767.4	3605536.3	6.8	3.63	3.93	3.38	NO
L0000257	0	0.12660E-05	491766.4	3605544.7	6.8	3.63	3.93	3.38	NO
L0000258	0	0.12660E-05	491765.4	3605553.1	6.7	3.63	3.93	3.38	NO
L0000259	0	0.12660E-05	491764.4	3605561.5	6.7	3.63	3.93	3.38	NO
L0000260	0	0.12660E-05	491763.4	3605569.8	6.6	3.63	3.93	3.38	NO
L0000261	0	0.12660E-05	491762.4	3605578.2	6.5	3.63	3.93	3.38	NO
L0000262	0	0.12660E-05	491761.5	3605586.6	6.5	3.63	3.93	3.38	NO
L0000263	0	0.12660E-05	491760.5	3605595.0	6.4	3.63	3.93	3.38	NO
L0000264	0	0.12660E-05	491759.5	3605603.4	6.3	3.63	3.93	3.38	NO
L0000265	0	0.12660E-05	491758.5	3605611.8	6.3	3.63	3.93	3.38	NO
L0000266	0	0.12660E-05	491757.5	3605620.1	6.2	3.63	3.93	3.38	NO
L0000267	0	0.12660E-05	491756.5	3605628.5	6.2	3.63	3.93	3.38	NO
L0000268	0	0.12660E-05	491755.5	3605636.9	6.1	3.63	3.93	3.38	NO
L0000269	0	0.12660E-05	491754.5	3605645.3	6.1	3.63	3.93	3.38	NO
L0000270	0	0.12660E-05	491753.5	3605653.7	6.0	3.63	3.93	3.38	NO
L0000271	0	0.12660E-05	491752.5	3605662.0	6.0	3.63	3.93	3.38	NO
L0000272	0	0.12660E-05	491751.5	3605670.4	5.9	3.63	3.93	3.38	NO
L0000273	0	0.12660E-05	491750.6	3605678.8	5.9	3.63	3.93	3.38	NO
L0000274	0	0.12660E-05	491749.6	3605687.2	5.8	3.63	3.93	3.38	NO
L0000275	0	0.12660E-05	491748.6	3605695.6	5.8	3.63	3.93	3.38	NO
L0000276	0	0.12660E-05	491747.6	3605704.0	5.7	3.63	3.93	3.38	NO
L0000277	0	0.12660E-05	491746.6	3605712.3	5.7	3.63	3.93	3.38	NO
L0000278	0	0.12660E-05	491745.6	3605720.7	5.6	3.63	3.93	3.38	NO
L0000279	0	0.12660E-05	491744.6	3605729.1	5.5	3.63	3.93	3.38	NO
L0000280	0	0.12660E-05	491743.6	3605737.5	5.5	3.63	3.93	3.38	NO

*** AERMOD - VERSION 16216r *** ** C:\AERMOD\8575\Bella Mar I-5\Bella Mar I-5.isc *** 05/30/19
 *** AERMET - VERSION 15181 *** ** 10:49:15

*** MODELOPTs: RegDFault CONC ELEV RURAL

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC) (METERS)	BASE X (METERS)	RELEASE Y (METERS)	INIT. ELEV. (METERS)	INIT. HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN EMISSION RATE SOURCE SCALAR VARY BY
L0000281	0	0.12660E-05	491742.6	3605745.9	5.4	3.63	3.93	3.38	NO
L0000282	0	0.12660E-05	491741.6	3605754.2	5.4	3.63	3.93	3.38	NO
L0000283	0	0.12660E-05	491740.6	3605762.6	5.3	3.63	3.93	3.38	NO
L0000284	0	0.12660E-05	491739.7	3605771.0	5.3	3.63	3.93	3.38	NO
L0000285	0	0.12660E-05	491738.7	3605779.4	5.2	3.63	3.93	3.38	NO
L0000286	0	0.12660E-05	491737.7	3605787.8	5.2	3.63	3.93	3.38	NO
L0000287	0	0.12660E-05	491736.7	3605796.1	5.2	3.63	3.93	3.38	NO
L0000288	0	0.12660E-05	491735.7	3605804.5	5.1	3.63	3.93	3.38	NO
L0000289	0	0.12660E-05	491734.7	3605812.9	5.1	3.63	3.93	3.38	NO
L0000290	0	0.12660E-05	491733.7	3605821.3	5.1	3.63	3.93	3.38	NO
L0000291	0	0.12660E-05	491732.7	3605829.7	5.0	3.63	3.93	3.38	NO
L0000292	0	0.12660E-05	491731.7	3605838.1	5.0	3.63	3.93	3.38	NO

L0000293	0	0.12660E-05	491730.7	3605846.4	4.9	3.63	3.93	3.38	NO
L0000294	0	0.12660E-05	491729.7	3605854.8	4.9	3.63	3.93	3.38	NO
L0000295	0	0.12660E-05	491728.8	3605863.2	4.8	3.63	3.93	3.38	NO
L0000296	0	0.12660E-05	491727.8	3605871.6	4.7	3.63	3.93	3.38	NO
L0000297	0	0.12660E-05	491726.8	3605880.0	4.6	3.63	3.93	3.38	NO
L0000298	0	0.12660E-05	491725.8	3605888.3	4.6	3.63	3.93	3.38	NO
L0000299	0	0.12660E-05	491724.8	3605896.7	4.5	3.63	3.93	3.38	NO
L0000300	0	0.12660E-05	491723.8	3605905.1	4.4	3.63	3.93	3.38	NO
L0000301	0	0.12660E-05	491722.8	3605913.5	4.3	3.63	3.93	3.38	NO
L0000302	0	0.12660E-05	491721.8	3605921.9	4.2	3.63	3.93	3.38	NO
L0000303	0	0.12660E-05	491720.8	3605930.3	4.1	3.63	3.93	3.38	NO
L0000304	0	0.12660E-05	491719.8	3605938.6	4.1	3.63	3.93	3.38	NO
L0000305	0	0.12660E-05	491718.8	3605947.0	4.1	3.63	3.93	3.38	NO
L0000306	0	0.12660E-05	491717.9	3605955.4	4.1	3.63	3.93	3.38	NO
L0000307	0	0.12660E-05	491716.9	3605963.8	4.0	3.63	3.93	3.38	NO
L0000308	0	0.12660E-05	491715.9	3605972.2	4.0	3.63	3.93	3.38	NO
L0000309	0	0.12660E-05	491714.9	3605980.5	4.0	3.63	3.93	3.38	NO
L0000310	0	0.12660E-05	491713.9	3605988.9	4.0	3.63	3.93	3.38	NO
L0000311	0	0.12660E-05	491712.9	3605997.3	4.0	3.63	3.93	3.38	NO
L0000312	0	0.12660E-05	491711.9	3606005.7	4.0	3.63	3.93	3.38	NO
L0000313	0	0.12660E-05	491710.9	3606014.1	4.0	3.63	3.93	3.38	NO
L0000314	0	0.12660E-05	491709.9	3606022.5	4.0	3.63	3.93	3.38	NO
L0000315	0	0.12660E-05	491708.9	3606030.8	4.0	3.63	3.93	3.38	NO
L0000316	0	0.12660E-05	491707.9	3606039.2	4.0	3.63	3.93	3.38	NO
L0000317	0	0.12660E-05	491707.0	3606047.6	4.0	3.63	3.93	3.38	NO
L0000318	0	0.12660E-05	491706.0	3606056.0	4.0	3.63	3.93	3.38	NO
L0000319	0	0.12660E-05	491705.0	3606064.4	4.0	3.63	3.93	3.38	NO
L0000320	0	0.12660E-05	491704.0	3606072.7	4.0	3.63	3.93	3.38	NO

*** AERMOD - VERSION 16216r *** ** C:\AERMOD\8575\Bella Mar I-5\Bella Mar I-5.isc *** 05/30/19
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL

*** VOLUME SOURCE DATA ***

SOURCE ID	PART. CATS.	EMISSION RATE (GRAMS/SEC) (METERS)	BASE X (METERS)	RELEASE Y (METERS)	INIT. ELEV. (METERS)	INIT. HEIGHT (METERS)	SY (METERS)	SZ (METERS)	URBAN EMISSION RATE (METERS)	EMISSION SCALAR VARY BY
L0000321	0	0.12660E-05	491703.0	3606081.1	3.9	3.63	3.93	3.38	NO	
L0000322	0	0.12660E-05	491702.0	3606089.5	3.9	3.63	3.93	3.38	NO	
L0000323	0	0.12660E-05	491701.0	3606097.9	3.9	3.63	3.93	3.38	NO	
L0000324	0	0.12660E-05	491700.0	3606106.3	3.9	3.63	3.93	3.38	NO	
L0000325	0	0.12660E-05	491699.0	3606114.7	3.9	3.63	3.93	3.38	NO	
L0000326	0	0.12660E-05	491698.0	3606123.0	3.8	3.63	3.93	3.38	NO	
L0000327	0	0.12660E-05	491697.0	3606131.4	3.8	3.63	3.93	3.38	NO	
L0000328	0	0.12660E-05	491696.0	3606139.8	3.8	3.63	3.93	3.38	NO	
L0000329	0	0.12660E-05	491695.0	3606148.2	3.8	3.63	3.93	3.38	NO	
L0000330	0	0.12660E-05	491693.9	3606156.5	3.8	3.63	3.93	3.38	NO	
L0000331	0	0.12660E-05	491692.9	3606164.9	3.8	3.63	3.93	3.38	NO	
L0000332	0	0.12660E-05	491691.9	3606173.3	3.8	3.63	3.93	3.38	NO	
L0000333	0	0.12660E-05	491690.9	3606181.7	3.8	3.63	3.93	3.38	NO	
L0000334	0	0.12660E-05	491689.8	3606190.1	3.7	3.63	3.93	3.38	NO	
L0000335	0	0.12660E-05	491688.8	3606198.4	3.7	3.63	3.93	3.38	NO	
L0000336	0	0.12660E-05	491687.8	3606206.8	3.7	3.63	3.93	3.38	NO	
L0000337	0	0.12660E-05	491686.7	3606215.2	3.7	3.63	3.93	3.38	NO	
L0000338	0	0.12660E-05	491685.7	3606223.6	3.7	3.63	3.93	3.38	NO	
L0000339	0	0.12660E-05	491684.7	3606231.9	3.8	3.63	3.93	3.38	NO	
L0000340	0	0.12660E-05	491683.7	3606240.3	3.8	3.63	3.93	3.38	NO	
L0000341	0	0.12660E-05	491682.6	3606248.7	3.8	3.63	3.93	3.38	NO	
L0000342	0	0.12660E-05	491681.6	3606257.1	3.8	3.63	3.93	3.38	NO	
L0000343	0	0.12660E-05	491680.6	3606265.4	3.8	3.63	3.93	3.38	NO	
L0000344	0	0.12660E-05	491679.6	3606273.8	3.9	3.63	3.93	3.38	NO	
L0000345	0	0.12660E-05	491678.5	3606282.2	3.9	3.63	3.93	3.38	NO	
L0000346	0	0.12660E-05	491677.5	3606290.6	3.9	3.63	3.93	3.38	NO	
L0000347	0	0.12660E-05	491676.5	3606299.0	4.0	3.63	3.93	3.38	NO	
L0000348	0	0.12660E-05	491675.5	3606307.3	4.0	3.63	3.93	3.38	NO	
L0000349	0	0.12660E-05	491674.4	3606315.7	4.0	3.63	3.93	3.38	NO	
L0000350	0	0.12660E-05	491673.4	3606324.1	4.0	3.63	3.93	3.38	NO	
L0000351	0	0.12660E-05	491672.4	3606332.5	4.0	3.63	3.93	3.38	NO	

L0000352	0	0.12660E-05	491671.3	3606340.8	4.0	3.63	3.93	3.38	NO
L0000353	0	0.12660E-05	491670.3	3606349.2	4.0	3.63	3.93	3.38	NO
L0000354	0	0.12660E-05	491669.3	3606357.6	4.0	3.63	3.93	3.38	NO
L0000355	0	0.12660E-05	491668.3	3606366.0	4.0	3.63	3.93	3.38	NO
L0000356	0	0.12660E-05	491667.2	3606374.4	4.0	3.63	3.93	3.38	NO
L0000357	0	0.12660E-05	491666.2	3606382.7	4.0	3.63	3.93	3.38	NO
L0000358	0	0.12660E-05	491665.2	3606391.1	4.0	3.63	3.93	3.38	NO
L0000359	0	0.12660E-05	491664.2	3606399.5	4.0	3.63	3.93	3.38	NO
L0000360	0	0.12660E-05	491663.1	3606407.9	4.0	3.63	3.93	3.38	NO

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*** MODELOPTs: RegDFAULT CONC ELEV RURAL

*** VOLUME SOURCE DATA ***

SOURCE ID	PART. CATS.	EMISSION RATE (GRAMS/SEC) (METERS)	BASE X (METERS)	RELEASE Y (METERS)	INIT. ELEV. (METERS)	INIT. HEIGHT (METERS)	SY	SZ	URBAN EMISSION RATE (METERS)	EMISSION SCALAR VARY BY
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L0000361	0	0.12660E-05	491662.1	3606416.2	4.0	3.63	3.93	3.38	NO
L0000362	0	0.12660E-05	491661.1	3606424.6	4.0	3.63	3.93	3.38	NO
L0000363	0	0.12660E-05	491660.1	3606433.0	4.0	3.63	3.93	3.38	NO
L0000364	0	0.12660E-05	491659.0	3606441.4	4.0	3.63	3.93	3.38	NO
L0000365	0	0.12660E-05	491658.0	3606449.8	4.0	3.63	3.93	3.38	NO
L0000366	0	0.12660E-05	491657.0	3606458.1	4.0	3.63	3.93	3.38	NO
L0000367	0	0.12660E-05	491655.9	3606466.5	4.0	3.63	3.93	3.38	NO
L0000368	0	0.12660E-05	491654.9	3606474.9	4.0	3.63	3.93	3.38	NO
L0000369	0	0.12660E-05	491653.9	3606483.3	4.0	3.63	3.93	3.38	NO
L0000370	0	0.12660E-05	491652.9	3606491.6	4.0	3.63	3.93	3.38	NO
L0000371	0	0.12660E-05	491651.8	3606500.0	4.0	3.63	3.93	3.38	NO
L0000372	0	0.12660E-05	491650.8	3606508.4	4.1	3.63	3.93	3.38	NO
L0000373	0	0.12660E-05	491649.8	3606516.8	4.1	3.63	3.93	3.38	NO
L0000374	0	0.12660E-05	491648.8	3606525.1	4.1	3.63	3.93	3.38	NO
L0000375	0	0.12660E-05	491647.7	3606533.5	4.1	3.63	3.93	3.38	NO
L0000376	0	0.12660E-05	491646.7	3606541.9	4.1	3.63	3.93	3.38	NO
L0000377	0	0.12660E-05	491645.7	3606550.3	4.1	3.63	3.93	3.38	NO
L0000378	0	0.12660E-05	491644.7	3606558.7	4.1	3.63	3.93	3.38	NO
L0000379	0	0.12660E-05	491643.6	3606567.0	4.1	3.63	3.93	3.38	NO
L0000380	0	0.12660E-05	491642.6	3606575.4	4.1	3.63	3.93	3.38	NO
L0000381	0	0.12660E-05	491641.6	3606583.8	4.1	3.63	3.93	3.38	NO
L0000382	0	0.12660E-05	491640.5	3606592.2	4.1	3.63	3.93	3.38	NO
L0000383	0	0.12660E-05	491639.5	3606600.5	4.1	3.63	3.93	3.38	NO
L0000384	0	0.12660E-05	491638.5	3606608.9	4.1	3.63	3.93	3.38	NO
L0000385	0	0.12660E-05	491637.5	3606617.3	4.1	3.63	3.93	3.38	NO
L0000386	0	0.12660E-05	491636.4	3606625.7	4.0	3.63	3.93	3.38	NO
L0000387	0	0.12660E-05	491635.4	3606634.1	4.0	3.63	3.93	3.38	NO
L0000388	0	0.12660E-05	491634.5	3606642.4	4.0	3.63	3.93	3.38	NO
L0000389	0	0.12660E-05	491633.6	3606650.8	4.0	3.63	3.93	3.38	NO
L0000390	0	0.12660E-05	491632.6	3606659.2	4.0	3.63	3.93	3.38	NO
L0000391	0	0.12660E-05	491631.7	3606667.6	4.0	3.63	3.93	3.38	NO
L0000392	0	0.12660E-05	491630.8	3606676.0	4.0	3.63	3.93	3.38	NO
L0000393	0	0.12660E-05	491629.8	3606684.4	4.0	3.63	3.93	3.38	NO
L0000394	0	0.12660E-05	491628.9	3606692.8	4.0	3.63	3.93	3.38	NO
L0000395	0	0.12660E-05	491628.0	3606701.2	4.0	3.63	3.93	3.38	NO
L0000396	0	0.12660E-05	491627.1	3606709.5	4.0	3.63	3.93	3.38	NO
L0000397	0	0.12660E-05	491626.1	3606717.9	4.0	3.63	3.93	3.38	NO
L0000398	0	0.12660E-05	491625.2	3606726.3	4.0	3.63	3.93	3.38	NO
L0000399	0	0.12660E-05	491624.3	3606734.7	4.0	3.63	3.93	3.38	NO
L0000400	0	0.12660E-05	491623.3	3606743.1	4.0	3.63	3.93	3.38	NO

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*** MODELOPTs: RegDFAULT CONC ELEV RURAL

*** VOLUME SOURCE DATA ***

SOURCE ID	PART. CATS.	EMISSION RATE (GRAMS/SEC)	BASE X (METERS)	RELEASE Y (METERS)	INIT. ELEV. (METERS)	INIT. HEIGHT (METERS)	SY	SZ	URBAN EMISSION RATE (METERS)	EMISSION SCALAR VARY BY
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ID	CATS.	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	BY
L0000401	0	0.12660E-05	491622.4	3606751.5	4.0	3.63	3.93	3.38 NO
L0000402	0	0.12660E-05	491621.5	3606759.9	4.0	3.63	3.93	3.38 NO
L0000403	0	0.12660E-05	491620.6	3606768.3	4.0	3.63	3.93	3.38 NO
L0000404	0	0.12660E-05	491619.6	3606776.7	4.0	3.63	3.93	3.38 NO
L0000405	0	0.12660E-05	491618.7	3606785.0	4.0	3.63	3.93	3.38 NO
L0000406	0	0.12660E-05	491617.8	3606793.4	4.0	3.63	3.93	3.38 NO
L0000407	0	0.12660E-05	491616.8	3606801.8	4.0	3.63	3.93	3.38 NO
L0000408	0	0.12660E-05	491615.9	3606810.2	4.0	3.63	3.93	3.38 NO
L0000409	0	0.12660E-05	491615.0	3606818.6	4.0	3.63	3.93	3.38 NO
L0000410	0	0.12660E-05	491614.1	3606827.0	4.0	3.63	3.93	3.38 NO
L0000411	0	0.12660E-05	491613.1	3606835.4	4.0	3.63	3.93	3.38 NO
L0000412	0	0.12660E-05	491612.2	3606843.8	4.0	3.63	3.93	3.38 NO
L0000413	0	0.12660E-05	491611.3	3606852.2	4.0	3.63	3.93	3.38 NO
L0000414	0	0.12660E-05	491610.3	3606860.5	4.0	3.63	3.93	3.38 NO
L0000415	0	0.12660E-05	491609.4	3606868.9	4.0	3.63	3.93	3.38 NO
L0000416	0	0.12660E-05	491608.5	3606877.3	4.0	3.63	3.93	3.38 NO
L0000417	0	0.12660E-05	491607.6	3606885.7	4.0	3.63	3.93	3.38 NO
L0000418	0	0.12660E-05	491606.6	3606894.1	4.0	3.63	3.93	3.38 NO
L0000419	0	0.12660E-05	491605.7	3606902.5	4.0	3.63	3.93	3.38 NO
L0000420	0	0.12660E-05	491604.8	3606910.9	4.0	3.63	3.93	3.38 NO
L0000421	0	0.12660E-05	491603.9	3606919.3	4.0	3.63	3.93	3.38 NO
L0000422	0	0.12660E-05	491603.0	3606927.7	4.0	3.63	3.93	3.38 NO
L0000423	0	0.12660E-05	491602.2	3606936.1	4.0	3.63	3.93	3.38 NO
L0000424	0	0.12660E-05	491601.4	3606944.5	4.0	3.63	3.93	3.38 NO
L0000425	0	0.12660E-05	491600.6	3606952.9	4.0	3.63	3.93	3.38 NO
L0000426	0	0.12660E-05	491599.7	3606961.3	4.0	3.63	3.93	3.38 NO
L0000427	0	0.12660E-05	491598.9	3606969.7	4.0	3.63	3.93	3.38 NO
L0000428	0	0.12660E-05	491598.1	3606978.1	4.0	3.63	3.93	3.38 NO
L0000429	0	0.12660E-05	491597.3	3606986.5	4.0	3.63	3.93	3.38 NO
L0000430	0	0.12660E-05	491596.5	3606994.9	4.0	3.63	3.93	3.38 NO
L0000431	0	0.12660E-05	491595.7	3607003.3	4.0	3.63	3.93	3.38 NO
L0000432	0	0.12660E-05	491594.9	3607011.7	4.0	3.63	3.93	3.38 NO
L0000433	0	0.12660E-05	491594.1	3607020.1	4.0	3.63	3.93	3.38 NO
L0000434	0	0.12660E-05	491593.2	3607028.5	4.0	3.63	3.93	3.38 NO
L0000435	0	0.12660E-05	491592.4	3607036.9	4.0	3.63	3.93	3.38 NO
L0000436	0	0.12660E-05	491591.6	3607045.3	4.0	3.63	3.93	3.38 NO
L0000437	0	0.12660E-05	491590.8	3607053.7	4.0	3.63	3.93	3.38 NO
L0000438	0	0.12660E-05	491590.0	3607062.1	4.0	3.63	3.93	3.38 NO
L0000439	0	0.12660E-05	491589.2	3607070.5	4.0	3.63	3.93	3.38 NO
L0000440	0	0.12660E-05	491588.4	3607078.9	4.0	3.63	3.93	3.38 NO

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*** MODELOPTs: RegDFAULT CONC ELEV RURAL

*** VOLUME SOURCE DATA ***

SOURCE ID	CATS.	NUMBER EMISSION RATE (GRAMS/SEC)	BASE X (METERS)	RELEASE Y (METERS)	INIT. ELEV. (METERS)	INIT. HEIGHT (METERS)	SY (METERS)	SZ (METERS)	URBAN EMISSION RATE SCALAR VARY BY
L0000441	0	0.12660E-05	491587.6	3607087.3	4.0	3.63	3.93	3.38 NO	
L0000442	0	0.12660E-05	491586.7	3607095.7	4.0	3.63	3.93	3.38 NO	
L0000443	0	0.12660E-05	491585.9	3607104.1	4.0	3.63	3.93	3.38 NO	
L0000444	0	0.12660E-05	491585.1	3607112.5	4.0	3.63	3.93	3.38 NO	
L0000445	0	0.12660E-05	491584.3	3607120.9	4.0	3.63	3.93	3.38 NO	
L0000446	0	0.12660E-05	491583.5	3607129.3	4.0	3.63	3.93	3.38 NO	
L0000447	0	0.12660E-05	491582.7	3607137.7	4.0	3.63	3.93	3.38 NO	
L0000448	0	0.12660E-05	491581.9	3607146.1	4.0	3.63	3.93	3.38 NO	
L0000449	0	0.12660E-05	491581.1	3607154.5	4.0	3.63	3.93	3.38 NO	
L0000450	0	0.12660E-05	491580.2	3607162.9	4.0	3.63	3.93	3.38 NO	
L0000451	0	0.12660E-05	491579.4	3607171.3	4.0	3.63	3.93	3.38 NO	
L0000452	0	0.12660E-05	491578.6	3607179.7	4.0	3.63	3.93	3.38 NO	
L0000453	0	0.12660E-05	491577.8	3607188.1	4.0	3.63	3.93	3.38 NO	
L0000454	0	0.12660E-05	491577.0	3607196.5	4.0	3.63	3.93	3.38 NO	
L0000455	0	0.12660E-05	491576.2	3607204.9	4.0	3.63	3.93	3.38 NO	
L0000456	0	0.12660E-05	491575.4	3607213.3	4.0	3.63	3.93	3.38 NO	

L0000457	0	0.12660E-05	491574.6	3607221.7	4.0	3.63	3.93	3.38	NO
L0000458	0	0.12660E-05	491573.7	3607230.1	4.0	3.63	3.93	3.38	NO
L0000459	0	0.12660E-05	491572.9	3607238.5	4.0	3.63	3.93	3.38	NO
L0000460	0	0.12660E-05	491572.1	3607246.9	4.0	3.63	3.93	3.38	NO
L0000461	0	0.12660E-05	491571.3	3607255.3	4.0	3.63	3.93	3.38	NO
L0000462	0	0.12660E-05	491570.5	3607263.7	4.0	3.63	3.93	3.38	NO
L0000463	0	0.12660E-05	491569.7	3607272.1	4.0	3.63	3.93	3.38	NO
L0000464	0	0.12660E-05	491568.9	3607280.5	4.0	3.63	3.93	3.38	NO
L0000465	0	0.12660E-05	491568.1	3607288.9	4.0	3.63	3.93	3.38	NO
L0000466	0	0.12660E-05	491567.2	3607297.3	4.0	3.63	3.93	3.38	NO
L0000467	0	0.12660E-05	491566.4	3607305.7	4.0	3.63	3.93	3.38	NO
L0000468	0	0.12660E-05	491565.6	3607314.1	4.0	3.63	3.93	3.38	NO
L0000469	0	0.12660E-05	491564.8	3607322.5	4.0	3.63	3.93	3.38	NO
L0000470	0	0.12660E-05	491564.0	3607330.9	4.0	3.63	3.93	3.38	NO
L0000471	0	0.12660E-05	491563.2	3607339.3	4.0	3.63	3.93	3.38	NO
L0000472	0	0.12660E-05	491562.4	3607347.7	4.0	3.63	3.93	3.38	NO
L0000473	0	0.12660E-05	491561.6	3607356.1	4.0	3.63	3.93	3.38	NO
L0000474	0	0.12660E-05	491560.7	3607364.5	4.0	3.63	3.93	3.38	NO
L0000475	0	0.12660E-05	491559.9	3607372.9	4.0	3.63	3.93	3.38	NO
L0000476	0	0.12660E-05	491559.1	3607381.3	4.0	3.63	3.93	3.38	NO
L0000477	0	0.12660E-05	491558.3	3607389.7	4.0	3.63	3.93	3.38	NO
L0000478	0	0.12660E-05	491557.5	3607398.1	4.0	3.63	3.93	3.38	NO
L0000479	0	0.12660E-05	491556.7	3607406.5	4.0	3.63	3.93	3.38	NO
L0000480	0	0.12660E-05	491555.9	3607414.9	4.0	3.63	3.93	3.38	NO

*** AERMOT - VERSION 16216r *** ** C:\AERMOD\8575\Bella Mar I-5\Bella Mar I-5.isc *** 05/30/19
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL

*** VOLUME SOURCE DATA ***

SOURCE ID	PART. CATS.	NUMBER EMISSION RATE (GRAMS/SEC) (METERS)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN EMISSION SCALAR VARY BY
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L0000481	0	0.12660E-05	491555.1	3607423.3	4.0	3.63	3.93	3.38	NO
L0000482	0	0.12660E-05	491554.2	3607431.7	4.0	3.63	3.93	3.38	NO
L0000483	0	0.12660E-05	491553.4	3607440.1	4.0	3.63	3.93	3.38	NO
L0000484	0	0.12660E-05	491552.6	3607448.5	4.0	3.63	3.93	3.38	NO
L0000485	0	0.12660E-05	491551.8	3607456.9	4.0	3.63	3.93	3.38	NO
L0000486	0	0.12660E-05	491551.0	3607465.3	3.9	3.63	3.93	3.38	NO
L0000487	0	0.12660E-05	491550.2	3607473.7	3.9	3.63	3.93	3.38	NO
L0000488	0	0.12660E-05	491549.4	3607482.1	3.9	3.63	3.93	3.38	NO
L0000489	0	0.12660E-05	491548.6	3607490.5	3.9	3.63	3.93	3.38	NO
L0000490	0	0.12660E-05	491547.8	3607498.9	3.9	3.63	3.93	3.38	NO
L0000491	0	0.12660E-05	491546.9	3607507.3	3.9	3.63	3.93	3.38	NO
L0000492	0	0.12660E-05	491546.1	3607515.7	3.9	3.63	3.93	3.38	NO
L0000493	0	0.12660E-05	491545.3	3607524.1	3.9	3.63	3.93	3.38	NO
L0000494	0	0.12660E-05	491544.5	3607532.5	3.9	3.63	3.93	3.38	NO
L0000495	0	0.12660E-05	491543.7	3607540.9	3.8	3.63	3.93	3.38	NO
L0000496	0	0.12660E-05	491542.9	3607549.3	3.8	3.63	3.93	3.38	NO
L0000497	0	0.12660E-05	491542.1	3607557.7	3.8	3.63	3.93	3.38	NO
L0000498	0	0.12660E-05	491541.3	3607566.1	3.8	3.63	3.93	3.38	NO
L0000499	0	0.12660E-05	491540.4	3607574.5	3.8	3.63	3.93	3.38	NO
L0000500	0	0.12660E-05	491539.6	3607582.9	3.8	3.63	3.93	3.38	NO
L0000501	0	0.12660E-05	491538.8	3607591.3	3.8	3.63	3.93	3.38	NO
L0000502	0	0.12660E-05	491538.0	3607599.7	3.8	3.63	3.93	3.38	NO
L0000503	0	0.12660E-05	491537.2	3607608.1	3.8	3.63	3.93	3.38	NO
L0000504	0	0.12660E-05	491536.4	3607616.5	3.8	3.63	3.93	3.38	NO
L0000505	0	0.12660E-05	491535.6	3607624.9	3.8	3.63	3.93	3.38	NO
L0000506	0	0.12660E-05	491534.8	3607633.3	3.7	3.63	3.93	3.38	NO
L0000507	0	0.12660E-05	491533.9	3607641.7	3.7	3.63	3.93	3.38	NO
L0000508	0	0.12660E-05	491533.1	3607650.1	3.7	3.63	3.93	3.38	NO
L0000509	0	0.12660E-05	491532.3	3607658.5	3.7	3.63	3.93	3.38	NO

*** AERMOT - VERSION 16216r *** ** C:\AERMOD\8575\Bella Mar I-5\Bella Mar I-5.isc *** 05/30/19
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
ALL	L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 , L0000007 , L0000008 ,
	L0000009 , L0000010 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , L0000016 ,
	L0000017 , L0000018 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 , L0000024 ,
	L0000025 , L0000026 , L0000027 , L0000028 , L0000029 , L0000030 , L0000031 , L0000032 ,
	L0000033 , L0000034 , L0000035 , L0000036 , L0000037 , L0000038 , L0000039 , L0000040 ,
	L0000041 , L0000042 , L0000043 , L0000044 , L0000045 , L0000046 , L0000047 , L0000048 ,
	L0000049 , L0000050 , L0000051 , L0000052 , L0000053 , L0000054 , L0000055 , L0000056 ,
	L0000057 , L0000058 , L0000059 , L0000060 , L0000061 , L0000062 , L0000063 , L0000064 ,
	L0000065 , L0000066 , L0000067 , L0000068 , L0000069 , L0000070 , L0000071 , L0000072 ,
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	L0000081 , L0000082 , L0000083 , L0000084 , L0000085 , L0000086 , L0000087 , L0000088 ,
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	L0000097 , L0000098 , L0000099 , L0000100 , L0000101 , L0000102 , L0000103 , L0000104 ,
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	L0000113 , L0000114 , L0000115 , L0000116 , L0000117 , L0000118 , L0000119 , L0000120 ,
	L0000121 , L0000122 , L0000123 , L0000124 , L0000125 , L0000126 , L0000127 , L0000128 ,
	L0000129 , L0000130 , L0000131 , L0000132 , L0000133 , L0000134 , L0000135 , L0000136 ,
	L0000137 , L0000138 , L0000139 , L0000140 , L0000141 , L0000142 , L0000143 , L0000144 ,
	L0000145 , L0000146 , L0000147 , L0000148 , L0000149 , L0000150 , L0000151 , L0000152 ,
	L0000153 , L0000154 , L0000155 , L0000156 , L0000157 , L0000158 , L0000159 , L0000160 ,
	*** AERMOD - VERSION 16216r *** ** C:\AERMOD\8575\Bella Mar I-5\Bella Mar I-5.isc *** 05/30/19
	*** AERMET - VERSION 15181 *** ** *** 10:49:15
	PAGE 16
	*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
	L0000161 , L0000162 , L0000163 , L0000164 , L0000165 , L0000166 , L0000167 , L0000168 ,
	L0000169 , L0000170 , L0000171 , L0000172 , L0000173 , L0000174 , L0000175 , L0000176 ,
	L0000177 , L0000178 , L0000179 , L0000180 , L0000181 , L0000182 , L0000183 , L0000184 ,
	L0000185 , L0000186 , L0000187 , L0000188 , L0000189 , L0000190 , L0000191 , L0000192 ,
	L0000193 , L0000194 , L0000195 , L0000196 , L0000197 , L0000198 , L0000199 , L0000200 ,
	L0000201 , L0000202 , L0000203 , L0000204 , L0000205 , L0000206 , L0000207 , L0000208 ,
	L0000209 , L0000210 , L0000211 , L0000212 , L0000213 , L0000214 , L0000215 , L0000216 ,
	L0000217 , L0000218 , L0000219 , L0000220 , L0000221 , L0000222 , L0000223 , L0000224 ,

L0000225 , L0000226 , L0000227 , L0000228 , L0000229 , L0000230 , L0000231 , L0000232 ,
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*** AERMOD - VERSION 16216r *** ** C:\AERMOD\8575\Bella Mar I-5\Bella Mar I-5.isc *** 05/30/19
 *** AERMET - VERSION 15181 *** ** *** 10:49:15

*** MODELOPTs: RegDFAULT CONC ELEV RURAL

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID

SOURCE IDs

L0000321 , L0000322 , L0000323 , L0000324 , L0000325 , L0000326 , L0000327 , L0000328 ,
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 L0000457 , L0000458 , L0000459 , L0000460 , L0000461 , L0000462 , L0000463 , L0000464 ,

3607627.72	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.10
3607527.72	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
3607427.72	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.20
3607327.72	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.20
3607227.72	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.20
3607127.72	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.20
3607027.72	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.20
3606927.72	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.20
3606827.72	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.50
3606727.72	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	2.00
3606627.72	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	2.00
3606527.72	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.50	2.00
3606427.72	1.00	1.00	1.00	1.00	1.00	1.00	1.40	2.00	2.00
3606327.72	1.00	1.00	1.00	1.00	1.70	1.70	1.90	2.00	2.00
3606227.72	1.00	1.00	1.40	1.80	2.00	2.00	2.00	2.00	2.00
3606127.72	1.00	1.20	2.00	1.30	1.20	2.00	2.00	2.00	2.00
3606027.72	2.00	1.70	1.00	1.00	1.00	1.40	2.00	2.00	2.00
3605927.72	1.90	1.00	1.00	1.00	1.00	1.00	1.70	2.00	2.00
3605827.72	1.00	1.00	1.00	1.00	1.00	1.00	1.70	2.00	2.20
3605727.72	1.00	1.00	1.00	1.00	1.00	1.10	1.70	2.00	2.40
3605627.72	1.00	1.00	1.00	1.00	1.00	1.40	2.00	2.00	3.00
3605527.72	1.00	1.00	1.00	1.00	1.00	1.40	2.00	2.00	3.00
3605427.72	1.00	1.00	1.00	1.00	1.10	1.70	2.00	2.00	3.10
3605327.72	1.00	1.00	1.30	1.50	1.60	2.00	2.00	2.50	3.20
3605227.72	1.60	1.60	1.80	2.00	2.00	2.00	2.40	3.00	3.70
3605127.72	2.00	2.20	2.70	2.70	2.70	3.00	3.60	3.70	4.70
3605027.72	4.40	4.40	5.00	4.70	4.60	4.70	4.80	5.60	5.80
3604927.72	7.60	7.60	7.70	7.70	7.50	6.80	6.70	6.90	6.90
3604827.72	10.90	9.90	9.90	9.90	9.90	9.90	9.20	8.90	8.90
3604727.72	13.10	12.80	12.10	12.10	12.10	12.10	12.00	11.10	11.10
3604627.72	15.30	15.00	14.30	14.20	14.20	13.80	13.20	13.20	13.20
3604527.72	17.40	17.10	16.40	16.40	16.10	15.40	15.40	15.40	15.40
3604427.72	19.60	19.30	18.60	18.60	17.60	17.60	17.40	17.30	17.10
3604327.72	21.00	21.20	20.70	20.70	19.70	19.60	18.90	18.70	18.60
3604227.72	21.00	21.70	22.00	22.40	21.80	21.20	20.90	20.50	20.30

*** AERMOD - VERSION 16216r *** C:\AERMOD\8575\Bella Mar I-5\Bella Mar I-5.isc *** 05/30/19
 *** AERMET - VERSION 15181 *** *** 10:49:15

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS)								
	490380.87	490480.87	490580.87	490680.87	490780.87	490880.87	490980.87	491080.87	491180.87
3604127.72	20.50	21.10	21.80	22.40	22.90	22.50	22.50	22.10	21.50
3604027.72	20.00	21.00	21.20	21.90	22.50	23.00	23.40	23.60	23.10
3603927.72	20.00	20.50	21.00	21.90	22.00	22.60	23.20	24.00	23.90
3603827.72	20.00	20.30	21.00	21.20	22.00	22.40	23.00	24.00	24.00
3603727.72	19.20	20.30	21.00	21.00	22.00	22.40	23.00	24.00	24.20
3603627.72	19.00	20.00	20.60	21.00	22.00	22.40	23.70	24.00	25.00
3603527.72	19.00	20.00	20.60	21.00	22.00	22.40	23.70	24.00	25.00
3603427.72	18.90	19.90	20.50	20.90	21.90	22.40	23.00	24.00	24.90
3603327.72	17.80	18.70	19.40	19.80	20.90	21.80	22.50	23.80	24.10
3603227.72	16.70	17.00	18.10	18.70	19.80	20.60	21.40	22.40	23.00

*** AERMOD - VERSION 16216r *** C:\AERMOD\8575\Bella Mar I-5\Bella Mar I-5.isc *** 05/30/19
 *** AERMET - VERSION 15181 *** *** 10:49:15

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS)								
	491280.87	491380.87	491480.87	491580.87	491680.87	491780.87	491880.87	491980.87	492080.87
3608127.72	2.90	3.60	4.80	6.10	7.40	8.70	10.00	11.40	12.70

3608027.72	2.50	3.00	4.00	5.30	6.60	7.90	9.30	11.10	12.40
3607927.72	2.30	2.90	4.00	4.90	6.40	7.90	9.20	10.40	11.70
3607827.72	2.00	2.80	3.50	4.30	5.90	7.40	8.80	10.40	11.70
3607727.72	2.00	2.30	3.00	4.30	5.30	6.80	8.20	9.90	11.20
3607627.72	1.70	2.00	3.00	4.30	5.00	6.20	7.60	9.40	10.70
3607527.72	1.50	2.00	3.00	4.10	4.70	5.90	7.20	8.70	10.00
3607427.72	1.90	2.00	3.00	4.00	4.60	5.90	7.00	8.00	9.70
3607327.72	2.00	2.00	3.00	4.00	4.60	5.90	7.00	7.50	8.80
3607227.72	2.00	2.80	3.10	4.00	4.60	5.90	6.20	7.40	8.70
3607127.72	2.00	2.80	3.10	4.00	4.60	5.90	6.20	7.40	8.70
3607027.72	2.00	2.80	3.10	4.00	4.60	5.80	6.20	7.40	8.70
3606927.72	2.00	2.80	3.10	4.00	4.60	5.00	6.20	7.40	8.70
3606827.72	2.00	2.80	3.10	4.00	4.60	5.00	6.20	7.40	8.50
3606727.72	2.00	2.80	3.10	4.00	4.60	5.00	6.20	7.30	7.90
3606627.72	2.00	2.80	3.10	4.00	4.60	5.00	6.10	6.70	7.70
3606527.72	2.00	2.80	3.10	4.00	4.30	4.90	5.50	6.50	7.70
3606427.72	2.00	2.80	3.00	3.60	4.00	4.90	5.20	6.50	7.70
3606327.72	2.00	2.20	3.00	3.30	4.00	4.90	5.20	6.50	7.20
3606227.72	2.00	2.00	3.00	3.10	3.70	4.90	5.20	6.10	6.80
3606127.72	2.00	2.70	3.00	3.00	3.60	4.10	5.20	6.00	6.70
3606027.72	2.00	2.80	3.10	4.00	4.00	4.00	5.00	5.00	5.80
3605927.72	2.50	3.00	3.10	4.00	4.00	4.90	5.20	6.00	6.80
3605827.72	3.00	3.10	4.00	4.00	4.70	5.10	6.00	6.60	7.80
3605727.72	3.00	3.80	4.00	4.50	5.10	5.90	6.40	7.60	8.20
3605627.72	3.20	3.90	4.30	5.10	5.70	6.30	7.20	8.10	9.00
3605527.72	3.50	4.30	5.00	5.60	6.20	6.90	7.60	8.80	10.10
3605427.72	3.70	4.80	5.50	6.20	7.10	7.50	8.60	10.10	11.60
3605327.72	4.30	4.90	6.00	6.70	7.60	8.50	9.70	11.50	13.70
3605227.72	4.50	5.50	6.10	7.20	8.30	9.50	11.40	12.90	15.10
3605127.72	4.90	5.80	6.80	8.10	9.30	10.60	12.20	13.80	15.70
3605027.72	5.80	6.60	7.10	8.40	9.60	10.90	12.30	14.40	16.30
3604927.72	6.90	7.70	7.90	8.40	9.60	10.90	13.10	14.50	16.50
3604827.72	8.90	8.90	9.00	9.30	10.00	10.90	12.40	14.50	16.50
3604727.72	11.10	10.30	10.10	10.40	11.00	11.00	12.40	14.50	15.70
3604627.72	12.80	12.30	12.20	12.20	12.10	12.10	13.30	14.50	15.80
3604527.72	15.20	14.60	14.40	13.90	13.40	13.40	14.20	14.70	15.80
3604427.72	16.60	16.60	16.20	15.60	15.60	15.30	15.30	15.80	16.30
3604327.72	18.40	18.40	17.70	17.60	17.40	16.80	16.70	17.00	17.40
3604227.72	19.90	19.50	19.40	19.20	18.90	18.50	18.40	18.40	18.40

*** AERMOD - VERSION 16216r *** *** C:\AERMOD\8575\Bella Mar I-5\Bella Mar I-5.isc *** 05/30/19
 *** AERMET - VERSION 15181 *** *** 10:49:15

*** MODELOPTs: RegDFAULT CONC ELEV RURAL

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD	X-COORD (METERS)								
(METERS)	491280.87	491380.87	491480.87	491580.87	491680.87	491780.87	491880.87	491980.87	492080.87
3604127.72	21.50	21.20	20.50	20.50	20.50	20.10	20.10	20.10	19.70
3604027.72	22.60	22.60	22.20	21.60	21.60	21.60	21.60	21.60	21.30
3603927.72	23.70	23.70	23.70	23.10	22.70	22.70	22.70	22.70	22.70
3603827.72	24.40	24.80	24.80	24.40	24.30	23.80	23.80	23.80	23.80
3603727.72	24.90	25.00	25.00	25.30	26.40	26.60	26.60	26.20	25.10
3603627.72	25.00	25.00	25.10	26.00	26.60	27.00	28.10	29.30	29.70
3603527.72	25.00	25.00	25.10	26.00	26.00	26.90	27.20	28.50	29.00
3603427.72	25.00	25.00	25.10	25.90	26.00	26.00	26.90	27.40	27.90
3603327.72	24.80	25.00	25.00	25.30	25.90	26.00	26.20	26.80	27.00
3603227.72	23.70	24.50	24.80	25.00	25.50	25.70	25.80	26.00	26.60

*** AERMOD - VERSION 16216r *** *** C:\AERMOD\8575\Bella Mar I-5\Bella Mar I-5.isc *** 05/30/19
 *** AERMET - VERSION 15181 *** *** 10:49:15

*** MODELOPTs: RegDFAULT CONC ELEV RURAL

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD | X-COORD (METERS)

(METERS) | 492180.87 492280.87 492380.87 492480.87 492580.87 492680.87 492780.87 492880.87 492980.87

3608127.72	14.00	15.30	16.60	17.80	20.10	21.90	23.80	25.90	27.20
3608027.72	14.00	15.30	16.60	18.10	20.20	22.40	24.30	25.90	27.30
3607927.72	13.60	15.00	16.60	18.70	20.20	22.40	24.30	25.90	27.50
3607827.72	13.00	14.60	16.60	18.70	20.20	22.40	24.30	25.90	27.50
3607727.72	13.00	14.60	16.60	18.70	20.20	22.10	24.00	25.90	27.30
3607627.72	12.40	14.40	16.30	18.10	20.10	21.50	23.50	25.30	26.70
3607527.72	12.00	13.80	15.70	17.70	19.50	21.40	22.90	24.90	26.30
3607427.72	11.20	13.30	15.20	17.00	19.10	20.60	22.40	24.10	25.60
3607327.72	11.00	12.60	14.60	16.70	18.20	19.90	21.80	23.10	25.30
3607227.72	10.00	12.30	14.10	15.90	17.30	19.40	20.70	22.90	24.30
3607127.72	10.00	11.60	13.50	14.80	17.10	18.40	20.30	21.90	23.40
3607027.72	10.00	11.30	12.50	13.70	16.00	17.30	19.20	20.80	22.40
3606927.72	9.80	11.10	11.90	12.80	14.90	16.20	18.20	19.80	22.00
3606827.72	9.00	10.30	11.60	12.80	13.80	15.10	17.10	18.70	20.70
3606727.72	9.00	10.30	11.40	12.50	13.10	14.40	15.90	17.20	19.00
3606627.72	9.00	10.20	10.80	11.80	12.70	13.90	14.90	16.00	17.30
3606527.72	9.00	9.60	10.60	11.40	12.10	13.20	14.10	15.40	15.70
3606427.72	8.40	9.10	9.90	10.90	11.50	12.60	13.30	14.30	14.60
3606327.72	8.00	8.50	9.60	10.20	11.00	11.70	12.30	13.30	13.50
3606227.72	7.20	8.10	8.80	9.90	10.20	10.60	11.80	12.20	13.10
3606127.72	7.00	7.40	8.10	9.00	9.20	10.10	10.80	11.10	12.10
3606027.72	6.00	6.30	7.00	7.90	8.20	9.00	9.70	10.10	11.10
3605927.72	7.00	7.40	8.10	8.90	9.20	10.10	10.80	11.10	12.10
3605827.72	8.10	9.10	9.70	11.00	11.40	12.20	12.90	13.20	14.20
3605727.72	9.20	10.30	11.00	12.30	13.40	13.90	15.10	15.60	16.40
3605627.72	10.30	11.60	13.00	14.40	15.70	16.70	17.50	18.50	19.00
3605527.72	11.80	13.00	14.90	16.60	17.90	19.10	20.40	21.10	21.80
3605427.72	13.50	15.30	17.20	19.10	20.50	21.80	23.00	24.30	24.60
3605327.72	15.10	17.50	19.40	21.30	23.20	24.50	25.80	27.00	27.70
3605227.72	16.70	18.90	20.80	22.50	24.70	25.80	26.70	28.00	29.20
3605127.72	17.70	19.50	21.90	23.60	25.10	26.30	26.90	28.00	29.90
3605027.72	18.00	20.20	22.20	24.50	25.10	26.10	26.80	28.00	29.70
3604927.72	18.10	20.60	22.50	24.70	25.90	26.00	26.70	28.00	29.30
3604827.72	18.10	20.30	22.20	24.70	26.00	26.00	26.70	28.00	29.30
3604727.72	18.00	19.60	22.20	24.70	25.10	26.00	26.70	28.00	29.30
3604627.72	17.10	19.60	21.50	23.60	25.10	25.90	26.70	28.00	29.30
3604527.72	17.10	19.20	21.10	22.80	24.80	25.40	26.70	28.00	29.30
3604427.72	17.00	18.50	20.50	22.50	24.10	25.30	26.40	27.70	29.30
3604327.72	17.40	18.60	20.00	21.80	23.80	24.80	25.70	27.00	29.00
3604227.72	18.50	19.10	19.80	21.40	23.10	24.40	25.70	27.00	28.50

*** AERMOD - VERSION 16216r *** *** C:\AERMOD\8575\Bella Mar I-5\Bella Mar I-5.isc *** 05/30/19
*** AERMET - VERSION 15181 *** *** 10:49:15

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*** MODELOPTs: RegDFAULT CONC ELEV RURAL

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD | X-COORD (METERS)
(METERS) | 492180.87 492280.87 492380.87 492480.87 492580.87 492680.87 492780.87 492880.87 492980.87

3604127.72	19.50	19.80	20.50	20.90	22.60	23.90	25.20	27.00	28.50
3604027.72	21.20	21.30	21.60	21.60	22.10	23.40	24.70	26.40	29.10
3603927.72	22.70	22.70	22.70	22.70	22.80	23.80	24.70	26.70	30.90
3603827.72	23.80	23.80	23.80	23.80	23.90	24.80	25.50	29.20	33.30
3603727.72	24.90	24.90	24.90	26.30	26.70	27.90	29.70	33.40	36.10
3603627.72	30.70	31.80	31.90	31.70	32.60	32.70	34.10	36.80	38.40
3603527.72	30.00	31.30	32.00	32.80	34.00	34.40	36.40	38.00	38.20
3603427.72	28.90	29.20	30.40	30.90	32.00	33.20	34.50	35.80	36.10
3603327.72	27.80	28.10	28.70	29.50	30.00	31.30	32.50	33.60	34.70
3603227.72	26.70	26.70	27.20	27.70	28.90	30.10	31.20	31.70	32.90

*** AERMOD - VERSION 16216r *** *** C:\AERMOD\8575\Bella Mar I-5\Bella Mar I-5.isc *** 05/30/19
*** AERMET - VERSION 15181 *** *** 10:49:15

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*** MODELOPTs: RegDFAULT CONC ELEV RURAL

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS)								
	493080.87	493180.87	493280.87	493380.87	493480.87	493580.87	493680.87	493780.87	493880.87
3608127.72	28.60	29.80	31.00	31.30	32.00	32.90	35.00	36.50	37.70
3608027.72	29.20	30.00	31.00	31.30	32.00	32.90	34.30	36.30	38.00
3607927.72	29.50	30.00	31.00	31.30	32.00	32.90	34.20	35.90	38.50
3607827.72	29.50	30.00	31.00	31.30	32.00	32.90	33.70	35.50	38.00
3607727.72	29.20	30.00	31.00	31.30	32.00	32.90	33.20	34.70	36.90
3607627.72	28.70	29.90	31.00	31.10	31.80	32.30	33.20	34.50	36.00
3607527.72	28.20	29.80	30.30	31.00	31.60	32.00	33.20	34.50	35.70
3607427.72	27.60	29.00	30.10	31.00	31.10	31.90	32.40	33.70	35.00
3607327.72	26.60	28.60	30.00	30.40	31.00	31.90	32.20	33.50	34.70
3607227.72	26.00	27.80	29.10	30.30	31.00	31.00	32.20	33.50	34.70
3607127.72	25.50	26.80	29.00	30.30	31.00	31.00	32.20	33.40	34.70
3607027.72	24.40	26.50	28.10	29.90	30.60	31.00	31.20	32.50	33.70
3606927.72	23.30	25.40	27.90	29.20	30.50	31.00	31.20	32.50	33.60
3606827.72	22.20	24.30	26.50	28.40	29.90	30.70	31.10	32.20	32.90
3606727.72	21.00	22.90	24.80	27.20	29.10	30.00	30.70	31.50	32.50
3606627.72	19.10	21.30	23.20	25.50	27.40	29.40	30.20	31.30	31.60
3606527.72	17.20	19.10	21.10	23.30	25.20	27.30	29.20	30.50	30.90
3606427.72	15.90	17.20	18.90	20.50	22.40	24.60	26.50	28.40	29.50
3606327.72	14.80	16.10	16.70	18.00	19.90	21.80	23.30	25.40	26.70
3606227.72	13.70	14.40	15.30	16.60	18.00	19.40	20.70	22.10	23.40
3606127.72	12.70	13.10	14.20	15.50	16.80	17.30	18.50	19.80	21.00
3606027.72	11.60	12.10	13.10	13.50	14.70	16.00	16.30	17.60	18.90
3605927.72	12.10	12.10	13.10	13.10	13.70	14.10	14.20	15.10	15.80
3605827.72	14.30	15.10	15.20	15.60	16.20	16.20	16.40	17.20	17.20
3605727.72	17.00	17.40	17.60	17.90	18.40	18.40	18.40	18.80	19.30
3605627.72	19.70	19.80	20.60	20.60	20.60	20.50	20.50	20.50	21.10
3605527.72	22.40	22.70	22.70	22.70	22.70	22.70	22.40	22.40	22.60
3605427.72	25.10	24.90	24.80	24.40	24.40	24.40	23.90	23.90	24.30
3605327.72	28.10	28.10	28.00	27.30	27.60	27.10	27.00	26.80	27.10
3605227.72	30.50	31.20	31.80	31.80	32.40	32.10	31.90	31.80	32.00
3605127.72	31.40	32.60	34.40	35.40	36.50	36.70	36.90	37.40	37.40
3605027.72	31.50	32.80	35.10	36.40	38.10	39.50	40.70	42.10	42.10
3604927.72	30.70	32.70	34.30	36.40	37.70	39.90	41.40	43.40	44.50
3604827.72	30.50	31.90	34.10	35.40	37.30	39.00	40.50	42.60	44.50
3604727.72	30.50	31.80	34.10	35.40	36.60	38.90	40.20	42.00	43.80
3604627.72	30.50	31.80	33.20	35.40	36.70	38.90	40.20	42.00	43.80
3604527.72	30.50	31.80	33.20	35.40	36.70	38.90	40.20	42.00	43.80
3604427.72	30.50	31.80	33.40	35.40	36.80	38.90	40.50	42.10	44.00
3604327.72	30.50	32.10	34.10	35.70	37.70	39.30	41.20	42.70	44.60
3604227.72	30.50	32.60	34.60	36.50	38.50	40.30	41.60	43.40	45.20

*** AERMOD - VERSION 16216r *** C:\AERMOD\8575\Bella Mar I-5\Bella Mar I-5.isc *** 05/30/19
 *** AERMET - VERSION 15181 *** *** 10:49:15

*** MODELOPTs: RegDFault CONC ELEV RURAL

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS)								
	493080.87	493180.87	493280.87	493380.87	493480.87	493580.87	493680.87	493780.87	493880.87
3604127.72	30.80	33.20	35.70	37.60	39.50	41.40	42.70	44.50	46.30
3604027.72	31.70	34.20	37.30	39.20	41.10	42.50	43.80	45.30	46.80
3603927.72	33.40	36.00	38.80	40.90	42.30	43.60	44.90	46.20	47.40
3603827.72	36.40	38.30	40.00	42.10	43.40	44.70	45.80	46.50	47.80
3603727.72	38.30	39.70	41.00	42.40	43.70	44.90	46.00	46.50	47.10
3603627.72	40.40	40.90	42.00	43.30	44.00	44.90	45.10	45.10	45.20
3603527.72	39.50	40.00	41.10	42.00	42.00	42.90	43.00	43.00	43.80
3603427.72	37.40	37.90	38.90	39.80	40.50	40.80	40.80	41.30	41.80
3603327.72	35.30	36.50	36.90	37.70	38.30	38.70	38.70	39.20	39.70
3603227.72	33.60	34.60	35.50	35.70	36.20	36.50	36.90	37.50	37.50

*** AERMOD - VERSION 16216r *** C:\AERMOD\8575\Bella Mar I-5\Bella Mar I-5.isc *** 05/30/19
 *** AERMET - VERSION 15181 *** *** 10:49:15

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD	X-COORD (METERS)				
(METERS)	493980.87	494080.87	494180.87	494280.87	494380.87
3608127.72	40.00	41.80	44.20	46.70	49.30
3608027.72	40.30	42.60	44.70	46.70	49.30
3607927.72	40.60	42.60	44.90	46.80	49.30
3607827.72	40.00	42.10	44.40	46.30	48.80
3607727.72	39.50	41.40	43.60	45.30	47.60
3607627.72	38.40	40.20	42.20	44.10	46.00
3607527.72	37.30	38.70	40.20	42.30	43.90
3607427.72	36.20	37.50	38.80	40.30	41.70
3607327.72	36.00	37.30	38.60	39.90	41.20
3607227.72	36.00	37.00	37.60	38.90	40.20
3607127.72	35.00	36.30	37.60	38.80	39.10
3607027.72	35.00	36.20	37.00	37.80	38.90
3606927.72	34.80	35.20	36.40	36.80	37.80
3606827.72	33.70	34.70	35.30	35.70	36.70
3606727.72	33.00	33.70	34.40	34.60	35.60
3606627.72	32.60	32.90	33.60	33.60	34.20
3606527.72	31.50	31.80	32.50	32.50	32.50
3606427.72	30.40	30.70	31.40	31.40	31.40
3606327.72	27.90	28.90	29.60	29.60	29.70
3606227.72	24.70	26.00	26.70	26.70	27.60
3606127.72	22.30	22.70	23.90	24.30	25.30
3606027.72	19.20	20.40	21.20	22.00	22.30
3605927.72	17.00	17.30	18.60	19.00	20.00
3605827.72	17.20	18.10	18.20	18.20	18.20
3605727.72	19.40	19.60	20.20	20.40	20.40
3605627.72	21.30	21.40	21.50	22.20	22.30
3605527.72	22.70	22.90	23.40	23.40	23.40
3605427.72	24.40	24.60	24.90	24.90	24.40
3605327.72	27.60	28.30	28.90	29.10	28.60
3605227.72	33.00	34.00	34.60	35.00	35.60
3605127.72	38.40	39.00	40.00	40.40	41.50
3605027.72	43.10	43.90	45.10	45.80	47.20
3604927.72	46.60	47.50	49.20	51.10	53.20
3604827.72	46.10	48.00	49.20	51.80	54.10
3604727.72	46.00	47.30	48.60	51.60	53.10
3604627.72	45.10	47.00	48.20	50.80	52.30
3604527.72	45.30	47.00	48.20	50.80	52.20
3604427.72	46.00	47.10	48.30	50.80	52.20
3604327.72	46.40	47.60	48.80	50.80	52.30
3604227.72	47.00	48.10	49.40	51.30	52.70

*** AERMOD - VERSION 16216r *** C:\AERMOD\8575\Bella Mar I-5\Bella Mar I-5.isc *** 05/30/19
 *** AERMET - VERSION 15181 *** *** 10:49:15

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD	X-COORD (METERS)				
(METERS)	493980.87	494080.87	494180.87	494280.87	494380.87
3604127.72	47.60	48.80	50.10	51.80	53.20
3604027.72	48.00	49.30	50.60	51.90	53.20
3603927.72	48.00	49.10	50.30	51.30	52.50
3603827.72	48.70	48.00	48.70	50.20	51.40
3603727.72	47.30	46.80	46.40	48.10	49.50
3603627.72	46.00	44.80	44.70	46.00	47.30
3603527.72	43.90	43.00	43.00	43.00	44.00
3603427.72	41.80	40.80	40.80	40.80	41.70

3603327.72 | 39.60 38.40 38.30 38.70 38.70
3603227.72 | 37.40 36.50 36.50 36.50 36.50

*** AERMOD - VERSION 16216r *** *** C:\AERMOD\8575\Bella Mar I-5\Bella Mar I-5.isc *** 05/30/19
*** AERMET - VERSION 15181 *** *** 10:49:15

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

* HILL HEIGHT SCALES IN METERS *

Y-COORD | X-COORD (METERS)
(METERS) | 489480.87 489580.87 489680.87 489780.87 489880.87 489980.87 490080.87 490180.87 490280.87

3608127.72 | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.20 0.80
3608027.72 | 0.00 0.00 0.00 0.00 0.00 0.00 0.10 1.10 1.30
3607927.72 | 0.00 0.00 0.00 0.00 0.00 0.40 0.50 1.50 1.60
3607827.72 | 0.00 0.00 0.00 0.00 0.30 1.40 1.50 1.30 1.00
3607727.72 | 0.00 0.00 0.00 0.60 1.20 1.40 1.40 1.00 1.00
3607627.72 | 0.00 0.00 0.70 1.70 1.50 1.00 1.00 1.00 1.00
3607527.72 | 0.30 0.70 1.70 1.80 1.10 1.00 1.00 1.00 1.00
3607427.72 | 0.90 1.60 1.20 1.10 1.00 1.00 1.00 1.00 1.00
3607327.72 | 1.90 1.30 1.00 1.00 1.00 1.00 1.00 1.00 1.00
3607227.72 | 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
3607127.72 | 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
3607027.72 | 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
3606927.72 | 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
3606827.72 | 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
3606727.72 | 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
3606627.72 | 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
3606527.72 | 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
3606427.72 | 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
3606327.72 | 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
3606227.72 | 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
3606127.72 | 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
3606027.72 | 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
3605927.72 | 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.10 1.70
3605827.72 | 1.20 1.10 1.00 1.00 1.00 1.00 1.30 1.90 1.20
3605727.72 | 2.70 2.20 1.20 1.20 1.20 1.20 2.00 1.40 1.00
3605627.72 | 3.80 3.30 2.30 2.00 2.00 2.00 1.60 1.00 1.00
3605527.72 | 5.30 4.50 3.30 2.30 2.00 2.00 1.00 1.00 1.00
3605427.72 | 7.50 5.80 4.40 3.00 2.00 2.00 1.00 1.00 1.00
3605327.72 | 9.60 7.60 6.00 4.10 2.40 2.00 1.60 1.30 1.00
3605227.72 | 11.80 9.70 8.20 6.40 4.00 2.70 2.00 1.80 1.60
3605127.72 | 13.90 12.50 11.10 9.50 7.40 5.30 4.00 3.10 2.20
3605027.72 | 16.10 14.80 13.60 13.00 11.10 9.30 8.00 6.40 4.70
3604927.72 | 17.40 16.80 15.70 14.80 14.10 12.00 10.60 9.30 7.90
3604827.72 | 19.00 18.20 17.90 16.90 15.70 14.00 13.70 12.40 11.20
3604727.72 | 18.50 18.90 19.90 18.70 17.50 16.20 15.90 14.60 13.40
3604627.72 | 17.40 17.90 18.90 19.90 19.40 18.30 18.10 16.90 16.30
3604527.72 | 16.40 17.00 17.80 18.80 19.40 20.00 19.90 19.40 18.70
3604427.72 | 15.90 16.60 17.00 17.80 18.40 19.60 20.10 20.80 20.50
3604327.72 | 15.10 15.90 16.60 17.20 17.90 18.60 19.70 20.30 20.90
3604227.72 | 14.50 15.40 16.00 16.70 17.30 18.00 18.70 19.80 20.40

*** AERMOD - VERSION 16216r *** *** C:\AERMOD\8575\Bella Mar I-5\Bella Mar I-5.isc *** 05/30/19
*** AERMET - VERSION 15181 *** *** 10:49:15

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

* HILL HEIGHT SCALES IN METERS *

Y-COORD | X-COORD (METERS)
(METERS) | 489480.87 489580.87 489680.87 489780.87 489880.87 489980.87 490080.87 490180.87 490280.87

3604127.72 | 14.00 14.90 15.50 16.20 16.80 17.40 18.20 19.20 19.90
3604027.72 | 13.50 14.30 15.00 15.60 16.60 17.00 18.10 18.70 19.30
3603927.72 | 13.10 13.90 14.30 15.40 16.20 16.90 17.40 18.50 19.00
3603827.72 | 12.60 13.80 14.10 15.10 15.70 16.20 17.20 18.10 18.80

3603727.72	12.50	13.80	14.10	15.00	15.60	16.00	17.20	18.00	18.70
3603627.72	12.50	13.80	14.10	15.00	15.60	16.00	17.00	17.50	18.70
3603527.72	12.50	13.00	14.00	14.40	15.60	16.00	17.00	17.50	18.80
3603427.72	12.50	12.90	13.10	14.20	14.90	15.80	16.80	17.40	18.50
3603327.72	11.80	11.80	12.80	13.20	13.80	14.70	15.00	16.20	16.70
3603227.72	10.70	10.90	11.70	12.10	12.70	13.60	13.90	14.70	15.50

*** AERMOD - VERSION 16216r *** C:\AERMOD\8575\Bella Mar I-5\Bella Mar I-5.isc *** 05/30/19
 *** AERMET - VERSION 15181 *** *** 10:49:15

*** MODELOPTs: RegDFAULT CONC ELEV RURAL

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	X-COORD (METERS)								
	490380.87	490480.87	490580.87	490680.87	490780.87	490880.87	490980.87	491080.87	491180.87
3608127.72	1.20	1.40	1.80	1.80	1.00	1.00	1.50	2.00	2.20
3608027.72	1.70	1.50	1.00	1.00	1.00	1.00	1.00	1.90	2.00
3607927.72	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.60	2.00
3607827.72	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.60
3607727.72	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.20
3607627.72	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.10
3607527.72	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
3607427.72	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.20
3607327.72	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.20
3607227.72	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.20
3607127.72	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.20
3607027.72	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.20
3606927.72	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.20
3606827.72	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.50
3606727.72	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	2.00
3606627.72	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	2.00
3606527.72	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.50	2.00
3606427.72	1.00	1.00	1.00	1.00	1.00	1.00	1.40	2.00	2.00
3606327.72	1.00	1.00	1.00	1.00	1.70	1.70	1.90	2.00	2.00
3606227.72	1.00	1.00	1.40	1.80	2.00	2.00	2.00	2.00	2.00
3606127.72	1.00	1.20	2.00	1.30	1.20	2.00	2.00	2.00	2.00
3606027.72	2.00	1.70	1.00	1.00	1.00	1.40	2.00	2.00	2.00
3605927.72	1.90	1.00	1.00	1.00	1.00	1.00	1.70	2.00	2.00
3605827.72	1.00	1.00	1.00	1.00	1.00	1.00	1.70	2.00	2.20
3605727.72	1.00	1.00	1.00	1.00	1.00	1.10	1.70	2.00	2.40
3605627.72	1.00	1.00	1.00	1.00	1.00	1.40	2.00	2.00	3.00
3605527.72	1.00	1.00	1.00	1.00	1.00	1.40	2.00	2.00	3.00
3605427.72	1.00	1.00	1.00	1.00	1.10	1.70	2.00	2.00	3.10
3605327.72	1.00	1.00	1.30	1.50	1.60	2.00	2.00	2.50	3.20
3605227.72	1.60	1.60	1.80	2.00	2.00	2.00	2.40	3.00	3.70
3605127.72	2.00	2.20	2.70	2.70	2.70	3.00	3.60	3.70	4.70
3605027.72	4.40	4.40	5.00	4.70	4.60	4.70	4.80	5.60	5.80
3604927.72	7.60	7.60	7.70	7.70	7.50	6.80	6.70	6.90	6.90
3604827.72	10.90	9.90	9.90	9.90	9.90	9.90	9.20	8.90	8.90
3604727.72	13.10	12.80	12.10	12.10	12.10	12.10	12.00	11.10	11.10
3604627.72	15.30	15.00	14.30	14.20	14.20	13.80	13.20	13.20	13.20
3604527.72	17.40	17.10	16.40	16.40	16.10	15.40	15.40	15.40	15.40
3604427.72	19.60	19.30	18.60	18.60	17.60	17.60	17.40	17.30	17.10
3604327.72	21.00	21.20	20.70	20.70	19.70	19.60	18.90	18.70	18.60
3604227.72	21.00	21.70	22.00	22.40	21.80	21.20	20.90	20.50	20.30

*** AERMOD - VERSION 16216r *** C:\AERMOD\8575\Bella Mar I-5\Bella Mar I-5.isc *** 05/30/19
 *** AERMET - VERSION 15181 *** *** 10:49:15

*** MODELOPTs: RegDFAULT CONC ELEV RURAL

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	X-COORD (METERS)								
	490380.87	490480.87	490580.87	490680.87	490780.87	490880.87	490980.87	491080.87	491180.87

3604127.72	20.50	21.10	21.80	22.40	22.90	22.50	22.50	22.10	21.50
3604027.72	20.00	21.00	21.20	21.90	22.50	23.00	23.40	23.60	23.10
3603927.72	20.00	20.50	21.00	21.90	22.00	22.60	23.20	24.00	23.90
3603827.72	20.00	20.30	21.00	21.20	22.00	22.40	23.00	24.00	24.00
3603727.72	19.20	20.30	21.00	21.00	22.00	22.40	23.00	24.00	24.20
3603627.72	19.00	20.00	20.60	21.00	22.00	22.40	23.70	24.00	25.00
3603527.72	19.00	20.00	20.60	21.00	22.00	22.40	23.70	24.00	25.00
3603427.72	18.90	19.90	20.50	20.90	21.90	22.40	23.00	24.00	24.90
3603327.72	17.80	18.70	19.40	19.80	20.90	21.80	22.50	23.80	24.10
3603227.72	16.70	17.00	18.10	18.70	19.80	20.60	21.40	22.40	23.00

*** AERMOD - VERSION 16216r *** *** C:\AERMOD\8575\Bella Mar I-5\Bella Mar I-5.isc *** 05/30/19
 *** AERMET - VERSION 15181 *** *** 10:49:15

*** MODELOPTs: RegDFAULT CONC ELEV RURAL

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

* HILL HEIGHT SCALES IN METERS *

Y-COORD | X-COORD (METERS)
 (METERS) | 491280.87 491380.87 491480.87 491580.87 491680.87 491780.87 491880.87 491980.87 492080.87

3608127.72	2.90	3.60	4.80	6.10	7.40	8.70	10.00	11.40	12.70
3608027.72	2.50	3.00	4.00	5.30	6.60	7.90	9.30	11.10	12.40
3607927.72	2.30	2.90	4.00	4.90	6.40	7.90	9.20	10.40	11.70
3607827.72	2.00	2.80	3.50	4.30	5.90	7.40	8.80	10.40	11.70
3607727.72	2.00	2.30	3.00	4.30	5.30	6.80	8.20	9.90	11.20
3607627.72	1.70	2.00	3.00	4.30	5.00	6.20	7.60	9.40	10.70
3607527.72	1.50	2.00	3.00	4.10	4.70	5.90	7.20	8.70	10.00
3607427.72	1.90	2.00	3.00	4.00	4.60	5.90	7.00	8.00	9.70
3607327.72	2.00	2.00	3.00	4.00	4.60	5.90	7.00	7.50	8.80
3607227.72	2.00	2.80	3.10	4.00	4.60	5.90	6.20	7.40	8.70
3607127.72	2.00	2.80	3.10	4.00	4.60	5.90	6.20	7.40	8.70
3607027.72	2.00	2.80	3.10	4.00	4.60	5.80	6.20	7.40	8.70
3606927.72	2.00	2.80	3.10	4.00	4.60	5.00	6.20	7.40	8.70
3606827.72	2.00	2.80	3.10	4.00	4.60	5.00	6.20	7.40	8.50
3606727.72	2.00	2.80	3.10	4.00	4.60	5.00	6.20	7.30	7.90
3606627.72	2.00	2.80	3.10	4.00	4.60	5.00	6.10	6.70	7.70
3606527.72	2.00	2.80	3.10	4.00	4.30	4.90	5.50	6.50	7.70
3606427.72	2.00	2.80	3.00	3.60	4.00	4.90	5.20	6.50	7.70
3606327.72	2.00	2.20	3.00	3.30	4.00	4.90	5.20	6.50	7.20
3606227.72	2.00	2.00	3.00	3.10	3.70	4.90	5.20	6.10	6.80
3606127.72	2.00	2.70	3.00	3.00	3.60	4.10	5.20	6.00	6.70
3606027.72	2.00	2.80	3.10	4.00	4.00	4.00	5.00	5.00	5.80
3605927.72	2.50	3.00	3.10	4.00	4.00	4.90	5.20	6.00	6.80
3605827.72	3.00	3.10	4.00	4.00	4.70	5.10	6.00	6.60	7.80
3605727.72	3.00	3.80	4.00	4.50	5.10	5.90	6.40	7.60	8.20
3605627.72	3.20	3.90	4.30	5.10	5.70	6.30	7.20	8.10	9.00
3605527.72	3.50	4.30	5.00	5.60	6.20	6.90	7.60	8.80	10.10
3605427.72	3.70	4.80	5.50	6.20	7.10	7.50	8.60	10.10	11.60
3605327.72	4.30	4.90	6.00	6.70	7.60	8.50	9.70	11.50	13.70
3605227.72	4.50	5.50	6.10	7.20	8.30	9.50	11.40	12.90	15.10
3605127.72	4.90	5.80	6.80	8.10	9.30	10.60	12.20	13.80	15.70
3605027.72	5.80	6.60	7.10	8.40	9.60	10.90	12.30	14.40	16.30
3604927.72	6.90	7.70	7.90	8.40	9.60	10.90	13.10	14.50	16.50
3604827.72	8.90	8.90	9.00	9.30	10.00	10.90	12.40	14.50	16.50
3604727.72	11.10	10.30	10.10	10.40	11.00	11.00	12.40	14.50	15.70
3604627.72	12.80	12.30	12.20	12.20	12.10	12.10	13.30	14.50	15.80
3604527.72	15.20	14.60	14.40	13.90	13.40	13.40	14.20	14.70	15.80
3604427.72	16.60	16.60	16.20	15.60	15.60	15.30	15.30	15.80	16.30
3604327.72	18.40	18.40	17.70	17.60	17.40	16.80	16.70	17.00	17.40
3604227.72	19.90	19.50	19.40	19.20	18.90	18.50	18.40	18.40	18.40

*** AERMOD - VERSION 16216r *** *** C:\AERMOD\8575\Bella Mar I-5\Bella Mar I-5.isc *** 05/30/19
 *** AERMET - VERSION 15181 *** *** 10:49:15

*** MODELOPTs: RegDFAULT CONC ELEV RURAL

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	X-COORD (METERS)								
	491280.87	491380.87	491480.87	491580.87	491680.87	491780.87	491880.87	491980.87	492080.87

3604127.72	21.50	21.20	20.50	20.50	20.50	20.10	20.10	20.10	19.70
3604027.72	22.60	22.60	22.20	21.60	21.60	21.60	21.60	21.60	21.30
3603927.72	23.70	23.70	23.70	23.10	22.70	22.70	22.70	22.70	22.70
3603827.72	24.40	24.80	24.80	24.40	24.30	23.80	23.80	23.80	23.80
3603727.72	24.90	25.00	25.00	25.30	26.40	26.60	26.60	26.20	25.10
3603627.72	25.00	25.00	25.10	26.00	26.60	27.00	28.10	29.30	29.70
3603527.72	25.00	25.00	25.10	26.00	26.00	26.90	27.20	28.50	29.00
3603427.72	25.00	25.00	25.10	25.90	26.00	26.00	26.90	27.40	27.90
3603327.72	24.80	25.00	25.00	25.30	25.90	26.00	26.20	26.80	27.00
3603227.72	23.70	24.50	24.80	25.00	25.50	25.70	25.80	26.00	26.60

*** AERMOD - VERSION 16216r *** C:\AERMOD\8575\Bella Mar I-5\Bella Mar I-5.isc *** 05/30/19
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	X-COORD (METERS)								
	492180.87	492280.87	492380.87	492480.87	492580.87	492680.87	492780.87	492880.87	492980.87

3608127.72	14.00	15.30	16.60	17.80	20.10	21.90	23.80	25.90	27.20
3608027.72	14.00	15.30	16.60	18.10	20.20	22.40	24.30	25.90	27.30
3607927.72	13.60	15.00	16.60	18.70	20.20	22.40	24.30	25.90	27.50
3607827.72	13.00	14.60	16.60	18.70	20.20	22.40	24.30	25.90	27.50
3607727.72	13.00	14.60	16.60	18.70	20.20	22.10	24.00	25.90	27.30
3607627.72	12.40	14.40	16.30	18.10	20.10	21.50	23.50	25.30	26.70
3607527.72	12.00	13.80	15.70	17.70	19.50	21.40	22.90	24.90	26.30
3607427.72	11.20	13.30	15.20	17.00	19.10	20.60	22.40	24.10	25.60
3607327.72	11.00	12.60	14.60	16.70	18.20	19.90	21.80	23.10	25.30
3607227.72	10.00	12.30	14.10	15.90	17.30	19.40	20.70	22.90	24.30
3607127.72	10.00	11.60	13.50	14.80	17.10	18.40	20.30	21.90	23.40
3607027.72	10.00	11.30	12.50	13.70	16.00	17.30	19.20	20.80	22.40
3606927.72	9.80	11.10	11.90	12.80	14.90	16.20	18.20	19.80	22.00
3606827.72	9.00	10.30	11.60	12.80	13.80	15.10	17.10	18.70	20.70
3606727.72	9.00	10.30	11.40	12.50	13.10	14.40	15.90	17.20	19.00
3606627.72	9.00	10.20	10.80	11.80	12.70	13.90	14.90	16.00	17.30
3606527.72	9.00	9.60	10.60	11.40	12.10	13.20	14.10	15.40	15.70
3606427.72	8.40	9.10	9.90	10.90	11.50	12.60	13.30	14.30	14.60
3606327.72	8.00	8.50	9.60	10.20	11.00	11.70	12.30	13.30	13.50
3606227.72	7.20	8.10	8.80	9.90	10.20	10.60	11.80	12.20	13.10
3606127.72	7.00	7.40	8.10	9.00	9.20	10.10	10.80	11.10	12.10
3606027.72	6.00	6.30	7.00	7.90	8.20	9.00	9.70	10.10	11.10
3605927.72	7.00	7.40	8.10	8.90	9.20	10.10	10.80	11.10	12.10
3605827.72	8.10	9.10	9.70	11.00	11.40	12.20	12.90	13.20	14.20
3605727.72	9.20	10.30	11.00	12.30	13.40	13.90	15.10	15.60	16.40
3605627.72	10.30	11.60	13.00	14.40	15.70	16.70	17.50	18.50	19.00
3605527.72	11.80	13.00	14.90	16.60	17.90	19.10	20.40	21.10	21.80
3605427.72	13.50	15.30	17.20	19.10	20.50	21.80	23.00	24.30	24.60
3605327.72	15.10	17.50	19.40	21.30	23.20	24.50	25.80	27.00	27.70
3605227.72	16.70	18.90	20.80	22.50	24.70	25.80	26.70	28.00	29.20
3605127.72	17.70	19.50	21.90	23.60	25.10	26.30	26.90	28.00	29.90
3605027.72	18.00	20.20	22.20	24.50	25.10	26.10	26.80	28.00	29.70
3604927.72	18.10	20.60	22.50	24.70	25.90	26.00	26.70	28.00	29.30
3604827.72	18.10	20.30	22.20	24.70	26.00	26.00	26.70	28.00	29.30
3604727.72	18.00	19.60	22.20	24.70	25.10	26.00	26.70	28.00	29.30
3604627.72	17.10	19.60	21.50	23.60	25.10	25.90	26.70	28.00	29.30
3604527.72	17.10	19.20	21.10	22.80	24.80	25.40	26.70	28.00	29.30
3604427.72	17.00	18.50	20.50	22.50	24.10	25.30	26.40	27.70	29.30
3604327.72	17.40	18.60	20.00	21.80	23.80	24.80	25.70	27.00	29.00
3604227.72	18.50	19.10	19.80	21.40	23.10	24.40	25.70	27.00	28.50

*** AERMOD - VERSION 16216r *** C:\AERMOD\8575\Bella Mar I-5\Bella Mar I-5.isc *** 05/30/19
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	X-COORD (METERS)								
	492180.87	492280.87	492380.87	492480.87	492580.87	492680.87	492780.87	492880.87	492980.87
3604127.72	19.50	19.80	20.50	20.90	22.60	23.90	25.20	27.00	28.50
3604027.72	21.20	21.30	21.60	21.60	22.10	23.40	24.70	26.40	29.10
3603927.72	22.70	22.70	22.70	22.70	22.80	23.80	24.70	26.70	30.90
3603827.72	23.80	23.80	23.80	23.80	23.90	24.80	25.50	29.20	33.30
3603727.72	24.90	24.90	24.90	26.30	26.70	27.90	29.70	33.40	36.10
3603627.72	30.70	31.80	31.90	31.70	32.60	32.70	34.10	36.80	38.40
3603527.72	30.00	31.30	32.00	32.80	34.00	34.40	36.40	38.00	38.20
3603427.72	28.90	29.20	30.40	30.90	32.00	33.20	34.50	35.80	36.10
3603327.72	27.80	28.10	28.70	29.50	30.00	31.30	32.50	33.60	34.70
3603227.72	26.70	26.70	27.20	27.70	28.90	30.10	31.20	31.70	32.90

*** AERMOD - VERSION 16216r *** C:\AERMOD\8575\Bella Mar I-5\Bella Mar I-5.isc *** 05/30/19
*** AERMET - VERSION 15181 *** *** 10:49:15

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*** MODELOPTs: RegDFAULT CONC ELEV RURAL

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	X-COORD (METERS)								
	493080.87	493180.87	493280.87	493380.87	493480.87	493580.87	493680.87	493780.87	493880.87
3608127.72	28.60	29.80	31.00	31.30	32.00	32.90	35.00	36.50	37.70
3608027.72	29.20	30.00	31.00	31.30	32.00	32.90	34.30	36.30	38.00
3607927.72	29.50	30.00	31.00	31.30	32.00	32.90	34.20	35.90	38.50
3607827.72	29.50	30.00	31.00	31.30	32.00	32.90	33.70	35.50	38.00
3607727.72	29.20	30.00	31.00	31.30	32.00	32.90	33.20	34.70	36.90
3607627.72	28.70	29.90	31.00	31.10	31.80	32.30	33.20	34.50	36.00
3607527.72	28.20	29.80	30.30	31.00	31.60	32.00	33.20	34.50	35.70
3607427.72	27.60	29.00	30.10	31.00	31.10	31.90	32.40	33.70	35.00
3607327.72	26.60	28.60	30.00	30.40	31.00	31.90	32.20	33.50	34.70
3607227.72	26.00	27.80	29.10	30.30	31.00	31.00	32.20	33.50	34.70
3607127.72	25.50	26.80	29.00	30.30	31.00	31.00	32.20	33.40	34.70
3607027.72	24.40	26.50	28.10	29.90	30.60	31.00	31.20	32.50	33.70
3606927.72	23.30	25.40	27.90	29.20	30.50	31.00	31.20	32.50	33.60
3606827.72	22.20	24.30	26.50	28.40	29.90	30.70	31.10	32.20	32.90
3606727.72	21.00	22.90	24.80	27.20	29.10	30.00	30.70	31.50	32.50
3606627.72	19.10	21.30	23.20	25.50	27.40	29.40	30.20	31.30	31.60
3606527.72	17.20	19.10	21.10	23.30	25.20	27.30	29.20	30.50	30.90
3606427.72	15.90	17.20	18.90	20.50	22.40	24.60	26.50	28.40	29.50
3606327.72	14.80	16.10	16.70	18.00	19.90	21.80	23.30	25.40	26.70
3606227.72	13.70	14.40	15.30	16.60	18.00	19.40	20.70	22.10	23.40
3606127.72	12.70	13.10	14.20	15.50	16.80	17.30	18.50	19.80	21.00
3606027.72	11.60	12.10	13.10	13.50	14.70	16.00	16.30	17.60	18.90
3605927.72	12.10	12.10	13.10	13.10	13.70	14.10	14.20	15.10	15.80
3605827.72	14.30	15.10	15.20	15.60	16.20	16.20	16.40	17.20	17.20
3605727.72	17.00	17.40	17.60	17.90	18.40	18.40	18.40	18.80	19.30
3605627.72	19.70	19.80	20.60	20.60	20.60	20.50	20.50	20.50	21.10
3605527.72	22.40	22.70	22.70	22.70	22.70	22.70	22.40	22.40	22.60
3605427.72	25.10	24.90	24.80	24.40	24.40	24.40	23.90	23.90	24.30
3605327.72	28.10	28.10	28.00	27.30	27.60	27.10	27.00	26.80	27.10
3605227.72	30.50	31.20	31.80	31.80	32.40	32.10	31.90	31.80	32.00
3605127.72	31.40	32.60	34.40	35.40	36.50	36.70	36.90	37.40	37.40
3605027.72	31.50	32.80	35.10	36.40	38.10	39.50	40.70	42.10	42.10
3604927.72	30.70	32.70	34.30	36.40	37.70	39.90	41.40	43.40	44.50
3604827.72	30.50	31.90	34.10	35.40	37.30	39.00	40.50	42.60	44.50
3604727.72	30.50	31.80	34.10	35.40	36.60	38.90	40.20	42.00	43.80
3604627.72	30.50	31.80	33.20	35.40	36.70	38.90	40.20	42.00	43.80
3604527.72	30.50	31.80	33.20	35.40	36.70	38.90	40.20	42.00	43.80
3604427.72	30.50	31.80	33.40	35.40	36.80	38.90	40.50	42.10	44.00
3604327.72	30.50	32.10	34.10	35.70	37.70	39.30	41.20	42.70	44.60
3604227.72	30.50	32.60	34.60	36.50	38.50	40.30	41.60	43.40	45.20

*** AERMOD - VERSION 16216r *** C:\AERMOD\8575\Bella Mar I-5\Bella Mar I-5.isc *** 05/30/19

*** MODELOPTs: RegDFAULT CONC ELEV RURAL

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	X-COORD (METERS)									
	493080.87	493180.87	493280.87	493380.87	493480.87	493580.87	493680.87	493780.87	493880.87	
3604127.72	30.80	33.20	35.70	37.60	39.50	41.40	42.70	44.50	46.30	
3604027.72	31.70	34.20	37.30	39.20	41.10	42.50	43.80	45.30	46.80	
3603927.72	33.40	36.00	38.80	40.90	42.30	43.60	44.90	46.20	47.40	
3603827.72	36.40	38.30	40.00	42.10	43.40	44.70	45.80	46.50	47.80	
3603727.72	38.30	39.70	41.00	42.40	43.70	44.90	46.00	46.50	47.10	
3603627.72	40.40	40.90	42.00	43.30	44.00	44.90	45.10	45.10	45.20	
3603527.72	39.50	40.00	41.10	42.00	42.00	42.90	43.00	43.00	43.80	
3603427.72	37.40	37.90	38.90	39.80	40.50	40.80	40.80	41.30	41.80	
3603327.72	35.30	36.50	36.90	37.70	38.30	38.70	38.70	39.20	39.70	
3603227.72	33.60	34.60	35.50	35.70	36.20	36.50	36.90	37.50	37.50	

*** AERMOD - VERSION 16216r *** ** C:\AERMOD\8575\Bella Mar I-5\Bella Mar I-5.isc *** 05/30/19

*** MODELOPTs: RegDFAULT CONC ELEV RURAL

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	X-COORD (METERS)				
	493980.87	494080.87	494180.87	494280.87	494380.87
3608127.72	40.00	41.80	44.20	46.70	49.30
3608027.72	40.30	42.60	44.70	46.70	49.30
3607927.72	40.60	42.60	44.90	46.80	49.30
3607827.72	40.00	42.10	44.40	46.30	48.80
3607727.72	39.50	41.40	43.60	45.30	47.60
3607627.72	38.40	40.20	42.20	44.10	46.00
3607527.72	37.30	38.70	40.20	42.30	43.90
3607427.72	36.20	37.50	38.80	40.30	41.70
3607327.72	36.00	37.30	38.60	39.90	41.20
3607227.72	36.00	37.00	37.60	38.90	40.20
3607127.72	35.00	36.30	37.60	38.80	39.10
3607027.72	35.00	36.20	37.00	37.80	38.90
3606927.72	34.80	35.20	36.40	36.80	37.80
3606827.72	33.70	34.70	35.30	35.70	36.70
3606727.72	33.00	33.70	34.40	34.60	35.60
3606627.72	32.60	32.90	33.60	33.60	34.20
3606527.72	31.50	31.80	32.50	32.50	32.50
3606427.72	30.40	30.70	31.40	31.40	31.40
3606327.72	27.90	28.90	29.60	29.60	29.70
3606227.72	24.70	26.00	26.70	26.70	27.60
3606127.72	22.30	22.70	23.90	24.30	25.30
3606027.72	19.20	20.40	21.20	22.00	22.30
3605927.72	17.00	17.30	18.60	19.00	20.00
3605827.72	17.20	18.10	18.20	18.20	18.20
3605727.72	19.40	19.60	20.20	20.40	20.40
3605627.72	21.30	21.40	21.50	22.20	22.30
3605527.72	22.70	22.90	23.40	23.40	23.40
3605427.72	24.40	24.60	24.90	24.90	24.40
3605327.72	27.60	28.30	28.90	29.10	28.60
3605227.72	33.00	34.00	34.60	35.00	35.60
3605127.72	38.40	39.00	40.00	40.40	41.50
3605027.72	43.10	43.90	45.10	45.80	47.20
3604927.72	46.60	47.50	49.20	51.10	53.20
3604827.72	46.10	48.00	49.20	51.80	54.10
3604727.72	46.00	47.30	48.60	51.60	53.10
3604627.72	45.10	47.00	48.20	50.80	52.30
3604527.72	45.30	47.00	48.20	50.80	52.20

3604427.72 | 46.00 47.10 48.30 50.80 52.20
 3604327.72 | 46.40 47.60 48.80 50.80 52.30
 3604227.72 | 47.00 48.10 49.40 51.30 52.70
 *** AERMOD - VERSION 16216r *** C:\AERMOD\8575\Bella Mar I-5\Bella Mar I-5.isc *** 05/30/19
 *** AERMET - VERSION 15181 *** *** 10:49:15

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*** MODELOPTs: RegDFAULT CONC ELEV RURAL

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

* HILL HEIGHT SCALES IN METERS *

Y-COORD	X-COORD (METERS)				
(METERS)	493980.87	494080.87	494180.87	494280.87	494380.87

3604127.72 | 47.60 48.80 50.10 51.80 53.20
 3604027.72 | 48.00 49.30 50.60 51.90 53.20
 3603927.72 | 48.00 49.10 50.30 51.30 52.50
 3603827.72 | 48.70 48.00 48.70 50.20 51.40
 3603727.72 | 47.30 46.80 46.40 48.10 49.50
 3603627.72 | 46.00 44.80 44.70 46.00 47.30
 3603527.72 | 43.90 43.00 43.00 43.00 44.00
 3603427.72 | 41.80 40.80 40.80 40.80 41.70
 3603327.72 | 39.60 38.40 38.30 38.70 38.70
 3603227.72 | 37.40 36.50 36.50 36.50 36.50
 *** AERMOD - VERSION 16216r *** C:\AERMOD\8575\Bella Mar I-5\Bella Mar I-5.isc *** 05/30/19
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL

*** DISCRETE CARTESIAN RECEPTORS ***
 (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
 (METERS)

(491839.6, 3605602.1, 6.8, 6.8, 0.0);	(491838.1, 3605624.2, 6.8, 6.8, 0.0);
(491833.2, 3605657.2, 6.6, 6.6, 0.0);	(491823.8, 3605670.0, 6.4, 6.4, 0.0);
(491821.9, 3605686.3, 6.3, 6.3, 0.0);	(491819.4, 3605703.0, 6.2, 6.2, 0.0);
(491852.9, 3605715.3, 6.3, 6.3, 0.0);	(491874.6, 3605716.3, 6.4, 6.4, 0.0);
(491893.8, 3605716.3, 6.7, 6.7, 0.0);	(491943.0, 3605720.7, 7.3, 7.3, 0.0);
(492003.5, 3605721.2, 7.8, 7.8, 0.0);	(492061.1, 3605721.7, 8.1, 8.1, 0.0);
(492094.6, 3605666.1, 8.8, 8.8, 0.0);	(492076.9, 3605609.0, 9.2, 9.2, 0.0);
(492041.5, 3605598.6, 8.8, 8.8, 0.0);	(492006.0, 3605598.1, 8.5, 8.5, 0.0);
(491975.0, 3605598.6, 8.2, 8.2, 0.0);	(491941.5, 3605598.1, 8.0, 8.0, 0.0);
(491911.0, 3605608.5, 7.6, 7.6, 0.0);	(491865.7, 3605588.8, 7.0, 7.0, 0.0);
(491864.2, 3605680.9, 6.7, 6.7, 0.0);	(492022.8, 3605673.0, 8.0, 8.0, 0.0);

*** AERMOD - VERSION 16216r *** C:\AERMOD\8575\Bella Mar I-5\Bella Mar I-5.isc *** 05/30/19
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL

* SOURCE-RECEPTOR COMBINATIONS FOR WHICH CALCULATIONS MAY NOT BE PERFORMED *
 LESS THAN 1.0 METER; WITHIN OPENPIT; OR BEYOND 80KM FOR FASTAREA/FASTALL

SOURCE ID	-- RECEPTOR LOCATION --		DISTANCE (METERS)
	XR (METERS)	YR (METERS)	
L000009	492680.9	3603727.7	-3.05
L000010	492680.9	3603727.7	-1.55
L000051	492480.9	3604027.7	0.90
L000052	492480.9	3604027.7	-6.41
L000053	492480.9	3604027.7	-0.49
L000095	492280.9	3604327.7	0.32
L0000111	492180.9	3604427.7	-0.90
L0000112	492180.9	3604427.7	-0.55
L0000219	491780.9	3605227.7	-0.63
L0000220	491780.9	3605227.7	0.38
L0000231	491780.9	3605327.7	-5.34
L0000232	491780.9	3605327.7	-1.30
L0000242	491780.9	3605427.7	0.59

10 01 01 1 21 -1.7 0.052 -9.000 -9.000 -999. 28. 7.3 0.33 1.07 1.00 0.89 122. 10.0 286.9 10.0
10 01 01 1 22 -4.7 0.078 -9.000 -9.000 -999. 52. 9.1 0.33 1.07 1.00 1.34 99. 10.0 286.4 10.0
10 01 01 1 23 -2.3 0.053 -9.000 -9.000 -999. 29. 6.0 0.35 1.07 1.00 0.89 331. 10.0 285.4 10.0
10 01 01 1 24 -2.3 0.054 -9.000 -9.000 -999. 30. 6.1 0.36 1.07 1.00 0.89 40. 10.0 285.4 10.0

First hour of profile data

YR MO DY HR HEIGHT F WDIR WSPD AMB_TMP sigmaA sigmaW sigmaV
10 01 01 01 10.0 1 48. 0.89 283.2 30.0 -99.00 0.41

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

*** AERMOD - VERSION 16216r *** C:\AERMOD\8575\Bella Mar I-5\Bella Mar I-5.isc *** 05/30/19
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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 3 YEARS FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , ...

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_{2.5} IN MICROGRAMS/M³ **

Y-COORD | X-COORD (METERS)
(METERS) | 489480.87 489580.87 489680.87 489780.87 489880.87 489980.87 490080.87 490180.87 490280.87

3608127.72 | 0.00081 0.00085 0.00089 0.00093 0.00097 0.00102 0.00108 0.00113 0.00120
3608027.72 | 0.00084 0.00088 0.00092 0.00097 0.00101 0.00107 0.00113 0.00120 0.00127
3607927.72 | 0.00086 0.00091 0.00095 0.00100 0.00106 0.00112 0.00118 0.00127 0.00135
3607827.72 | 0.00089 0.00094 0.00098 0.00104 0.00110 0.00117 0.00125 0.00132 0.00141
3607727.72 | 0.00092 0.00096 0.00102 0.00108 0.00115 0.00122 0.00130 0.00138 0.00147
3607627.72 | 0.00094 0.00099 0.00105 0.00112 0.00119 0.00126 0.00134 0.00143 0.00154
3607527.72 | 0.00097 0.00102 0.00109 0.00115 0.00122 0.00130 0.00139 0.00149 0.00160
3607427.72 | 0.00099 0.00105 0.00111 0.00118 0.00125 0.00134 0.00143 0.00154 0.00166
3607327.72 | 0.00102 0.00108 0.00114 0.00121 0.00129 0.00137 0.00147 0.00159 0.00171
3607227.72 | 0.00103 0.00109 0.00116 0.00123 0.00132 0.00141 0.00151 0.00163 0.00176
3607127.72 | 0.00105 0.00111 0.00118 0.00126 0.00134 0.00144 0.00155 0.00167 0.00181
3607027.72 | 0.00107 0.00113 0.00120 0.00128 0.00137 0.00147 0.00158 0.00170 0.00185
3606927.72 | 0.00108 0.00115 0.00122 0.00130 0.00139 0.00149 0.00161 0.00174 0.00188
3606827.72 | 0.00110 0.00117 0.00124 0.00132 0.00141 0.00152 0.00163 0.00176 0.00192
3606727.72 | 0.00111 0.00118 0.00125 0.00134 0.00143 0.00154 0.00165 0.00179 0.00194
3606627.72 | 0.00112 0.00119 0.00127 0.00135 0.00145 0.00155 0.00167 0.00181 0.00196
3606527.72 | 0.00113 0.00120 0.00128 0.00136 0.00146 0.00157 0.00169 0.00182 0.00198
3606427.72 | 0.00114 0.00121 0.00129 0.00137 0.00147 0.00158 0.00170 0.00183 0.00199
3606327.72 | 0.00114 0.00121 0.00129 0.00138 0.00148 0.00158 0.00170 0.00184 0.00200
3606227.72 | 0.00115 0.00122 0.00130 0.00138 0.00148 0.00159 0.00171 0.00185 0.00200
3606127.72 | 0.00115 0.00122 0.00130 0.00139 0.00148 0.00159 0.00171 0.00185 0.00200
3606027.72 | 0.00115 0.00122 0.00130 0.00139 0.00148 0.00159 0.00171 0.00184 0.00199
3605927.72 | 0.00115 0.00122 0.00130 0.00138 0.00148 0.00158 0.00170 0.00184 0.00200
3605827.72 | 0.00115 0.00122 0.00129 0.00138 0.00147 0.00158 0.00170 0.00184 0.00198
3605727.72 | 0.00116 0.00122 0.00129 0.00137 0.00147 0.00157 0.00170 0.00182 0.00196
3605627.72 | 0.00116 0.00123 0.00129 0.00137 0.00147 0.00157 0.00168 0.00180 0.00194
3605527.72 | 0.00116 0.00123 0.00129 0.00137 0.00145 0.00156 0.00165 0.00178 0.00192
3605427.72 | 0.00116 0.00122 0.00129 0.00136 0.00144 0.00154 0.00163 0.00175 0.00189
3605327.72 | 0.00116 0.00122 0.00129 0.00136 0.00143 0.00152 0.00162 0.00173 0.00186
3605227.72 | 0.00118 0.00122 0.00128 0.00135 0.00143 0.00151 0.00160 0.00172 0.00184
3605127.72 | 0.00121 0.00125 0.00129 0.00136 0.00143 0.00151 0.00160 0.00170 0.00182
3605027.72 | 0.00121 0.00127 0.00133 0.00140 0.00143 0.00151 0.00160 0.00171 0.00182
3604927.72 | 0.00120 0.00127 0.00134 0.00141 0.00149 0.00154 0.00160 0.00170 0.00180
3604827.72 | 0.00118 0.00124 0.00131 0.00139 0.00147 0.00155 0.00165 0.00173 0.00180
3604727.72 | 0.00116 0.00122 0.00127 0.00135 0.00144 0.00153 0.00163 0.00173 0.00183
3604627.72 | 0.00115 0.00121 0.00126 0.00131 0.00139 0.00149 0.00157 0.00169 0.00180
3604527.72 | 0.00113 0.00119 0.00125 0.00130 0.00136 0.00142 0.00150 0.00160 0.00172
3604427.72 | 0.00111 0.00117 0.00123 0.00129 0.00135 0.00140 0.00147 0.00153 0.00163
3604327.72 | 0.00108 0.00114 0.00120 0.00126 0.00132 0.00138 0.00144 0.00151 0.00157
3604227.72 | 0.00105 0.00111 0.00117 0.00123 0.00129 0.00135 0.00142 0.00148 0.00154

*** AERMOD - VERSION 16216r *** C:\AERMOD\8575\Bella Mar I-5\Bella Mar I-5.isc *** 05/30/19
*** AERMET - VERSION 15181 *** *** 10:49:15

*** MODELOPTs: RegDFAULT CONC ELEV RURAL

*** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 3 YEARS FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , ... ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

Y-COORD	X-COORD (METERS)								
(METERS)	489480.87	489580.87	489680.87	489780.87	489880.87	489980.87	490080.87	490180.87	490280.87

3604127.72	0.00102	0.00108	0.00114	0.00120	0.00126	0.00132	0.00138	0.00144	0.00151
3604027.72	0.00099	0.00105	0.00111	0.00116	0.00122	0.00128	0.00134	0.00141	0.00147
3603927.72	0.00096	0.00101	0.00107	0.00113	0.00118	0.00124	0.00130	0.00136	0.00142
3603827.72	0.00092	0.00099	0.00103	0.00109	0.00114	0.00120	0.00126	0.00131	0.00137
3603727.72	0.00090	0.00096	0.00100	0.00106	0.00111	0.00116	0.00121	0.00127	0.00132
3603627.72	0.00087	0.00093	0.00097	0.00102	0.00107	0.00111	0.00117	0.00122	0.00127
3603527.72	0.00085	0.00089	0.00094	0.00098	0.00103	0.00107	0.00112	0.00117	0.00122
3603427.72	0.00082	0.00086	0.00090	0.00095	0.00099	0.00103	0.00108	0.00112	0.00117
3603327.72	0.00079	0.00081	0.00086	0.00090	0.00094	0.00099	0.00103	0.00107	0.00111
3603227.72	0.00075	0.00077	0.00082	0.00085	0.00089	0.00094	0.00098	0.00102	0.00106

*** AERMOD - VERSION 16216r *** *** C:\AERMOD\8575\Bella Mar I-5\Bella Mar I-5.isc *** 05/30/19

*** AERMET - VERSION 15181 *** *** 10:49:15

*** MODELOPTs: RegDFAULT CONC ELEV RURAL

*** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 3 YEARS FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , ... ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

Y-COORD	X-COORD (METERS)								
(METERS)	490380.87	490480.87	490580.87	490680.87	490780.87	490880.87	490980.87	491080.87	491180.87

3608127.72	0.00128	0.00135	0.00144	0.00153	0.00162	0.00172	0.00185	0.00198	0.00211
3608027.72	0.00136	0.00144	0.00153	0.00164	0.00175	0.00188	0.00203	0.00221	0.00239
3607927.72	0.00143	0.00152	0.00164	0.00176	0.00190	0.00206	0.00225	0.00248	0.00275
3607827.72	0.00151	0.00162	0.00174	0.00189	0.00206	0.00226	0.00249	0.00278	0.00317
3607727.72	0.00158	0.00171	0.00185	0.00202	0.00222	0.00246	0.00276	0.00314	0.00365
3607627.72	0.00166	0.00180	0.00196	0.00215	0.00238	0.00266	0.00302	0.00349	0.00415
3607527.72	0.00173	0.00188	0.00206	0.00227	0.00253	0.00285	0.00326	0.00381	0.00460
3607427.72	0.00180	0.00196	0.00215	0.00238	0.00266	0.00301	0.00347	0.00408	0.00499
3607327.72	0.00186	0.00203	0.00224	0.00248	0.00278	0.00316	0.00365	0.00430	0.00527
3607227.72	0.00192	0.00210	0.00231	0.00257	0.00289	0.00328	0.00380	0.00448	0.00547
3607127.72	0.00197	0.00216	0.00238	0.00265	0.00298	0.00339	0.00391	0.00461	0.00560
3607027.72	0.00202	0.00221	0.00244	0.00272	0.00305	0.00347	0.00401	0.00471	0.00569
3606927.72	0.00206	0.00226	0.00249	0.00277	0.00311	0.00354	0.00407	0.00477	0.00574
3606827.72	0.00209	0.00229	0.00253	0.00282	0.00316	0.00359	0.00412	0.00481	0.00580
3606727.72	0.00212	0.00232	0.00256	0.00285	0.00320	0.00362	0.00415	0.00482	0.00585
3606627.72	0.00214	0.00235	0.00259	0.00288	0.00322	0.00364	0.00416	0.00482	0.00583
3606527.72	0.00216	0.00236	0.00261	0.00289	0.00323	0.00365	0.00416	0.00486	0.00578
3606427.72	0.00217	0.00238	0.00262	0.00290	0.00324	0.00364	0.00418	0.00487	0.00572
3606327.72	0.00218	0.00238	0.00262	0.00290	0.00327	0.00367	0.00419	0.00483	0.00566
3606227.72	0.00218	0.00238	0.00263	0.00292	0.00327	0.00367	0.00416	0.00478	0.00558
3606127.72	0.00217	0.00238	0.00264	0.00289	0.00321	0.00364	0.00412	0.00472	0.00549
3606027.72	0.00219	0.00239	0.00259	0.00286	0.00318	0.00357	0.00407	0.00465	0.00539
3605927.72	0.00218	0.00235	0.00258	0.00284	0.00314	0.00351	0.00400	0.00458	0.00529
3605827.72	0.00214	0.00233	0.00255	0.00281	0.00311	0.00346	0.00394	0.00450	0.00520
3605727.72	0.00212	0.00231	0.00252	0.00277	0.00307	0.00342	0.00387	0.00441	0.00511
3605627.72	0.00210	0.00228	0.00249	0.00274	0.00302	0.00337	0.00381	0.00432	0.00504

3605527.72		0.00207	0.00225	0.00246	0.00269	0.00297	0.00331	0.00374	0.00422	0.00491
3605427.72		0.00204	0.00222	0.00242	0.00265	0.00292	0.00326	0.00365	0.00412	0.00478
3605327.72		0.00201	0.00218	0.00238	0.00261	0.00287	0.00320	0.00356	0.00404	0.00465
3605227.72		0.00199	0.00215	0.00234	0.00257	0.00282	0.00312	0.00349	0.00395	0.00454
3605127.72		0.00195	0.00212	0.00231	0.00252	0.00277	0.00307	0.00343	0.00386	0.00444
3605027.72		0.00195	0.00211	0.00230	0.00250	0.00274	0.00303	0.00336	0.00380	0.00432
3604927.72		0.00194	0.00210	0.00228	0.00248	0.00271	0.00298	0.00330	0.00370	0.00418
3604827.72		0.00193	0.00207	0.00224	0.00243	0.00265	0.00292	0.00322	0.00359	0.00405
3604727.72		0.00195	0.00208	0.00222	0.00241	0.00262	0.00286	0.00314	0.00346	0.00389
3604627.72		0.00192	0.00205	0.00220	0.00237	0.00256	0.00278	0.00303	0.00334	0.00372
3604527.72		0.00185	0.00198	0.00213	0.00228	0.00246	0.00267	0.00291	0.00318	0.00352
3604427.72		0.00175	0.00187	0.00201	0.00215	0.00234	0.00253	0.00274	0.00299	0.00329
3604327.72		0.00166	0.00175	0.00188	0.00201	0.00219	0.00236	0.00257	0.00279	0.00305
3604227.72		0.00161	0.00168	0.00177	0.00187	0.00202	0.00219	0.00237	0.00258	0.00281

*** AERMOD - VERSION 16216r *** C:\AERMOD\8575\Bella Mar I-5\Bella Mar I-5.isc *** 05/30/19

*** AERMET - VERSION 15181 *** *** 10:49:15

*** MODELOPTs: RegDFAULT CONC ELEV RURAL

*** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 3 YEARS FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , ... ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

Y-COORD	X-COORD (METERS)								
(METERS)	490380.87	490480.87	490580.87	490680.87	490780.87	490880.87	490980.87	491080.87	491180.87

3604127.72		0.00158	0.00165	0.00172	0.00180	0.00189	0.00204	0.00219	0.00237	0.00260
3604027.72		0.00154	0.00160	0.00168	0.00176	0.00184	0.00193	0.00204	0.00218	0.00237
3603927.72		0.00148	0.00155	0.00162	0.00169	0.00178	0.00187	0.00196	0.00205	0.00220
3603827.72		0.00143	0.00149	0.00156	0.00163	0.00170	0.00179	0.00187	0.00195	0.00208
3603727.72		0.00138	0.00143	0.00149	0.00156	0.00162	0.00170	0.00178	0.00185	0.00195
3603627.72		0.00132	0.00137	0.00143	0.00149	0.00155	0.00161	0.00167	0.00175	0.00181
3603527.72		0.00126	0.00131	0.00136	0.00142	0.00147	0.00153	0.00158	0.00165	0.00171
3603427.72		0.00121	0.00125	0.00130	0.00135	0.00140	0.00145	0.00151	0.00156	0.00161
3603327.72		0.00116	0.00120	0.00124	0.00129	0.00134	0.00138	0.00143	0.00148	0.00153
3603227.72		0.00111	0.00115	0.00119	0.00123	0.00127	0.00132	0.00137	0.00141	0.00146

*** AERMOD - VERSION 16216r *** C:\AERMOD\8575\Bella Mar I-5\Bella Mar I-5.isc *** 05/30/19

*** AERMET - VERSION 15181 *** *** 10:49:15

*** MODELOPTs: RegDFAULT CONC ELEV RURAL

*** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 3 YEARS FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , ... ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

Y-COORD	X-COORD (METERS)								
(METERS)	491280.87	491380.87	491480.87	491580.87	491680.87	491780.87	491880.87	491980.87	492080.87

3608127.72		0.00224	0.00236	0.00244	0.00245	0.00240	0.00230	0.00202	0.00183	0.00162
3608027.72		0.00258	0.00276	0.00291	0.00293	0.00285	0.00269	0.00234	0.00208	0.00183
3607927.72		0.00304	0.00335	0.00362	0.00366	0.00348	0.00319	0.00270	0.00243	0.00213
3607827.72		0.00363	0.00423	0.00481	0.00493	0.00448	0.00391	0.00339	0.00279	0.00241
3607727.72		0.00443	0.00555	0.00738	0.00786	0.00615	0.00491	0.00406	0.00328	0.00281
3607627.72		0.00525	0.00721	0.01364	0.01679	0.00864	0.00614	0.00481	0.00381	0.00322
3607527.72		0.00592	0.00846	0.01599	0.02345	0.01094	0.00734	0.00556	0.00446	0.00364
3607427.72		0.00651	0.00913	0.01621	0.02854	0.01267	0.00835	0.00623	0.00497	0.00401
3607327.72		0.00686	0.00945	0.01594	0.03472	0.01409	0.00920	0.00681	0.00543	0.00446
3607227.72		0.00707	0.00984	0.01560	0.03335	0.01536	0.00994	0.00739	0.00582	0.00477

3607127.72		0.00719	0.00985	0.01514	0.03532	0.01659	0.01061	0.00786	0.00617	0.00504
3607027.72		0.00724	0.00979	0.01466	0.03897	0.01785	0.01125	0.00829	0.00650	0.00530
3606927.72		0.00724	0.00968	0.01418	0.03224	0.01923	0.01193	0.00870	0.00680	0.00554
3606827.72		0.00721	0.00953	0.01368	0.02785	0.02088	0.01257	0.00910	0.00710	0.00578
3606727.72		0.00716	0.00936	0.01319	0.02483	0.02287	0.01325	0.00950	0.00739	0.00604
3606627.72		0.00708	0.00918	0.01272	0.02253	0.02537	0.01397	0.00992	0.00771	0.00627
3606527.72		0.00699	0.00898	0.01226	0.02064	0.02894	0.01479	0.01038	0.00801	0.00648
3606427.72		0.00689	0.00878	0.01178	0.01880	0.03438	0.01569	0.01083	0.00829	0.00669
3606327.72		0.00677	0.00843	0.01137	0.01735	0.03958	0.01669	0.01129	0.00857	0.00692
3606227.72		0.00665	0.00818	0.01098	0.01620	0.03521	0.01783	0.01177	0.00889	0.00715
3606127.72		0.00652	0.00812	0.01058	0.01521	0.03565	0.01910	0.01227	0.00919	0.00735
3606027.72		0.00638	0.00792	0.01022	0.01486	0.02992	0.02051	0.01279	0.00947	0.00757
3605927.72		0.00630	0.00772	0.00983	0.01401	0.02566	0.02241	0.01334	0.00979	0.00776
3605827.72		0.00621	0.00751	0.00966	0.01319	0.02303	0.02460	0.01398	0.01010	0.00795
3605727.72		0.00604	0.00738	0.00927	0.01260	0.02088	0.02773	0.01465	0.01042	0.00815
3605627.72		0.00590	0.00715	0.00895	0.01210	0.01926	0.03204	0.01540	0.01076	0.00834
3605527.72		0.00576	0.00697	0.00871	0.01160	0.01787	0.03985	0.01618	0.01109	0.00850
3605427.72		0.00561	0.00678	0.00845	0.01118	0.01697	0.03102	0.01693	0.01137	0.00859
3605327.72		0.00548	0.00656	0.00818	0.01077	0.01613	0.03548	0.01749	0.01158	0.00852
3605227.72		0.00531	0.00636	0.00785	0.01034	0.01542	0.03361	0.01810	0.01180	0.00860
3605127.72		0.00513	0.00612	0.00755	0.00991	0.01461	0.03608	0.01939	0.01242	0.00906
3605027.72		0.00496	0.00588	0.00716	0.00927	0.01320	0.02550	0.02281	0.01364	0.00977
3604927.72		0.00479	0.00564	0.00678	0.00851	0.01164	0.01913	0.03104	0.01582	0.01097
3604827.72		0.00463	0.00537	0.00638	0.00785	0.01028	0.01515	0.03817	0.01998	0.01292
3604727.72		0.00442	0.00508	0.00596	0.00721	0.00914	0.01225	0.02011	0.03151	0.01646
3604627.72		0.00420	0.00480	0.00558	0.00664	0.00812	0.01036	0.01474	0.02796	0.02418
3604527.72		0.00393	0.00446	0.00515	0.00604	0.00721	0.00889	0.01160	0.01664	0.03546
3604427.72		0.00365	0.00409	0.00468	0.00544	0.00640	0.00770	0.00952	0.01241	0.01802
3604327.72		0.00336	0.00373	0.00423	0.00484	0.00563	0.00667	0.00801	0.00991	0.01301
3604227.72		0.00309	0.00342	0.00381	0.00430	0.00495	0.00577	0.00680	0.00819	0.01023

*** AERMOD - VERSION 16216r *** C:\AERMOD\8575\Bella Mar I-5\Bella Mar I-5.isc *** 05/30/19
 *** AERMET - VERSION 15181 *** *** 10:49:15

*** MODELOPTs: RegDFAULT CONC ELEV RURAL

*** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 3 YEARS FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

Y-COORD	X-COORD (METERS)								
(METERS)	491280.87	491380.87	491480.87	491580.87	491680.87	491780.87	491880.87	491980.87	492080.87

3604127.72		0.00282	0.00310	0.00346	0.00386	0.00435	0.00501	0.00581	0.00686	0.00838
3604027.72		0.00259	0.00281	0.00310	0.00347	0.00386	0.00436	0.00498	0.00579	0.00694
3603927.72		0.00238	0.00256	0.00279	0.00309	0.00344	0.00384	0.00433	0.00495	0.00580
3603827.72		0.00220	0.00233	0.00252	0.00276	0.00303	0.00338	0.00377	0.00425	0.00489
3603727.72		0.00204	0.00217	0.00233	0.00250	0.00262	0.00283	0.00311	0.00350	0.00410
3603627.72		0.00192	0.00204	0.00217	0.00227	0.00240	0.00256	0.00267	0.00277	0.00300
3603527.72		0.00180	0.00190	0.00201	0.00210	0.00224	0.00235	0.00250	0.00259	0.00276
3603427.72		0.00169	0.00178	0.00187	0.00195	0.00206	0.00220	0.00229	0.00241	0.00255
3603327.72		0.00159	0.00166	0.00174	0.00183	0.00190	0.00201	0.00212	0.00220	0.00233
3603227.72		0.00151	0.00156	0.00163	0.00170	0.00177	0.00185	0.00195	0.00204	0.00210

*** AERMOD - VERSION 16216r *** C:\AERMOD\8575\Bella Mar I-5\Bella Mar I-5.isc *** 05/30/19
 *** AERMET - VERSION 15181 *** *** 10:49:15

*** MODELOPTs: RegDFAULT CONC ELEV RURAL

*** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 3 YEARS FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3

**

Y-COORD (METERS)	X-COORD (METERS)								
	492180.87	492280.87	492380.87	492480.87	492580.87	492680.87	492780.87	492880.87	492980.87

3608127.72	0.00145	0.00130	0.00118	0.00107	0.00092	0.00082	0.00073	0.00063	0.00058
3608027.72	0.00159	0.00142	0.00128	0.00114	0.00099	0.00085	0.00075	0.00067	0.00061
3607927.72	0.00180	0.00158	0.00139	0.00119	0.00106	0.00091	0.00079	0.00071	0.00063
3607827.72	0.00208	0.00178	0.00151	0.00128	0.00114	0.00097	0.00084	0.00075	0.00067
3607727.72	0.00231	0.00196	0.00164	0.00138	0.00121	0.00105	0.00091	0.00079	0.00071
3607627.72	0.00264	0.00216	0.00181	0.00153	0.00130	0.00115	0.00098	0.00086	0.00077
3607527.72	0.00296	0.00243	0.00201	0.00168	0.00143	0.00122	0.00107	0.00092	0.00082
3607427.72	0.00336	0.00269	0.00222	0.00186	0.00155	0.00135	0.00116	0.00101	0.00090
3607327.72	0.00364	0.00298	0.00244	0.00201	0.00172	0.00148	0.00126	0.00112	0.00095
3607227.72	0.00397	0.00321	0.00265	0.00221	0.00191	0.00160	0.00141	0.00119	0.00105
3607127.72	0.00419	0.00350	0.00287	0.00246	0.00203	0.00177	0.00151	0.00132	0.00116
3607027.72	0.00439	0.00372	0.00315	0.00271	0.00224	0.00196	0.00167	0.00146	0.00128
3606927.72	0.00460	0.00391	0.00337	0.00294	0.00246	0.00215	0.00183	0.00160	0.00135
3606827.72	0.00484	0.00415	0.00355	0.00305	0.00268	0.00235	0.00200	0.00175	0.00150
3606727.72	0.00502	0.00430	0.00371	0.00320	0.00285	0.00250	0.00219	0.00194	0.00169
3606627.72	0.00519	0.00446	0.00391	0.00340	0.00299	0.00263	0.00235	0.00210	0.00188
3606527.72	0.00537	0.00466	0.00405	0.00355	0.00315	0.00278	0.00249	0.00222	0.00205
3606427.72	0.00560	0.00483	0.00422	0.00371	0.00330	0.00291	0.00263	0.00236	0.00218
3606327.72	0.00578	0.00496	0.00436	0.00386	0.00343	0.00307	0.00277	0.00250	0.00231
3606227.72	0.00597	0.00510	0.00445	0.00396	0.00355	0.00321	0.00287	0.00262	0.00238
3606127.72	0.00613	0.00524	0.00456	0.00404	0.00364	0.00328	0.00298	0.00272	0.00248
3606027.72	0.00629	0.00537	0.00467	0.00412	0.00368	0.00333	0.00304	0.00278	0.00255
3605927.72	0.00643	0.00548	0.00476	0.00421	0.00377	0.00340	0.00309	0.00282	0.00257
3605827.72	0.00657	0.00559	0.00485	0.00427	0.00381	0.00341	0.00307	0.00280	0.00254
3605727.72	0.00668	0.00566	0.00491	0.00428	0.00376	0.00337	0.00300	0.00273	0.00247
3605627.72	0.00679	0.00571	0.00487	0.00418	0.00363	0.00321	0.00287	0.00257	0.00235
3605527.72	0.00684	0.00572	0.00477	0.00402	0.00347	0.00303	0.00265	0.00239	0.00217
3605427.72	0.00682	0.00555	0.00455	0.00376	0.00321	0.00278	0.00243	0.00212	0.00197
3605327.72	0.00678	0.00532	0.00430	0.00352	0.00290	0.00250	0.00216	0.00189	0.00171
3605227.72	0.00676	0.00527	0.00424	0.00349	0.00280	0.00243	0.00215	0.00186	0.00162
3605127.72	0.00697	0.00552	0.00427	0.00350	0.00292	0.00251	0.00226	0.00197	0.00163
3605027.72	0.00754	0.00581	0.00458	0.00357	0.00316	0.00274	0.00244	0.00210	0.00175
3604927.72	0.00841	0.00633	0.00497	0.00386	0.00325	0.00299	0.00264	0.00224	0.00192
3604827.72	0.00962	0.00733	0.00570	0.00430	0.00356	0.00326	0.00286	0.00241	0.00204
3604727.72	0.01147	0.00877	0.00654	0.00486	0.00423	0.00359	0.00311	0.00260	0.00219
3604627.72	0.01481	0.01053	0.00798	0.00604	0.00477	0.00402	0.00341	0.00282	0.00235
3604527.72	0.02166	0.01356	0.00974	0.00739	0.00558	0.00465	0.00377	0.00308	0.00254
3604427.72	0.03395	0.01948	0.01245	0.00893	0.00675	0.00531	0.00427	0.00344	0.00274
3604327.72	0.01935	0.03763	0.01721	0.01123	0.00804	0.00621	0.00494	0.00393	0.00303
3604227.72	0.01367	0.02188	0.02986	0.01481	0.00985	0.00721	0.00551	0.00430	0.00337

*** AERMOD - VERSION 16216r *** C:\AERMOD\8575\Bella Mar I-5\Bella Mar I-5.isc *** 05/30/19
 *** AERMET - VERSION 15181 *** *** 10:49:15

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*** MODELOPTs: RegDFAULT CONC ELEV RURAL

*** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 3 YEARS FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . .

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3

**

Y-COORD (METERS)	X-COORD (METERS)								
	492180.87	492280.87	492380.87	492480.87	492580.87	492680.87	492780.87	492880.87	492980.87

3604127.72	0.01064	0.01473	0.02745	0.02164	0.01241	0.00850	0.00625	0.00469	0.00361
3604027.72	0.00858	0.01122	0.01670	0.02940	0.01655	0.01023	0.00709	0.00517	0.00373
3603927.72	0.00699	0.00883	0.01206	0.02009	0.02699	0.01268	0.00801	0.00550	0.00354
3603827.72	0.00577	0.00705	0.00910	0.01306	0.02667	0.01728	0.00899	0.00535	0.00306
3603727.72	0.00476	0.00563	0.00694	0.00886	0.01356	0.02668	0.00920	0.00411	0.00233
3603627.72	0.00317	0.00334	0.00387	0.00480	0.00584	0.00864	0.00524	0.00247	0.00161
3603527.72	0.00289	0.00297	0.00317	0.00337	0.00343	0.00358	0.00252	0.00165	0.00138

3603427.72 | 0.00264 0.00283 0.00290 0.00306 0.00304 0.00282 0.00237 0.00183 0.00153
 3603327.72 | 0.00241 0.00254 0.00264 0.00268 0.00270 0.00252 0.00223 0.00190 0.00156
 3603227.72 | 0.00221 0.00231 0.00237 0.00240 0.00234 0.00221 0.00202 0.00185 0.00158
 *** AERMOD - VERSION 16216r *** C:\AERMOD\8575\Bella Mar I-5\Bella Mar I-5.isc *** 05/30/19
 *** AERMET - VERSION 15181 *** *** 10:49:15

*** MODELOPTs: RegDFAULT CONC ELEV RURAL

*** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 3 YEARS FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_{2.5} IN MICROGRAMS/M³ **

Y-COORD (METERS)	X-COORD (METERS)								
	493080.87	493180.87	493280.87	493380.87	493480.87	493580.87	493680.87	493780.87	493880.87

3608127.72	0.00053	0.00049	0.00045	0.00044	0.00042	0.00040	0.00035	0.00032	0.00030
3608027.72	0.00054	0.00051	0.00047	0.00046	0.00044	0.00041	0.00038	0.00033	0.00030
3607927.72	0.00055	0.00053	0.00049	0.00048	0.00046	0.00043	0.00039	0.00035	0.00030
3607827.72	0.00058	0.00055	0.00052	0.00050	0.00047	0.00044	0.00042	0.00037	0.00032
3607727.72	0.00062	0.00058	0.00054	0.00052	0.00049	0.00046	0.00045	0.00040	0.00035
3607627.72	0.00066	0.00061	0.00056	0.00055	0.00052	0.00049	0.00046	0.00042	0.00038
3607527.72	0.00071	0.00063	0.00060	0.00057	0.00054	0.00052	0.00048	0.00044	0.00040
3607427.72	0.00077	0.00069	0.00063	0.00059	0.00058	0.00054	0.00052	0.00047	0.00043
3607327.72	0.00086	0.00074	0.00066	0.00063	0.00060	0.00056	0.00054	0.00049	0.00045
3607227.72	0.00092	0.00080	0.00073	0.00066	0.00062	0.00061	0.00056	0.00051	0.00046
3607127.72	0.00099	0.00089	0.00076	0.00068	0.00064	0.00063	0.00057	0.00052	0.00048
3607027.72	0.00110	0.00094	0.00083	0.00072	0.00068	0.00065	0.00063	0.00057	0.00052
3606927.72	0.00121	0.00103	0.00087	0.00078	0.00070	0.00067	0.00064	0.00059	0.00054
3606827.72	0.00133	0.00114	0.00097	0.00084	0.00075	0.00070	0.00067	0.00061	0.00058
3606727.72	0.00146	0.00127	0.00110	0.00093	0.00081	0.00075	0.00070	0.00066	0.00061
3606627.72	0.00164	0.00142	0.00124	0.00106	0.00092	0.00080	0.00074	0.00068	0.00065
3606527.72	0.00183	0.00161	0.00141	0.00122	0.00107	0.00093	0.00081	0.00073	0.00070
3606427.72	0.00197	0.00177	0.00158	0.00141	0.00125	0.00109	0.00096	0.00084	0.00077
3606327.72	0.00208	0.00188	0.00174	0.00158	0.00141	0.00126	0.00114	0.00100	0.00091
3606227.72	0.00219	0.00201	0.00185	0.00169	0.00154	0.00140	0.00128	0.00116	0.00107
3606127.72	0.00228	0.00210	0.00193	0.00177	0.00162	0.00151	0.00139	0.00128	0.00118
3606027.72	0.00235	0.00217	0.00200	0.00186	0.00172	0.00158	0.00149	0.00137	0.00127
3605927.72	0.00238	0.00220	0.00203	0.00190	0.00177	0.00165	0.00155	0.00145	0.00136
3605827.72	0.00235	0.00215	0.00201	0.00186	0.00173	0.00163	0.00153	0.00143	0.00135
3605727.72	0.00227	0.00209	0.00195	0.00182	0.00169	0.00159	0.00150	0.00141	0.00132
3605627.72	0.00214	0.00200	0.00183	0.00172	0.00162	0.00154	0.00145	0.00138	0.00128
3605527.72	0.00199	0.00185	0.00174	0.00164	0.00155	0.00147	0.00140	0.00133	0.00125
3605427.72	0.00181	0.00173	0.00164	0.00158	0.00150	0.00142	0.00137	0.00130	0.00121
3605327.72	0.00158	0.00151	0.00144	0.00142	0.00133	0.00130	0.00124	0.00119	0.00112
3605227.72	0.00141	0.00128	0.00118	0.00113	0.00104	0.00102	0.00099	0.00095	0.00091
3605127.72	0.00139	0.00122	0.00102	0.00091	0.00082	0.00078	0.00074	0.00070	0.00067
3605027.72	0.00145	0.00126	0.00101	0.00088	0.00075	0.00066	0.00059	0.00052	0.00051
3604927.72	0.00163	0.00133	0.00113	0.00092	0.00080	0.00066	0.00057	0.00048	0.00044
3604827.72	0.00175	0.00149	0.00120	0.00104	0.00086	0.00073	0.00063	0.00053	0.00045
3604727.72	0.00187	0.00159	0.00126	0.00108	0.00094	0.00076	0.00066	0.00056	0.00048
3604627.72	0.00199	0.00168	0.00141	0.00113	0.00097	0.00079	0.00068	0.00058	0.00049
3604527.72	0.00212	0.00178	0.00149	0.00118	0.00101	0.00081	0.00070	0.00059	0.00050
3604427.72	0.00227	0.00188	0.00154	0.00123	0.00104	0.00084	0.00071	0.00060	0.00050
3604327.72	0.00242	0.00195	0.00153	0.00125	0.00100	0.00084	0.00069	0.00059	0.00049
3604227.72	0.00258	0.00198	0.00154	0.00122	0.00097	0.00079	0.00068	0.00056	0.00047

*** AERMOD - VERSION 16216r *** C:\AERMOD\8575\Bella Mar I-5\Bella Mar I-5.isc *** 05/30/19
 *** AERMET - VERSION 15181 *** *** 10:49:15

*** MODELOPTs: RegDFAULT CONC ELEV RURAL

*** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 3 YEARS FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	493080.87	493180.87	493280.87	493380.87	493480.87	493580.87	493680.87	493780.87	493880.87
3604127.72	0.00269	0.00199	0.00147	0.00115	0.00092	0.00074	0.00063	0.00052	0.00044
3604027.72	0.00266	0.00191	0.00133	0.00103	0.00081	0.00068	0.00058	0.00049	0.00042
3603927.72	0.00243	0.00169	0.00118	0.00089	0.00073	0.00061	0.00052	0.00045	0.00039
3603827.72	0.00190	0.00137	0.00104	0.00078	0.00065	0.00054	0.00047	0.00042	0.00037
3603727.72	0.00152	0.00114	0.00090	0.00072	0.00060	0.00051	0.00044	0.00041	0.00037
3603627.72	0.00110	0.00093	0.00076	0.00063	0.00055	0.00049	0.00046	0.00044	0.00042
3603527.72	0.00106	0.00092	0.00077	0.00066	0.00063	0.00055	0.00052	0.00050	0.00045
3603427.72	0.00118	0.00103	0.00087	0.00075	0.00067	0.00062	0.00059	0.00055	0.00050
3603327.72	0.00132	0.00107	0.00096	0.00083	0.00075	0.00069	0.00066	0.00061	0.00056
3603227.72	0.00138	0.00116	0.00100	0.00092	0.00083	0.00076	0.00071	0.00065	0.00062

*** AERMOD - VERSION 16216r *** C:\AERMOD\8575\Bella Mar I-5\Bella Mar I-5.isc *** 05/30/19
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL

*** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 3 YEARS FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , ... ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	493980.87	494080.87	494180.87	494280.87	494380.87
3608127.72	0.00026	0.00023	0.00020	0.00018	0.00015
3608027.72	0.00026	0.00023	0.00020	0.00018	0.00016
3607927.72	0.00027	0.00024	0.00021	0.00019	0.00016
3607827.72	0.00028	0.00025	0.00022	0.00020	0.00017
3607727.72	0.00030	0.00027	0.00024	0.00021	0.00019
3607627.72	0.00033	0.00030	0.00026	0.00023	0.00021
3607527.72	0.00036	0.00033	0.00030	0.00027	0.00024
3607427.72	0.00040	0.00036	0.00033	0.00030	0.00028
3607327.72	0.00041	0.00038	0.00035	0.00032	0.00029
3607227.72	0.00042	0.00039	0.00038	0.00035	0.00032
3607127.72	0.00046	0.00042	0.00039	0.00036	0.00035
3607027.72	0.00047	0.00044	0.00041	0.00039	0.00036
3606927.72	0.00049	0.00047	0.00043	0.00042	0.00039
3606827.72	0.00054	0.00050	0.00047	0.00046	0.00042
3606727.72	0.00058	0.00054	0.00051	0.00050	0.00046
3606627.72	0.00061	0.00058	0.00055	0.00054	0.00051
3606527.72	0.00066	0.00063	0.00060	0.00058	0.00057
3606427.72	0.00072	0.00069	0.00065	0.00063	0.00061
3606327.72	0.00083	0.00077	0.00072	0.00070	0.00067
3606227.72	0.00097	0.00089	0.00084	0.00081	0.00075
3606127.72	0.00108	0.00102	0.00094	0.00090	0.00083
3606027.72	0.00120	0.00111	0.00104	0.00098	0.00093
3605927.72	0.00127	0.00120	0.00111	0.00105	0.00099
3605827.72	0.00128	0.00120	0.00114	0.00108	0.00103
3605727.72	0.00125	0.00118	0.00111	0.00105	0.00100
3605627.72	0.00121	0.00115	0.00109	0.00103	0.00098
3605527.72	0.00119	0.00112	0.00106	0.00101	0.00096
3605427.72	0.00115	0.00109	0.00103	0.00098	0.00095
3605327.72	0.00104	0.00097	0.00090	0.00086	0.00084
3605227.72	0.00082	0.00075	0.00070	0.00066	0.00062
3605127.72	0.00061	0.00057	0.00052	0.00050	0.00046
3605027.72	0.00046	0.00043	0.00039	0.00036	0.00033
3604927.72	0.00037	0.00034	0.00030	0.00027	0.00023
3604827.72	0.00039	0.00034	0.00031	0.00026	0.00022

3604727.72 | 0.00040 0.00036 0.00033 0.00027 0.00024
3604627.72 | 0.00044 0.00037 0.00034 0.00028 0.00025
3604527.72 | 0.00044 0.00038 0.00034 0.00028 0.00025
3604427.72 | 0.00042 0.00038 0.00034 0.00028 0.00025
3604327.72 | 0.00042 0.00037 0.00033 0.00028 0.00025
3604227.72 | 0.00040 0.00036 0.00032 0.00027 0.00024

*** AERMOD - VERSION 16216r *** C:\AERMOD\8575\Bella Mar I-5\Bella Mar I-5.isc *** 05/30/19
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL

*** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 3 YEARS FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_{2.5} IN MICROGRAMS/M³ **

Y-COORD | X-COORD (METERS)
(METERS) | 493980.87 494080.87 494180.87 494280.87 494380.87

3604127.72 | 0.00038 0.00034 0.00030 0.00026 0.00023
3604027.72 | 0.00037 0.00032 0.00029 0.00025 0.00023
3603927.72 | 0.00036 0.00032 0.00028 0.00026 0.00023
3603827.72 | 0.00033 0.00034 0.00031 0.00027 0.00024
3603727.72 | 0.00035 0.00036 0.00035 0.00030 0.00027
3603627.72 | 0.00038 0.00040 0.00039 0.00034 0.00030
3603527.72 | 0.00043 0.00044 0.00043 0.00041 0.00037
3603427.72 | 0.00049 0.00050 0.00048 0.00047 0.00042
3603327.72 | 0.00054 0.00057 0.00055 0.00051 0.00049
3603227.72 | 0.00060 0.00061 0.00058 0.00056 0.00054

*** AERMOD - VERSION 16216r *** C:\AERMOD\8575\Bella Mar I-5\Bella Mar I-5.isc *** 05/30/19
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL

*** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 3 YEARS FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_{2.5} IN MICROGRAMS/M³ **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
491839.61	3605602.09	0.01941	491838.13	3605624.25	0.01929
491833.21	3605657.23	0.01943	491823.85	3605670.03	0.02043
491821.88	3605686.28	0.02044	491819.42	3605703.02	0.02051
491852.90	3605715.33	0.01676	491874.56	3605716.31	0.01513
491893.76	3605716.31	0.01398	491943.00	3605720.74	0.01171
492003.55	3605721.23	0.00981	492061.15	3605721.73	0.00853
492094.63	3605666.09	0.00803	492076.91	3605608.98	0.00844
492041.46	3605598.64	0.00922	492006.01	3605598.15	0.01011
491975.00	3605598.64	0.01105	491941.52	3605599.14	0.01229
491911.00	3605608.49	0.01369	491865.70	3605588.80	0.01689
491864.22	3605680.86	0.01618	492022.25	3605672.99	0.00948

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*** MODELOPTs: RegDFAULT CONC ELEV RURAL

*** THE SUMMARY OF MAXIMUM ANNUAL RESULTS AVERAGED OVER 3 YEARS ***

** CONC OF PM_{2.5} IN MICROGRAMS/M³ **

NETWORK

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

ALL 1ST HIGHEST VALUE IS 0.03985 AT (491780.87, 3605527.72, 6.90, 6.90, 0.00) GC UCART1
 2ND HIGHEST VALUE IS 0.03958 AT (491680.87, 3606327.72, 4.00, 4.00, 0.00) GC UCART1
 3RD HIGHEST VALUE IS 0.03897 AT (491580.87, 3607027.72, 4.00, 4.00, 0.00) GC UCART1
 4TH HIGHEST VALUE IS 0.03817 AT (491880.87, 3604827.72, 12.40, 12.40, 0.00) GC UCART1
 5TH HIGHEST VALUE IS 0.03763 AT (492280.87, 3604327.72, 18.60, 18.60, 0.00) GC UCART1
 6TH HIGHEST VALUE IS 0.03608 AT (491780.87, 3605127.72, 10.60, 10.60, 0.00) GC UCART1
 7TH HIGHEST VALUE IS 0.03565 AT (491680.87, 3606127.72, 3.60, 3.60, 0.00) GC UCART1
 8TH HIGHEST VALUE IS 0.03548 AT (491780.87, 3605327.72, 8.50, 8.50, 0.00) GC UCART1
 9TH HIGHEST VALUE IS 0.03546 AT (492080.87, 3604527.72, 15.80, 15.80, 0.00) GC UCART1
 10TH HIGHEST VALUE IS 0.03532 AT (491580.87, 3607127.72, 4.00, 4.00, 0.00) GC UCART1

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

*** AERMOD - VERSION 16216r *** C:\AERMOD\8575\Bella Mar I-5\Bella Mar I-5.isc *** 05/30/19
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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

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

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

A Total of 0 Fatal Error Message(s)
 A Total of 36 Warning Message(s)
 A Total of 895 Informational Message(s)

A Total of 26304 Hours Were Processed

A Total of 421 Calm Hours Identified

A Total of 474 Missing Hours Identified (1.80 Percent)

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

***** WARNING MESSAGES *****

MX W441 14167 METQA: Vert Pot Temp Grad abv ZI set to min .005, KURDAT= 11081407
 MX W441 14168 METQA: Vert Pot Temp Grad abv ZI set to min .005, KURDAT= 11081408
 MX W441 14169 METQA: Vert Pot Temp Grad abv ZI set to min .005, KURDAT= 11081409
 MX W441 14170 METQA: Vert Pot Temp Grad abv ZI set to min .005, KURDAT= 11081410
 MX W441 14171 METQA: Vert Pot Temp Grad abv ZI set to min .005, KURDAT= 11081411
 MX W441 14172 METQA: Vert Pot Temp Grad abv ZI set to min .005, KURDAT= 11081412
 MX W441 14173 METQA: Vert Pot Temp Grad abv ZI set to min .005, KURDAT= 11081413
 MX W441 14174 METQA: Vert Pot Temp Grad abv ZI set to min .005, KURDAT= 11081414
 MX W441 14175 METQA: Vert Pot Temp Grad abv ZI set to min .005, KURDAT= 11081415
 MX W441 14176 METQA: Vert Pot Temp Grad abv ZI set to min .005, KURDAT= 11081416
 MX W441 14177 METQA: Vert Pot Temp Grad abv ZI set to min .005, KURDAT= 11081417
 MX W441 14178 METQA: Vert Pot Temp Grad abv ZI set to min .005, KURDAT= 11081418
 MX W441 14191 METQA: Vert Pot Temp Grad abv ZI set to min .005, KURDAT= 11081507
 MX W441 14192 METQA: Vert Pot Temp Grad abv ZI set to min .005, KURDAT= 11081508
 MX W441 14193 METQA: Vert Pot Temp Grad abv ZI set to min .005, KURDAT= 11081509
 MX W441 14194 METQA: Vert Pot Temp Grad abv ZI set to min .005, KURDAT= 11081510
 MX W441 14195 METQA: Vert Pot Temp Grad abv ZI set to min .005, KURDAT= 11081511
 MX W441 14196 METQA: Vert Pot Temp Grad abv ZI set to min .005, KURDAT= 11081512
 MX W441 14197 METQA: Vert Pot Temp Grad abv ZI set to min .005, KURDAT= 11081513
 MX W441 14198 METQA: Vert Pot Temp Grad abv ZI set to min .005, KURDAT= 11081514
 MX W441 14199 METQA: Vert Pot Temp Grad abv ZI set to min .005, KURDAT= 11081515
 MX W441 14200 METQA: Vert Pot Temp Grad abv ZI set to min .005, KURDAT= 11081516
 MX W441 14201 METQA: Vert Pot Temp Grad abv ZI set to min .005, KURDAT= 11081517
 MX W441 14202 METQA: Vert Pot Temp Grad abv ZI set to min .005, KURDAT= 11081518
 MX W441 14215 METQA: Vert Pot Temp Grad abv ZI set to min .005, KURDAT= 11081607
 MX W441 14216 METQA: Vert Pot Temp Grad abv ZI set to min .005, KURDAT= 11081608

MX W441	14217	METQA: Vert Pot Temp Grad abv ZI set to min .005, KURDAT=	11081609
MX W441	14218	METQA: Vert Pot Temp Grad abv ZI set to min .005, KURDAT=	11081610
MX W441	14219	METQA: Vert Pot Temp Grad abv ZI set to min .005, KURDAT=	11081611
MX W441	14220	METQA: Vert Pot Temp Grad abv ZI set to min .005, KURDAT=	11081612
MX W441	14221	METQA: Vert Pot Temp Grad abv ZI set to min .005, KURDAT=	11081613
MX W441	14222	METQA: Vert Pot Temp Grad abv ZI set to min .005, KURDAT=	11081614
MX W441	14223	METQA: Vert Pot Temp Grad abv ZI set to min .005, KURDAT=	11081615
MX W441	14224	METQA: Vert Pot Temp Grad abv ZI set to min .005, KURDAT=	11081616
MX W441	14225	METQA: Vert Pot Temp Grad abv ZI set to min .005, KURDAT=	11081617
MX W441	14226	METQA: Vert Pot Temp Grad abv ZI set to min .005, KURDAT=	11081618

*** AERMOD Finishes Successfully ***
