

APPENDIX C

AIR QUALITY AND NOISE IMPACT REPORT



ELYSIAN RESERVOIR PROJECT AIR QUALITY AND NOISE IMPACT REPORT



Prepared for

AECOM

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FEBRUARY 2011
taha 2008-056

ELYSIAN RESERVOIR PROJECT

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Prepared for

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February 7, 2011

TABLE OF CONTENTS

| | <u>Page No.</u> |
|---|-----------------|
| 1.0 SUMMARY OF FINDINGS | 1 |
| 1.1 Air Quality | 1 |
| 1.2 Noise | 1 |
| 2.0 INTRODUCTION..... | 3 |
| 2.1 Purpose of Report | 3 |
| 2.2 Project Description | 3 |
| 3.0 AIR QUALITY | 7 |
| 3.1 Pollutants & Effects | 7 |
| 3.2 Regulatory Setting | 9 |
| 3.3 Existing Air Quality | 18 |
| 3.4 Methodology and Significance Criteria | 23 |
| 3.5 Environmental Impacts | 30 |
| 3.6 Cumulative Impacts | 44 |
| 4.0 NOISE AND VIBRATION | 47 |
| 4.1 Noise Characteristics & Effects | 47 |
| 4.2 Existing Setting..... | 51 |
| 4.3 Methodology and Significance Criteria | 54 |
| 4.4 Environmental Impacts | 55 |
| 4.5 Cumulative Impacts | 61 |

APPENDICES

| | |
|------------|---|
| Appendix A | Wind & Climate Information |
| Appendix B | Ambient Air Data |
| Appendix C | Regional Construction Emissions |
| Appendix D | Localized Construction Modeling |
| Appendix E | Health Risk Assessment Dispersion Model |
| Appendix F | Regional Operational Emissions |
| Appendix G | SCAQMD Rule 403 - Fugitive Dust |
| Appendix H | Noise Calculations |

LIST OF TABLES

| | | |
|-----------|--|----|
| Table 3-1 | State and National Ambient Air Quality Standards and Attainment Status for the South Coast Air Basin | 11 |
| Table 3-2 | 2007-2009 Ambient Air Quality Data in the Project Vicinity..... | 21 |
| Table 3-3 | Average Emissions and 2020 Projection Emissions | 22 |
| Table 3-4 | SCAQMD Daily Construction Emissions Thresholds | 28 |
| Table 3-5 | SCAQMD Daily Operational Emissions Thresholds | 29 |
| Table 3-6 | Alternative 1 (Buried Concrete Cover) Estimated Daily Construction Emissions - Unmitigated..... | 31 |
| Table 3-7 | Alternative 2 (Floating Cover) Estimated Daily Construction Emissions - Unmitigated..... | 32 |
| Table 3-8 | Alternative 3 (Aluminum Cover) Estimated Daily Construction Emissions - Unmitigated..... | 33 |
| Table 3-9 | Localized Construction Emissions - Unmitigated | 34 |

LIST OF TABLES (Cont.)

| | | |
|------------|--|----|
| Table 3-10 | Alternative 1 (Buried Concrete Cover) Estimated Daily Construction Emissions - Mitigated | 39 |
| Table 3-11 | Alternative 2 (Floating Cover) Estimated Daily Construction Emissions - Mitigated..... | 40 |
| Table 3-12 | Alternative 3 (Aluminum Cover) Estimated Daily Construction Emissions - Mitigated..... | 41 |
| Table 3-13 | Localized Construction Emissions - Mitigated..... | 41 |
| Table 3-14 | Alternative 1 (Buried Concrete Cover) Estimated Daily Operations Emissions... | 42 |
| Table 3-15 | Estimated Annual Greenhouse Gas Emissions – Alternative 1 (Buried Concrete Cover) | 45 |
| Table 3-16 | Estimated Annual Greenhouse Gas Emissions – Alternative 2 (Floating Cover) | 46 |
| Table 3-17 | Estimated Annual Greenhouse Gas Emissions – Alternative 3 (Aluminum Cover) | 46 |
| Table 4-1 | Existing Noise Levels | 51 |
| Table 4-2 | Existing Estimated Mobile Source Noise Levels | 54 |
| Table 4-3 | Maximum Noise Levels of Common Construction Machines | 55 |
| Table 4-4 | Typical Outdoor Construction Noise Levels | 56 |
| Table 4-5 | Construction Noise Levels..... | 56 |
| Table 4-6 | Off-Site Construction Haul Truck Noise Levels | 57 |
| Table 4-7 | Mitigated Construction Noise Levels | 58 |
| Table 4-8 | Operational Mobile Source Noise Levels | 59 |
| Table 4-9 | Vibration Velocities for Construction Equipment | 61 |
| Table 4-10 | Estimated Cumulative Mobile Source Noise Levels | 62 |

LIST OF FIGURES

| | | |
|------------|-------------------------------------|----|
| Figure 3-1 | South Coast Air Basin | 13 |
| Figure 3-2 | Air Monitoring Locations..... | 20 |
| Figure 3-3 | Air Quality Receptor Locations..... | 24 |
| Figure 4-1 | A-Weighted Decibel Scale..... | 48 |
| Figure 4-2 | Noise Monitoring Locations | 53 |

1.0 SUMMARY OF FINDINGS

Terry A. Hayes Associates Inc. has completed an air quality and noise impact analysis for the proposed Elysian Reservoir Water Quality Improvement Project. Key findings are listed below.

1.1 AIR QUALITY

- Regional construction emissions would result in significant and unavoidable nitrogen oxides (NO_x) impacts for each alternative. Mitigation Measures **AQ1** through **AQ14** are recommended to reduce emissions.
- Localized construction emissions would result in significant and unavoidable particulate matter impacts for each alternative. Mitigation Measures **AQ1** through **AQ14** are recommended to reduce emissions.
- Construction toxic air contaminant emissions would result in significant and unavoidable impacts under Alternatives 1 and 3. Mitigation Measures **AQ11** through **AQ14** are recommended to reduce emissions.
- Regional operational emissions would result in a less-than-significant impact and no mitigation is required.
- Localized operational emissions (off-site carbon monoxide concentrations) would result in a less-than-significant impact and no mitigation is required.
- Operational toxic air contaminant emissions would result in a less-than-significant impact and no mitigation measure is required.
- Odors would result in a less-than-significant impact and no mitigation measure is required.
- The alternatives would be consistent with the South Coast Air Quality Management District's 2007 Air Quality Management Plan and would result in a less-than-significant impact and no mitigation measure is required.
- Cumulative construction air quality emissions would result in a regionally significant and unavoidable impact as a result of NO_x.
- Cumulative operational air quality emissions would result in a less-than-significant impact and no mitigation measure is required.
- The alternatives would not exceed 10,000 metric tons of carbon dioxide equivalents (CO₂e) per year, and would result in a less-than-significant global climate change impact.

1.2 NOISE AND VIBRATION

- General construction noise would result in a less-than-significant impact under the proposed project and the alternatives.

- Off-site haul truck noise would result in a significant and unavoidable impact under the Buried Concrete and Aluminum Cover Alternatives.
- Operational activity would result in a less-than-significant impact and no mitigation measure is required.
- Construction and operational vibration impacts would result in a less-than-significant impact and no mitigation measures are required.
- Cumulative noise would result in a less-than-significant noise or vibration impact and no mitigation measures are required.

2.0 INTRODUCTION

2.1 PURPOSE

The purpose of this report is to evaluate the potential for air quality and noise impacts of the Elysian Reservoir Water Quality Improvement Project (proposed project). Potential air quality emissions and noise levels are analyzed for construction and operational activities. Mitigation measures for potentially significant impacts are recommended when appropriate to reduce air quality emissions and noise and vibration levels.

2.2 PROJECT DESCRIPTION

Elysian Reservoir is located approximately 1.5 miles north of Downtown Los Angeles. The property is owned by the City of Los Angeles and operated and maintained by the Los Angeles Department of Water and Power (LADWP). It is mostly surrounded by Elysian Park, which is operated and maintained by Los Angeles Department of Recreation and Parks (LADRP). The Reservoir itself lies northwest of and immediately adjacent to the Pasadena Freeway (SR-110), between Dodger Stadium to the southwest and the Golden State Freeway (Interstate I-5) to the northeast. Elysian Reservoir is accessed from Grand View Drive, located within the interior of Elysian Park.

The existing Elysian Reservoir has a storage capacity of approximately 55 million gallons (MG). It has a maximum depth of 50 feet, a high water elevation of 462 feet, and a surface area of approximately six acres at the high-water elevation. The Reservoir is approximately 900 feet long and approximately 400 feet wide at the maximum width near the dam at the southern end, tapering to approximately 170 feet wide near the inlet at the northern end. An approximately 12- to 16-foot wide paved road is located around the perimeter of the Reservoir. The remainder of the surrounding 12-acre Reservoir property is vegetated. A 15-foot diameter outlet tower is located in the southwest corner of the Reservoir, projecting to a height approximately 20 feet above the water surface. The tower is connected to the perimeter road by an approximately 160-foot long footbridge.

The proposed project and project alternatives are designed to replace and provide a cover to the Elysian Reservoir. The proposed project, the Buried Concrete Cover, would provide a concrete cover for the Reservoir. The Floating Cover Alternative would cover the Reservoir with a flexible membrane. The Aluminum Cover Alternative would cover the Reservoir with aluminum.

Alternative 1 – Buried Concrete Cover

Under the proposed project, the open-surface Elysian Reservoir would be replaced with a new buried concrete-covered Reservoir. Other than manholes, hatches providing access to the interior of the buried Reservoir, aboveground vent structures, and aboveground electrical cabinets, water storage and transmission facilities would be concealed underground after completion of construction. However, a paved road would still be required around the perimeter of the buried Reservoir to provide vehicular access for maintenance and operations.

Certain constraints prevent the direct placement of a concrete roof over the existing Elysian Reservoir, which was constructed nearly 70 years ago. These constraints include the limited bearing capacity of the existing Reservoir (i.e., the inability of the current Reservoir and the sub-grade upon which it rests to support the load of the concrete roof system and the soil cover

placed over the roof); dam integrity and safety that could be compromised by penetrating the upstream side of the existing earth dam with numerous columns required to support the concrete roof; and the existing outlet structure, that includes a tower that extends above the high-water line of the Reservoir, preventing the installation of a cover. Therefore, to implement the proposed project, the existing Reservoir, including the inlet structure, outlet tower, and liner (the Reservoir bottom and sides), would need to be demolished; the sub-grade beneath the Reservoir would need to be stabilized to provide an adequate base to structurally support the buried Reservoir; and a new perimeter concrete retaining wall would be required to support the concrete roof. The south segment of the new retaining wall would be located upstream of, but functionally integrated with, the existing earth dam, which would remain in place. The buried Reservoir would also require an impermeable liner and an extensive system of interior shear walls and columns to adequately support the roof and soil cover.

The final footprint of the buried Reservoir would be slightly smaller than and contained within the footprint of the existing Reservoir, but because the side slopes and bottom would be reshaped to accommodate the required sub-grade drainage system, the total storage volume of the buried Reservoir would remain approximately the same as the existing Reservoir (55 MG).

The proposed buried Reservoir would be covered with a maximum of three feet of topsoil, and the property would be developed in accordance with a recreation plan prepared by LADRP. This development plan may provide for a range of passive or active recreation uses, but for the purposes of impact analysis, the recreation facilities include up to three soccer fields; a skate plaza; playground; perimeter walking/jogging path with exercise stations; recreation building(s) housing restrooms, concession areas, offices, and equipment storage areas; and a maintenance storage yard; and the associated parking area. These elements would involve six to eight acres and would be contained within the existing Reservoir property. Hard-surface roads to provide access for heavy equipment to the Reservoir for maintenance and operations purposes would also need to be provided. A shallow, not less than 0.5-acre wildlife pond would also be constructed at the north end of the Elysian Reservoir property.

In addition to the Reservoir elements and the recreation improvements above the Reservoir, a new 54-inch diameter underground inlet line, connecting the buried Reservoir to the existing Riverside Trunk Line adjacent to Riverside Drive, would be constructed to replace the existing 67-year-old 36-inch inlet line. Similar to the existing line, the new bypass line would provide the capability to divert water from upstream supply lines around the Reservoir. However, in addition to replacing an aging supply line, the new bypass line would provide greater capacity and would be located to the west of the Reservoir, which would not only allow for unimpeded water supply operations during the Reservoir construction, but would also provide greater accessibility to the line after construction is completed. This new inlet line would provide improved distribution system capability that would otherwise be limited based on the diameter of the existing inlet line. The primary site for the inlet line construction would be located within the Caltrans island adjacent to the on-ramp to the northbound I-5, along the west side of Riverside Drive, roughly between Barclay and Duvall Streets. Construction of the new inlet line would proceed essentially independently of construction of the Reservoir itself (which includes the new bypass line), occurring concurrently with the first two years of the Reservoir construction.

Alternative 2 – Floating Cover

Under the Floating Cover Alternative, Elysian Reservoir would basically remain in its existing configuration, and an approximately 305,000-square-foot flexible membrane floating cover would be installed over the entire water surface and anchored to the edge of the Reservoir

basin above the top of water elevation. The floating cover would be larger in area than the Reservoir itself at the high-water elevation to allow the cover to float on the water surface as the level of the water in the Reservoir rises and falls. The cover would be a minimum of 45-mil thick and a maximum of 60 mil thick polypropylene or hypalon material. Although the Reservoir liner and appurtenant facilities would be removed and replaced under this alternative, the Reservoir would retain essentially its existing shape and volume (approximately 55 MG), providing local storage capacity for the Reservoir service area equivalent to the Buried Concrete Cover.

The floating cover would require a minimal amount of ground disturbance and a relatively low level of construction activity. Floating covers require more maintenance, including replacement every 15 to 20 years due to deterioration, compared to a buried concrete Reservoir which has a projected lifespan of over 100 years. The floating cover alternative would require that the Reservoir be removed from service for the least amount of time compared to the proposed project (approximately 2.5 years versus 5.5 years).

Because the floating cover would not allow for accessible open space at the Reservoir property, no recreational facilities would be provided under this alternative, and the Elysian Reservoir property would remain under the operation of LADWP and closed to public access. As with the proposed project, a wildlife pond would be created at the north end of the Reservoir property as part of the floating cover alternative.

Similar to the proposed project, the floating cover alternative at Elysian Reservoir would include the construction of a new 54-inch diameter underground inlet line connecting the Reservoir to the existing Riverside Trunk Line adjacent to Riverside Drive. This new inlet line would replace the existing 67-year-old 36-inch inlet line and would provide improved distribution system capability, which would otherwise be limited based on the diameter of the existing inlet line. The primary site for the inlet line construction would be located within the Caltrans island adjacent to the on-ramp to the northbound I-5, along the west side of Riverside Drive. Construction of the new inlet line could proceed independently of construction at the Reservoir itself (which includes the new bypass line) because the two construction sites are physically separated. The inlet line construction would be concurrent with the floating cover construction.

Alternative 3 – Aluminum Cover

Under the Aluminum Cover Alternative, Elysian Reservoir would basically remain in its existing configuration, and a lightweight aluminum cover would be installed over the entire surface of the Reservoir. Although the Reservoir liner and appurtenant facilities would be removed and replaced under this alternative, the Reservoir would retain essentially its existing shape and volume (approximately 55 MG minus an insignificant volume lost to the roof support columns), providing local storage capacity for the Reservoir service area essentially equivalent to the proposed project.

The aluminum cover would create less ground disturbance and require less construction activity than the proposed project (approximately 4 years compared to 5.5 years for the proposed project). The aluminum cover would be less durable than the buried concrete cover, but still require relatively little maintenance or replacement of components.

Because the aluminum cover would not allow for accessible open space at the Reservoir property, no recreational facilities would be provided under this alternative, and the Elysian Reservoir property would remain under the operation of LADWP and closed to public access.

As with the proposed project, a wildlife pond would be created at the north end of the Reservoir property as part of the aluminum cover alternative.

Similar to the proposed project, the aluminum cover alternative at Elysian Reservoir would also include the construction of a new 54-inch diameter underground inlet line connecting the Reservoir to the existing Riverside Trunk Line adjacent to Riverside Drive. This new inlet line would replace the existing 67-year-old 36-inch inlet line and would provide improved distribution system capability, which would otherwise be limited based on the diameter of the existing inlet line. The primary site for the inlet line construction would be located within the Caltrans island adjacent to the on-ramp to the northbound I-5, along the west side of Riverside Drive, roughly between Barclay Street and Duvall Street. Construction of the new inlet line could proceed essentially independently of construction at the Reservoir itself (which includes the new bypass line) because the two construction sites are physically separated. The inlet line construction would be concurrent with the first two years of the aluminum cover construction.

3.0 AIR QUALITY

This section examines the degree to which the proposed project and alternatives may cause significant adverse changes to air quality. Both short-term construction emissions occurring from activities, such as excavation and haul truck trips, and long-term effects related to the ongoing operation of the alternatives are discussed in this section. This analysis focuses on air pollution from two perspectives: daily emissions and pollutant concentrations. “Emissions” refer to the quantity of pollutants released into the air, measured in pounds per day (ppd). “Concentrations” refer to the amount of pollutant material per volumetric unit of air, measured in parts per million (ppm) or micrograms per cubic meter ($\mu\text{g}/\text{m}^3$).

3.1 POLLUTANTS & EFFECTS

Criteria air pollutants are defined as pollutants for which the federal and State governments have established ambient air quality standards for outdoor concentrations to protect public health. The federal and State standards have been set at levels above which concentrations could be harmful to human health and welfare. These standards are designed to protect the most sensitive persons from illness or discomfort. Pollutants of concern include carbon monoxide (CO), ozone (O_3), nitrogen dioxide (NO_2), sulfur dioxide (SO_2), particulate matter 2.5 microns or less in diameter ($\text{PM}_{2.5}$), particulate matter ten microns or less in diameter (PM_{10}), and lead (Pb). These pollutants are discussed below.

Carbon Monoxide. CO is a colorless and odorless gas formed by the incomplete combustion of fossil fuels. CO is emitted almost exclusively from motor vehicles, power plants, refineries, industrial boilers, ships, aircraft, and trains. In urban areas such as the project location, automobile exhaust accounts for the majority of CO emissions. CO is a non-reactive air pollutant that dissipates relatively quickly, so ambient CO concentrations generally follow the spatial and temporal distributions of vehicular traffic. CO concentrations are influenced by local meteorological conditions, primarily wind speed, topography, and atmospheric stability. CO from motor vehicle exhaust can become locally concentrated when surface-based temperature inversions are combined with calm atmospheric conditions, a typical situation at dusk in urban areas between November and February.¹ The highest levels of CO typically occur during the colder months of the year when inversion conditions are more frequent. In terms of health, CO competes with oxygen, often replacing it in the blood, thus reducing the blood’s ability to transport oxygen to vital organs. The results of excess CO exposure can be dizziness, fatigue, and impairment of central nervous system functions.

Ozone. O_3 is a colorless gas that is formed in the atmosphere when reactive organic gases (ROG), which includes volatile organic compounds (VOC), and nitrogen oxides (NO_x) react in the presence of ultraviolet sunlight. O_3 is not a primary pollutant; it is a secondary pollutant formed by complex interactions of two pollutants directly emitted into the atmosphere. The primary sources of ROG and NO_x , the components of O_3 , are automobile exhaust and industrial sources. Meteorology and terrain play major roles in O_3 formation. Ideal conditions occur during summer and early autumn, on days with low wind speeds or stagnant air, warm temperatures, and cloudless skies. The greatest source of smog-producing gases is the automobile. Short-term exposure (lasting for a few hours) to O_3 at levels typically observed in Southern California can result in breathing pattern changes, reduction of breathing capacity,

¹Inversion is an atmospheric condition in which a layer of warm air traps cooler air near the surface of the earth, preventing the normal rising of surface air.

increased susceptibility to infections, inflammation of the lung tissue, and some immunological changes.

Nitrogen Dioxide. NO_2 , like O_3 , is not directly emitted into the atmosphere but is formed by an atmospheric chemical reaction between nitric oxide (NO) and atmospheric oxygen. NO and NO_2 are collectively referred to as NO_x and are major contributors to O_3 formation. NO_2 also contributes to the formation of PM_{10} . High concentrations of NO_2 can cause breathing difficulties and result in a brownish-red cast to the atmosphere with reduced visibility. There is some indication of a relationship between NO_2 and chronic pulmonary fibrosis. Some increase of bronchitis in children (two and three years old) has also been observed at concentrations below 0.3 ppm.

Sulfur Dioxide. SO_2 is a colorless, pungent gas formed primarily by the combustion of sulfur-containing fossil fuels. Main sources of SO_2 are coal and oil used in power plants and industries. Generally, the highest levels of SO_2 are found near large industrial complexes. In recent years, SO_2 concentrations have been reduced by the increasingly stringent controls placed on stationary source emissions of SO_2 and limits on the sulfur content of fuels. SO_2 is an irritant gas that attacks the throat and lungs. It can cause acute respiratory symptoms and diminished ventilator function in children. SO_2 can also yellow plant leaves and erode iron and steel.

Particulate Matter. Particulate matter pollution consists of very small liquid and solid particles floating in the air, which can include smoke, soot, dust, salts, acids, and metals. Particulate matter also forms when gases emitted from industries and motor vehicles undergo chemical reactions in the atmosphere. $\text{PM}_{2.5}$ and PM_{10} represent fractions of particulate matter. Fine particulate matter, or $\text{PM}_{2.5}$, is roughly 1/28 the diameter of a human hair. $\text{PM}_{2.5}$ results from fuel combustion (e.g. motor vehicles, power generation, and industrial facilities), residential fireplaces, and wood stoves. In addition, $\text{PM}_{2.5}$ can be formed in the atmosphere from gases such as SO_2 , NO_x , and VOC. Inhalable particulate matter, or PM_{10} , is about 1/7 the thickness of a human hair. Major sources of PM_{10} include crushing or grinding operations; dust stirred up by vehicles traveling on roads; wood burning stoves and fireplaces; dust from construction, landfills, and agriculture; wildfires and brush/waste burning; industrial sources; windblown dust from open lands; and atmospheric chemical and photochemical reactions.

$\text{PM}_{2.5}$ and PM_{10} pose a greater health risk than larger-size particles. When inhaled, these tiny particles can penetrate the human respiratory system's natural defenses and damage the respiratory tract. $\text{PM}_{2.5}$ and PM_{10} can increase the number and severity of asthma attacks, cause or aggravate bronchitis and other lung diseases, and reduce the body's ability to fight infections. Very small particles of substances, such as lead, sulfates, and nitrates can cause lung damage directly. These substances can be absorbed into the blood stream and cause damage elsewhere in the body. These substances can transport absorbed gases, such as chlorides or ammonium, into the lungs and cause injury. Whereas PM_{10} tends to collect in the upper portion of the respiratory system, $\text{PM}_{2.5}$ is so tiny that it can penetrate deeper into the lungs and damage lung tissues. Suspended particulates also damage and discolor surfaces on which they settle, as well as produce haze and reduce regional visibility.

Lead. Pb in the atmosphere occurs as particulate matter. Sources of lead include leaded gasoline; the manufacturers of batteries, paint, ink, ceramics, and ammunition; and secondary lead smelters. Prior to 1978, mobile emissions were the primary source of atmospheric lead. Between 1978 and 1987, the phase-out of leaded gasoline reduced the overall inventory of airborne lead by nearly 95 percent. With the phase-out of leaded gasoline, secondary lead

smelters, battery recycling, and manufacturing facilities have become lead-emission sources of greater concern.

Prolonged exposure to atmospheric lead poses a serious threat to human health. Health effects associated with exposure to lead include gastrointestinal disturbances, anemia, kidney disease, and in severe cases, neuromuscular and neurological dysfunction. Of particular concern are low-level lead exposures during infancy and childhood. Such exposures are associated with decrements in neurobehavioral performance, including intelligence quotient performance, psychomotor performance, reaction time, and growth.

Toxic Air Contaminants. A substance is considered toxic if it has the potential to cause adverse health effects in humans. A toxic substance released into the air is considered a toxic air contaminant (TAC). TACs are identified by State and federal agencies based on a review of available scientific evidence. In the State of California, TACs are identified through a two-step process that was established in 1983 under the Toxic Air Contaminant Identification and Control Act. This two-step process of risk identification and risk management was designed to protect residents from the health effects of toxic substances in the air.

Greenhouse Gases. Greenhouse gas (GHG) emissions refer to a group of emissions that are generally believed to affect global climate conditions. The greenhouse effect compares the Earth and the atmosphere surrounding it to a greenhouse with glass panes. The glass panes in a greenhouse let heat from sunlight in and reduce the amount of heat that escapes. GHGs, such as carbon dioxide (CO₂), methane (CH₄), and nitrous oxide (N₂O), keep the average surface temperature of the Earth close to 60 degrees Fahrenheit (°F).

In addition to CO₂, CH₄, and N₂O, GHGs include hydrofluorocarbons, perfluorocarbons, sulfur hexafluoride, and water vapor. Of all the GHGs, CO₂ is the most abundant pollutant that contributes to climate change through fossil fuel combustion. CO₂ comprised 83.3 percent of the total GHG emissions in California in 2002.² The other GHGs are less abundant but have higher global warming potential than CO₂. To account for this higher potential, emissions of other GHGs are frequently expressed in the equivalent mass of CO₂, denoted as CO₂e. The CO₂e of CH₄ and N₂O represented 6.4 and 6.8 percent, respectively, of the 2002 California GHG emissions. Other high global warming potential gases represented 3.5 percent of these emissions.³ In addition, there are a number of human-made pollutants, such as CO, NO_x, non-methane VOC, and SO₂, that have indirect effects on terrestrial or solar radiation absorption by influencing the formation or destruction of other climate change emissions.

3.2 REGULATORY SETTING

Federal

United States Environmental Protection Agency. The Federal Clean Air Act (CAA) governs air quality in the United States. The United States Environmental Protection Agency (USEPA) is responsible for enforcing the CAA. USEPA is also responsible for establishing the National Ambient Air Quality Standards (NAAQS). NAAQS are required under the 1977 CAA and subsequent amendments. USEPA regulates emission sources that are under the exclusive authority of the federal government, such as aircraft, ships, and certain types of locomotives.

²California Environmental Protection Agency, *Climate Action Team Report to Governor Schwarzenegger and the Legislature*, March 2006, p. 11.

³*Ibid.*

USEPA has jurisdiction over emission sources outside State waters (e.g., beyond the outer continental shelf) and establishes various emission standards, including those for vehicles sold in States other than California. Automobiles sold in California must meet stricter emission standards established by CARB.

As required by the CAA, NAAQS have been established for seven major air pollutants: CO, NO₂, O₃, PM_{2.5}, PM₁₀, SO₂, and Pb. The CAA requires USEPA to designate areas as attainment, nonattainment, or maintenance (previously nonattainment and currently attainment) for each criteria pollutant based on whether the NAAQS have been achieved. The federal standards are summarized in **Table 3-1**. The USEPA has classified the South Coast Air Basin as maintenance for CO and nonattainment for O₃, PM_{2.5}, and PM₁₀.

State

California Air Resources Board. In addition to being subject to the requirements of CAA, air quality in California is also governed by more stringent regulations under the California Clean Air Act (CCAA). In California, the CCAA is administered by the California Air Resources Board (CARB) at the State level and by the air quality management districts and air pollution control districts at the regional and local levels. The CARB, which became part of the California Environmental Protection Agency in 1991, is responsible for meeting the State requirements of the CAA, administering the CCAA, and establishing the California Ambient Air Quality Standards (CAAQS). The CCAA, as amended in 1992, requires all air districts in the State to endeavor to achieve and maintain the CAAQS. CAAQS are generally more stringent than the corresponding federal standards and incorporate additional standards for sulfates, hydrogen sulfide, vinyl chloride, and visibility-reducing particles. CARB regulates mobile air pollution sources, such as motor vehicles. CARB is responsible for setting emission standards for vehicles sold in California and for other emission sources, such as consumer products and certain off-road equipment. CARB established passenger vehicle fuel specifications, which became effective in March 1996. CARB oversees the functions of local air pollution control districts and air quality management districts, which, in turn, administer air quality activities at the regional and county levels. The State standards are summarized in **Table 3-1**.

The CCAA requires CARB to designate areas within California as either attainment or nonattainment for each criteria pollutant based on whether the CAAQS have been achieved. Under the CCAA, areas are designated as nonattainment for a pollutant if air quality data shows that a State standard for the pollutant was violated at least once during the previous three calendar years. Exceedances that are affected by highly irregular or infrequent events are not considered violations of a State standard and are not used as a basis for designating areas as nonattainment. Under the CCAA, the Los Angeles County portion of the Basin is designated as a nonattainment area for O₃, PM_{2.5}, and PM₁₀, Nitrogen Oxide, and Lead.⁴

⁴CARB, Area Designation Maps, available at <http://www.arb.ca.gov/desig/adm/adm.htm>, accessed September 21, 2010.

TABLE 3-1: STATE AND NATIONAL AMBIENT AIR QUALITY STANDARDS AND ATTAINMENT STATUS FOR THE SOUTH COAST AIR BASIN

| Pollutant | Averaging Period | California | | Federal | |
|---|------------------------|---------------------------------------|-------------------|---------------------------------------|-------------------|
| | | Standards | Attainment Status | Standards | Attainment Status |
| Ozone (O ₃) | 1-hour | 0.09 ppm (180 µg/m ³) | Nonattainment | -- | -- |
| | 8-hour | 0.070 ppm (137 µg/m ³) | n/a | 0.075 ppm (147 µg/m ³) | Nonattainment |
| Respirable Particulate Matter (PM ₁₀) | 24-hour | 50 µg/m ³ | Nonattainment | 150 µg/m ³ | Nonattainment |
| | Annual Arithmetic Mean | 20 µg/m ³ | Nonattainment | -- | -- |
| Fine Particulate Matter (PM _{2.5}) | 24-hour | -- | -- | 35 µg/m ³ | Nonattainment |
| | Annual Arithmetic Mean | 12 µg/m ³ | Nonattainment | 15.0 µg/m ³ | Nonattainment |
| Carbon Monoxide (CO) | 8-hour | 9.0 ppm (10 mg/m ³) | Attainment | 9 ppm (10 mg/m ³) | Unclassified /a/ |
| | 1-hour | 20 ppm (23 mg/m ³) | Attainment | 35 ppm (40 mg/m ³) | Unclassified /a/ |
| Nitrogen Dioxide (NO ₂) | Annual Arithmetic Mean | 0.030 ppm (57 µg/m ³) | Attainment | 53 ppb (100 µg/m ³) | Unclassified /a/ |
| | 1-hour | 0.18 ppm (338 µg/m ³) | Attainment | 100 ppb (190 µg/m ³) | n/a |
| Sulfur Dioxide (SO ₂) | 24-hour | 0.04 ppm (105 µg/m ³) | Attainment | -- | -- |
| | 3-hour | -- | -- | -- | -- |
| | 1-hour | 0.25 ppm (655 µg/m ³) | Attainment | 75 ppb (196 µg/m ³) | Attainment |
| Lead (Pb) | 30-day average | 1.5 µg/m ³ | Attainment | -- | -- |
| | Calendar Quarter | -- | -- | 0.15 µg/m ³ | Attainment |

n/a = not available; No effort has been made to establish attainment status.
/a/ Unclassified is defined as having an incomplete data set that does not support a designation of attainment or nonattainment.
SOURCE: CARB, *Ambient Air Quality Standards*, and *attainment status*, September 8, 2010.

Local

South Coast Air Quality Management District. The 1977 Lewis Air Quality Management Act created the SCAQMD to coordinate air quality planning efforts throughout Southern California. This Act merged four county air pollution control agencies into one regional district to better address the issue of improving air quality in Southern California. Under the Act, renamed the Lewis-Presley Air Quality Management Act in 1988, the SCAQMD is the agency principally responsible for comprehensive air pollution control in the region. Specifically, the SCAQMD is responsible for monitoring air quality, as well as planning, implementing, and enforcing programs designed to attain and maintain State and federal ambient air quality standards in the district. Programs that were developed include air quality rules and regulations that regulate

stationary sources, area sources, point sources, and certain mobile source emissions. The SCAQMD is also responsible for establishing stationary source permitting requirements and for ensuring that new, modified, or relocated stationary sources do not create net emission increases.

The SCAQMD monitors air quality within the project area. The SCAQMD has jurisdiction over an area of 10,743 square miles, consisting of Orange County; the non-desert portions of Los Angeles, Riverside, and San Bernardino counties; and the Riverside County portion of the Salton Sea Air Basin and Mojave Desert Air Basin. The Basin is a subregion of the SCAQMD and covers an area of 6,745 square miles. The Basin includes all of Orange County and the non-desert portions of Los Angeles, Riverside, and San Bernardino counties. The Basin is bounded by the Pacific Ocean to the west; the San Gabriel, San Bernardino and San Jacinto mountains to the north and east; and the San Diego County line to the south (**Figure 3-1**).

Air Quality Management Plan. All areas designated as nonattainment under the CCAA are required to prepare plans showing how the area would meet the State air quality standards by its attainment dates. The AQMP is the SCAQMD plan for improving regional air quality. It addresses CAA and CCAA requirements and demonstrates attainment with State and federal ambient air quality standards. The AQMP is prepared by SCAQMD and the Southern California Association of Governments (SCAG). The AQMP provides policies and control measures that reduce emissions to attain both State and federal ambient air quality standards by their applicable deadlines. Environmental review of individual projects within the Basin must demonstrate that daily construction and operational emissions thresholds, as established by the SCAQMD, would not be exceeded. The environmental review must also demonstrate that individual projects would not increase the number or severity of existing air quality violations.

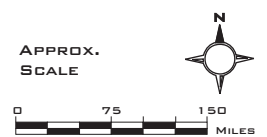
The 2007 AQMP was adopted by the SCAQMD on June 1, 2007. The 2007 AQMP proposes attainment demonstration of the federal PM_{2.5} standards through a more focused control of SO_x, directly-emitted PM_{2.5}, and NO_x supplemented with VOC by 2015. The eight-hour ozone control strategy builds upon the PM_{2.5} strategy, augmented with additional NO_x and VOC reductions to meet the standard by 2024. The 2007 AQMP also addresses several federal planning requirements and incorporates significant new scientific data, primarily in the form of updated emissions inventories, ambient measurements, new meteorological episodes, and new air quality modeling tools. The 2007 AQMP is consistent with and builds upon the approaches taken in the 2003 AQMP. However, the 2007 AQMP highlights the significant amount of reductions needed and the urgent need to identify additional strategies, especially in the area of mobile sources, to meet all federal criteria pollutant standards within the time frames allowed under the CAA.

Toxic Air Contaminants. The SCAQMD has a long and successful history of reducing air toxics and criteria emissions in the South Coast Air Basin (Basin). SCAQMD has an extensive control program, including traditional and innovative rules and policies. These policies can be viewed in the SCAQMD's *Air Toxics Control Plan for the Next Ten Years* (March 2000). To date, the most comprehensive study on air toxics in the Basin is the Multiple Air Toxics Exposure Study (MATES-III), conducted by the SCAQMD. The monitoring program measured more than 30 air pollutants, including both gases and particulates. The monitoring study was accompanied by a computer modeling study in which SCAQMD estimated the risk of cancer from breathing toxic air pollution throughout the region based on emissions and weather data. MATES-III found that the cancer risk in the region from carcinogenic air pollutants ranges from about 870 in a million to 1,400 in a million, with an average regional risk of about 1,200 in a million.



LEGEND:

- South Coast Air Basin
- State of California



SOURCE: California Air Resources Board, State and Local Air Monitoring Network Plan, May 2008

Global Climate Change

In response to growing scientific and political concern with global climate change, California has recently adopted a series of laws to reduce emissions of GHGs into the atmosphere. In September 2002, Assembly Bill (AB) 1493 was enacted, requiring the development and adoption of regulations to achieve “the maximum feasible reduction of greenhouse gases” emitted by noncommercial passenger vehicles, light-duty trucks, and other vehicles used primarily for personal transportation in the State. California Governor Arnold Schwarzenegger announced, on June 1, 2005, through Executive Order S-3-05, the following GHG emission reduction targets: by 2010, reduce GHG emissions to 2000 levels; by 2020, reduce GHG emissions to 1990 levels; and by 2050, reduce GHG emissions to 80 percent below 1990 levels.

In response to the Executive Order, the Secretary of the California Environmental Protection Agency created the Climate Action Team (CAT), which, in March 2006, published the *Climate Action Team Report to Governor Schwarzenegger and the Legislature* (2006 CAT Report). The 2006 CAT Report identifies a recommended list of strategies that the State could pursue to reduce climate change GHG emissions. These are strategies that could be implemented by various State agencies to ensure that the Governor’s targets are met and can be met with existing authority of the State agencies.

Assembly Bill 32. In September 2006, Governor Arnold Schwarzenegger signed the California Global Warming Solutions Act of 2006, also known as AB 32, into law. AB 32 focuses on reducing GHG emissions in California, and requires the CARB to adopt rules and regulations that would achieve greenhouse gas emissions equivalent to statewide levels in 1990 by 2020. To achieve this goal, AB 32 mandates that the CARB establish a quantified emissions cap, institute a schedule to meet the cap, implement regulations to reduce statewide GHG emissions from various sources, and develop tracking, reporting, and enforcement mechanisms to ensure that reductions are achieved. Because the intent of AB 32 is to limit 2020 emissions to the equivalent of 1990, it is expected that the regulations would affect many existing sources of GHG emissions and not just new general development projects. Senate Bill (SB) 1368, a companion bill to AB 32, requires the California Public Utilities Commission and the California Energy Commission to establish GHG emission performance standards for the generation of electricity. These standards will also apply to power that is generated outside of California and imported into the State.

AB 32 charges the CARB with the responsibility to monitor and regulate sources of GHG emissions in order to reduce those emissions. On June 1, 2007, the CARB adopted three discrete early action measures to reduce GHG emissions. These measures involved complying with a low carbon fuel standard, reducing refrigerant loss from motor vehicle air conditioning maintenance, and increasing methane capture from landfills.⁵ On October 25, 2007, the CARB tripled the set of previously approved early action measures. The approved measures include improving truck efficiency (i.e., reducing aerodynamic drag), electrifying port equipment, reducing perfluorocarbons from the semiconductor industry, reducing propellants in consumer products, promoting proper tire inflation in vehicles, and reducing sulfur hexafluoride emission from the non-electricity sector. The CARB has determined that the total statewide aggregated greenhouse gas 1990 emissions level and 2020 emissions limit is 427 million metric tons of CO₂e. The 2020 target reductions are currently estimated to be 174 million metric tons of CO₂e.

⁵California Air Resources Board, *Proposed Early Action Measures to Mitigate Climate Change in California*, April 20, 2007.

The CARB AB 32 Scoping Plan contains the main strategies to achieve the 2020 emissions cap. The Scoping Plan was developed by the CARB with input from the Climate Action Team and proposes a comprehensive set of actions designed to reduce overall carbon emissions in California, improve the environment, reduce oil dependency, diversify energy sources, and enhance public health while creating new jobs and improving the State economy. The GHG reduction strategies contained in the Scoping Plan include direct regulations, alternative compliance mechanisms, monetary and non-monetary incentives, voluntary actions, and market-based mechanisms such as a cap-and-trade system. The measures in the Scoping Plan adopted by the Board will be developed and put in place by 2012.

The CARB has also developed the greenhouse gas mandatory reporting regulation, which required reporting beginning on January 1, 2008 pursuant to requirements of AB 32. The regulations require reporting for certain types of facilities that make up the bulk of the stationary source emissions in California. The regulation language identifies major facilities as those that generate more than 25,000 metric tons of CO₂ per year. Cement plants, oil refineries, electric generating facilities/providers, co-generation facilities, and hydrogen plants and other stationary combustion sources that emit more than 25,000 metric tons of CO₂ per year, make up 94 percent of the point source CO₂ emissions in California.

CEQA Guideline Amendments. California Senate Bill (SB) 97 required the Governor's Office of Planning and Research (OPR) to develop CEQA guidelines "for the mitigation of greenhouse gas emissions or the effects of greenhouse gas emissions." The CEQA Guideline amendments provide guidance to public agencies regarding the analysis and mitigation of the effects of GHG emissions in CEQA documents. Noteworthy revisions to the CEQA Guidelines include:

- Lead agencies should quantify all relevant GHG emissions and consider the full range of project features that may increase or decrease GHG emissions as compared to the existing setting;
- Consistency with the CARB Scoping Plan is not a sufficient basis to determine that a project's GHG emissions would not be cumulatively considerable;
- A lead agency may appropriately look to thresholds developed by other public agencies, including the CARB's recommended CEQA thresholds;
- To qualify as mitigation, specific measures from an existing plan must be identified and incorporated into the project. General compliance with a plan, by itself, is not mitigation;
- The effects of GHG emissions are cumulative and should be analyzed in the context of CEQA's requirements for cumulative impact analysis; and
- Given that impacts resulting from GHG emissions are cumulative, significant advantages may result from analyzing such impacts on a programmatic level. If analyzed properly, later projects may tier, incorporate by reference, or otherwise rely on the programmatic analysis.

Senate Bill 375. California Senate Bill (SB) 375, passed September 30, 2008, provides a means for achieving AB 32 goals through regulation of cars and light trucks. SB 375 aligns three critical policy areas of importance to local government: (1) regional long-range transportation plans and investments; (2) regional allocation of the obligation for cities and counties to zone for housing; and (3) a process to achieve greenhouse gas emissions reductions targets for the transportation sector. SB 375 establishes a process for CARB to develop the GHG emissions reductions targets for each region (as opposed to individual local governments or households). CARB must take certain factors into account before setting the targets, such as considering the likely reductions that will result from actions to improve the fuel

efficiency of the Statewide fleet and regulations related to the carbon content of fuels (low carbon fuels). CARB must also convene a Regional Targets Advisory Committee, which includes representation from the League of California Cities, California State Association of Counties, metropolitan planning organizations, developers, planning organizations and other stakeholder groups. Furthermore, before setting the targets for each region, CARB is required to exchange technical information with the Metropolitan Planning Organizations (MPOs) for that region and with the affected air district. SB 375 provides that the MPOs may recommend a target for its region.

SB 375 relies upon regional planning processes already underway in the 17 MPOs in the State to accomplish its objectives. The provisions related to GHG emissions only apply to the MPOs in the State, which includes 37 of the 58 counties. Most notably, the measure requires the MPO to prepare a Sustainable Communities Strategy (SCS) within the Regional Transportation Plan (RTP), which sets forth a vision for growth for the region taking into account the transportation, housing, environmental, and economic needs of the region. The SCS is the blueprint by which the region will meet its GHG emissions reductions target if there is a feasible way to do so.

SB 375 indirectly addresses another longstanding issue: single purpose State agencies. The new law will require the cooperation of CARB, the California Transportation Commission (CTC), the California Department of Transportation (Caltrans) and the State Department of Housing and Community Development (HCD). For example, SB 375 takes a first step to counter this problem by connecting the Regional Housing Needs Allocation (RHNA) to the transportation planning process. While these State agencies will be involved in setting the targets and adopting new guidelines, local governments and the MPOs will not only provide input into setting the targets, but will serve as the lead on implementation. Member cities and counties working through their MPOs are tasked with development of the new integrated regional planning and transportation strategies designed to meet the GHG targets.

SB 375 also includes a provision that applies to all regional transportation planning agencies in the State that recognizes the rural contribution towards reducing GHGs. More specifically, the bill requires regional transportation agencies to consider financial incentives for cities and counties that have rural areas or farmland, for the purposes of, for example, transportation investments for the preservation and safety of the city street or county road system, farm to market, and interconnectivity transportation needs. An MPO or county transportation agency shall also consider financial assistance for counties to address countywide service responsibilities in counties that contribute towards the GHG emissions reductions targets by implementing policies for growth to occur within their cities.

SB 375 uses California Environmental Quality Act (CEQA) streamlining as an incentive to encourage residential projects, which help achieve AB 32 goals to reduce GHG emissions. Cities and counties that find the CEQA streamlining provisions attractive have the opportunity (but not the obligation) to align their planning decisions with the decisions of the region.

SB 375 provides more certainty for local governments and developers by framing how AB 32's reduction goal from transportation for cars and light trucks will be established. It should be noted, however, that SB 375 does not prevent CARB from adopting additional regulations under its AB 32 authority. However, based on the degree of consensus around SB 375 and early indications from CARB, such actions are not anticipated in the foreseeable future.⁶

⁶American Planning Association, California Chapter, *Analysis of SB 375*, <http://www.calapa.org/en/cms/?2841>, accessed March 30, 2009.

CARB Guidance. The CARB has published draft guidance for setting interim GHG significance thresholds (October 24, 2008). The guidance is the first step toward developing the recommended Statewide interim thresholds of significance for GHG emissions that may be adopted by local agencies for their own use. The guidance does not attempt to address every type of project that may be subject to CEQA, but instead focuses on common project types that are responsible for substantial GHG emissions (i.e., industrial, residential, and commercial projects). The CARB believes that thresholds in these important sectors will advance climate objectives, streamline project review, and encourage consistency and uniformity in the CEQA analysis of GHG emissions throughout the State.

SCAQMD Guidance. The SCAQMD has convened a GHG CEQA Significance Threshold Working Group to provide guidance to local lead agencies on determining significance for GHG emissions in their CEQA documents. Members of the working group include government agencies implementing CEQA and representatives from various stakeholder groups that will provide input to the SCAQMD staff on developing GHG CEQA significance thresholds. On December 5, 2008, the SCAQMD Governing Board adopted the staff proposal for an interim GHG significance threshold for projects where the SCAQMD is lead agency. The SCAQMD has not adopted guidance for CEQA projects under other lead agencies.

Green LA Action Plan. The City of Los Angeles has issued guidance promoting green building to reduce GHG emissions. The goal of the Green LA Action Plan (Plan) is to reduce greenhouse gas emissions 35 percent below 1990 levels by 2030.⁷ The Plan identifies objectives and actions designed to make the City a leader in confronting global climate change. The measures would reduce emissions directly from municipal facilities and operations, and create a framework to address City-wide GHG emissions. The Plan lists various focus areas in which to implement GHG reduction strategies. Focus areas listed in the Plan include energy, water, transportation, land use, waste, port, airport, and ensuring that changes to the local climate are incorporated into planning and building decisions. The Plan discusses City goals for each focus area, as follows:

Energy

- Increase the generation of renewable energy;
- Encourage the use of mass transit;
- Develop sustainable construction guidelines;
- Increase City-wide energy efficiency; and
- Promote energy conservation.

Water

- Decrease per capita water use to reduce electricity demand associated with water pumping and treatment.

Transportation

- Power the City vehicle fleet with alternative fuels; and
- Promote alternative transportation (e.g., mass transit and rideshare).

⁷City of Los Angeles, *Green LA: An Action Plan to Lead the Nation in Fighting Global Warming*, May 2007.

Other Goals

- Create a more livable City through land use regulations;
- Increase recycling, reducing emissions generated by activity associated with the Port of Los Angeles and regional airports;
- Create more City parks, promoting the environmental economic sector; and
- Adapt planning and building policies to incorporate climate change policy.

The City adopted an ordinance to establish a green building program in April 2008. The ordinance establishes green building requirements for projects involving 50 or more dwelling units. The Green Building Program was established to reduce the use of natural resources, create healthier living environments and minimize the negative impacts of development on local, regional, and global ecosystems. The program addresses the following five areas:

- Site: location, site planning, landscaping, storm water management, construction and demolition recycling
- Water Efficiency: efficient fixtures, wastewater reuse, and efficient irrigation
- Energy and Atmosphere: energy efficiency, and clean/renewable energy
- Materials and Resources: materials reuse, efficient building systems, and use of recycled and rapidly renewable materials
- Indoor Environmental Quality: improved indoor air quality, increased natural lighting, and thermal comfort/control

3.3 EXISTING AIR QUALITY

3.3.1 Air Pollution Climatology

The project site is located within the Los Angeles County portion of the Basin. Ambient pollution concentrations recorded in Los Angeles County are among the highest in the four counties comprising the Basin.

The Basin is in an area of high air pollution potential due to its climate and topography. The general region lies in the semi-permanent high pressure zone of the eastern Pacific, resulting in a mild climate tempered by cool sea breezes with light average wind speeds. The Basin experiences warm summers, mild winters, infrequent rainfalls, light winds, and moderate humidity. This usually mild climatological pattern is interrupted infrequently by periods of extremely hot weather, winter storms, or Santa Ana winds. The Basin is a coastal plain with connecting broad valleys and low hills, bounded by the Pacific Ocean to the west and high mountains around the rest of its perimeter. The mountains and hills within the area contribute to the variation of rainfall, temperature, and winds throughout the region.

The Basin experiences frequent temperature inversions. Temperature typically decreases with height. However, under inversion conditions, temperature increases as altitude increases, thereby preventing air close to the ground from mixing with the air above it. As a result, air pollutants are trapped near the ground. During the summer, air quality problems are created due to the interaction between the ocean surface and the lower layer of the atmosphere. This interaction creates a moist marine layer. An upper layer of warm air mass forms over the cool marine layer, preventing air pollutants from dispersing upward. Additionally, hydrocarbons and NO₂ react under strong sunlight, creating smog. Light, daytime winds, predominantly from the west, further aggravate the condition by driving air pollutants inland, toward the mountains.

During the fall and winter, air quality problems are created due to CO and NO₂ emissions. CO concentrations are generally worse in the morning and late evening (around 10:00 p.m.). In the morning, CO levels are relatively high due to cold temperatures and the large number of cars traveling. High CO levels during the late evenings are a result of stagnant atmospheric conditions trapping CO in the area. Since CO emissions are produced almost entirely from automobiles, the highest CO concentrations in the Basin are associated with heavy traffic. NO₂ concentrations are also generally higher during fall and winter days.

3.3.2 Local Climate

The mountains and hills within the Basin contribute to the variation of rainfall, temperature, and winds throughout the region. Within the project site and its vicinity, the average wind speed, as recorded at the Downtown Los Angeles Wind Monitoring Station, is approximately five miles per hour, with calm winds occurring approximately eight percent of the time. Wind in the vicinity of the project site predominately blows from the southwest.

The annual average temperature in the project area is 65°F.⁸ The project area experiences an average winter temperature of approximately 58°F and an average summer temperature of approximately 72°F. Total precipitation in the project area averages approximately 15 inches annually. Precipitation occurs mostly during the winter and relatively infrequently during the summer. Precipitation averages approximately ten inches during the winter, approximately four inches during the spring, approximately two inches during the fall, and less than one inch during the summer.⁹

3.3.3 Air Monitoring Data for Criteria Pollutants

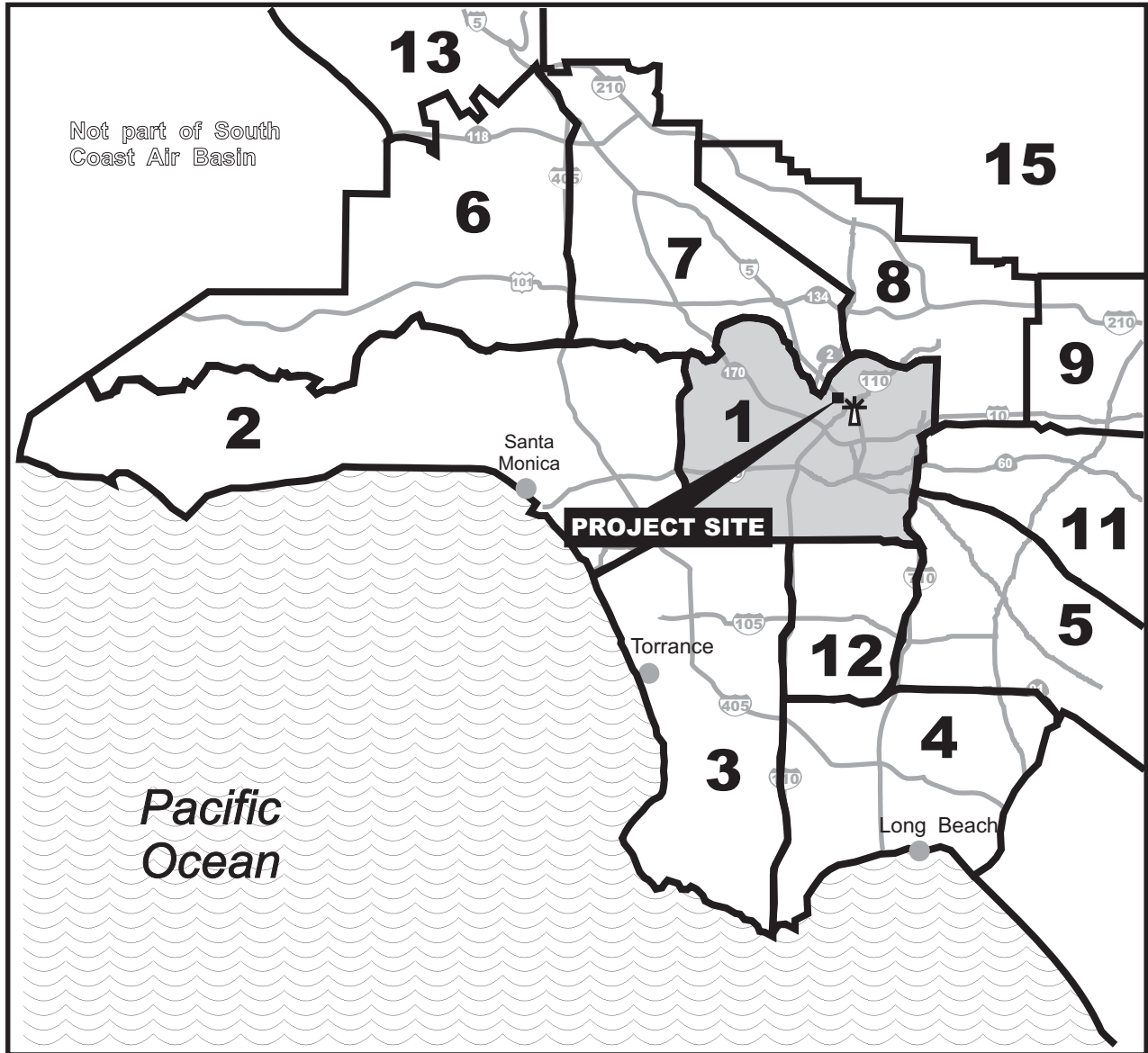
The SCAQMD monitors air quality conditions at 37 locations throughout the Basin. The project site is located in SCAQMD's Coastal Air Monitoring Subregion, which is served by the Los Angeles North Main Street Monitoring Station, and located 0.8 miles south of the project site in the City of Los Angeles (**Figure 3-2**). Historical data from the Los Angeles North Main Street Monitoring Station was used to characterize existing conditions in the vicinity of the project area.

Table 3-2 shows pollutant levels, the State and federal standards, and the number of exceedances recorded at the Los Angeles North Main Street Monitoring Station compared to the highest figures derived from both the Metropolitan General Forecast Area from 2007 to 2009. Criteria pollutants CO, NO₂, and SO₂ did not exceed the CAAQS during the 2007 to 2009 period. The one-hour State standard for O₃ was exceeded three to five times during this period. The 24-hour State standard for PM₁₀ was exceeded two to five days, and the annual State standard for PM_{2.5} was also exceeded between the 2007 to 2009 period.

When compared to the Forecast Area, the selected monitoring station recorded concentrations of O₃, and NO₂ that were higher than the Forecast Area. CO was lower than the Forecast Area, and PM and SO₂ were comparable between the North Main Street location and the Forecast Area.

⁸Western Regional Climate Center, Historical Climate Information, available at <http://www.wrcc.dri.edu>, accessed September 21, 2010.

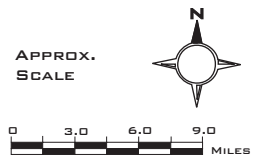
⁹*Ibid.*



LEGEND:  Los Angeles North Main Street Air Monitoring Station

Air Monitoring Areas in Los Angeles County:

- | | |
|---------------------------------|--------------------------------------|
| 1. Central Los Angeles | 9. East San Gabriel Valley |
| 2. Northwest Coastal | 10. Pomona/Walnut Valley (not shown) |
| 3. Southwest Coastal | 11. South San Gabriel Valley |
| 4. South Coastal | 12. South Central Los Angeles |
| 5. Southeast Los Angeles County | 13. Santa Clarita Valley |
| 6. West San Fernando Valley | 15. San Gabriel Mountains |
| 7. East San Fernando Valley | |
| 8. West San Gabriel Valley | |



SOURCE: South Coast Air Quality Management District Air Monitoring Areas Map, 1999

FIGURE 3-2

AIR MONITORING AREAS

| TABLE 3-2: 2007-2009 AMBIENT AIR QUALITY DATA IN PROJECT VICINITY | | | | | | | |
|---|--|--------------------------------------|------|----------|--|-------|------|
| Pollutant | Pollutant Concentration & Standards | Central Los Angeles County Subregion | | | Metropolitan General Forecast Area /a/ | | |
| | | Number of Days Above State Standard | | | | | |
| | | 2007 | 2008 | 2009 /b/ | 2007 | 2008 | 2009 |
| Ozone | Maximum 1-hr Concentration (ppm) | 0.12 | 0.11 | 0.14 | 0.12 | 0.11 | - |
| | Days > 0.09 ppm (State 1-hr standard) | 4 | 5 | 3 | 4 | 5 | - |
| | Days > 0.12 ppm (Federal 1-hr standard) | 0 | 0 | 1 | 1 | 0 | - |
| Carbon Monoxide | Maximum 1-hr concentration (ppm) | 3 | 3 | n/a | 6 | 4 | - |
| | Days > 20 ppm (State 1-hr standard) | 0 | 0 | n/a | 0 | 0 | - |
| Nitrogen Dioxide | Maximum 8-hr concentration (ppm) | 2.2 | 2.1 | 2.2 | 3.4 | 2.5 | - |
| | Days > 9.0 ppm (State 8-hr standard) | 0 | 0 | 0 | 0 | 0 | - |
| PM ₁₀ | Maximum 1-hr Concentration (ppm) | 0.10 | 0.12 | 0.12 | 0.09 | 0.10 | - |
| | Days > 0.18 ppm (State 1-hr standard) | 0 | 0 | 0 | 0 | 0 | - |
| PM _{2.5} | Maximum 24-hr concentration (µg/m ³) | 78 | 66 | 70 | 78 | 66 | - |
| | Days > 50 µg/m ³ (State 24-hr standard) | 5 | 2 | 4 | 5 | 2 | - |
| Sulfur Dioxide | Annual Arithmetic Mean (µg/m ³) | 17 | 16 | 16 | 16 | 16 | - |
| | Exceed State Standard (12 µg/m ³) | Yes | Yes | Yes | Yes | Yes | - |
| Sulfur Dioxide | Maximum 24-hr Concentration (ppm) | <0.01 | 0.01 | <0.01 | <0.01 | <0.01 | - |
| | Days > 0.04 ppm (State 24-hr standard) | 0 | 0 | 0 | 0 | 0 | - |

/a/ The Metropolitan Forecast Area includes the Central Los Angeles County, Southeast Los Angeles County, South Central Los Angeles County, and North Orange County air monitoring areas of the SCAQMD.
/b/ 2009 data provided by CARB Air Quality Data Statistics. Los Angeles North Main Street air monitoring station data was used for each pollutant, except SO₂, PM_{2.5}, and PM₁₀ which used the Burbank air monitoring station. Available at <http://www.arb.ca.gov/adam/index.html>, accessed September 21, 2010
SOURCE: SCAQMD, Historical Data by Year, available at <http://www.aqmd.gov/smog/historicaldata.htm>, accessed September 21, 2010.

3.3.4 Greenhouse Gases

California is the fifteenth largest emitter of GHG on the planet, representing about two percent of the worldwide emissions.¹⁰ **Table 3-3** show 2002 to 2004 average emissions and estimates for projected emissions in 2020 without any GHG reduction measures (business-as-usual case). The 2020 business-as-usual forecast does not take any credit for reductions from measures included in the AB 32 Scoping Plan, including the Pavley GHG emissions standards for vehicles, full implementation of the Renewables Portfolio Standard beyond current levels of renewable energy, or solar measures. The Transportation sector – largely the cars and trucks that move goods and people – is the largest contributor with 38 percent of the State’s total GHG emissions. **Table 3-3** shows that if no action is taken, GHG emissions in the Transportation sector are expected to grow by approximately 25 percent by 2020 (an increase of 46 million metric tons of CO₂e).

The Electricity and Commercial/Residential Energy sector is the next largest contributor with over 30 percent of the Statewide greenhouse gas emissions. Although electricity imported into California accounts for only about a quarter of our electricity, imports contribute more than half of the GHG emissions from electricity because much of the imported electricity is generated at coal-fired power plants. AB 32 specifically requires CARB to address emissions from electricity sources both inside and outside of the state.

¹⁰CARB, *Climate Change Scoping Plan*, December 2008.

| TABLE 3-3: AVERAGE EMISSIONS AND 2020 PROJECTED EMISSIONS (BUSINESS-AS-USUAL) | | |
|--|---|---------------------------------|
| Sector | 2002 to 2004 Average Emissions | Projected 2020 Emissions |
| | Million Metric Tons of CO₂e | |
| Transportation | 179.3 | 225.4 |
| Electricity | 109.0 | 139.2 |
| Commercial and Residential | 41.0 | 46.7 |
| Industry | 95.9 | 100.5 |
| Recycling and Waste | 5.6 | 7.7 |
| High Global Warming Potential | 14.8 | 46.9 |
| Agriculture | 27.7 | 29.8 |
| Forest Net Emissions | (4.7) | 0.0 |
| Emissions Total | 469 | 596 |

SOURCE: CARB, *Climate Change Scoping Plan*, December 2008.

California's Industrial sector includes refineries, cement plants, oil and gas production, food processors, and other large industrial sources. This sector contributes almost 20 percent of California's GHG emissions, but the sector's emissions are not projected to grow significantly in the future. The sector termed Recycling and Waste Management is a unique system, encompassing not just emissions from waste facilities but also the emissions associated with the production, distribution and disposal of products throughout the economy.

GHG with high global warming potential are a small contributor to historic GHG emissions. However, the levels of these gases are projected to increase sharply over the next several decades making them a significant source by 2020.

The Forest sector is unique in that forests both emit GHG and uptake CO₂. While the current inventory shows forests as a sink of 4.7 million metric tons of CO₂e, carbon sequestration has declined since 1990. For this reason, the 2020 projection assumes no net emissions from forests.

The agricultural GHG emissions shown are largely methane emissions from livestock, both from the animals and their waste. Emissions of GHG from fertilizer application are also important contributors from the Agricultural sector. CARB has begun a research program to better understand the variables affecting these emissions. Opportunities to sequester CO₂ in the Agricultural sector may also exist; however, additional research is needed to identify and quantify potential sequestration benefits.

In December 2007, CARB approved a greenhouse gas emissions target for 2020 equivalent to the State's calculated GHG emissions level in 1990. CARB developed the 2020 target after extensive technical work and a series of stakeholder meetings. The 2020 target of 427 million metric tons of CO₂e requires the reduction of 169 million metric tons of CO₂e, or approximately 30 percent, from the State's projected 2020 emissions of 596 million metric tons of CO₂e (business-as-usual) and the reduction of 42 million metric tons of CO₂e, or almost ten percent, from 2002 to 2004 average emissions.

3.3.5 Sensitive Receptors

Some land uses are considered more sensitive to changes in air quality than others, depending on the population groups and the activities involved. CARB has identified the following typical groups who are most likely to be affected by air pollution: children under 14, the elderly over 65 years of age, athletes, and people with cardiovascular and chronic respiratory diseases.

According to the SCAQMD, sensitive receptors include residences, schools, playgrounds, child care centers, athletic facilities, long-term health care facilities, rehabilitation centers, convalescent centers, and retirement homes.

As shown in **Figure 3-3**, project-specific sensitive receptors include the following:

Elysian Reservoir

- Single-family residences along Park Row Street, located approximately 600 feet to the south
- Solano Avenue Elementary School, located approximately 925 feet to the southwest
- Elysian Park facilities, located approximately 1,200 feet to the west

Inlet Line

- Single-family residences along Riverside Drive, located approximately 70 feet to the east

Haul Truck Route

- Single- and multi-family residences along Riverside Drive
- Single-family residences along Landa Street
- Barlow Respiratory Hospital along Stadium Way

These represent the nearest sensitive receptors with the potential to be impacted by air emissions. Additional sensitive receptors are located in the surrounding community and may be impacted by air emissions.

3.4 METHODOLOGY AND SIGNIFICANCE CRITERIA

3.4.1 Methodology

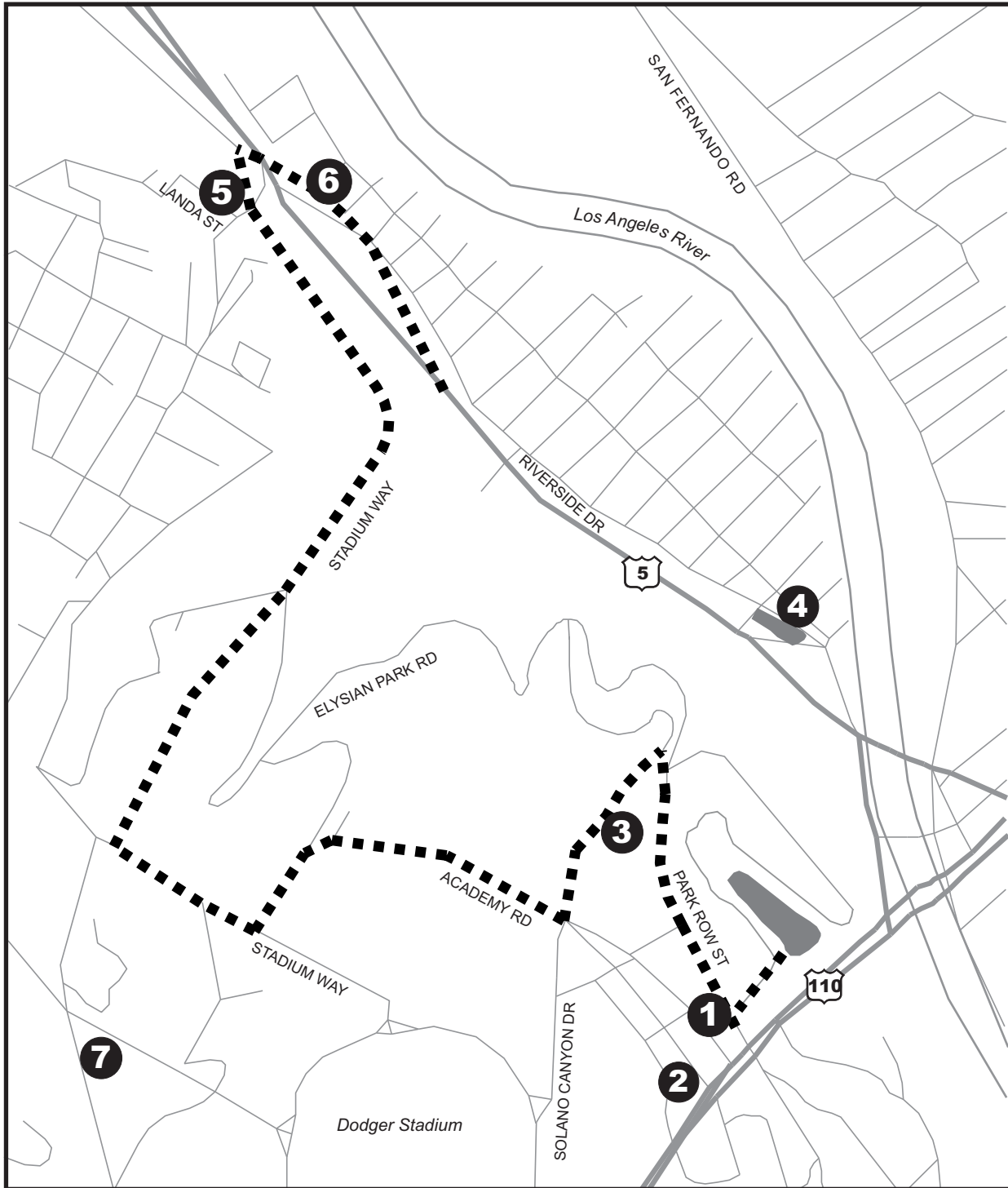
Construction

This air quality analysis is consistent with the methods described in the SCAQMD *CEQA Air Quality Handbook* (1993 edition), as well as the updates to the *CEQA Air Quality Handbook*, as provided on the SCAQMD website.¹¹

The localized construction analysis followed guidelines published by the SCAQMD in the Localized Significance Methodology for CEQA Evaluations (SCAQMD Localized Significance Threshold (LST) Guidance Document).¹² In January 2005, the SCAQMD supplemented the SCAQMD LST Guidance Document with Sample Construction Scenarios for Projects Less than Five Acres in Size.

¹¹SCAQMD, <http://www.aqmd.gov/ceqa/hdbk.html>, accessed September 21, 2010.

¹²SCAQMD, *Localized Significance Methodology*, June 2003, revised July 2008.



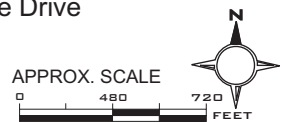
LEGEND: Project Site Haul Route - - - -

Sensitive Receptors

- 1. Single-Family Residences on Park Row Street
- 2. Solano Avenue Elementary School
- 3. Elysian Park Recreation Area

- 4. Single-Family Residences on Riverside Drive
- 5. Single-Family Residences on Landa Street
- 6. Single-Family Residences on Riverside Drive
- 7. Barlow Respiratory Hospital

SOURCE: TAHA, 2010



Assumptions used for the construction calculations are as follows:

Alternative 1 – Buried Concrete Cover

Phase 1: Mobilization, Bypass Line Construction & Activation, and Reservoir Demolition

- Duration: 16 months
- Demolition Amount: 7,000 cubic yards (CY) of debris
- On-site Workers: 98
- Full-time Operating Equipment: 37
- Haul Trucks: 46 trips per day
- Volume to be Excavated: 5,000 CY

Phase 2: Reservoir Rough Shaping, Retaining Wall Excavation, Sub-Grade Excavation and Preparation, and New Inlet and Outlet Structures

- Duration: 19 months
- On-site Workers: 91
- Full-time Operating Equipment: 38
- Haul Trucks: 16 trips per day
- Volume to be Excavated: 167,000 CY

Phase 3: Concrete Reservoir and Sub-Drain System Construction

- Duration: 14 months
- On-site Workers: 92
- Full-time Operating Equipment: 15
- Haul Trucks: 57 trips per day

Phase 4: Backfilling and Covering the Concrete Reservoir

- Duration: 2 months
- On-site Workers: 45
- Full-time Operating Equipment: 34
- Haul Trucks: 126 trips per day

Phase 5: Recreation Improvements

- Duration: 12 months
- On-site Workers: 45
- Full-time Operating Equipment: 20
- Haul Trucks: 5 trips per day

Inlet Line Construction: Task 1

- Duration: 3 months
- On-site Workers: 18
- Full-time Operating Equipment: 10
- Haul Trucks: 10 trips per day
- Volume to be Excavated: 890 CY

Inlet Line Construction: Task 2

- Duration: 16 months
- On-site Workers: 13
- Full-time Operating Equipment: 11

- Haul Trucks: 11 trips per day
- Volume to be Excavated: 5,000 CY

Inlet Line Construction: Task 3

- Duration: 1 months
- On-site Workers: 10
- Full-time Operating Equipment: 7
- Haul Trucks: 19 trips per day
- Volume to be Excavated: 850 CY

Inlet Line Construction: Task 4

- Duration: 2 months
- On-site Workers: 6
- Full-time Operating Equipment: 1
- Haul Trucks: 1 trips per day

Alternative 2 – Floating Cover

Phase 1: Mobilization, Bypass Line Construction & Activation, and Reservoir Demolition

- Duration: 19 months
- Demolition Amount: 4,650 cubic yards (CY) of debris
- On-site Workers: 72
- Full-time Operating Equipment: 17
- Haul Trucks: 34 trips per day
- Volume to be Excavated: 5,000 CY

Phase 2: Construction New Inlet and Outlet Structures and Installation of Asphalt Reservoir Liner

- Duration: 9 months
- On-site Workers: 54
- Full-time Operating Equipment: 25
- Haul Trucks: 14 trips per day

Phase 3: Installation of Floating Cover

- Duration: 3 months
- On-site Workers: 18
- Full-time Operating Equipment: 9
- Haul Trucks: 1 trip per day

Alternative 3 – Aluminum Cover

Phase 1: Mobilization, Bypass Line Construction & Activation, and Reservoir Demolition

- Duration: 19 months
- Demolition Amount: 7,000 cubic yards (CY) of debris
- On-site Workers: 72
- Full-time Operating Equipment: 17
- Haul Trucks: 46 trips per day
- Volume to be Excavated: 5,000 CY

Phase 2: Construction New Inlet and Outlet Structures and Installation of Asphalt Reservoir Liner

- Duration: 9 months
- On-site Workers: 54
- Full-time Operating Equipment: 25
- Haul Trucks: 14 trips per day

Phase 3: Aluminum Cover Construction

- Duration: 18 months
- On-site Workers: 23
- Full-time Operating Equipment: 15
- Haul Trucks: 4 trips per day

Phase 4: Solar Panel Installation

- Duration: 7 months
- On-site Workers: 36
- Full-time Operating Equipment: 8
- Haul Trucks: 7 trips per day

Health Risk Assessment

A health risk assessment (HRA) was completed using emissions factors from EMFAC2007 and OFFROAD2007 for haul truck and on-site heavy equipment emissions, respectively. AERMOD dispersion modeling software was used to determine the concentrations of diesel particulate matter generated from haul truck trips and heavy equipment used in and around the project site.

The HRA was prepared based on emissions from haul trucks and diesel-powered construction equipment. The first step was to calculate the mass emissions from these sources. Construction activity would generate 47,300 truck trips under Alternative 1, 17,050 truck trips under Alternative 2, and 24,046 truck trips under Alternative 3. In addition, inlet construction would generate 5,641 truck trips. On-road truck emissions were calculated based on the haul route from either project site to I-5 Freeway and emission rates from the EMFAC2007 model. It was assumed that each truck would idle on the project site for 15 minutes, and the idle emission rate was also obtained from the EMFAC2007 model. Equipment emissions were obtained from the OFFROAD model.

The truck and equipment emission rates were input into the AERMOD dispersion model to obtain annual exposure concentrations. The model is a steady state Gaussian plume model for estimating ground level impacts from point, area, and volume sources in simple and complex terrain. The model offers additional flexibility by allowing the user to assign initial vertical and lateral dispersion parameters for stationary sources. Truck emissions were modeled based on SCAQMD *Health Risk Assessment Guidance for Analyzing Cancer Risks from Mobile Source Diesel Idling Emissions for CEQA Air Quality Analysis* (August 2003). Idle emissions were treated as an area source with a five-meter release height. On-road emissions along the haul route were input as a line source with a release height of five meters.

Operations

URBEMIS2007 Version 9.2.4 was used to calculate operational mobile source emissions. URBEMIS incorporates EMFAC2007 emissions rates, which are the latest emission inventory

for motor vehicles operating on roads in California. This reflects the CARB's current understanding of how vehicles travel and how much they pollute. The URBEMIS model can be used to show how California motor vehicle emissions have changed over time and are projected to change in the future.

Greenhouse Gas Emissions

For the purpose of this analysis, GHG emissions were quantified from construction and mobile sources from operations of the facility. GHG emissions were estimated using the same methodology presented above for construction and operational emissions.

3.4.2 Significance Criteria

The following are the significance criteria SCAQMD has established to determine project impacts.

Construction Phase Significance Criteria

The proposed project and alternatives would have a significant impact if:

- Daily regional construction emissions were to exceed SCAQMD construction emissions thresholds for VOC, NO_x, CO, SO_x, PM_{2.5}, or PM₁₀, as presented in **Table 3-4**;
- Localized concentrations of CO exceed the one-hour standard of 20 ppm or the eight-hour standard of 9.0 ppm;
- Localized concentrations of NO₂ exceed the one-hour standard of 0.18 ppm;
- Localized concentrations of PM_{2.5} or PM₁₀ exceed 10.4 µg/m₃;
- The proposed project and alternatives would generate TAC emissions that generate a health risk that exceeds ten persons in one million; and/or
- The proposed project and alternatives would create an odor nuisance.

| TABLE 3-4: SCAQMD DAILY CONSTRUCTION EMISSIONS THRESHOLDS | |
|--|--|
| Criteria Pollutant | Regional Emissions (Pounds Per Day) |
| Volatile Organic Compounds (VOC) | 75 |
| Nitrogen Oxides (NO _x) | 100 |
| Carbon Monoxide (CO) | 550 |
| Sulfur Oxides (SO _x) | 150 |
| Fine Particulates (PM _{2.5}) | 55 |
| Particulates (PM ₁₀) | 150 |
| SOURCE: SCAQMD, 2010. | |

Operations Phase Significance Criteria

The proposed project and alternatives would have a significant impact if:

- Daily operational emissions were to exceed SCAQMD operational emissions thresholds for VOC, NO_x, CO, SO_x, PM_{2.5}, or PM₁₀, as presented in **Table 3-5**;

| TABLE 3-5: SCAQMD DAILY OPERATIONAL EMISSIONS THRESHOLDS | |
|---|--|
| Criteria Pollutant | Regional Emissions (Pounds Per Day) |
| Volatile Organic Compounds (VOC) | 55 |
| Nitrogen Oxides (NO _x) | 55 |
| Carbon Monoxide (CO) | 550 |
| Sulfur Oxides (SO _x) | 150 |
| Fine Particulates (PM _{2.5}) | 55 |
| Particulates (PM ₁₀) | 150 |
| SOURCE: SCAQMD, 2010. | |

- Project-related traffic causes CO concentrations at study intersections to violate the CAAQS for either the one- or eight-hour period. The CAAQS for the one- and eight-hour periods are 20 ppm and 9.0 ppm, respectively;
- The proposed project and alternatives would generate TAC emissions that result in a carcinogenic risk greater than ten persons in one million;
- The proposed project and alternatives would create an odor nuisance; and/or
- The proposed project and alternatives would not be consistent with the AQMP.

Greenhouse Gas Significance Criteria

A proposed project must demonstrate if GHG emissions would have a significant impact on the environment and if it would conflict with an applicable plan, policy or regulation adopted for the purpose of reducing GHG emissions. The SCAQMD has adopted GHG significance thresholds for projects where the SCAQMD is lead agency but not for general development. The quantitative significance threshold is based on the methodologies recommended by the CAPCOA January 2008 *CEQA and Climate Change* white paper. CAPCOA conducted an analysis of various approaches and significance thresholds, ranging from a zero threshold (all projects are cumulatively considerable) to a high of 40,000 to 50,000 metric tons of CO₂e per year. For example, an approach assuming a zero threshold and compliance with AB 32 2020 targets would require all discretionary projects to achieve a 33 percent reduction from projected “business-as-usual” emissions to be considered less than significant. A zero threshold approach could be considered on the basis that climate change is a global phenomenon, and not controlling small source emissions would potentially neglect a major portion of the GHG inventory. However, the CEQA Guidelines also recognize that there may be a point where a project’s contribution, although above zero, would not be a considerable contribution to the cumulative impact (CEQA Guidelines, Section 15130 (a)). Therefore, a threshold of greater than zero is considered more appropriate for the analysis of GHG emissions under CEQA.

Another method would use a quantitative threshold of greater than 900 metric tons CO₂e per year based on a market capture approach that requires mitigation for greater than 90 percent of likely future discretionary development. This threshold would generally correspond to office projects of approximately 35,000 square feet, retail projects of approximately 11,000 square feet, or supermarket space of approximately 6,300 square feet. Another potential threshold would be the 10,000 metric tons standard used by the Market Advisory Committee for inclusion in a GHG Cap and Trade System in California. A 10,000 metric ton significance threshold would correspond to the GHG emissions of approximately 550 residential units, 400,000 square feet of office space, 120,000 square feet of retail, and 70,000 square feet of supermarket space. This threshold would capture roughly half of new residential or commercial development. The

basic concepts for the various approaches suggested by CAPCOA are used herein to determine whether or not GHG emissions are “cumulatively considerable.”

Because the majority of emissions would result from construction activity, it was determined that the most conservative (i.e., lowest) thresholds, suggested by CAPCOA, would not be appropriate for the proposed project and alternatives. Similarly, the 900-ton threshold was also determined to be too conservative for general development in the South Coast Air Basin. Consequently, the threshold of 10,000 metric tons CO₂e is used as a quantitative benchmark for significance. A project’s contribution to global climate change is considered significant if it would generate 10,000 metric tons CO₂e per year. In addition, a significant impact would result if GHG emissions conflict with any applicable climate change policy or regulation previously discussed.

3.5 ENVIRONMENTAL IMPACTS

3.5.1 Construction Phase

Regional Impacts

Construction of the proposed project and alternatives have the potential to create air quality impacts through the use of heavy-duty construction equipment and through vehicle trips generated by construction workers traveling to and from the project site. Fugitive dust emissions would primarily result from demolition and site preparation (e.g., excavation) activities. NO_x emissions would primarily result from the use of construction equipment. The assessment of construction air quality impacts considers each of these potential sources. Construction emissions can vary substantially from day to day, depending on the level of activity, the specific type of operation and, for dust, the prevailing weather conditions.

It is mandatory for all construction projects in the Basin to comply with SCAQMD Rule 403 for Fugitive Dust. Specific Rule 403 control requirements include, but are not limited to, applying water in sufficient quantities to prevent the generation of visible dust plumes, applying soil binders to uncovered areas, reestablishing ground cover as quickly as possible, utilizing a wheel washing system to remove bulk material from tires and vehicle undercarriages before vehicles exit the project site, and maintaining effective cover over exposed areas. Compliance with Rule 403 would reduce PM_{2.5} and PM₁₀ emissions associated with construction activities by approximately 61 percent.¹³

Alternative 1 – Buried Concrete Cover

It is anticipated that construction activities would start in 2015 and be completed in 2020. **Table 3-6** shows the estimated daily emissions associated with each construction phase. Construction of the Inlet Line would occur concurrently with Phase 1 and early Phase 2 of the Buried Concrete Cover construction. The worst case construction emissions occur during construction of Phase 1 of the Buried Concrete Cover construction, and Task 1 of the Inlet Line Construction. It is important to note that although worst-case daily emissions are similar for each alternative, Alternative 1 has higher total project emissions due to the length of construction. Daily NO_x emissions would exceed the SCAQMD regional threshold during

¹³SCAQMD, *Overview – Fugitive Dust Mitigation Measure Tables*, April 2007.

Phases 1, 2, and 4. Therefore, the Buried Concrete Cover Alternative would result in a significant impact related to regional construction emissions without mitigation.

| TABLE 3-6: ALTERNATIVE 1 (BURIED CONCRETE COVER) ESTIMATED DAILY CONSTRUCTION EMISSIONS - UNMITIGATED | | | | | | |
|---|----------------|-----------------|-----|-----------------|-----------------------|----------------------|
| Construction Phase | Pounds Per Day | | | | | |
| | VOC | NO _x | CO | SO _x | PM _{2.5} /a/ | PM ₁₀ /a/ |
| Buried Concrete Cover Construction | | | | | | |
| Phase 1 | 16 | 134 | 64 | <1 | 12 | 38 |
| Phase 2 | 14 | 115 | 59 | <1 | 4 | 10 |
| Phase 3 | 8 | 63 | 37 | <1 | 2 | 3 |
| Phase 4 | 16 | 127 | 66 | <1 | 5 | 5 |
| Phase 5 | 6 | 37 | 26 | <1 | 7 | 26 |
| Inlet Line Construction | | | | | | |
| Task 1 | 10 | 80 | 40 | <1 | 8 | 28 |
| Task 2 | 8 | 64 | 31 | <1 | 8 | 28 |
| Task 3 | 8 | 63 | 33 | <1 | 3 | 6 |
| Task 4 | 3 | 27 | 13 | <1 | 1 | 1 |
| Maximum Regional Total /b/ | | | | | | |
| | 26 | 214 | 104 | <1 | 20 | 66 |
| Regional Significance Threshold | | | | | | |
| | 75 | 100 | 550 | 150 | 55 | 150 |
| Exceed Threshold? | No | Yes | No | No | No | No |
| <small>/a/ Emissions for fugitive dust were adjusted to account for a 61 percent control efficiency associated with SCAQMD Rule 403. /b/ Maximum emissions would occur during concurrent construction of Phase 1 of the Buried Concrete Cover Alternative and Task 1 of the Inlet Line. SOURCE: TAHA, 2010.</small> | | | | | | |

Alternative 2 - Floating Cover

Under the Floating Cover Alternative, the LADWP would install a flexible membrane floating cover over the entire surface of the Reservoir that would be secured to the edge of the Reservoir. It is anticipated that construction activities would start in 2014 and be completed in 2016. The worst case construction emissions occur during the concurrent construction of Phase 1 of the Floating Cover, and Task 1 of the Inlet Line. **Table 3-7** shows the estimated daily emissions associated with each construction phase. Daily NO_x emissions would exceed the SCAQMD regional thresholds. Therefore, the Floating Cover Alternative would result in a significant impact related to regional construction emissions without mitigation.

| TABLE 3-7: ALTERNATIVE 2 (FLOATING COVER) ESTIMATED DAILY CONSTRUCTION EMISSIONS - UNMITIGATED | | | | | | |
|---|----------------|-----------------|------------|-----------------|-----------------------|----------------------|
| Construction Phase | Pounds Per Day | | | | | |
| | VOC | NO _x | CO | SO _x | PM _{2.5} /a/ | PM ₁₀ /a/ |
| Floating Cover Construction | | | | | | |
| Phase 1 | 15 | 131 | 62 | <1 | 11 | 35 |
| Phase 2 | 16 | 126 | 66 | <1 | 5 | 5 |
| Phase 3 | 3 | 26 | 19 | <1 | 1 | 1 |
| Inlet Line Construction | | | | | | |
| Task 1 | 10 | 80 | 40 | <1 | 8 | 28 |
| Task 2 | 8 | 64 | 31 | <1 | 8 | 28 |
| Task 3 | 8 | 63 | 33 | <1 | 3 | 6 |
| Task 4 | 3 | 27 | 13 | <1 | 1 | 1 |
| Maximum Regional Total /b/ | | | | | | |
| | 25 | 213 | 102 | <1 | 19 | 63 |
| Regional Significance Threshold | | | | | | |
| | 75 | 100 | 550 | 150 | 55 | 150 |
| Exceed Threshold? | No | Yes | No | No | No | No |
| /a/ Emissions for fugitive dust were adjusted to account for a 61 percent control efficiency associated with SCAQMD Rule 403. | | | | | | |
| /b/ Maximum emissions would occur during concurrent construction of Phase 1 of the Floating Cover Alternative and Task 1 of the Inlet Line. | | | | | | |
| SOURCE: TAHA, 2010. | | | | | | |

Alternative 3 - Aluminum Cover

Under the Aluminum Cover Alternative, the Reservoir would be retained in its existing configuration and LADWP would install a lightweight aluminum cover over the entire surface of the Reservoir. It is anticipated that construction activities would start in 2014 and be completed in 2018. The worst case construction emissions occur during the concurrent construction of Phase 1 of the Aluminum Cover, and Task 1 of the Inlet Line. **Table 3-8** shows the estimated daily emissions associated with each construction phase. Daily NO_x emissions would exceed the SCAQMD regional thresholds. Therefore, the Aluminum Cover Alternative would result in a significant impact related to regional construction emissions without mitigation.

| TABLE 3-8: ALTERNATIVE 3 (ALUMINUM COVER) ESTIMATED DAILY CONSTRUCTION EMISSIONS - UNMITIGATED | | | | | | |
|--|----------------|-----------------|------------|-----------------|-----------------------|----------------------|
| Construction Phase | Pounds Per Day | | | | | |
| | VOC | NO _x | CO | SO _x | PM _{2.5} /a/ | PM ₁₀ /a/ |
| Aluminum Cover Construction | | | | | | |
| Phase 1 | 16 | 139 | 65 | <1 | 12 | 41 |
| Phase 2 | 15 | 137 | 68 | <1 | 5 | 6 |
| Phase 3 | 8 | 59 | 35 | <1 | 2 | 2 |
| Phase 4 | 1 | 11 | 8 | <1 | <1 | 1 |
| Inlet Line Construction | | | | | | |
| Task 1 | 10 | 80 | 40 | <1 | 8 | 28 |
| Task 2 | 8 | 64 | 31 | <1 | 8 | 28 |
| Task 3 | 8 | 63 | 33 | <1 | 3 | 6 |
| Task 4 | 3 | 27 | 13 | <1 | 1 | 1 |
| Maximum Regional Total /b/ | | | | | | |
| | 26 | 219 | 105 | <1 | 20 | 69 |
| Regional Significance Threshold | | | | | | |
| | 75 | 100 | 550 | 150 | 55 | 150 |
| Exceed Threshold? | No | Yes | No | No | No | No |
| /a/ Emissions for fugitive dust were adjusted to account for a 61 percent control efficiency associated with SCAQMD Rule 403. /b/ Maximum emissions would occur during concurrent construction of Phase 1 of the Aluminum Cover and Task 1 of the Inlet Line. SOURCE: TAHA, 2010. | | | | | | |

Localized Impacts

Localized construction concentrations were modeled using the USEPA AERMOD dispersion model. Per SCAQMD guidance, the model used regulatory default options and urban dispersion. The model runs included terrain data to account for the varied topography at the project site.

The localized emissions and concentrations would be similar for the proposed project and the alternatives. This is because concentrations are directly related to the distance between the source and the sensitive receptor. The Riverside Drive residences near the Inlet Line construction site are the closest sensitive receptors to construction activity at 70 feet. **Table 3-9** presents the maximum localized emissions and associated concentrations associated with Inlet Line construction activity. Maximum localized PM_{2.5} and PM₁₀ concentrations would exceed the significance thresholds at residential land uses near the Inlet Line construction site. Localized PM_{2.5} and PM₁₀ concentrations would also exceed the significance thresholds at the residences near Park Row Street and Solano Avenue Elementary School. Therefore, the proposed project and alternatives would result in a significant impact related to localized construction emissions without mitigation.

| TABLE 3-9: LOCALIZED CONSTRUCTION EMISSIONS - UNMITIGATED | | | | |
|--|--------------------------------------|--|-------------------------------|----------------------------|
| Pollutant | Estimated Emissions (lbs/day) | Concentration at nearest sensitive receptor | Significance Threshold | Significant Impact? |
| PM _{2.5} | 19 - 20 | 80 ug/m ³ | 10.4 ug/m ³ | Yes |
| PM ₁₀ | 63 - 68 | 315 ug/m ³ | 10.4 ug/m ³ | Yes |
| NO ₂ | 18 - 20 | 0.10 ppm | 0.18 ppm | No |
| CO (1-Hour) | 96 - 99 | <1 ppm | 20 ppm | No |
| CO (8-Hour) | 96 - 99 | <1 ppm | 9 ppm | No |
| SOURCE: TAHA, 2010. | | | | |

Toxic Air Contaminant Impacts

The greatest potential for TAC emissions during construction would be from diesel particulate emissions associated with heavy equipment operations and haul trucks during the import and export of materials to the project site. The haul truck route travels along Park Row Street, to Academy Road, to Stadium Way, onto Riverside Drive, and then to the I-5. According to SCAQMD methodology, health effects from carcinogenic air toxics are usually described in terms of individual cancer risk. "Individual Cancer Risk" is the likelihood that a person continuously exposed to concentrations of TACs over a 70-year lifetime will contract cancer based on the use of standard risk assessment methodology.

Carcinogenic compounds are not considered to have threshold levels (i.e., dose levels below which there are no risks). Any exposure, therefore, will have some associated risk. As a result, the State of California has established a threshold of one in one hundred thousand (1.0E-05) as a level posing no significant risk for exposures to carcinogens regulated under the Safe Drinking Water and Toxic Enforcement Act (Proposition 65).

Health risks associated with exposure to carcinogenic compounds can be defined in terms of the probability of developing cancer as a result of exposure to a chemical at a given concentration. Under a deterministic approach (i.e., point estimate methodology), the cancer risk probability is determined by multiplying the chemical's annual concentration by its unit risk factor (URF). The URF is a measure of the carcinogenic potential of a chemical when a dose is received through the inhalation pathway. It represents an upper bound estimate of the probability of contracting cancer as a result of continuous exposure to an ambient concentration of one microgram per cubic meter (µg/m³) over a 70-year lifetime.

The carcinogenic risk was calculated based on the SCAQMD Health Risk Assessment Guidance for Analyzing Cancer Risks from Mobile Source Diesel Idling Emissions for CEQA Air Quality Analysis. According to this document, the cancer risks from diesel particulate matter associated with motor vehicles occur exclusively through the inhalation pathway. Therefore, the cancer risks can be estimated from the following equation:

$$CR_{DPM} = C_{DPM} \times URF_{DPM} \times LEA$$

where,

| | |
|-------------|---|
| CR_{DPM} | Cancer risks from diesel particulate matter; the probability of an individual developing cancer as a result of exposure to diesel particulate matter. |
| C_{DPM} | Annual average diesel particulate matter concentration in $\mu\text{g}/\text{m}^3$. |
| URF_{DPM} | Unit risk factor for diesel particulate matter; estimated probability that a person will contract cancer as a result of inhalation of a diesel particulate matter concentration of $1 \mu\text{g}/\text{m}^3$ continuously over a period of 70 years. |
| LEA | Lifetime exposure adjustment. |

The URF utilized in the assessment and corresponding cancer potency factors was obtained from California Office of Environmental Health Hazard Assessment (OEHHA) guidance. The LEA accounts for the fact that exposure would be less than 70 years. The LEA was adjusted to correctly represent each alternative.

Alternative 1 – Buried Concrete Cover

Alternative 1 would generate 47,300 truck trips. Based on information provided by the project design and engineering team, the exposure level was adjusted to account for 8 hours per day, 5 days per week, 50 weeks per year, and 5.25 years. The Inlet Line construction would have a similar work schedule, however, would occur over two years. The results of the HRA indicated that:

- The multi- and single-family residences adjacent to the Inlet Line construction site at Riverside Drive would be exposed to a maximum off-site annual concentration of nine $\mu\text{g}/\text{m}^3$, resulting in a carcinogenic risk of 17 persons in one million;
- The Solano Avenue Elementary School would be exposed to a maximum off-site annual concentration of one $\mu\text{g}/\text{m}^3$, resulting in a carcinogenic risk of five persons in one million;
- The single-family residences adjacent to the Reservoir off of Park Row would be exposed to a maximum off-site annual concentration of one $\mu\text{g}/\text{m}^3$, resulting in a carcinogenic risk of 7 persons in one million; and
- The Barlow Respiratory Hospital would be exposed to a maximum off-site annual concentration of less than one $\mu\text{g}/\text{m}^3$, resulting in a carcinogenic risk of less than one person in one million.

The estimated risk would exceed ten persons in one million at the residences off of Riverside Drive. Therefore, the Buried Concrete Cover Alternative would result in a significant impact related to TACs without mitigation.

Alternative 2 – Floating Cover

Alternative 2 would generate 17,050 truck trips. Based on information provided by the project design and engineering team, the exposure level was adjusted to account for 8 hours per day, 5 days per week, 50 weeks per year, and 2.58 years. The Inlet Line construction would have a similar work schedule, however, would occur over two years. The results of the HRA indicated that:

- The multi- and single-family residences adjacent to the Inlet Line construction site at Riverside Drive would be exposed to a maximum off-site annual concentration of nine $\mu\text{g}/\text{m}^3$, resulting in a carcinogenic risk of 17 persons in one million;
- The Solano Avenue Elementary School would be exposed to a maximum off-site annual concentration of one $\mu\text{g}/\text{m}^3$, resulting in a carcinogenic risk of three persons in one million;
- The single-family residences adjacent to the Reservoir off Park Row would be exposed to a maximum off-site annual concentration of two $\mu\text{g}/\text{m}^3$, resulting in a carcinogenic risk of four persons in one million; and
- The Barlow Respiratory Hospital would be exposed to a maximum off-site annual concentration of less than one $\mu\text{g}/\text{m}^3$, resulting in a carcinogenic risk of less than one person in one million.

The estimated risk would exceed ten persons in one million at the residences off of Riverside Drive. Therefore, the Floating Cover Alternative would result in a significant impact related to TACs without mitigation.

Alternative 3 – Aluminum Cover

Alternative 3 would generate 24,046 truck trips. Based on information provided by the project design and engineering team, the exposure level was adjusted to account for 8 hours per day, 5 days per week, 50 weeks per year, and 4.42 years. The Inlet Line construction would have a similar work schedule, however, would occur over two years. The results of the HRA indicated that:

- The multi- and single-family residences adjacent to the Inlet Line construction site at Riverside Drive would be exposed to a maximum off-site annual concentration of nine $\mu\text{g}/\text{m}^3$, resulting in a carcinogenic risk of 17 persons in one million;
- The Solano Avenue Elementary School would be exposed to a maximum off-site annual concentration of one $\mu\text{g}/\text{m}^3$, resulting in a carcinogenic risk of six persons in one million;
- The single-family residences adjacent to the Reservoir off Park Row would be exposed to a maximum off-site annual concentration of two $\mu\text{g}/\text{m}^3$, resulting in a carcinogenic risk of eight persons in one million; and
- The Barlow Respiratory Hospital would be exposed to a maximum off-site annual concentration of less than one $\mu\text{g}/\text{m}^3$, resulting in a carcinogenic risk of less than one person in one million.

The estimated risk would exceed ten persons in one million at the residences off of Riverside Drive. Therefore, the Aluminum Cover Alternative would result in a significant impact related to TACs without mitigation.

Odor Impacts

Potential sources that may emit odors during construction activities include equipment exhaust and architectural coatings. Odors from these sources would be localized and generally confined to the immediate area surrounding the project site. The proposed project and alternatives would utilize typical construction techniques, and the odors would be typical of most construction sites and temporary in nature. Construction of each alternative would not cause an odor nuisance. Therefore, the proposed project and alternatives would result in a less-than-significant impact related to construction odors.

Construction Phase Mitigation Measures

Mitigation Measures **AQ1** through **AQ9** would ensure compliance with SCAQMD Rule 403. These mitigation measures shall be implemented for all areas (both on- and off-site) of construction activity.

- AQ1** Water or a stabilizing agent shall be applied to exposed surfaces at least two times per day to prevent generation of dust plumes.
- AQ2** The construction contractor shall utilize at least one of the following measures at each vehicle egress from the project site to a paved public road:
- Install a pad consisting of washed gravel maintained in clean condition to a depth of at least six inches and extending at least 30 feet wide and at least 50 feet long;
 - Pave the surface extending at least 100 feet and at least 20 feet wide;
 - Utilize a wheel shaker/wheel spreading device consisting of raised dividers at least 24 feet long and 10 feet wide to remove bulk material from tires and vehicle undercarriages; or
 - Install a wheel washing system to remove bulk material from tires and vehicle undercarriages.
- AQ3** All haul trucks hauling soil, sand, and other loose materials shall be covered (e.g., with tarps or other enclosures that would reduce fugitive dust emissions).
- AQ4** Construction activity on unpaved surfaces shall be suspended when wind speed exceed 25 miles per hour (such as instantaneous gusts).
- AQ5** Ground cover in disturbed areas shall be replaced as quickly as possible.
- AQ6** The construction contractor shall appoint a construction relations officer to act as a community liaison concerning on-site construction activity including resolution of issues related to PM₁₀ generation.
- AQ7** Apply non-toxic soil stabilizers according to manufacturers' specifications to all inactive construction areas (previously graded areas inactive for ten days or more).
- AQ8** Traffic speeds on all unpaved roads to be reduced to 15 mph or less.
- AQ9** Sweep streets at the end of the day if visible soil is carried onto adjacent public paved roads. If feasible, use water sweepers with reclaimed water.
- AQ10** Heavy-duty equipment operations shall be suspended during first and second stage smog alerts.
- AQ11** Equipment and vehicle engines shall be maintained in good condition and in proper tune per manufacturers' specifications.
- AQ12** All diesel-powered construction equipment shall meet the following emission standards:

- **Prior to January 1, 2015:** All off-road construction diesel engines not registered under CARB's Statewide Portable Equipment Registration Program, which have a rating of 50 horsepower (hp) or more, shall meet, at a minimum, the Tier 3 California Emission Standards for Off-Road Compression-Ignition Engines as specified in California Code of Regulations, Title 13, Section 2423(b)(1) unless such engine is not available for a particular item of equipment. In the event a Tier 3 engine is not available for any off-road engine larger than 100 hp, that engine shall be equipped with a Tier 2 engine. Equipment properly registered under and in compliance with CARB's Statewide Portable Equipment Registration Program are in compliance with this mitigation measure.
- **Post-January 1, 2015:** All off-road construction diesel engines not registered under CARB's Statewide Portable Equipment Registration Program, which have a rating of 50 horsepower (hp) or more, shall meet, at a minimum, the Tier 4 California Emission Standards for Off-Road Compression-Ignition Engines as specified in California Code of Regulations, Title 13, Section 2423(b)(1) unless such engine is not available for a particular item of equipment. In the event a Tier 4 engine is not available for any off-road engine larger than 100 hp, that engine shall be equipped with a Tier 3 engine. Equipment properly registered under and in compliance with CARB's Statewide Portable Equipment Registration Program are in compliance with this mitigation measure.

AQ13 Electricity shall be utilized from power supply sources rather than temporary gasoline or diesel power generators, as feasible.

AQ14 Heavy-duty trucks shall be prohibited from idling in excess of five minutes, both on- and off-site, except under the following conditions:

- When forced to remain motionless due to adverse weather conditions; or
- When verifying that the vehicle is in safe operating condition; or
- When the vehicle is positioning or providing a power source for equipment or operations; or
- While operating defrosters, heaters, air conditioning, or any other device to prevent a health or safety emergency.

Impacts After Mitigation

Regional Impacts

Alternative 1 – Buried Concrete Cover. Implementation of Mitigation Measures **AQ1** through **AQ9** would ensure that fugitive dust emissions would be reduced by approximately 61 percent. A five percent reduction in construction equipment exhaust was used to estimate emissions reductions due to the implementation of Mitigation Measures **AQ10** through **AQ14**. As demonstrated in **Table 3-10**, construction emissions of NO_x would remain over SCAQMD significance thresholds. Therefore, the Buried Concrete Cover Alternative would result in a significant and unavoidable impact related to regional construction emissions.

Alternative 2 – Floating Cover. Implementation of Mitigation Measures **AQ1** through **AQ9** would ensure that fugitive dust emissions would be reduced by approximately 61 percent. A five percent reduction in construction equipment exhaust was used to estimate emissions

reductions due to the implementation of Mitigation Measures **AQ10** through **AQ14**. As demonstrated in **Table 3-11**, construction emissions of NO_x would remain over SCAQMD significance thresholds. Therefore, the Floating Cover Alternative would result in a significant and unavoidable impact related to regional construction emissions.

| TABLE 3-10: ALTERNATIVE 1 (BURIED CONCRETE COVER) ESTIMATED DAILY CONSTRUCTION EMISSIONS - MITIGATED | | | | | | |
|--|-----------------------|-----------------------|------------|-----------------------|-----------------------------|----------------------------|
| Construction Phase | Pounds Per Day | | | | | |
| | VOC | NO_x | CO | SO_x | PM_{2.5} /a/ | PM₁₀ /a/ |
| Buried Concrete Cover Construction | | | | | | |
| Phase 1 | 15 | 128 | 61 | <1 | 11 | 38 |
| Phase 2 | 14 | 109 | 56 | <1 | 4 | 10 |
| Phase 3 | 7 | 60 | 35 | <1 | 2 | 3 |
| Phase 4 | 15 | 120 | 63 | <1 | 5 | 5 |
| Phase 5 | 5 | 37 | 25 | <1 | 7 | 26 |
| Inlet Line Construction | | | | | | |
| Task 1 | 10 | 76 | 38 | <1 | 8 | 28 |
| Task 2 | 8 | 61 | 30 | <1 | 8 | 28 |
| Task 3 | 8 | 60 | 31 | <1 | 3 | 6 |
| Task 4 | 3 | 26 | 13 | <1 | 1 | 1 |
| Maximum Regional Total /b/ | 25 | 204 | 99 | <1 | 19 | 66 |
| Regional Significance Threshold | 75 | 100 | 550 | 150 | 55 | 150 |
| Exceed Threshold? | No | Yes | No | No | No | No |
| /a/ Emissions for fugitive dust were adjusted to account for a 61 percent control efficiency associated with SCAQMD Rule 403. /b/ Maximum emissions would occur during concurrent construction of Phase 1 of the Buried Cover Alternative and Task 1 of the Inlet Line. SOURCE: TAHA, 2010. | | | | | | |

| TABLE 3-11: ALTERNATIVE 2 (FLOATING COVER) ESTIMATED DAILY CONSTRUCTION EMISSIONS - MITIGATED | | | | | | |
|--|----------------|-----------------|------------|-----------------|-----------------------|----------------------|
| Construction Phase | Pounds Per Day | | | | | |
| | VOC | NO _x | CO | SO _x | PM _{2.5} /a/ | PM ₁₀ /a/ |
| Floating Cover Construction | | | | | | |
| Phase 1 | 14 | 125 | 59 | <1 | 11 | 35 |
| Phase 2 | 15 | 120 | 63 | <1 | 5 | 5 |
| Phase 3 | 3 | 24 | 18 | <1 | 1 | 1 |
| Inlet Line Construction | | | | | | |
| Task 1 | 10 | 76 | 38 | <1 | 8 | 28 |
| Task 2 | 8 | 61 | 30 | <1 | 8 | 28 |
| Task 3 | 8 | 60 | 31 | <1 | 3 | 6 |
| Task 4 | 3 | 26 | 13 | <1 | 1 | 1 |
| Maximum Regional Total /b/ | 25 | 202 | 98 | <1 | 19 | 63 |
| Regional Significance Threshold | 75 | 100 | 550 | 150 | 55 | 150 |
| Exceed Threshold? | No | Yes | No | No | No | No |
| /a/ Emissions for fugitive dust were adjusted to account for a 61 percent control efficiency associated with SCAQMD Rule 403. /b/ Maximum emissions would occur during concurrent construction of Phase 1 of the Floating Cover Alternative and Task 1 of the Inlet Line. SOURCE: TAHA, 2010. | | | | | | |

Alternative 3 – Aluminum Cover. Implementation of Mitigation Measures **AQ1** through **AQ9** would ensure that fugitive dust emissions would be reduced by approximately 61 percent. A five percent reduction in construction equipment exhaust was used to estimate emissions reductions due to the implementation of Mitigation Measures **AQ10** through **AQ14**. As demonstrated in **Table 3-12**, construction emissions of NO_x would remain over SCAQMD significance thresholds. Therefore, the Aluminum Cover Alternative would result in a significant and unavoidable impact related to regional construction emissions.

| TABLE 3-12: ALTERNATIVE 3 (ALUMINUM COVER) ESTIMATED DAILY CONSTRUCTION EMISSIONS - MITIGATED | | | | | | |
|---|----------------|-----------------|------------|-----------------|-----------------------|----------------------|
| Construction Phase | Pounds Per Day | | | | | |
| | VOC | NO _x | CO | SO _x | PM _{2.5} /a/ | PM ₁₀ /a/ |
| Aluminum Cover Construction | | | | | | |
| Phase 1 | 15 | 132 | 62 | <1 | 12 | 40 |
| Phase 2 | 14 | 130 | 64 | <1 | 5 | 5 |
| Phase 3 | 7 | 56 | 34 | <1 | 2 | 2 |
| Phase 4 | 1 | 10 | 8 | <1 | <1 | 1 |
| Inlet Line Construction | | | | | | |
| Task 1 | 10 | 76 | 38 | <1 | 8 | 28 |
| Task 2 | 8 | 61 | 30 | <1 | 8 | 28 |
| Task 3 | 8 | 60 | 31 | <1 | 3 | 6 |
| Task 4 | 3 | 26 | 13 | <1 | 1 | 1 |
| Maximum Regional Total /b/ | 25 | 208 | 100 | <1 | 20 | 68 |
| Regional Significance Threshold | 75 | 100 | 550 | 150 | 55 | 150 |
| Exceed Threshold? | No | Yes | No | No | No | No |
| /a/ Emissions for fugitive dust were adjusted to account for a 61 percent control efficiency associated with SCAQMD Rule 403. | | | | | | |
| /b/ Maximum emissions would occur during concurrent construction of Phase 1 of the Aluminum Cover Alternative and Task 1 of the Inlet Line. | | | | | | |
| SOURCE: TAHA, 2010. | | | | | | |

Localized Impacts

The reductions achieved by the mitigation measures are explained above. As demonstrated in **Tables 3-13**, mitigated construction localized emissions would continue to exceed the SCAQMD localized thresholds for PM_{2.5} and PM₁₀. Therefore, the proposed project and alternatives would result in a significant and unavoidable impact related to localized construction emissions.

Toxic Air Contaminant Emissions

Mitigation Measures **AQ11** through **AQ14**, although difficult to quantify, would reduce TAC exposure. However, heavy-duty trucks would continue to emit diesel particulate matter resulting in an increased health risk to nearby sensitive land uses. Construction TAC emissions would result in a significant and unavoidable impact under Alternatives 1 and 3.

| TABLE 3-13: LOCALIZED CONSTRUCTION EMISSIONS - MITIGATED | | | | |
|---|-------------------------------|---|------------------------|---------------------|
| Pollutant | Estimated Emissions (lbs/day) | Concentration at nearest sensitive receptor | Significance Threshold | Significant Impact? |
| PM _{2.5} | 18 - 20 | 79 ug/m ³ | 10.4 ug/m ³ | Yes |
| PM ₁₀ | 63 - 68 | 314 ug/m ³ | 10.4 ug/m ³ | Yes |
| NO ₂ | 17 - 19 | 0.09 ppm | 0.18 ppm | No |
| CO (1-Hour) | 83 - 94 | <1 ppm | 20 ppm | No |
| CO (8-Hour) | 84 - 94 | <1 ppm | 9 ppm | No |
| SOURCE: TAHA, 2010. | | | | |

3.5.2 Operational Phase

Regional Impacts

Alternative 1 – Buried Concrete Cover

Motor vehicles that access the project site would be the predominate source of long-term project emissions. Worker trips for the Buried Concrete Cover Alternative are not expected to increase compared to existing conditions. Operational emissions are expected to be emitted primarily from vehicles accessing the project site for recreational activities associated with the Buried Concrete Cover Alternative. As indicated in the traffic analysis, this Alternative would generate 564 average weekend daily trips (ADT), and 235 average weekday daily trips. Mobile source emissions were estimated using URBEMIS2007. Operational emissions are shown in **Table 3-14**. Regional emissions would not exceed SCAQMD significance thresholds. Therefore, the Buried Concrete Cover Alternative would result in a less-than-significant impact related to regional operational emissions.

| TABLE 3-14: ALTERNATIVE 1 (BURIED CONCRETE COVER) ESTIMATED DAILY OPERATIONS EMISSIONS | | | | | | |
|---|-----------------------|-----------------------|------------|-----------------------|-------------------------|------------------------|
| Emission Source | Pounds per Day | | | | | |
| | VOC | NO_x | CO | SO_x | PM_{2.5} | PM₁₀ |
| Mobile Sources | 2 | 3 | 26 | <1 | 2 | 9 |
| SCAQMD Threshold | 55 | 55 | 550 | 150 | 55 | 150 |
| Exceed Threshold? | No | No | No | No | No | No |
| SOURCE: TAHA, 2010. | | | | | | |

Alternative 2 – Floating Cover

The reconstructed Reservoir with the floating cover would not create the need for LADWP personnel to be located permanently on-site. LADWP operations on-site would involve maintenance of the Reservoir, pipelines, and ancillary elements at a similar level of activity as current operations at Elysian Reservoir. Occasional washing of the cover to remove dirt and debris would be necessary to protect drinking water supply. These operations would generate minimal traffic to and from the site, similar to current levels. No public access would be provided to the Elysian Reservoir under this alternative. There would be no traffic generated by the public and no net increase in traffic generated by LADWP employees. Regional operational emissions would not exceed SCAQMD significance thresholds. Therefore, the Floating Cover Alternative would result in a less-than-significant impact related to regional operational emissions.

Alternative 3 – Aluminum Cover

The reconstructed Reservoir with the aluminum cover would not create the need for LADWP personnel to be located permanently on-site. LADWP operations on-site would involve maintenance of the Reservoir, pipelines, and ancillary elements at a similar level of activity as current operations at Elysian Reservoir. Little maintenance of the aluminum cover itself is necessary. These operations would generate minimal traffic to and from the site, similar to current levels. No public access would be provided to the Elysian Reservoir under this alternative. Power usage does not change with any alternatives except for Alternative 3, which

includes a solar panel grid, which would have a beneficial impact on electricity use. There would be no traffic generated by the public and no net increase in traffic generated by LADWP employees. Regional operational emissions would not exceed SCAQMD significance thresholds. Therefore, the Aluminum Cover Alternative would result in a less-than-significant impact related to regional operational emissions.

Localized Impacts

The State one- and eight-hour CO standards may potentially be exceeded at congested intersections with high traffic volumes. An exceedance of the State CO standards at an intersection is referred to as a CO hotspot. The SCAQMD recommends a CO hotspot evaluation of potential localized CO impacts when V/C ratios are increased by two percent at intersections with a LOS of D or worse. SCAQMD also recommends a CO hotspot evaluation when an intersection worsens in LOS by one level beginning when LOS changes from C to D.

No project intersections with a LOS of D or worse will increase by two percent under any alternative. Additionally, no project intersections decrease by one or more levels from a LOS C to D under any alternative. A CO hotspot analysis is not necessary. Therefore, the proposed project and alternatives would result in a less-than-significant impact related to operational localized emissions.

Toxic Air Contaminant Impacts

The SCAQMD recommends that health risk assessments be conducted for substantial sources of diesel particulate emissions (e.g., truck stops and warehouse distribution facilities) and has provided guidance for analyzing mobile source diesel emissions.¹⁴ Alternative 1 would locate recreational uses on the project site. These land uses would not generate a significant number of diesel truck trips. Based on the limited activity of TAC sources, the proposed project and alternatives would not warrant the need for a health risk assessment associated with on-site activities.

Typical sources of acutely and chronically hazardous TACs include industrial manufacturing processes and automotive repair facilities. The proposed project and alternatives would not include any of these potential sources, although minimal emissions may result from the use of consumer products (e.g., aerosol sprays). It is expected that the proposed project and alternatives would not release substantial amounts of TACs. Therefore, the Buried Concrete Cover Alternative would result in a less-than-significant impact related to operational odors.

Alternatives 2 and 3 would not include operational uses, and would not generate TAC emissions.

Odor Impacts

According to the SCAQMD *CEQA Air Quality Handbook*, land uses and industrial operations that are associated with odor complaints include agricultural uses, wastewater treatment plants, food processing plants, chemical plants, composting, refineries, landfills, dairies and fiberglass molding. The current operation of Elysian Canyon Reservoir does not generate adverse odors. Each the alternatives would cover the water supply, further reducing odor potential. Alternatives

¹⁴SCAQMD, *Health Risk Assessment Guidance for Analyzing Cancer Risks from Mobile Source Diesel Emissions*, December 2002.

1 through 3 would not result in activities that create objectionable odors. Therefore, the proposed project and alternatives would result in a less-than-significant impact related to operational odors.

Consistency with the Air Quality Management Plan

The 2007 AQMP was prepared to accommodate growth, to reduce the high levels of pollutants within areas under the jurisdiction of SCAQMD, to return clean air to the region, and to minimize the impact on the economy. The alternatives assessed in this analysis would not increase regional population, housing, or employment. The recreational area would not generate an inordinate amount of vehicle miles traveled and associated emissions that would interfere with implementation of the AQMP. Alternatives 2 and 3 would not generate operational emissions and would also not interfere with implementation of the AQMP. Therefore, the proposed project and alternatives would be consistent with the AQMP.

Operational Phase Mitigation Measures

Operational air quality impacts would be less than significant, and no mitigation measures are required.

Impacts After Mitigation

Not applicable. The project-related operational emissions would result in a less-than-significant impact without mitigation.

3.6 CUMULATIVE IMPACTS

3.6.1 SCAQMD Methodology

Construction

Each of the alternatives would result in a regionally significant impact during construction relative to NO_x . It is anticipated that related project development would also result in significant regional impacts. While SCAQMD-required mitigation measures would reduce air quality impacts, it is forecasted that the construction of the related projects, in addition to the alternatives, would result in a cumulatively considerable impact.

Operations

The SCAQMD's approach for assessing cumulative operational impacts is based on the AQMP forecasts of attainment of ambient air quality standards in accordance with the requirements of the federal and state CAAs. The SCAQMD has set forth regional significance thresholds designed to assist in the attainment of ambient air quality standards. The alternatives would not result in a significant VOC, $\text{PM}_{2.5}$, PM_{10} , NO_x or CO impact during operations. Each alternative's contribution would not be cumulatively considerable because it is less than significant on a project basis. Cumulative air quality would result in a less-than-significant impact.

3.6.2 Global Climate Change

Greenhouse gas emissions for Alternative 1 were calculated for construction activity and on-road mobile vehicle operations associated with the recreational land use. For Alternatives 2 and 3, emissions were only calculated for construction activity as there is no recreational component in these alternatives. Based on SCAQMD guidance, the emissions summary includes construction emissions averaged over a 30-year span. As shown in **Table 3-15**, Alternative 1 would result in 1,435 metric tons of CO₂e per year. GHG emissions would not exceed the 10,000 metric tons of CO₂e per year significance threshold, and would result in a less-than-significant impact. Alternatives 2 (**Table 3-16**) and 3 (**Table 3-17**) have no net increases in vehicle traffic, and therefore, only construction emissions are quantified. Power usage does not change with any alternatives except for Alternative 3, which includes a solar panel grid, which would have a beneficial impact on electricity use. However, this conservative emissions analysis did not account for the solar panels. Alternatives 2 and 3 would not exceed the 10,000 metric tons per year significance threshold, and would also result in a less-than-significant impact.

The proposed project and alternatives would help ensure the quality, reliability, and stability of the City of Los Angeles drinking water supply and to ensure compliance with updated USEPA)water quality standards by burying or covering the existing uncovered Elysian Reservoir. The Buried Concrete Alternative would include recreational land uses and the other alternatives would not include significant sources of operational emissions. In addition, construction activity would incorporate source reduction techniques and recycling measures and maintain a recycling program to divert a minimum of 50 percent of all waste from landfills. The proposed project and alternatives would in no way conflict with any State or local climate change policy or regulation.

| TABLE 3-15: ESTIMATED ANNUAL GREENHOUSE GAS EMISSIONS - ALTERNATIVE 1 (BURIED CONCRETE COVER) | |
|---|---|
| Source | Carbon Dioxide Equivalent (Metric Tons per Year) |
| Construction Phase 1 | 2,829 |
| Construction Phase 2 | 2,459 |
| Construction Phase 3 | 2,029 |
| Construction Phase 4 | 4,077 |
| Construction Phase 5 | 1,216 |
| Inlet Line Task 1 | 1,637 |
| Inlet Line Task 2 | 1,261 |
| Inlet Line Task 3 | 1,475 |
| Inlet Line Task 4 | 611 |
| Total Construction Emissions Amortized /a/ | 586 |
| Mobile Source /b/ | 849 |
| Total Emissions | 1,435 |
| Significance Threshold | 10,000 |
| Exceed Threshold? | No |
| /a/ Based on SCAQMD guidance, the emissions summary also includes construction emissions amortized over a 30-year span. | |
| /b/ Alternative 1 includes a recreational land use that would generate vehicle trips. | |
| SOURCE: TAHA, 2010. | |

| TABLE 3-16: ESTIMATED ANNUAL GREENHOUSE GAS EMISSIONS - ALTERNATIVE 2 (FLOATING COVER) | |
|---|---|
| Source | Carbon Dioxide Equivalent (Metric Tons per Year) |
| Construction Phase 1 | 2,531 |
| Construction Phase 2 | 2,504 |
| Construction Phase 3 | 657 |
| Inlet Line Task 1 | 1,637 |
| Inlet Line Task 2 | 1,261 |
| Inlet Line Task 3 | 1,475 |
| Inlet Line Task 4 | 611 |
| Total Construction Emissions Amortized /a/ | 356 |
| Significance Threshold | 10,000 |
| Exceed Threshold? | No |
| /a/ Based on SCAQMD guidance, the emissions summary also includes construction emissions amortized over a 30-year span. SOURCE: TAHA, 2010. | |

| TABLE 3-17: ESTIMATED ANNUAL GREENHOUSE GAS EMISSIONS - ALTERNATIVE 3 (ALUMINUM COVER) | |
|---|---|
| Scenario and Source | Carbon Dioxide Equivalent (Metric Tons per Year) |
| Construction Phase 1 | 2,723 |
| Construction Phase 2 | 2,456 |
| Construction Phase 3 | 1,382 |
| Construction Phase 4 | 226 |
| Inlet Line Task 1 | 1,637 |
| Inlet Line Task 2 | 1,261 |
| Inlet Line Task 3 | 1,475 |
| Inlet Line Task 4 | 611 |
| Total Construction Emissions Amortized /a/ | 392 |
| Significance Threshold | 10,000 |
| Exceed Threshold? | No |
| /a/ Based on SCAQMD guidance, the emissions summary also includes construction emissions amortized over a 30-year span. SOURCE: TAHA, 2010. | |

4.0 NOISE AND VIBRATION

This section evaluates noise and vibration levels associated with the implementation of the proposed project and alternatives. The noise and vibration analysis in this section assesses: existing noise and vibration conditions at the project site and its vicinity, as well as short-term construction and long-term operational noise and vibration impacts. Mitigation measures for potentially significant impacts are recommended when appropriate to reduce noise and vibration levels.

4.1 NOISE AND VIBRATION CHARACTERISTICS AND EFFECTS

4.1.1 Noise

Characteristics of Sound

Sound is technically described in terms of the loudness (amplitude) and frequency (pitch) of the sound. The standard unit of measurement for sound is the decibel (dB). The human ear is not equally sensitive to sound at all frequencies. The “A-weighted scale,” abbreviated dBA, reflects the normal hearing sensitivity range of the human ear. On this scale, the range of human hearing extends from approximately 3 to 140 dBA. **Figure 4-1** provides examples of A-weighted noise levels from common sounds.

Noise Definitions

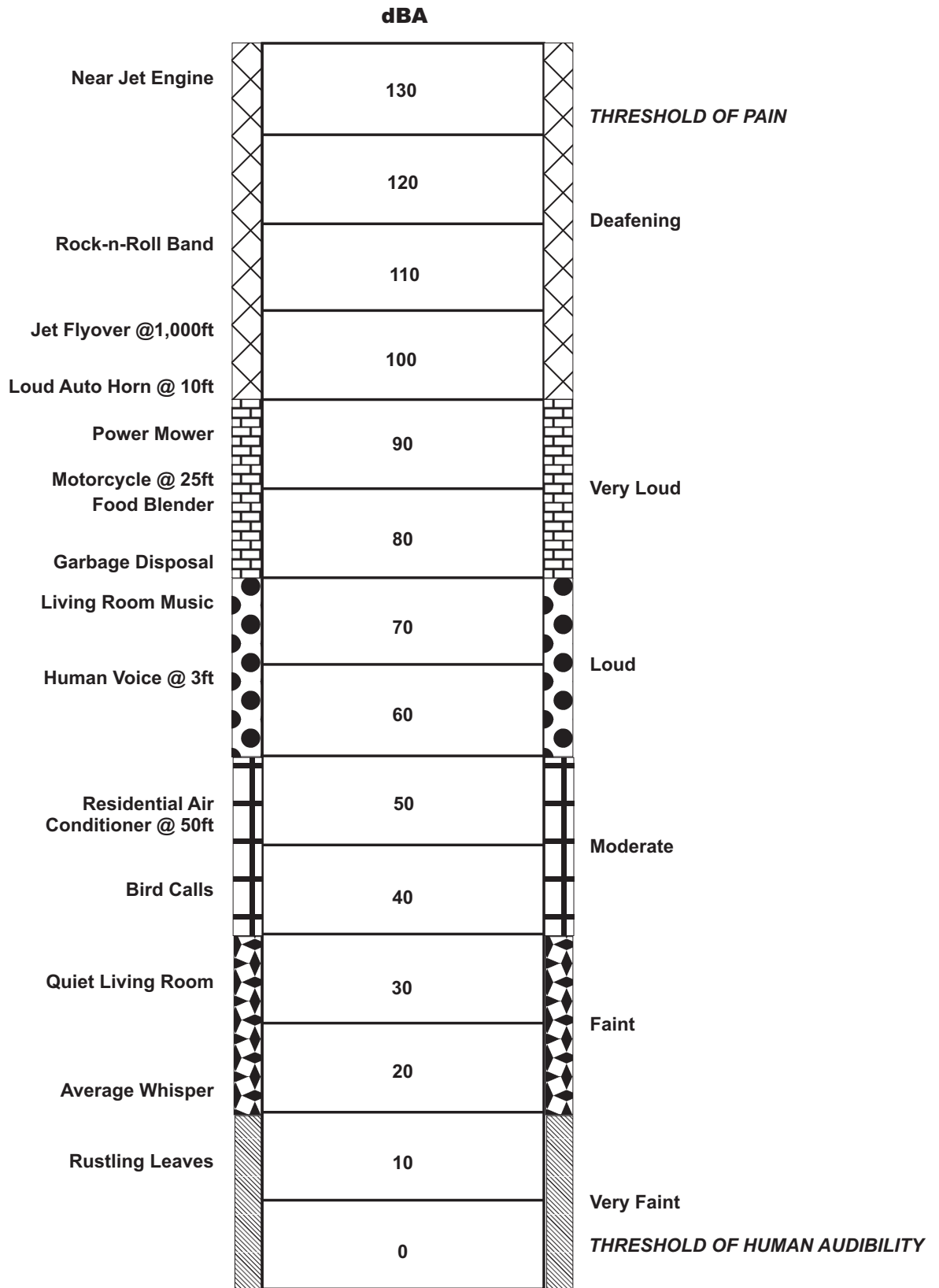
This noise analysis discusses sound levels in terms of Equivalent Noise Level (L_{eq}). L_{eq} is the average noise level on an energy basis for any specific time period. The L_{eq} for one hour is the energy average noise level during the hour. The average noise level is based on the energy content (acoustic energy) of the sound. L_{eq} can be thought of as the level of a continuous noise which has the same energy content as the fluctuating noise level. The equivalent noise level is expressed in units of dBA.

Effects of Noise

Noise is generally defined as unwanted sound. The degree to which noise can impact the human environment ranges from levels that interfere with speech and sleep (annoyance and nuisance) to levels that cause adverse health effects (hearing loss and psychological effects). Human response to noise is subjective and can vary greatly from person to person. Factors that influence individual response include the intensity, frequency, and pattern of noise, the amount of background noise present before the intruding noise, and the nature of work or human activity that is exposed to the noise source.

Audible Noise Changes

Studies have shown that the smallest perceptible change in sound level for a person with normal hearing sensitivity is approximately 3 dBA. A change of at least 5 dBA would be noticeable and would likely evoke a community reaction. A 10-dBA increase is subjectively heard as a doubling in loudness and would cause a community response.



SOURCE: Cowan, James P., *Handbook of Environmental Acoustics*

Noise levels decrease as the distance from the noise source to the receiver increases. Noise generated by a stationary noise source, or “point source,” will decrease by approximately 6 dBA over hard surfaces (e.g., reflective surfaces such as parking lots or smooth bodies of water) and 7.5 dBA over soft surfaces (e.g., absorptive surfaces such as soft dirt, grass, or scattered bushes and trees) for each doubling of the distance. For example, if a noise source produces a noise level of 89 dBA at a reference distance of 50 feet, then the noise level would be 83 dBA at a distance of 100 feet from the noise source, 77 dBA at a distance of 200 feet, and so on. Noise generated by a mobile source will decrease by approximately 3 dBA over hard surfaces and 4.5 dBA over soft surfaces for each doubling of the distance.

Generally, noise is most audible when traveling by direct line-of-sight.¹⁵ Barriers, such as walls, berms, or buildings that break the line-of-sight between the source and the receiver greatly reduce noise levels from the source since sound can only reach the receiver by bending over the top of the barrier (diffraction). Sound barriers can reduce sound levels by up to 20 dBA. However, if a barrier is not high or long enough to break the line-of-sight from the source to the receiver, its effectiveness is greatly reduced.

Applicable Regulations

The City of Los Angeles has established policies and regulations concerning the generation and control of noise that could adversely affect its citizens and noise sensitive land uses. Regarding construction, the Los Angeles Municipal Code (LAMC) indicates that no construction or repair work shall be performed between the hours of 9:00 p.m. and 7:00 a.m. the following day, since such activities would generate loud noises and disturb persons occupying sleeping quarters in any adjacent dwelling, hotel, apartment or other place of residence.¹⁶ No person, other than an individual home owner engaged in the repair or construction of his/her single-family dwelling, shall perform any construction or repair work of any kind or perform such work within 500 feet of land so occupied before 8:00 a.m. or after 6:00 p.m. on any Saturday or on a federal holiday, or at any time on any Sunday. Under certain conditions, the City may grant a waiver to allow limited construction activities to occur outside of the limits described above.

The LAMC also specifies the maximum noise level for the following powered equipment: crawler-tractors, dozers, rotary drills and augers, loaders, power shovels, cranes, derricks, motor graders, paving machines, off-highway trucks, ditchers, trenchers, compactors, scrapers, wagons, pavement breakers, compressors and pneumatic or other powered equipment.¹⁷ Powered equipment that produces a maximum noise level exceeding 75 dBA at a distance of 50 feet is prohibited.¹⁸ However, this noise limitation does not apply where compliance is technically infeasible. Technically infeasible means the above noise limitation cannot be met despite the use of mufflers, shields, sound barriers and/or any other noise reduction device or techniques during the operation of equipment.¹⁹

¹⁵Line-of-sight is an unobstructed visual path between the noise source and the noise receptor.

¹⁶LAMC, Chapter IV, Article 1, Section 41.40, January 29, 1984 and Chapter XI, Article 2, Section 112.04, August 8, 1996.

¹⁷LAMC, Chapter XI, Article 2, Section 112.05, August 8, 1996.

¹⁸The 75-dBA noise limit shall be deemed to be superseded and replaced by noise limits for such equipment from and after their establishment by final regulations adopted by the USEPA and published in the Federal Register.

¹⁹*Ibid.*

The City of Los Angeles has published significance thresholds to be used in noise analyses.²⁰ The significance thresholds, which are further discussed below, include thresholds for construction and operational noise levels.

4.1.2 Vibration

Characteristics of Vibration

Vibration is an oscillatory motion through a solid medium in which the motion's amplitude can be described in terms of displacement, velocity, or acceleration. Vibration can be a serious concern, causing buildings to shake and rumbling sounds to be heard. In contrast to noise, vibration is not a common environmental problem. It is unusual for vibration from sources such as buses and trucks to be perceptible, even in locations close to major roads. Some common sources of vibration are trains, buses on rough roads, and construction activities, such as blasting, pile driving, and heavy earth-moving equipment.

Vibration Definitions

There are several different methods that are used to quantify vibration. The peak particle velocity (PPV) is defined as the maximum instantaneous peak of the vibration signal. The PPV is most frequently used to describe vibration impacts to buildings and is usually measured in inches per second. The root mean square (RMS) amplitude is most frequently used to describe the effect of vibration on the human body. The RMS amplitude is defined as the average of the squared amplitude of the signal. Decibel notation (Vdb) is commonly used to measure RMS. The decibel notation acts to compress the range of numbers required to describe vibration.²¹

Effects of Vibration

High levels of vibration may cause physical personal injury or damage to buildings. However, ground-borne vibration levels rarely affect human health. Instead, most people consider ground-borne vibration to be an annoyance that may affect concentration or disturb sleep. In addition, high levels of ground-borne vibration may damage fragile buildings or interfere with equipment that is highly sensitive to ground-borne vibration (e.g., electron microscopes). To counter the effects of ground-borne vibration, the Federal Transit Administration (FTA) has published guidance relative to vibration impacts. According to the FTA, fragile buildings can be exposed to ground-borne vibration levels of 0.3 inches per second without experiencing structural damage.²²

Perceptible Vibration Changes

In contrast to noise, ground-borne vibration is not a phenomenon that most people experience every day. The background vibration velocity level in residential areas is usually 50 RMS or lower, well below the threshold of perception for humans which is around 65 RMS.²³ Most perceptible indoor vibration is caused by sources within buildings, such as operation of mechanical equipment, movement of people, or slamming of doors. Typical outdoor sources of

²⁰City of Los Angeles, *L.A. CEQA Thresholds Guide*, 2006.

²¹Federal Transit Administration, *Transit Noise and Vibration Impact Assessment*, May 2006.

²²*Ibid.*

²³*Ibid.*

perceptible ground-borne vibration are construction equipment, steel-wheeled trains, and traffic on rough roads. If the roadway is smooth, the vibration from traffic is rarely perceptible.

Applicable Regulations

There are no adopted City standards for ground-borne vibration.

4.2 EXISTING SETTING

4.2.1 Existing Noise Environment

Sound measurements were taken using a SoundPro DL Sound Level Meter between 11:30 a.m. and 1:00 p.m. on September 28, 2010 to determine existing ambient daytime off-peak noise levels in the project vicinity. These readings were used to establish existing ambient noise conditions and to provide a baseline for evaluating construction and operational noise impacts. Noise monitoring locations are shown in **Figure 4-2**. As shown in **Table 4-1**, existing ambient sound levels range between 41.7 and 65.2 dBA L_{eq} .

| TABLE 4-1: EXISTING NOISE LEVELS | | | |
|---|---|--|---|
| Key to Figure 4-2 | Noise Monitoring Location | Distance from Nearest Noise Source (feet) | Sound Level (dBA, L_{eq}) |
| 1 | Single-family residences on Park Row Street | 600 | 58.4 |
| 2 | Solano Avenue Elementary School | 925 | 60.8 |
| 3 | Elysian Park Recreation Area | 1,200 | 41.7 |
| 4 | Single-family residences on Riverside Drive | 70 | 65.2 |
| 5 | Single-family residences on Landa Street | 5,400 | 60.8 |
| 6 | Single-family residences on Riverside Drive | 4,300 | 56.8 |
| SOURCE: TAHA, 2010. | | | |

Elysian Reservoir

The existing noise environment at Elysian Reservoir is characterized by vehicular traffic along SR-110, and along Academy Road. Vehicular traffic is the primary source of noise and the existing noise level at the Reservoir is less than 58 dBA L_{eq} .

Inlet Line

The existing noise environment near the Inlet Line project area is characterized by vehicle traffic along Riverside Drive, and vehicles accessing the I-5. Vehicle traffic is the primary source of noise and the existing noise level at the Inlet Line construction site is approximately 57 dBA L_{eq} .

4.2.2 Existing Vibration Environment

There are no stationary sources of vibration located near the project site. Heavy-duty trucks can generate ground-borne vibrations that vary depending on vehicle type and weight, and pavement conditions. However, vibration levels from adjacent roadways are not typically perceptible at the project site.

4.2.3 Sensitive Receptors

Noise- and vibration-sensitive land uses are locations where people reside or where the presence of unwanted sound could adversely affect the use of the land. Residences, schools, hospitals, guest lodging, libraries, and some passive recreation areas would each be considered noise- and vibration-sensitive and may warrant unique measures for protection from intruding noise.

As shown in **Figure 3-3**, sensitive receptors include the following:

Elysian Reservoir

- Single-family residences along Park Row Street, located approximately 600 feet to the south
- Solano Avenue Elementary School, located approximately 925 feet to the southwest
- Elysian Park facilities, located approximately 1,200 feet to the west

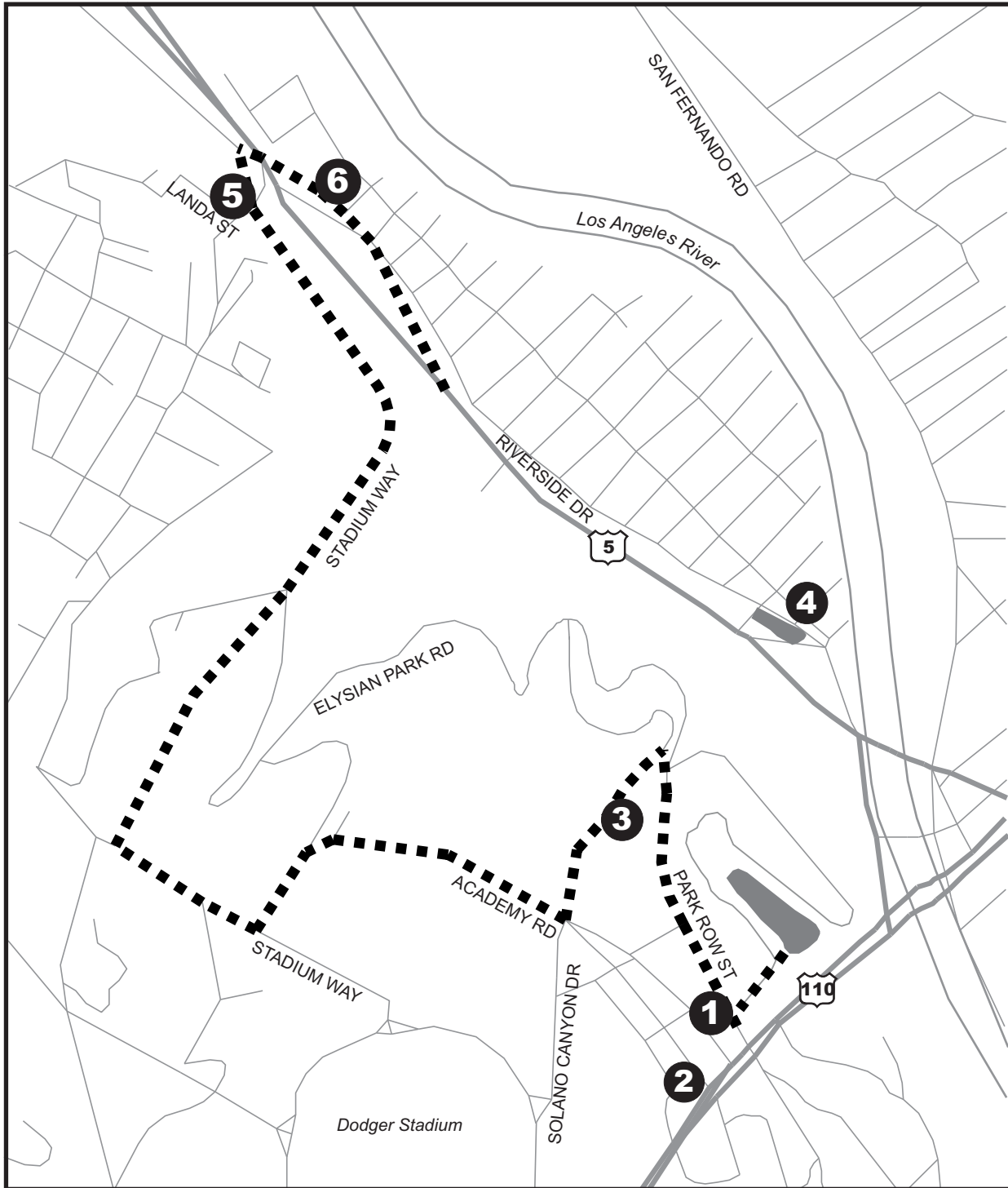
Inlet Line

- Single-family residences along Riverside Drive, located approximately 70 feet to the east

Haul Truck Route

- Single- and multi-family residences along Riverside Drive
- Single-family residences along Landa Street
- Barlow Respiratory Hospital along Stadium Way

The above sensitive receptors represent the nearest sensitive receptors with the potential to be impacted by the proposed project and alternatives. Additional sensitive receptors are located in the surrounding community within one-quarter mile of the project site and may be impacted by construction and operational activities.



LEGEND: Project Site  Haul Route 

Noise Monitoring Positions

- | | |
|--|--|
| 1. Single-Family Residences on Park Row Street | 4. Single-Family Residences on Riverside Drive |
| 2. Solano Avenue Elementary School | 5. Single-Family Residences on Landa Street |
| 3. Elysian Park Recreation Area | 6. Single-Family Residences on Riverside Drive |

SOURCE: TAHA, 2010



FIGURE 4-2

NOISE MONITORING POSITIONS

4.2.4 Vehicular Traffic

Vehicular traffic is the predominant noise source in the project vicinity. Using existing traffic volumes provided by the traffic consultant and the Traffic Noise Model Look-Up Program, the L_{eq} was calculated for various roadway segments in the project area. As shown in **Table 4-2**, existing peak-hour mobile noise levels range from 54.0 to 68.5 dBA L_{eq} . Modeled vehicle noise levels are typically lower than the noise measurements along similar roadway segments as modeled noise levels do not take into account additional noise sources (e.g., sirens, horns, helicopters, etc.).

| TABLE 4-2: EXISTING ESTIMATED MOBILE SOURCE NOISE LEVELS | |
|---|--|
| Roadway Segment | Estimated L_{eq} (dBA) |
| Park Row Street between Grand Drive and SR-110 | 54.4 |
| Solano Canyon Drive between Park Row Drive and Academy Road | 54.0 |
| Academy Road between Solano Canyon Drive and Stadium Way | 61.3 |
| Stadium Way between Elysian Park Drive and Landa Street | 67.0 |
| Riverside Drive between Gail Street and Eads Street | 68.5 |
| Riverside Drive between Oros Street and I-5 Ramps | 67.4 |
| SOURCE: TAHA, 2010. | |

4.3 METHODOLOGY AND SIGNIFICANCE CRITERIA

4.3.1 Methodology

The noise analysis considers construction, operational, and vibration sources. Construction noise levels are based on information obtained from the *L.A. CEQA Thresholds Guide*.²⁴ The noise level during the construction period at each receptor location was calculated by (1) making a distance adjustment to the construction source sound level and (2) logarithmically adding the adjusted construction noise source level to the ambient noise level. Operational noise levels were calculated based on information provided in the traffic study and stationary noise sources located on the project site (e.g., mechanical equipment). Vibration levels were estimated based on information provided by the FTA.²⁵

4.3.2 Noise Significance Criteria

Construction Phase Significance Criteria

The proposed project and alternatives would result in a significant construction noise impact if:

- Construction activities lasting more than one day would exceed existing ambient noise levels by 10 dBA or more at a noise sensitive use;
- Construction activities lasting more than ten days in a three-month period would exceed existing ambient noise levels by 5 dBA or more at a noise sensitive use; and/or

²⁴City of Los Angeles, *L.A. CEQA Thresholds Guide*, 2006.

²⁵Federal Transit Administration, *Transit Noise and Vibration Impact Assessment*, May 2006.

- Construction activities would exceed the ambient noise level by 5 dBA at a noise sensitive use between the hours of 9:00 p.m. and 7:00 a.m. Monday through Friday, before 8:00 a.m. or after 6:00 p.m. on Saturday, or anytime on Sunday.

Operational Phase Significance Criteria

The proposed project and alternatives would result in a significant operational noise impact if:

- Mobile noise causes a 10-dBA or more increase in noise level; and/or
- Stationary noise causes a 5-dBA or more increase in noise level.

4.3.3 Ground-borne Vibration Significance Criteria

There are no adopted State or City of Los Angeles ground-borne vibration standards. Based on federal guidelines, the proposed project and alternatives would result in a significant vibration impact if:

- Construction and operational activity would expose buildings to the FTA building damage threshold level of 0.3 inches per second.

4.4 ENVIRONMENTAL IMPACTS

4.4.1 Noise Impacts

Construction Phase Noise Impacts

Construction activity would result in temporary increases in ambient noise levels in the project area on an intermittent basis. Noise levels would fluctuate depending on the construction phase, equipment type and duration of use, distance between the noise source and receptor, and presence or absence of noise attenuation barriers. Typical noise levels from various types of equipment that may be used during construction are listed in **Table 4-3**. The table shows noise levels at distances of 50 and 100 feet from the construction noise source.

| TABLE 4-3: MAXIMUM NOISE LEVELS OF COMMON CONSTRUCTION MACHINES | | |
|--|--------------------------|---------------------|
| Noise Source | Noise Level (dBA) | |
| | 50 Feet | 100 Feet /a/ |
| Front Loader | 80 | 72.5 |
| Trucks | 89 | 81.5 |
| Cranes (derrick) | 88 | 80.5 |
| Jackhammers | 90 | 82.5 |
| Generators | 77 | 69.5 |
| Back Hoe | 84 | 76.5 |
| Tractor | 88 | 80.5 |
| Scraper/Grader | 87 | 79.5 |
| Paver | 87 | 79.5 |
| Impact Pile Driving | 101 | 93.5 |
| Auger Drilling | 77 | 69.5 |

*/a/ Assumed a soft-site attenuation rate of 7.5 dB for every doubling of distance.
SOURCE: City of Los Angeles, L.A. CEQA Thresholds Guide, 2006.*

The noise levels shown in **Table 4-4** take into account the likelihood that more than one piece of construction equipment would be in operation at the same time and lists the typical overall noise levels that would be expected for each phase of construction. The highest noise levels are expected to occur during the grading/excavation and finishing phases of construction. A typical piece of noisy equipment is assumed to be active for 40 percent of the eight-hour workday (consistent with the USEPA studies of construction noise), generating a noise level of 89 dBA L_{eq} at a reference distance of 50 feet.

| TABLE 4-4: TYPICAL OUTDOOR CONSTRUCTION NOISE LEVELS | |
|---|-------------------------------------|
| Construction Phase | Noise Level At 50 Feet (dBA) |
| Ground Clearing | 84 |
| Grading/Excavation | 89 |
| Foundations | 78 |
| Structural | 85 |
| Finishing | 89 |

SOURCE: City of Los Angeles, L.A. CEQA Thresholds Guide, 2006.

General Construction Noise

Table 4-5 presents the estimated noise levels at sensitive receptors during construction activity. Construction activity associated with the Buried Cover Alternative would generally be more intense than the other alternatives. However, the proposed project and alternatives would use similar construction equipment, and maximum construction noise would be the same for each alternative. Construction noise levels related to the Reservoir construction site would exceed the 5-dBA significance threshold at single-family residences located along Park Row Street. Construction noise levels related to the Inlet Line construction site would exceed the 5-dBA significance threshold at single-family residences located along Riverside Drive. Therefore, the proposed project and alternatives would result in a significant impact related to construction noise without mitigation.

| TABLE 4-5: CONSTRUCTION NOISE LEVELS | | | | | |
|---|----------------------------|---|--|---|-----------------|
| Sensitive Receptor | Distance (feet) /a/ | Maximum Construction Noise Level (dBA) /b/ | Existing Ambient (dBA, L_{eq}) /c/ | New Ambient (dBA, L_{eq}) /d/ | Increase |
| Reservoir Construction | | | | | |
| Single-Family Residences on Park Row Street | 600 | 62.0 | 58.4 | 63.6 | 5.2 |
| Solano Avenue Elementary School | 925 | 57.3 | 60.8 | 62.4 | 1.6 |
| Elysian Park Recreation Area | 1,200 | 44.5 | 41.7 | 46.3 | 4.6 |
| Inlet Line Construction | | | | | |
| Single-Family Residences on Riverside Drive | 70 | 86.1 | 65.2 | 86.1 | 20.9 |

/a/ Distance of noise source from receptor.
 /b/ Construction noise source's sound level at receptor location with distance adjustment.
 /c/ Pre-construction activity ambient sound level at receptor location.
 /d/ New sound level at receptor location during the construction period, including noise from construction activity.
 /e/ An incremental noise level increase of 5 dBA or more would result in a significant impact.
SOURCE: TAHA, 2010.

Off-Site Haul Truck Noise

Haul trucks for each alternative would utilize a road running from the Reservoir to Park Row Street for the construction activities associated with the Reservoir. For the construction associated with the inlet line, trucks would park on Riverside Drive, and would use Riverside Drive as a haul route. The nearest sensitive land use to the Reservoir haul road would be a residences located on Park Row Street. The residences along Riverside Drive would represent the nearest sensitive receptors to the inlet line on-site truck noise. The Buried Cover Alternative would generate 32 peak hour truck trips, the Floating Cover Alternative would generate 8 peak hour truck trips, and the Aluminum Cover Alternative would generate 15 peak hour truck trips. The inlet line would create an additional 19 peak daily trips and 4 peak hour trips. **Table 4-6** presents the estimated noise levels at sensitive receptors located along the haul route. The Buried Concrete and Aluminum Cover Alternatives would exceed the 5-dBA significance threshold at Solano Canyon Drive between Academy Road and Park Row and at Park Row Street between Solano Canyon Drive and SR-110 Ramp. Therefore, the Buried Concrete and Aluminum Cover Alternatives would result in a significant impact related to off-site haul truck noise without mitigation.

| TABLE 4-6: OFF-SITE CONSTRUCTION HAUL TRUCK NOISE LEVELS | | | |
|---|---|---|---|
| Scenario and Roadway Segment | Baseline (dBA, L_{eq}) | Construction (dBA, L_{eq}) | Increase (dBA, L_{eq}) |
| Buried Cover Alternative | | | |
| Stadium Way between Landa Street and Elysian Park Drive | 68.1 | 68.7 | 0.6 |
| Stadium Way between Elysian Park Drive and Academy Road | 68.3 | 68.8 | 0.5 |
| Academy Road between Boylston Street and Dodger Stadium | 63.2 | 64.8 | 1.6 |
| Academy Road west of Solano Canyon Drive | 62.0 | 64.0 | 2.0 |
| Solano Canyon Drive between Academy Road and Park Row Drive | 54.0 | 60.7 | 6.7 |
| Park Row Drive/Street between Solano Canyon Drive and SR-110 Ramp | 54.4 | 60.8 | 6.4 |
| Riverside Drive between Gail Street and Eads Street | 69.2 | 69.7 | 0.5 |
| Riverside Drive between Oros Street and I-5 | 68.6 | 68.7 | 0.1 |
| Floating Cover Alternative | | | |
| Stadium Way between Landa Street and Elysian Park Drive | 67.9 | 68.2 | 0.3 |
| Stadium Way between Elysian Park Drive and Academy Road | 68.1 | 68.4 | 0.3 |
| Academy Road between Boylston Street and Dodger Stadium | 63.0 | 63.8 | 0.8 |
| Academy Road west of Solano Canyon Drive | 61.9 | 62.8 | 0.9 |
| Solano Canyon Drive between Academy Road and Park Row Drive | 54.0 | 57.9 | 3.9 |
| Park Row Drive/Street between Solano Canyon Drive and SR-110 Ramp | 54.4 | 58.1 | 3.7 |
| Riverside Drive between Gail Street and Eads Street | 69.1 | 69.2 | 0.1 |
| Riverside Drive between Oros Street and I-5 | 68.4 | 68.6 | 0.2 |
| Aluminum Cover Alternative | | | |
| Stadium Way between Landa Street and Elysian Park Drive | 67.9 | 68.4 | 0.5 |
| Stadium Way between Elysian Park Drive and Academy Road | 68.1 | 68.6 | 0.5 |
| Academy Road between Boylston Street and Dodger Stadium | 63.0 | 64.4 | 1.4 |
| Academy Road west of Solano Canyon Drive | 61.9 | 63.6 | 1.7 |
| Solano Canyon Drive between Academy Road and Park Row Drive | 54.0 | 60.0 | 6.0 |
| Park Row Drive/Street between Solano Canyon Drive and SR-110 Ramp | 54.4 | 60.1 | 5.7 |
| Riverside Drive between Gail Street and Eads Street | 69.1 | 69.4 | 0.3 |
| Riverside Drive between Oros Street and I-5 | 68.4 | 68.6 | 0.2 |
| SOURCE: TAHA, 2010. | | | |

Construction Phase Noise Mitigation Measures

- N1** All mobile construction equipment shall be equipped with properly operating mufflers or other noise reduction devices.
- N2** Grading and construction contractors shall use quieter equipment as opposed to noisier equipment (such as rubber-tired equipment rather than metal-tracked equipment).
- N3** The construction contractor shall use on-site electrical sources to power equipment rather than diesel generators where feasible.
- N4** The construction contractor will be required to implement the use of sound blankets on the perimeter of the Inlet Line property line. The sound blankets shall be at least 15 feet high, and capable of blocking at least 15 dB of construction noise. The blankets shall be placed such that the line-of-sight between ground-level construction activity and sensitive land uses is blocked.

Impacts After Mitigation

General Construction Noise. Mitigation Measure **N1** would reduce on-site construction noise levels by at least 3 dBA. While difficult to quantify, Mitigation Measures **N2** and **N3** would assist in attenuating construction noise levels. As shown in **Table 4-7**, mitigated construction noise levels at sensitive receptors near the Reservoir construction site would not exceed the 5-dBA significance threshold at single-family residences located along Park Row Street. Therefore, the proposed project and alternatives would result in a less-than-significant impact related to general construction noise at the Elysian Reservoir construction site.

| TABLE 4-7: MITIGATED CONSTRUCTION NOISE LEVELS | | | | | |
|--|----------------------------|---|---|--|-----------------|
| Sensitive Receptor | Distance (feet) /a/ | Maximum Construction Noise Level (dBA) /b/ | Existing Ambient (dBA, L_{eq}) /c/ | New Ambient (dBA, L_{eq}) /d/ | Increase |
| Reservoir Construction | | | | | |
| Single-Family Residences on Park Row Street | 600 | 59.0 | 58.4 | 61.7 | 3.3 |
| Solano Avenue Elementary School | 925 | 54.3 | 60.8 | 61.7 | 0.9 |
| Elysian Park Recreation Area | 1,200 | 41.5 | 41.7 | 44.6 | 2.9 |
| Inlet Line Construction | | | | | |
| Single-Family Residences on Riverside Drive | 70 | 68.1 | 65.2 | 69.9 | 4.7 |
| /a/ Distance of noise source from receptor. /b/ Construction noise source's sound level at receptor location with distance adjustment. /c/ Pre-construction activity ambient sound level at receptor location. /d/ New sound level at receptor location during the construction period, including noise from construction activity. /e/ An incremental noise level increase of 5 dBA or more would result in a significant impact. SOURCE: TAHA, 2010. | | | | | |

Mitigation Measure **N4** would reduce equipment noise at the residences along Riverside Drive by 15 dBA. As shown in **Table 4-7**, mitigated construction noise levels at sensitive receptors near the Inlet construction site would not exceed the 5-dBA significance threshold at single-family residences located Riverside Drive. It is acknowledged that trucks arriving and departing

the Inlet Line construction site would generate audible noise at the nearby sensitive receptors. However, truck activity would be short-term and intermittent (i.e., approximately three trucks per hour) and associated noise levels are not considered to be significant. Therefore, the proposed project and alternatives would result in a less-than-significant impact related to general construction noise at the Inlet Line construction site.

Haul Truck Noise. There are no feasible mitigation measures to reduce on-road haul truck noise. The Applicant cannot install noise control devices on private vehicles and a sound wall is infeasible because residential driveways would make the barrier noncontiguous. Therefore, the proposed project and alternatives would result in a significant and unavoidable impact related to haul truck noise.

Operational Phase Noise Impacts

Vehicular Noise. Alternative 1 is the only alternative that involves an increase in traffic volumes. This increase would result from public access to the project site which would not be included in Alternatives 2 and 3. Alternative 1 would generate 188 peak hour trips. As shown in **Table 4-8**, the greatest project-related noise increase would be 5.8 dBA L_{eq} along Solano Canyon Drive between Academy Road and Elysian Park Drive and Park Row Street between Elysian Park Drive and I-110 Ramp. This would not exceed the 10-dBA operational mobile source significance threshold. Therefore, the proposed project and alternatives would result in a less-than-significant impact related to vehicular noise.

| TABLE 4-8: OPERATIONAL MOBILE SOURCE NOISE LEVELS | | | |
|---|---|----------------|-----------------------|
| Roadway Segment | Estimated dBA, L_{eq} | | |
| | No Project | Project | Project Impact |
| Riverside Drive between Elmgrove and Harwood Streets | 68.4 | 68.9 | 0.5 |
| Stadium Way between Landa Street and Elysian Park Drive | 68.1 | 68.6 | 0.5 |
| Stadium Way between Elysian Park Drive and Academy Road | 68.3 | 68.7 | 0.4 |
| Academy Road between Boylston Street and Dodger Stadium | 63.2 | 64.6 | 1.4 |
| Academy Road west of Solano Canyon Drive | 62.0 | 63.7 | 1.7 |
| Solano Canyon Drive between Academy Road and Park Row Drive | 54.0 | 59.8 | 5.8 |
| Park Row Drive/Street between Solano Canyon Drive and SR-110 Ramp | 54.4 | 60.2 | 5.8 |
| Riverside Drive between Gail Street and Eads Street | 69.2 | 69.6 | 0.4 |
| Riverside Drive between Oros Street and I-5 | 68.6 | 69.0 | 0.4 |

SOURCE: TAHA, 2010.

Outdoor Activity Noise. The project site would include an outdoor recreation area under Alternative 1. The closest sensitive receptors to outdoor activity areas include the residential land uses adjacent to the project site. Outdoor activity could include athletes, skateboarders, children, joggers and other similar uses and support buildings. Athletic activity would generate a noise level of approximately 74 dBA L_{eq} at a distance of 50 feet.²⁶ The nearest sensitive receptor to the recreation area would be the residences on Park Row Street. These residences would experience a 0.3 dBA L_{eq} increase as a result of recreational activities. The nearby sensitive uses would experience ambient noise level increases well below the 5-dBA threshold from outdoor activity. Therefore, Alternative 1 would result in a less-than-significant impact related to outdoor activity noise.

²⁶LAUSD, *Central Los Angeles Area New Middle School #1, Draft EIR*, June 2002.

Alternatives 2 and 3 would not include recreational activities, and outdoor activity noise would also result in a less-than-significant impact.

Parking Noise. Alternative 1 would include 200 parking spaces for use of the recreational facilities. Automobile parking activity typically generates a noise level of approximately 58.1 dBA L_{eq} at 50 feet (e.g., tire noise and horns).²⁷ The monitored noise level along Park Row Street was 56.3 dBA L_{eq} . The ambient noise level increase would be less than 0.1 dBA. Therefore, Alternative 1 would result in a less-than-significant impact related to parking noise.

Alternatives 2 and 3 would not include generate traffic and associated parking noise, and parking activity noise would also result in a less-than-significant impact.

Aluminum Cover Noise. Alternative 3 would include an aluminum cover. The aluminum cover would not typically be a noise source. However, raindrops would create noise when contacting the aluminum cover during inclement weather. This noise would not be audible at sensitive receptors given the distance between the receptors and the aluminum cover and the localized background noise levels created by rainstorms (e.g., wind). The aluminum cover would result in a less-than-significant noise impact.

Operational Phase Noise Mitigation Measures

Operational noise impacts would be less than significant, and no mitigation measures are required.

Impacts After Mitigation

The operational noise from the proposed project and alternatives would result in a less-than-significant impact without mitigation.

4.4.2 Ground-borne Vibration Impacts

Construction Phase Ground-borne Vibration Impacts

General Construction Activity. As shown in **Table 4-9**, use of heavy equipment (e.g., a large bulldozer) generates vibration levels of 0.089 inches per second at a distance of 25 feet. In addition, there will be added truck traffic to the haul route exiting the project site; however, truck vibration is not typically perceptible. The nearest residential structures to the Inlet Line site would be residential housing on Riverside Drive located approximately 70 feet from occasional heavy equipment activity, and would experience vibration levels of approximately 0.02 inches per second. The nearest residential structures to the Elysian Reservoir site would be residential housing on Park Row Street located approximately 600 feet from occasional heavy equipment activity, and would experience vibration levels of approximately 0.001 inches per second. Vibration levels at these receptors would not exceed the potential building damage threshold of 0.3 inches per second. Therefore, the proposed project and alternatives would result in a less-than-significant impact related to construction vibration.

²⁷The reference parking noise level is based on a series of noise measurements completed 50 feet from vehicles accessing a multi-level parking structure.

| TABLE 4-9: VIBRATION VELOCITIES FOR CONSTRUCTION EQUIPMENT | |
|---|---|
| Equipment | PPV at 25 feet (Inches/Second) /a/ |
| Large Bulldozer | 0.089 |
| Loaded Trucks | 0.076 |
| /a/ Fragile buildings can be exposed to ground-borne vibration levels of 0.5 inches per second without experiencing structural damage. SOURCE: Federal Transit Administration, <i>Transit Noise and Vibration Impact Assessment</i> , May 2006. | |

Construction Phase Ground-borne Vibration Mitigation Measures

Construction phase ground-borne vibration impacts would be less than significant, and no mitigation measures are required.

Impacts After Mitigation

Not applicable. Construction phase ground-borne vibration impacts would result in a less-than-significant impact without mitigation.

Operational Phase Ground-borne Vibration Impacts

The proposed project and alternatives would not include significant stationary sources of ground-borne vibration, such as heavy equipment operations. Operational ground-borne vibration in the project vicinity would be generated by vehicular travel on the local roadways. However, similar to existing conditions, project-related traffic vibration levels would not be perceptible by sensitive receptors. Therefore, the proposed project and alternatives would result in a less-than-significant impact related to operational vibration.

Operational Phase Ground-borne Vibration Mitigation Measures

Operational ground-borne vibration impacts would be less than significant, and no mitigation measures are required.

Impacts After Mitigation

Not applicable. The project-related operational ground-borne vibration would result in a less-than-significant impact without mitigation.

4.5 CUMULATIVE IMPACTS

When calculating future traffic impacts, the traffic consultant took nine additional projects into consideration. Thus, the future traffic results without and with the proposed project already account for the cumulative impacts from these other projects. Since the noise impacts are generated directly from the traffic analysis results, the future without project and future with project noise impacts described in this report already reflect cumulative impacts.

As shown in **Table 4-10**, the greatest cumulative noise increase would be 5.8 dBA L_{eq} along Solano Canyon Drive between Academy Road and Elysian Park Drive and Park Row Street between Elysian Park Drive and I-110 Ramp. This would not exceed the 10-dBA significance threshold. Therefore, the proposed project and alternatives would not contribute to a cumulatively considerable impact related to mobile source noise.

| TABLE 4-10: ESTIMATED CUMULATIVE MOBILE SOURCE NOISE LEVELS | | | |
|--|--|----------------|--------------------------|
| Roadway Segment | Estimated dBA, L_{eq} /b/ | | |
| | Existing | Project | Cumulative Impact |
| Riverside Drive between Elmgrove and Harwood Streets | 67.8 | 68.9 | 1.1 |
| Stadium Way between Landa Street and Elysian Park Drive | 67.0 | 68.6 | 1.6 |
| Stadium Way between Elysian Park Drive and Academy Road | 67.3 | 68.7 | 1.4 |
| Academy Road between Boylston Street and Dodger Stadium | 61.2 | 64.6 | 3.4 |
| Academy Road west of Solano Canyon Drive | 61.3 | 63.7 | 2.4 |
| Solano Canyon Drive between Academy Road and Park Row Drive | 54.0 | 59.8 | 5.8 |
| Park Row Drive/Street between Solano Canyon Drive and SR-110 Ramp | 54.4 | 60.2 | 5.8 |
| Riverside Drive between Gail Street and Eads Street | 68.5 | 69.6 | 1.1 |
| Riverside Drive between Oros Street and I-5 | 67.4 | 69.0 | 1.6 |

SOURCE: TAHA, 2010.

The predominant vibration source near the project site is heavy trucks traveling on the local roadways. Neither the proposed project nor related projects would substantially increase heavy-duty vehicle traffic near the project site and would not cause a substantial increase in heavy-duty trucks on local roadways. The proposed project would not contribute to a cumulatively considerable impact related to vibration.

Appendix A

Wind and Climate Information

LOS ANGELES CIVIC CENTE, CALIFORNIA

Period of Record General Climate Summary - Precipitation

| Station:(045115) LOS ANGELES CIVIC CENTE | | | | | | | | | | | | | | |
|--|---------------|-------|------|------|------|--------------------------|-------------|-------------|-------------|-------------|------|----------------|------|------|
| From Year=1906 To Year=2010 | | | | | | | | | | | | | | |
| | Precipitation | | | | | | | | | | | Total Snowfall | | |
| | Mean | High | Year | Low | Year | 1 Day Max. | >= 0.01 in. | >= 0.10 in. | >= 0.50 in. | >= 1.00 in. | Mean | High | Year | |
| | in. | in. | - | in. | - | in. dd/yyyy or yyyyymmdd | # Days | # Days | # Days | # Days | in. | in. | - | |
| January | 3.24 | 14.94 | 1969 | 0.00 | 1948 | 5.71 | 26/1956 | 6 | 5 | 2 | 1 | 0.0 | 0.3 | 1949 |
| February | 3.41 | 13.68 | 1998 | 0.00 | 1912 | 4.80 | 24/1913 | 6 | 5 | 2 | 1 | 0.0 | 0.0 | 1949 |
| March | 2.39 | 8.37 | 1983 | 0.00 | 1931 | 5.88 | 02/1938 | 6 | 4 | 2 | 1 | 0.0 | 0.0 | 1949 |
| April | 1.02 | 7.53 | 1926 | 0.00 | 1909 | 2.74 | 05/1926 | 4 | 2 | 1 | 0 | 0.0 | 0.2 | 1950 |
| May | 0.25 | 3.57 | 1921 | 0.00 | 1923 | 2.02 | 08/1977 | 1 | 1 | 0 | 0 | 0.0 | 0.0 | 1949 |
| June | 0.07 | 0.98 | 1999 | 0.00 | 1908 | 0.76 | 05/1993 | 1 | 0 | 0 | 0 | 0.0 | 0.0 | 1913 |
| July | 0.01 | 0.18 | 1986 | 0.00 | 1907 | 0.60 | 25/1906 | 0 | 0 | 0 | 0 | 0.0 | 0.0 | 1948 |
| August | 0.05 | 2.26 | 1977 | 0.00 | 1907 | 2.06 | 17/1977 | 0 | 0 | 0 | 0 | 0.0 | 0.0 | 1948 |
| September | 0.28 | 5.67 | 1939 | 0.00 | 1907 | 3.96 | 25/1939 | 1 | 1 | 0 | 0 | 0.0 | 0.0 | 1948 |
| October | 0.46 | 4.56 | 2004 | 0.00 | 1913 | 1.72 | 17/1934 | 2 | 1 | 0 | 0 | 0.0 | 0.0 | 1948 |
| November | 1.26 | 9.68 | 1965 | 0.00 | 1907 | 3.85 | 07/1966 | 3 | 2 | 1 | 0 | 0.0 | 0.0 | 1948 |
| December | 2.34 | 8.77 | 2004 | 0.00 | 1912 | 5.55 | 28/2004 | 5 | 4 | 2 | 1 | 0.0 | 0.0 | 1948 |
| Annual | 14.78 | 34.04 | 1983 | 3.85 | 1953 | 5.88 | 19380302 | 36 | 23 | 10 | 4 | 0.0 | 0.3 | 1949 |
| Winter | 9.00 | 29.11 | 2005 | 1.19 | 1924 | 5.71 | 19560126 | 18 | 13 | 6 | 3 | 0.0 | 0.3 | 1949 |
| Spring | 3.65 | 13.89 | 1983 | 0.00 | 1997 | 5.88 | 19380302 | 11 | 7 | 2 | 1 | 0.0 | 0.2 | 1950 |
| Summer | 0.12 | 2.26 | 1977 | 0.00 | 1912 | 2.06 | 19770817 | 1 | 0 | 0 | 0 | 0.0 | 0.0 | 1949 |
| Fall | 2.00 | 11.48 | 1965 | 0.00 | 1980 | 3.96 | 19390925 | 6 | 4 | 1 | 0 | 0.0 | 0.0 | 1948 |

Table updated on Aug 27, 2010

For monthly and annual means, thresholds, and sums:

Months with 5 or more missing days are not considered

Years with 1 or more missing months are not considered

Seasons are climatological not calendar seasons

Winter = Dec., Jan., and Feb. Spring = Mar., Apr., and May

Summer = Jun., Jul., and Aug. Fall = Sep., Oct., and Nov.

Western Regional Climate Center, wrcc@dri.edu

LOS ANGELES CIVIC CENTE, CALIFORNIA

Period of Record General Climate Summary - Temperature

| Station:(045115) LOS ANGELES CIVIC CENTE | | | | | | | | | | | | | |
|--|------------------|------|------|----------------|---------------------------|-----|---------------------------|------------------|------|-------------|------|------------|------|
| From Year=1906 To Year=2010 | | | | | | | | | | | | | |
| | Monthly Averages | | | Daily Extremes | | | | Monthly Extremes | | | | Max. Temp. | |
| | Max. | Min. | Mean | High | Date | Low | Date | Highest Mean | Year | Lowest Mean | Year | >= 90 F | < 32 |
| | F | F | F | F | dd/yyyy or yyyymmdd | F | dd/yyyy or yyyymmdd | F | - | F | - | # Days | # Da |
| January | 66.3 | 48.3 | 57.3 | 95 | 18/1971 | 28 | 07/1913 | 65.9 | 1986 | 46.9 | 1949 | 0.1 | 0 |
| February | 67.3 | 49.6 | 58.5 | 95 | 20/1995 | 25 | 19/1911 | 65.3 | 1995 | 51.9 | 1911 | 0.1 | 0 |
| March | 68.8 | 51.1 | 60.0 | 98 | 26/1988 | 35 | 04/1976 | 66.0 | 1931 | 54.6 | 1945 | 0.2 | 0 |
| April | 71.0 | 53.4 | 62.2 | 106 | 06/1989 | 39 | 07/1975 | 69.6 | 1992 | 56.0 | 1975 | 0.8 | 0 |
| May | 72.9 | 56.5 | 64.7 | 102 | 16/1967 | 40 | 12/1933 | 72.6 | 1997 | 58.7 | 1917 | 0.9 | 0 |
| June | 77.0 | 59.7 | 68.3 | 112 | 26/1990 | 49 | 01/1917 | 77.4 | 1981 | 63.4 | 1944 | 1.3 | 0 |
| July | 82.3 | 63.2 | 72.7 | 107 | 01/1985 | 53 | 17/1907 | 79.9 | 2006 | 66.6 | 1944 | 3.2 | 0 |
| August | 83.1 | 63.8 | 73.4 | 105 | 06/1983 | 52 | 25/1909 | 80.8 | 1983 | 68.1 | 1914 | 4.0 | 0 |
| September | 81.8 | 62.6 | 72.2 | 110 | 01/1955 | 50 | 22/1921 | 81.3 | 1984 | 64.6 | 1933 | 4.9 | 0 |
| October | 77.6 | 58.7 | 68.1 | 108 | 03/1987 | 41 | 30/1971 | 74.2 | 1983 | 59.7 | 1916 | 3.1 | 0 |
| November | 72.8 | 53.3 | 63.1 | 100 | 01/1966 | 37 | 28/1919 | 68.9 | 1932 | 57.9 | 1906 | 0.8 | 0 |
| December | 67.4 | 49.1 | 58.2 | 92 | 08/1938 | 30 | 08/1978 | 64.2 | 1939 | 52.6 | 1916 | 0.0 | 0 |
| Annual | 74.0 | 55.8 | 64.9 | 112 | 19900626 | 25 | 19110219 | 68.9 | 1981 | 60.9 | 1916 | 19.4 | 0 |
| Winter | 67.0 | 49.0 | 58.0 | 95 | 19710118 | 25 | 19110219 | 63.3 | 1986 | 51.0 | 1949 | 0.2 | 0 |
| Spring | 70.9 | 53.7 | 62.3 | 106 | 19890406 | 35 | 19760304 | 67.8 | 1997 | 57.8 | 1917 | 1.9 | 0 |
| Summer | 80.8 | 62.2 | 71.5 | 112 | 19900626 | 49 | 19170601 | 77.6 | 1981 | 66.4 | 1916 | 8.5 | 0 |
| Fall | 77.4 | 58.2 | 67.8 | 110 | 19550901 | 37 | 19191128 | 72.2 | 1983 | 61.4 | 1916 | 8.8 | 0 |

Table updated on Aug 27, 2010

For monthly and annual means, thresholds, and sums:
 Months with 5 or more missing days are not considered
 Years with 1 or more missing months are not considered
 Seasons are climatological not calendar seasons

Winter = Dec., Jan., and Feb. Spring = Mar., Apr., and May
 Summer = Jun., Jul., and Aug. Fall = Sep., Oct., and Nov.

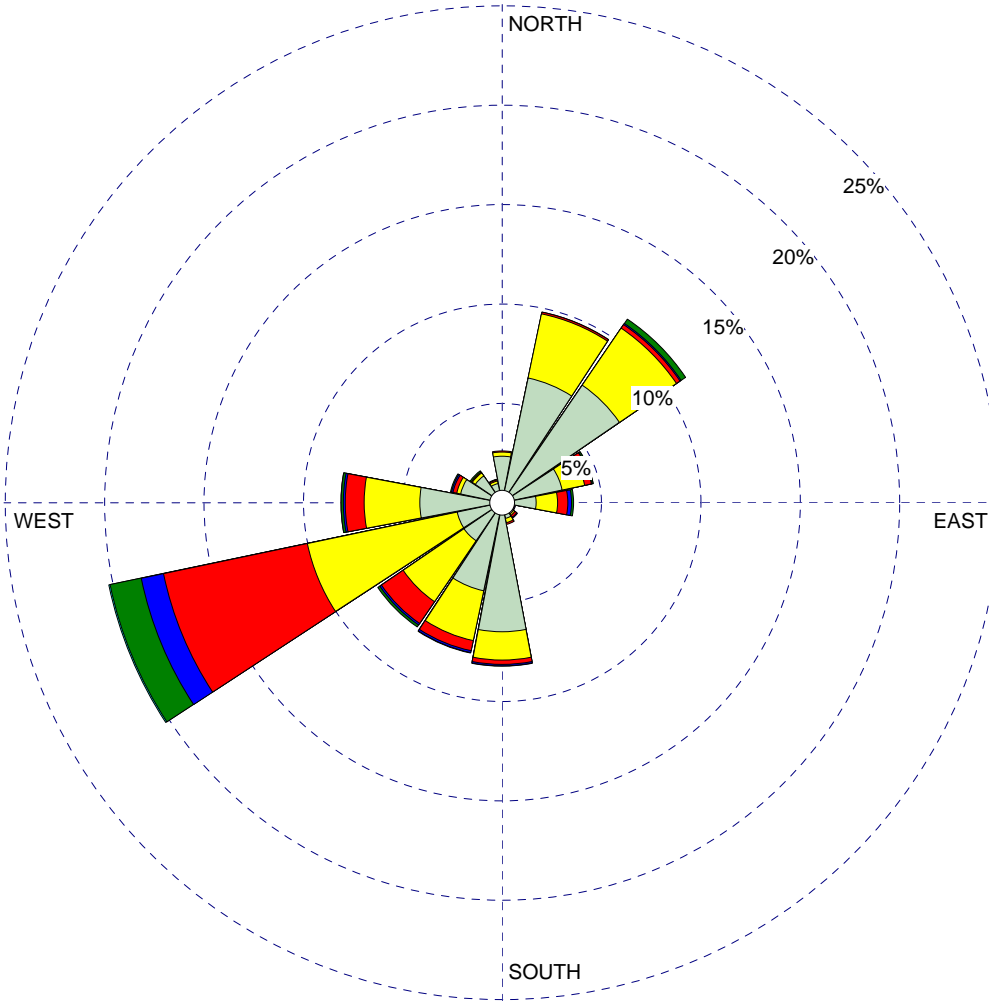
Western Regional Climate Center, wrcc@dri.edu

WIND ROSE PLOT:

Elysian Reservoir

DISPLAY:

**Wind Speed
Direction (blowing from)**



**WIND SPEED
(m/s)**

- >= 11.1
 - 8.8 - 11.1
 - 5.7 - 8.8
 - 5.4 - 5.7
 - 3.6 - 5.4
 - 2.1 - 3.6
 - 0.5 - 2.1
- Calms: 7.90%

COMMENTS:

DATA PERIOD:

**1981
Jan 1 - Dec 31
00:00 - 23:00**

COMPANY NAME:

TAHA

MODELER:

CALM WINDS:

7.90%

TOTAL COUNT:

8760 hrs.

AVG. WIND SPEED:

2.22 m/s

DATE:

9/22/2010

PROJECT NO.:

2008-056

Appendix B

Ambient Air Data



Highest 4 Daily Maximum Hourly Ozone Measurements

Los Angeles-North Main Street

[FAQs](#)

| Year: | 2007 | | 2008 | | 2009 | |
|--------------------------------------|--------------|-----------------------------------|--------------|-------------------------------------|--------------|--------------|
| | Date | Measurement | Date | Measurement | Date | Measurement |
| First High: | Sep 3 | 0.115 | May 18 | 0.109 | Aug 30 | 0.139 |
| Second High: | Sep 2 | 0.111 | Jun 21 | 0.103 | Sep 26 | 0.119 |
| Third High: | Sep 1 | 0.099 | May 17 | 0.095 | Aug 26 | 0.104 |
| Fourth High: | Aug 19 | 0.093 | Jun 22 | 0.090 | Aug 31 | 0.092 |
| # Days Above State Standard: | 3 | | 3 | | 3 | |
| California Designation Value: | 0.11 | | 0.11 | | 0.11 | |
| Expected Peak Day Conc.: | 0.108 | | 0.107 | | 0.105 | |
| # Days Above Nat'l Standard: | 0 | | 0 | | 1 | |
| National Design Value: | 0.111 | | 0.108 | | 0.111 | |
| Year Coverage: | 97 | | 96 | | 96 | |
| Go Backward One Year | | New Top 4 Summary | | Go Forward One Year | | |

Notes: All concentrations are expressed in parts per million.

The national 1-hour ozone standard was revoked in June 2005 and is no longer in effect. Statistics related to the revoked standard are shown in *italics* or *italics*.

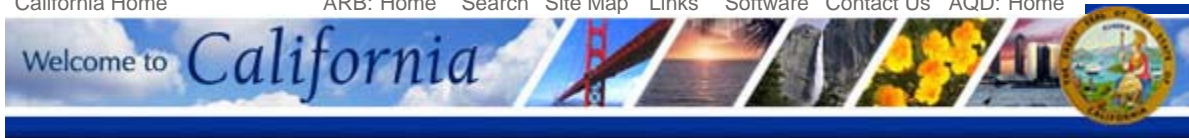
State exceedances are shown in **yellow**. Exceedances of the revoked national 1-hour standard are shown in *orange*.

An exceedance is not necessarily a violation.

Year Coverage indicates the extent to which available monitoring data represent the time of the year when concentrations are expected to be highest. 0 means that data represent none of the high period; 100 means that data represent the entire high period. A high Year Coverage does not mean that there was sufficient data for annual statistics to be considered valid.

* There was insufficient (or no) data available to determine the value.

| | | | | | | | |
|----------------|---|-----------------------|----------------------|--|----------------------------------|--------------------------------|----------------------------------|
| Switch: | 8-Hour Ozone | PM2.5 | PM10 | Carbon Monoxide | Nitrogen Dioxide | Sulfur Dioxide | Hydrogen Sulfide |
| Go to: | Data Statistics Home Page | | | Top 4 Summaries Start Page | | | |



Air Resources Board



Highest 4 Daily Maximum Hourly Nitrogen Dioxide Measurements

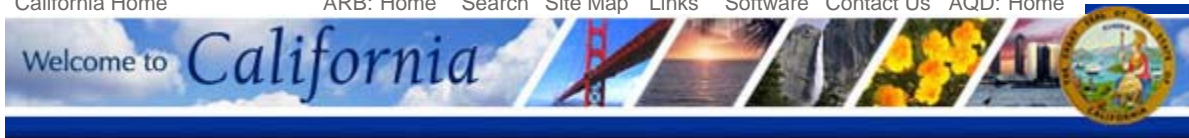
Los Angeles-North Main Street

[FAQs](#)

| Year: | 2007 | | 2008 | | 2009 | |
|--------------------------------------|--------|-----------------------------------|--------|-------------------------------------|--------|-------------|
| | Date | Measurement | Date | Measurement | Date | Measurement |
| First High: | Oct 26 | 0.104 | Dec 1 | 0.122 | Nov 3 | 0.115 |
| Second High: | Feb 6 | 0.095 | Nov 19 | 0.110 | Sep 26 | 0.103 |
| Third High: | Sep 12 | 0.094 | Oct 27 | 0.099 | Sep 24 | 0.085 |
| Fourth High: | Aug 20 | 0.092 | Nov 13 | 0.098 | Sep 25 | 0.085 |
| # Days Above State Standard: | 0 | | 0 | | 0 | |
| Annual Average: | 0.030 | | 0.027 | | 0.028 | |
| Year Coverage: | 96 | | 95 | | 93 | |
| Go Backward One Year | | New Top 4 Summary | | Go Forward One Year | | |

Notes: All averages are expressed in parts per million.
 National exceedances are shown in **orange**. State exceedances are shown in **yellow**.
 An exceedance is not necessarily a violation.
 Year Coverage indicates the extent to which available monitoring data represent the time of the year when concentrations are expected to be highest. 0 means that data represent none of the high period; 100 means that data represent the entire high period. A high Year Coverage does not mean that there was sufficient data for annual statistics to be considered valid.
 * There was insufficient (or no) data available to determine the value.

| | | | | | | | |
|----------------|---|------------------------------|-----------------------|--|---------------------------------|--------------------------------|----------------------------------|
| Switch: | Hourly Ozone | 8-Hour Ozone | PM2.5 | PM10 | Carbon Monoxide | Sulfur Dioxide | Hydrogen Sulfide |
| Go to: | Data Statistics Home Page | | | Top 4 Summaries Start Page | | | |



Air Resources Board



Highest 4 Daily 24-Hour PM10 Averages

Los Angeles-North Main Street

[FAQs](#)

| Year: | 2007 | | 2008 | | 2009 | |
|--------------------------------------|--------|-----------------------------------|--------|-------------------------------------|--------|---------------|
| | Date | 24-Hr Average | Date | 24-Hr Average | Date | 24-Hr Average |
| National: | | | | | | |
| First High: | Apr 12 | 78.0 | Nov 20 | 66.0 | Jan 1 | 72.0 |
| Second High: | Nov 20 | 77.0 | Dec 2 | 65.0 | Oct 28 | 62.0 |
| Third High: | Oct 21 | 63.0 | Oct 21 | 50.0 | Mar 20 | 57.0 |
| Fourth High: | Oct 27 | 58.0 | Oct 27 | 49.0 | Jan 7 | 53.0 |
| California: | | | | | | |
| First High: | Apr 12 | 77.0 | Nov 20 | 64.0 | Jan 1 | 70.0 |
| Second High: | Nov 20 | 76.0 | Dec 2 | 63.0 | Oct 28 | 61.0 |
| Third High: | Oct 21 | 62.0 | Oct 21 | 49.0 | Mar 20 | 56.0 |
| Fourth High: | Oct 27 | 57.0 | Nov 14 | 48.0 | Jan 7 | 51.0 |
| Measured: | | | | | | |
| # Days Above Nat'l Standard: | | 0 | | 0 | | 0 |
| # Days Above State Standard: | | 5 | | 2 | | 4 |
| Estimated: | | | | | | |
| 3-Yr Avg # Days Above Nat'l Std: | | 0.0 | | * | | * |
| # Days Above Nat'l Standard: | | 0.0 | | * | | 0.0 |
| # Days Above State Standard: | | 31.0 | | * | | 24.1 |
| State 3-Yr Maximum Average: | | 33 | | 33 | | 33 |
| State Annual Average: | | 33.0 | | * | | 32.5 |
| National 3-Year Average: | | 31 | | 29 | | * |
| National Annual Average: | | 33.3 | | 24.0 | | * |
| Year Coverage: | | 93 | | 79 | | 99 |
| Go Backward One Year | | New Top 4 Summary | | Go Forward One Year | | |

Notes: All concentrations are expressed in micrograms per cubic meter.
 The national annual average PM10 standard was revoked in December 2006 and is no longer in effect.
 Statistics related to the revoked standard are shown in *italics* or *italics* .
 National exceedances are shown in **orange** . State exceedances are shown in **yellow** .
 An exceedance is not necessarily a violation.
 Statistics may include data that are related to an [exceptional event](#).
 State and national statistics may differ for the following reasons:
 State statistics are based on California approved samplers, whereas national statistics are based on samplers using federal reference or equivalent methods.
 State and national statistics may therefore be based on different samplers.
 State statistics for 1998 and later are based on *local* conditions (except for sites in the South Coast Air Basin, where State statistics for 2002 and later are based on *local* conditions).
 National statistics are based on *standard* conditions.
 State criteria for ensuring that data are sufficiently complete for calculating valid annual averages are more stringent than the national criteria.
 Measurements are usually collected every six days. Measured days counts the days that a measurement was greater than the level of the standard; Estimated days mathematically estimates how many days concentrations would have been greater than the level of the standard had each day been monitored.
 3-Year statistics represent the listed year and the 2 years before the listed year.
 Year Coverage indicates the extent to which available monitoring data represent the time of the year when concentrations are expected to be highest. 0 means that data represent none of the high period; 100 means that data represent the entire high period. A high Year Coverage does not mean that there was sufficient data for annual statistics to be considered valid.
 * There was insufficient (or no) data available to determine the value.

| | | | | | | | |
|---------|---|--------------|-------|--|------------------|----------------|------------------|
| Switch: | Hourly Ozone | 8-Hour Ozone | PM2.5 | Carbon Monoxide | Nitrogen Dioxide | Sulfur Dioxide | Hydrogen Sulfide |
| Go to: | Data Statistics Home Page | | | Top 4 Summaries Start Page | | | |



Air Resources Board



Highest 4 Daily 24-Hour PM2.5 Averages

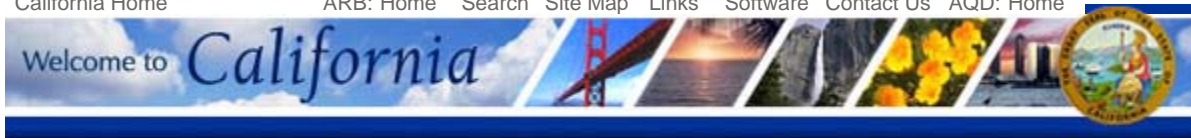
Los Angeles-North Main Street

[FAQs](#)

| Year: | 2007 | | 2008 | | 2009 | |
|--------------------------------------|--------|-----------------------------------|--------|-------------------------------------|--------|---------------|
| | Date | 24-Hr Average | Date | 24-Hr Average | Date | 24-Hr Average |
| National: | | | | | | |
| First High: | Nov 18 | 64.1 | Nov 16 | 78.3 | Jan 1 | 61.6 |
| Second High: | Nov 20 | 61.1 | Dec 3 | 59.9 | Jan 2 | 53.8 |
| Third High: | Nov 19 | 60.4 | Dec 2 | 54.5 | Mar 19 | 53.0 |
| Fourth High: | Nov 21 | 56.7 | Nov 23 | 50.0 | Mar 20 | 45.3 |
| California: | | | | | | |
| First High: | Nov 18 | 64.1 | Nov 16 | 78.3 | Jan 1 | 64.1 |
| Second High: | Nov 20 | 62.0 | Dec 3 | 59.9 | Jan 2 | 53.8 |
| Third High: | Nov 19 | 60.4 | Jul 4 | 54.6 | Mar 19 | 53.0 |
| Fourth High: | Nov 21 | 56.7 | Dec 2 | 54.5 | Mar 20 | 46.6 |
| Estimated Days > Nat'l 24-Hr Std: | * | | 11.3 | | 7.0 | |
| Measured Days > Nat'l 24-Hr Std: | 20 | | 10 | | 7 | |
| Nat'l 24-Hr Std Design Value: | 48 | | 43 | | 42 | |
| Nat'l 24-Hr Std 98th Percentile: | 51.2 | | 40.3 | | 33.9 | |
| National Annual Std Design Value: | 16.7 | | 16.1 | | 15.7 | |
| National Annual Average: | 16.7 | | 15.9 | | 14.2 | |
| State Ann'l Std Designation Value: | 18 | | 16 | | 16 | |
| State Annual Average: | * | | 16.2 | | 15.6 | |
| Year Coverage: | 86 | | 88 | | 99 | |
| Go Backward One Year | | New Top 4 Summary | | Go Forward One Year | | |

Notes: All concentrations are expressed in micrograms per cubic meter. National exceedances are shown in **orange**. State exceedances are shown in **yellow**. An exceedance is not necessarily a violation. State and national statistics may differ for the following reasons:
 State statistics are based on California approved samplers, whereas national statistics are based on samplers using federal reference or equivalent methods. State and national statistics may therefore be based on different samplers. State criteria for ensuring that data are sufficiently complete for calculating valid annual averages are more stringent than the national criteria. Year Coverage indicates the extent to which available monitoring data represent the time of the year when concentrations are expected to be highest. 0 means that data represent none of the high period; 100 means that data represent the entire high period. A high Year Coverage does not mean that there was sufficient data for annual statistics to be considered valid.
 * There was insufficient (or no) data available to determine the value.

| | | | | | | | |
|---------|---|------------------------------|----------------------|--|----------------------------------|--------------------------------|----------------------------------|
| Switch: | Hourly Ozone | 8-Hour Ozone | PM10 | Carbon Monoxide | Nitrogen Dioxide | Sulfur Dioxide | Hydrogen Sulfide |
| Go to: | Data Statistics Home Page | | | Top 4 Summaries Start Page | | | |



Highest 4 Daily Maximum State 24-Hour Sulfur Dioxide Averages

Los Angeles-North Main Street

[FAQs](#)

| Year: | 2007 | | 2008 | | 2009 | |
|--------------------------------------|--------|-----------------------------------|--------|-------------------------------------|--------|---------------|
| | Date | 24-Hr Average | Date | 24-Hr Average | Date | 24-Hr Average |
| First High: | Feb 6 | 0.005 | Sep 29 | 0.003 | Feb 5 | 0.002 |
| Second High: | Jan 26 | 0.004 | Oct 8 | 0.003 | Jul 20 | 0.002 |
| Third High: | Jan 24 | 0.004 | Oct 2 | 0.002 | Mar 19 | 0.002 |
| Fourth High: | Jan 19 | 0.004 | Jul 5 | 0.002 | May 14 | 0.002 |
| Annual Average: | | 0.000 | | 0.000 | | 0.000 |
| Year Coverage: | | 90 | | 96 | | 96 |
| Go Backward One Year | | New Top 4 Summary | | Go Forward One Year | | |

Notes: All averages are expressed in parts per million.

State exceedances are shown in **yellow**.

An exceedance is not necessarily a violation.

Year Coverage indicates the extent to which available monitoring data represent the time of the year when concentrations are expected to be highest. 0 means that data represent none of the high period; 100 means that data represent the entire high period. A high Year Coverage does not mean that there was sufficient data for annual statistics to be considered valid.

* There was insufficient (or no) data available to determine the value.

| | | | | | | | |
|----------------|---|------------------------------|-----------------------|--|---------------------------------|----------------------------------|----------------------------------|
| Switch: | Hourly Ozone | 8-Hour Ozone | PM2.5 | PM10 | Carbon Monoxide | Nitrogen Dioxide | Hydrogen Sulfide |
| Go to: | Data Statistics Home Page | | | Top 4 Summaries Start Page | | | |

**2007 AIR QUALITY
SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT**

2007

| Source/Receptor Area No. Location | Station No. State Code District Code | | Carbon Monoxide ^{a)} | | | Ozone | | | | | | | | | | Nitrogen Dioxide ^{d)} | | | Sulfur Dioxide ^{e)} | | | | |
|--------------------------------------|---|-------|-------------------------------|--------------------------|--------------------------|------------------|--------------------------|--------------------------|------------------------------|--|-----------------------|-------------------|--------------------|---------------------|------------------|--------------------------------|------------------------------|------------------|------------------------------|---------------------------|------------------------------|--------------------|--------|
| | | | No. Days of Data | Max. Conc. in ppm 1-hour | Max. Conc. in ppm 8-hour | No. Days of Data | Max. Conc. in ppm 1-hour | Max. Conc. in ppm 8-hour | Fourth High Conc. ppm 8-hour | No. Days Standard Exceeded | | | | | No. Days of Data | Max. Conc. in ppm 1-hour | Annual Average AAM Conc. ppm | No. Days of Data | Max. Conc. in ppm 1-hour | Max. Conc. in ppm 24-hour | Annual Average AAM Conc. ppm | | |
| | | | | | | | | | | Health Advisory ≥ 0.15 ppm 1-hour | Federal ^{b)} | | | State ^{c)} | | | | | | | | | |
| | | | | | | | | | | | > 0.12 ppm 1-hour | > 0.08 ppm 8-hour | > 0.075 ppm 8-hour | > 0.09 ppm 1-hour | | | | | | | | > 0.070 ppm 8-hour | |
| LOS ANGELES COUNTY | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Central LA | 70087 | 087 | 359 | 3 | 2.2 | 355 | 0.115 | 0.102 | 0.072 | 0 | 0 | 2 | 3 | 3 | 6 | 360 | 0.10 | 0.0299 | 351 | 0.01 | 0.003 | 0.0009 |
| 2 | Northwest Coastal LA County | 70091 | 091 | 365 | 3 | 2.0 | 360 | 0.117 | 0.087 | 0.067 | 0 | 0 | 1 | 2 | 2 | 2 | 353 | 0.08 | 0.0200 | -- | -- | -- | -- |
| 3 | Southwest Coastal LA County | 70111 | 820 | 361 | 3 | 2.4 | 361 | 0.087 | 0.074 | 0.066 | 0 | 0 | 0 | 0 | 0 | 1 | 331* | 0.08 | 0.0140 | 361 | 0.02 | 0.009 | 0.0028 |
| 4 | South Coastal LA County 1 | 70072 | 072 | 347* | 3 | 2.6 | 365 | 0.099 | 0.073 | 0.056 | 0 | 0 | 0 | 0 | 1 | 1 | 365 | 0.11 | 0.0207 | 365 | 0.11 | 0.011 | 0.0027 |
| 4 | South Coastal LA County 2 | 70110 | 077 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 6 | West San Fernando Valley | 70074 | 074 | 358 | 4 | 2.8 | 358 | 0.129 | 0.104 | 0.092 | 0 | 1 | 8 | 28 | 21 | 43 | 358 | 0.08 | 0.0186 | -- | -- | -- | -- |
| 7 | East San Fernando Valley | 70069 | 069 | 365 | 4 | 2.8 | 365 | 0.116 | 0.096 | 0.088 | 0 | 0 | 6 | 13 | 13 | 19 | 363 | 0.09 | 0.0289 | 365 | 0.01 | 0.003 | 0.0010 |
| 8 | West San Gabriel Valley | 70088 | 088 | 365 | 3 | 2.3 | 365 | 0.149 | 0.100 | 0.089 | 0 | 3 | 6 | 11 | 13 | 21 | 365 | 0.09 | 0.0246 | -- | -- | -- | -- |
| 9 | East San Gabriel Valley 1 | 70060 | 060 | 365 | 3 | 1.8 | 365 | 0.158 | 0.112 | 0.096 | 1 | 3 | 13 | 20 | 22 | 28 | 365 | 0.12 | 0.0253 | -- | -- | -- | -- |
| 9 | East San Gabriel Valley 2 | 70591 | 591 | 365 | 2 | 2.0 | 364 | 0.147 | 0.116 | 0.104 | 0 | 3 | 14 | 26 | 25 | 40 | 365 | 0.11 | 0.0227 | -- | -- | -- | -- |
| 10 | Pomona/Walnut Valley | 70075 | 075 | 365 | 3 | 2.0 | 365 | 0.153 | 0.108 | 0.102 | 1 | 2 | 10 | 18 | 19 | 25 | 365 | 0.10 | 0.0318 | -- | -- | -- | -- |
| 11 | South San Gabriel Valley | 70185 | 085 | 365 | 5 | 2.9 | 364 | 0.135 | 0.100 | 0.079 | 0 | 2 | 2 | 5 | 6 | 9 | 361 | 0.11 | 0.0249 | -- | -- | -- | -- |
| 12 | South Central LA County | 70084 | 084 | 365 | 8 | 5.1 | 365 | 0.102 | 0.077 | 0.056 | 0 | 0 | 0 | 1 | 1 | 2 | 365 | 0.10 | 0.0291 | -- | -- | -- | -- |
| 13 | Santa Clarita Valley | 70090 | 090 | 361 | 2 | 1.2 | 357 | 0.135 | 0.110 | 0.101 | 0 | 2 | 16 | 44 | 31 | 64 | 339* | 0.08 | 0.0196 | -- | -- | -- | -- |
| ORANGE COUNTY | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | North Orange County | 30177 | 3177 | 360 | 6 | 2.9 | 365 | 0.152 | 0.107 | 0.082 | 1 | 1 | 2 | 8 | 7 | 9 | 365 | 0.08 | 0.0219 | -- | -- | -- | -- |
| 17 | Central Orange County | 30178 | 3176 | 346* | 4 | 2.9 | 365 | 0.127 | 0.099 | 0.073 | 0 | 1 | 1 | 1 | 2 | 7 | 359 | 0.10 | 0.0208 | -- | -- | -- | -- |
| 18 | North Coastal Orange County | 30195 | 3195 | 362 | 5 | 3.1 | 362 | 0.082 | 0.072 | 0.065 | 0 | 0 | 0 | 0 | 0 | 2 | 362 | 0.07 | 0.0132 | 358 | 0.01 | 0.004 | 0.0010 |
| 19 | Saddleback Valley | 30002 | 3812 | 364 | 3 | 2.2 | 365 | 0.108 | 0.089 | 0.080 | 0 | 0 | 2 | 5 | 5 | 10 | -- | -- | -- | -- | -- | -- | -- |
| RIVERSIDE COUNTY | | | | | | | | | | | | | | | | | | | | | | | |
| 22 | Norco/Corona | 33155 | 4155 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 23 | Metropolitan Riverside County 1 | 33144 | 4144 | 364 | 4 | 2.9 | 365 | 0.131 | 0.111 | 0.099 | 0 | 2 | 15 | 46 | 31 | 69 | 364 | 0.07 | 0.0206 | 323* | 0.02 | 0.002 | 0.0017 |
| 23 | Metropolitan Riverside County 2 | 33146 | 4146 | 365 | 4 | 2.1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 23 | Mira Loma | 33165 | 5214 | 359 | 3 | 2.1 | 360 | 0.118 | 0.104 | 0.092 | 0 | 0 | 10 | 23 | 16 | 48 | 349* | 0.07 | 0.0181 | -- | -- | -- | -- |
| 24 | Perris Valley | 33149 | 4149 | -- | -- | -- | 365 | 0.139 | 0.116 | 0.103 | 0 | 4 | 37 | 73 | 66 | 88 | -- | -- | -- | -- | -- | -- | -- |
| 25 | Lake Elsinore | 33158 | 4158 | 365 | 2 | 1.4 | 359 | 0.130 | 0.108 | 0.097 | 0 | 3 | 19 | 35 | 26 | 55 | 358 | 0.06 | 0.0174 | -- | -- | -- | -- |
| 29 | Banning Airport | 33164 | 4164 | -- | -- | -- | 365 | 0.129 | 0.113 | 0.095 | 0 | 1 | 12 | 43 | 28 | 63 | 363 | 0.08 | 0.0147 | -- | -- | -- | -- |
| 30 | Coachella Valley 1** | 33137 | 4137 | 365 | 2 | 0.8 | 365 | 0.126 | 0.101 | 0.097 | 0 | 1 | 20 | 58 | 29 | 83 | 365 | 0.06 | 0.0103 | -- | -- | -- | -- |
| 30 | Coachella Valley 2** | 33155 | 4157 | -- | -- | -- | 365 | 0.106 | 0.094 | 0.087 | 0 | 0 | 6 | 29 | 8 | 48 | -- | -- | -- | -- | -- | -- | -- |
| SAN BERNARDINO COUNTY | | | | | | | | | | | | | | | | | | | | | | | |
| 32 | Northwest San Bernardino Valley | 36175 | 5175 | 365 | 2 | 1.7 | 365 | 0.145 | 0.115 | 0.112 | 0 | 7 | 18 | 35 | 32 | 55 | 327* | 0.10 | 0.0276 | -- | -- | -- | -- |
| 33 | Southwest San Bernardino Valley | 36025 | 5817 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 34 | Central San Bernardino Valley 1 | 36197 | 5197 | 359 | 3 | 1.8 | 359 | 0.144 | 0.122 | 0.112 | 0 | 9 | 19 | 43 | 40 | 60 | 358 | 0.09 | 0.0239 | 359 | 0.01 | 0.004 | 0.0019 |
| 34 | Central San Bernardino Valley 2 | 36203 | 5203 | 365 | 4 | 2.3 | 365 | 0.153 | 0.121 | 0.117 | 1 | 8 | 24 | 51 | 48 | 74 | 351 | 0.08 | 0.0245 | -- | -- | -- | -- |
| 35 | East San Bernardino Valley | 36204 | 5204 | -- | -- | -- | 365 | 0.149 | 0.124 | 0.112 | 0 | 7 | 25 | 58 | 54 | 79 | -- | -- | -- | -- | -- | -- | -- |
| 37 | Central San Bernardino Mountains | 36181 | 5181 | -- | -- | -- | 365 | 0.171 | 0.137 | 0.126 | 4 | 13 | 59 | 93 | 67 | 115 | -- | -- | -- | -- | -- | -- | -- |
| 38 | East San Bernardino Mountains | 36001 | 5818 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| DISTRICT MAXIMUM | | | | | 8 | 5.1 | | 0.171 | 0.137 | 0.126 | 4 | 13 | 59 | 93 | 67 | 115 | | 0.12 | 0.0318 | | 0.11 | 0.011 | 0.0028 |
| SOUTH COAST AIR BASIN | | | | | 8 | 5.1 | | 0.171 | 0.137 | 0.126 | 5 | 18 | 79 | 108 | 96 | 128 | | 0.12 | 0.0318 | | 0.11 | 0.011 | 0.0028 |

ppm - Parts Per Million parts of air, by volume. AAM = Annual Arithmetic Mean -- - Pollutant not monitored.

* Less than 12 full months of data; may not be representative.

** Salton Sea Air Basin.

- a) - The federal 8-hour standard (8-hour average CO > 9 ppm) and state 8-hour standard (8-hour average CO > 9.0 ppm) were not exceeded. The federal and state 1-hour standards (35 ppm and 20 ppm) were not exceeded, either.
- b) - The federal 1-hour ozone standard was revoked and replaced by the 8-hour average ozone standard effective June 15, 2005. U.S. EPA has revised the federal 8-hour ozone standard from 0.084 ppm to 0.075 ppm, effective May 27, 2008.
- c) - The 8-hour average California ozone standard of 0.070 ppm was established effective May 17, 2006.
- d) - The federal standard is annual arithmetic mean NO₂ > 0.0534 ppm. California Air Resources Board has revised the NO₂ 1-hour state standard from 0.25 ppm to 0.18 ppm and has established a new annual standard of 0.030 ppm, effective March 20, 2008.
- e) - The state standards are 1-hour average SO₂ > 0.25 ppm and 24-hour average SO₂ > 0.04 ppm. The federal standards are annual arithmetic mean SO₂ > 0.03 ppm, 24-hour average > 0.14 ppm, and 3-hour average > 0.50 ppm. The federal and state SO₂ standards were not exceeded.



**South Coast
Air Quality Management District**
21865 Copley Drive
Diamond Bar, CA 91765-4182
www.aqmd.gov

The map showing the locations of source/receptor areas can be accessed via the Internet at <http://www.aqmd.gov/telemweb/areamap.aspx>. Locations of source/receptor areas are shown on the "South Coast Air Quality Management District Air Monitoring Areas" map available free of charge from SCAQMD Public Information.

**2007 AIR QUALITY
SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT**

2007

| Source/Receptor Area No. Location | Station No. | | Suspended Particulates PM10 ^{f)} | | | | | Fine Particulates PM2.5 ^{g)} | | | | | Particulates ^{h)} | | Lead ^{h)} | | Sulfate ^{h)} | | | | |
|--------------------------------------|----------------------------------|---------------|---|---|---|--------------------------------------|--|---------------------------------------|---|--|--|--|--|------------------|---|--|--|--|---|--|----------|
| | State Code | District Code | No. Days of Data | Max. Conc. in µg/m ³ 24-hour | No. (%) Samples Exceeding Standards | | Annual Average Conc. ⁱ⁾ µg/m ³ | No. Days of Data | Max. Conc. in µg/m ³ 24-hour | 98 th Percentile Conc. in µg/m ³ 24-hour | No. (%) Samples Exceeding Standards | | Annual Average Conc. ^{k)} µg/m ³ | No. Days of Data | Max. Conc. in µg/m ³ 24-hour | Annual Average Conc. (AAM) µg/m ³ | Max. Monthly Average Conc. ^{l)} µg/m ³ | Max. Quarterly Average Conc. ^{l)} µg/m ³ | Max. Conc. in µg/m ³ 24-hour | %Samples Exceeding State Standard ≥ 25 µg/m ³ 24-hour | |
| | | | | | Federal > 150 µg/m ³ 24-hour | State > 50 µg/m ³ 24-hour | | | | | > 35 ^{j)} µg/m ³ 24-hour | > 65 ^{j)} µg/m ³ 24-hour | | | | | | | | | |
| LOS ANGELES COUNTY | | | | | | | | | | | | | | | | | | | | | |
| 1 | Central LA | 70087 | 087 | 56 | 78 | 0 | 5(9) | 33.3 | 324 | 64.2 | 51.2 | 20(0.6) | 0 | 16.8 | 58 | 194 | 73.5 | 0.04 | 0.03 | 10.5 | 0 |
| 2 | Northwest Coastal LA County | 70091 | 091 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 57 | 180 | 57.6 | -- | -- | 9.7 | 0 | |
| 3 | Southwest Coastal LA County | 70111 | 820 | 56 | 96 | 0 | 2(4) | 27.7 | -- | -- | -- | -- | -- | 55 | 286 | 51.8 | 0.02 | 0.01 | 10.5 | 0 | |
| 4 | South Coastal LA County 1 | 70072 | 072 | 57 | 75+ | 0+ | 5(9)+ | 30.2+ | 332 | 82.9 | 40.8 | 12(3.6) | 1(0.3) | 14.6 | 59 | 732 | 76.5 | 0.02 | 0.01 | 11.1 | 0 |
| 4 | South Coastal LA County 2 | 70110 | 077 | 56 | 123+ | 0+ | 17(30)+ | 41.7+ | 326 | 68.0 | 33.7 | 6(1.8) | 1(0.3) | 13.7 | 58 | 694 | 79.4 | 0.02 | 0.01 | 11.7 | 0 |
| 6 | West San Fernando Valley | 70074 | 074 | -- | -- | -- | -- | -- | 95 | 43.3 | 33.4 | 1(1.1) | 0 | 13.1 | -- | -- | -- | -- | -- | -- | |
| 7 | East San Fernando Valley | 70069 | 069 | 54 | 109 | 0 | 11(20) | 40.0 | 98 | 56.5 | 47.7 | 9(9.2) | 0 | 16.8 | -- | -- | -- | -- | -- | -- | |
| 8 | West San Gabriel Valley | 70088 | 088 | -- | -- | -- | -- | -- | 108 | 68.9 | 45.4 | 3(2.8) | 1(0.9) | 14.3 | 56 | 123 | 46.3 | -- | -- | 22.4 | 0 |
| 9 | East San Gabriel Valley 1 | 70060 | 060 | 55 | 83+ | 0+ | 11(20)+ | 35.6+ | 292* | 63.8 | 49.3 | 19(6.5) | 0 | 15.9 | 58 | 243 | 77.8 | -- | -- | 37.0++ | 1(1.7)++ |
| 9 | East San Gabriel Valley 2 | 70591 | 591 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| 10 | Pomona/Walnut Valley | 70075 | 075 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| 11 | South San Gabriel Valley | 70185 | 085 | -- | -- | -- | -- | -- | 101 | 63.6 | 49.5 | 5(5.0) | 0 | 16.7 | 55 | 196 | 76.0 | 0.05 | 0.02 | 25.4++ | 1(1.7)++ |
| 12 | South Central LA County | 70084 | 084 | -- | -- | -- | -- | -- | 106 | 49.0 | 46.1 | 4(3.8) | 0 | 15.9 | 59 | 327 | 78.8 | 0.03 | 0.02 | 12.5 | 0 |
| 13 | Santa Clarita Valley | 70090 | 090 | 57 | 131+ | 0+ | 5(9)+ | 29.9+ | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| ORANGE COUNTY | | | | | | | | | | | | | | | | | | | | | |
| 16 | North Orange County | 30177 | 3177 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| 17 | Central Orange County | 30178 | 3176 | 58 | 75+ | 0+ | 5(9)+ | 31.0+ | 336 | 79.4 | 46.5 | 14(4.2) | 1(0.3) | 14.5 | -- | -- | -- | -- | -- | -- | |
| 18 | North Coastal Orange County | 30195 | 3195 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| 19 | Saddleback Valley | 30002 | 3812 | 57 | 74 | 0 | 3(5) | 23.0 | 98 | 46.9 | 35.0 | 2(2.0) | 0 | 11.3 | -- | -- | -- | -- | -- | -- | |
| RIVERSIDE COUNTY | | | | | | | | | | | | | | | | | | | | | |
| 22 | Norco/Corona | 33155 | 4155 | 58 | 93+ | 0+ | 10(17)+ | 39.6+ | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| 23 | Metropolitan Riverside County 1 | 33144 | 4144 | 116 | 118+ | 0+ | 66(57)+ | 54.6+ | 295* | 75.7 | 54.3 | 33(11.2) | 3(1.0) | 19.1 | 57 | 237 | 111.0 | 0.02 | 0.01 | 13.0 | 0 |
| 23 | Metropolitan Riverside County 2 | 33146 | 4146 | -- | -- | -- | -- | -- | 101 | 68.6 | 57.3 | 8(7.9) | 1(1.0) | 18.1 | 60 | 674 | 88.9 | 0.02 | 0.01 | 9.3 | 0 |
| 23 | Mira Loma | 33165 | 5214 | 56 | 142 | 0 | 41(73) | 68.5 | 110 | 69.7 | 60.1 | 13(11.8) | 1(0.9) | 21.0 | -- | -- | -- | -- | -- | -- | |
| 24 | Perris Valley | 33149 | 4149 | 57 | 120+ | 0+ | 32(56)+ | 54.8+ | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| 25 | Lake Elsinore | 33158 | 4158 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| 29 | Banning Airport | 33164 | 4164 | 48* | 78 | 0 | 7(15) | 33.3 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| 30 | Coachella Valley 1** | 33137 | 4137 | 54 | 83 | 0 | 6(11) | 30.5 | 104 | 32.5 | 20.5 | 0 | 0 | 8.7 | -- | -- | -- | -- | -- | -- | |
| 30 | Coachella Valley 2** | 33155 | 4157 | 84* | 146+ | 0+ | 51(61)+ | 53.5+ | 97 | 26.8 | 26.5 | 0 | 0 | 9.8 | -- | -- | -- | -- | -- | -- | |
| SAN BERNARDINO COUNTY | | | | | | | | | | | | | | | | | | | | | |
| 32 | Northwest San Bernardino Valley | 36175 | 5175 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 60 | 206 | 63.5 | 0.02 | 0.01 | 7.6 | 0 |
| 33 | Southwest San Bernardino Valley | 36025 | 5817 | 58 | 115+ | 0+ | 14(24)+ | 43.4+ | 102 | 72.8 | 53.0 | 6(5.9) | 1(1.0) | 17.9 | -- | -- | -- | -- | -- | -- | |
| 34 | Central San Bernardino Valley 1 | 36197 | 5197 | 56 | 111+ | 0+ | 33(59)+ | 54.9+ | 107 | 77.5 | 64.9 | 10(9.3) | 2(1.9) | 19.0 | 58 | 242 | 96.2 | -- | -- | 20.3 | 0 |
| 34 | Central San Bernardino Valley 2 | 36203 | 5203 | 57 | 136+ | 0+ | 28(49)+ | 51.4+ | 99 | 72.1 | 68.4 | 11(11.1) | 3(3.0) | 18.3 | 59 | 536 | 106.9 | 0.04 | 0.02 | 13.6 | 0 |
| 35 | East San Bernardino Valley | 36204 | 5204 | 60 | 97 | 0 | 19(32) | 39.7 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| 37 | Central San Bernardino Mountains | 36181 | 5181 | 54 | 89 | 0 | 2(4) | 27.2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| 38 | East San Bernardino Mountains | 36001 | 5818 | -- | -- | -- | -- | -- | 54 | 45.4 | 34.0 | 1(1.9) | 0 | 10.4 | -- | -- | -- | -- | -- | -- | |
| DISTRICT MAXIMUM | | | | -- | 146+ | 0+ | 66+ | 68.5+ | -- | 82.9 | 68.4 | 33 | 3 | 21.0 | -- | 732 | 111.0 | 0.05 | 0.03 | 37.0 | 1++ |
| SOUTH COAST AIR BASIN | | | | -- | 142+ | 0+ | 79+ | 68.5+ | -- | 82.9 | 68.4 | 48 | 8 | 21.0 | -- | 732 | 111.0 | 0.05 | 0.03 | 37.0 | 1++ |

µg/m³ - Micrograms per cubic meter of air.

AAM = Annual Arithmetic Mean

-- - Pollutant not monitored.

* Less than 12 full months of data; may not be representative.

** Salton Sea Air Basin.

f) - PM10 samples were collected every 6 days at all sites except for Station Numbers 4144 and 4157 where samples were collected every 3 days.

g) - PM2.5 samples were collected every 3 days at all sites except for the following sites: Station Numbers 060, 072, 077, 087, 3176, and 4144 where samples were taken every day, and Station Number 5818 where samples were taken every 6 days.

h) - Total suspended particulates, lead, and sulfate were determined from samples collected every 6 days by the high volume sampler method, on glass fiber filter media.

i) - Federal annual PM10 standard (AAM > 50 µg/m³) was revoked effective December 17, 2006. State standard is annual average (AAM) > 20 µg/m³.

j) - U.S. EPA has revised the federal 24-hour PM2.5 standard from 65 µg/m³ to 35 µg/m³; effective December 17, 2006.

k) - Federal PM2.5 standard is annual average (AAM) > 15 µg/m³. State standard is annual average (AAM) > 12 µg/m³.

l) - Federal lead standard is quarterly average > 1.5 µg/m³; and state standard is monthly average ≥ 1.5 µg/m³.

+ - The following PM10 data samples were excluded from compliance consideration in accordance with the EPA Exceptional Event Regulation: 210 and 157 µg/m³ on March 22 and April 6, respectively, at Coachella Valley 2 (high wind events); 167 µg/m³ on April 12 at Perris Valley (high wind event); 165 and 155 µg/m³ on July 5 at East San Gabriel 1 and Central San Bernardino Valley 1, respectively (fireworks displays); and high concentrations throughout the District on October 21, with a maximum concentration of 559 µg/m³ at Metropolitan Riverside County 1 (high wind and wildfire event).

++ - High sulfate concentrations were recorded on July 5, 2008, due to the 4th of July firework activities.



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**2008 AIR QUALITY
SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT**

2008

| No. | Location | Station No. State Code District Code | | Carbon Monoxide ^{a)} | | | Ozone | | | | | | | | Nitrogen Dioxide ^{d)} | | | Sulfur Dioxide ^{e)} | | | | | |
|------------------------------|----------------------------------|---|------|-------------------------------|--------------------------|--------------------------|------------------|--------------------------|--------------------------|--------------------------|---|----------------------------|-----------------------|----------------------------|--------------------------------|----------------------------|------------------|------------------------------|-------------------------------------|------------------|--------------------------|---------------------------|-------------------------------------|
| | | | | No. Days of Data | Max. Conc. in ppm 1-hour | Max. Conc. in ppm 8-hour | No. Days of Data | Max. Conc. in ppm 1-hour | Max. Conc. in ppm 8-hour | Fourth High Conc. 8-hour | Health Advisory ≥ 0.150 ppm 1-hour | No. Days Standard Exceeded | | | | | No. Days of Data | Max. Conc. in ppm 1-hour | Annual Average <u>AAM</u> Conc. ppm | No. Days of Data | Max. Conc. in ppm 1-hour | Max. Conc. in ppm 24-hour | Annual Average <u>AAM</u> Conc. ppm |
| | | | | | | | | | | | | Federal ^{b)} | | State ^{c)} | | | | | | | | | |
| | | | | | | | | | | | | Old > 0.12 ppm 1-hour | Old > 0.08 ppm 8-hour | Current > 0.075 ppm 8-hour | Current > 0.09 ppm 1-hour | Current > 0.070 ppm 8-hour | | | | | | | |
| LOS ANGELES COUNTY | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Central LA | 70087 | 087 | 366 | 3 | 2.1 | 356 | 0.109 | 0.090 | 0.073 | 0 | 0 | 1 | 3 | 3 | 7 | 343 | 0.12 | 0.0275 | 366 | 0.01 | 0.002 | 0.0003 |
| 2 | Northwest Coastal LA County | 70091 | 091 | 366 | 3 | 2.0 | 366 | 0.11 | 0.097 | 0.073 | 0 | 0 | 1 | 2 | 3 | 8 | 364 | 0.09 | 0.0184 | -- | -- | -- | -- |
| 3 | Southwest Coastal LA County | 70111 | 820 | 358 | 4 | 2.5 | 360 | 0.086 | 0.075 | 0.065 | 0 | 0 | 0 | 0 | 0 | 1 | 359 | 0.09 | 0.0143 | 357 | 0.02 | 0.005 | 0.0014 |
| 4 | South Coastal LA County 1 | 70072 | 072 | 366 | 3 | 2.6 | 366 | 0.093 | 0.074 | 0.064 | 0 | 0 | 0 | 0 | 0 | 1 | 366 | 0.13 | 0.0208 | 366 | 0.09 | 0.012 | 0.0022 |
| 4 | South Coastal LA County 2 | 70110 | 077 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 6 | West San Fernando Valley | 70074 | 074 | 366 | 4 | 2.9 | 366 | 0.123 | 0.103 | 0.095 | 0 | 0 | 14 | 25 | 23 | 40 | 366 | 0.09 | 0.0180 | -- | -- | -- | -- |
| 7 | East San Fernando Valley | 70069 | 069 | 366 | 3 | 2.6 | 366 | 0.133 | 0.109 | 0.092 | 0 | 1 | 8 | 17 | 20 | 35 | 364 | 0.11 | 0.0285 | 366 | 0.01 | 0.003 | 0.0008 |
| 8 | West San Gabriel Valley | 70088 | 088 | 366 | 3 | 2.1 | 366 | 0.122 | 0.100 | 0.091 | 0 | 0 | 6 | 16 | 16 | 26 | 365 | 0.11 | 0.0235 | -- | -- | -- | -- |
| 9 | East San Gabriel Valley 1 | 70060 | 060 | 366 | 2 | 1.6 | 366 | 0.135 | 0.111 | 0.101 | 0 | 7 | 14 | 28 | 34 | 39 | 366 | 0.10 | 0.0230 | -- | -- | -- | -- |
| 9 | East San Gabriel Valley 2 | 70591 | 591 | 366 | 3 | 3.0 | 366 | 0.156 | 0.118 | 0.112 | 2 | 12 | 25 | 45 | 48 | 61 | 366 | 0.10 | 0.0182 | -- | -- | -- | -- |
| 10 | Pomona/Walnut Valley | 70075 | 075 | 366 | 3 | 2.0 | 366 | 0.141 | 0.110 | 0.100 | 0 | 5 | 19 | 35 | 32 | 47 | 366 | 0.11 | 0.0302 | -- | -- | -- | -- |
| 11 | South San Gabriel Valley | 70185 | 085 | 357 | 3 | 2.1 | 366 | 0.107 | 0.093 | 0.077 | 0 | 0 | 1 | 5 | 7 | 13 | 341 | 0.10 | 0.0263 | -- | -- | -- | -- |
| 12 | South Central LA County+ | 70084+ | 084+ | 310* | 6* | 4.3* | 310* | 0.078* | 0.060* | 0.055* | 0* | 0* | 0* | 0* | 0* | 0* | 305* | 0.12* | 0.0301* | -- | -- | -- | -- |
| 13 | Santa Clarita Valley | 70090 | 090 | 363 | 2 | 1.1 | 363 | 0.160 | 0.131 | 0.108 | 2 | 8 | 35 | 60 | 54 | 81 | 363 | 0.07 | 0.0165 | -- | -- | -- | -- |
| ORANGE COUNTY | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | North Orange County | 30177 | 3177 | 366 | 5 | 2.9 | 366 | 0.104 | 0.084 | 0.078 | 0 | 0 | 0 | 5 | 7 | 15 | 361 | 0.08 | 0.0206 | -- | -- | -- | -- |
| 17 | Central Orange County | 30178 | 3176 | 366 | 4 | 3.6 | 366 | 0.105 | 0.086 | 0.076 | 0 | 0 | 1 | 4 | 2 | 10 | 366 | 0.09 | 0.0203 | -- | -- | -- | -- |
| 18 | North Coastal Orange County | 30195 | 3195 | 366 | 3 | 2.0 | 366 | 0.094 | 0.079 | 0.075 | 0 | 0 | 0 | 3 | 0 | 6 | 365 | 0.08 | 0.0132 | 366 | 0.01 | 0.003 | 0.0011 |
| 19 | Saddleback Valley | 30002 | 3812 | 365 | 2 | 1.1 | 365 | 0.118 | 0.104 | 0.092 | 0 | 0 | 6 | 15 | 9 | 25 | -- | -- | -- | -- | -- | -- | -- |
| RIVERSIDE COUNTY | | | | | | | | | | | | | | | | | | | | | | | |
| 22 | Norco/Corona | 33155 | 4155 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 23 | Metropolitan Riverside County 1 | 33144 | 4144 | 366 | 3 | 2.0 | 366 | 0.146 | 0.116 | 0.111 | 0 | 8 | 38 | 64 | 54 | 88 | 366 | 0.09 | 0.0192 | 366 | 0.01 | 0.003 | 0.0009 |
| 23 | Metropolitan Riverside County 2 | 33146 | 4146 | 366 | 7 | 2.0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 70* | 0.09* | 0.0258* | -- | -- | -- | -- |
| 23 | Mira Loma | 33165 | 5214 | 366 | 3 | 1.9 | 366 | 0.135 | 0.107 | 0.104 | 0 | 4 | 23 | 47 | 38 | 62 | 366 | 0.10 | 0.0174 | -- | -- | -- | -- |
| 24 | Perris Valley | 33149 | 4149 | -- | -- | -- | 366 | 0.142 | 0.114 | 0.106 | 0 | 4 | 41 | 77 | 65 | 94 | -- | -- | -- | -- | -- | -- | -- |
| 25 | Lake Elsinore | 33158 | 4158 | 365 | 1 | 1.0 | 365 | 0.139 | 0.118 | 0.108 | 0 | 6 | 32 | 69 | 49 | 92 | 362 | 0.06 | 0.0129 | -- | -- | -- | -- |
| 29 | Banning Airport | 33164 | 4164 | -- | -- | -- | 365 | 0.149 | 0.120 | 0.108 | 0 | 10 | 45 | 74 | 57 | 95 | 366 | 0.08 | 0.0128 | -- | -- | -- | -- |
| 30 | Coachella Valley 1** | 33137 | 4137 | 366 | 1 | 0.6 | 366 | 0.11 | 0.101 | 0.098 | 0 | 0 | 20 | 51 | 26 | 70 | 366 | 0.05 | 0.0093 | -- | -- | -- | -- |
| 30 | Coachella Valley 2** | 33157 | 4157 | -- | -- | -- | 355 | 0.12 | 0.092 | 0.090 | 0 | 0 | 11 | 27 | 11 | 44 | -- | -- | -- | -- | -- | -- | -- |
| SAN BERNARDINO COUNTY | | | | | | | | | | | | | | | | | | | | | | | |
| 32 | Northwest San Bernardino Valley | 36175 | 5175 | 365 | 2 | 1.6 | 365 | 0.155 | 0.122 | 0.111 | 2 | 9 | 30 | 50 | 51 | 65 | 365 | 0.09 | 0.0235 | -- | -- | -- | -- |
| 33 | Southwest San Bernardino Valley | 36025 | 5817 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 34 | Central San Bernardino Valley 1 | 36197 | 5197 | 363 | 2 | 1.9 | 364 | 0.162 | 0.124 | 0.111 | 1 | 8 | 35 | 58 | 55 | 82 | 364 | 0.10 | 0.0207 | 364 | 0.01 | 0.003 | 0.0018 |
| 34 | Central San Bernardino Valley 2 | 36203 | 5203 | 366 | 2 | 1.8 | 366 | 0.157 | 0.122 | 0.113 | 2 | 11 | 43 | 62 | 62 | 90 | 366 | 0.09 | 0.0217 | -- | -- | -- | -- |
| 35 | East San Bernardino Valley | 36204 | 5204 | -- | -- | -- | 366 | 0.154 | 0.120 | 0.112 | 1 | 12 | 50 | 75 | 72 | 100 | -- | -- | -- | -- | -- | -- | -- |
| 37 | Central San Bernardino Mountains | 36181 | 5181 | -- | -- | -- | 362 | 0.176 | 0.126 | 0.120 | 2 | 16 | 67 | 97 | 78 | 115 | -- | -- | -- | -- | -- | -- | -- |
| 38 | East San Bernardino Mountains | 36001 | 5818 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| DISTRICT MAXIMUM | | | | 366 | 7 | 4.3 | 366 | 0.176 | 0.131 | 0.120 | 2 | 16 | 67 | 97 | 78 | 115 | -- | 0.13 | 0.0302 | -- | 0.09 | 0.012 | 0.0022 |
| SOUTH COAST AIR BASIN | | | | 7 | 4.3 | -- | 0.176 | 0.131 | 0.120 | 7 | 28 | 80 | 120 | 102 | 140 | -- | 0.13 | 0.0302 | -- | 0.09 | 0.012 | 0.0022 | |

ppm - Parts Per Million parts of air, by volume. AAM = Annual Arithmetic Mean -- Pollutant not monitored.
 * Less than 12 full months of data; may not be representative. ** Salton Sea Air Basin.

+ Site was relocated.

- a) - The federal 8-hour standard (8-hour average CO > 9 ppm) and state 8-hour standard (8-hour average CO > 9.0 ppm) were not exceeded. The federal and state 1-hour standards (35 ppm and 20 ppm) were not exceeded, either.
- b) - The federal 1-hour ozone standard was revoked and replaced by the 8-hour average ozone standard effective June 15, 2005. U.S. EPA has revised the federal 8-hour ozone standard from 0.084 ppm to 0.075 ppm, effective May 27, 2008.
- c) - The 8-hour average California ozone standard of 0.070 ppm was established effective May 17, 2006.
- d) - The federal standard is annual arithmetic mean NO₂ > 0.0534 ppm. California Air Resources Board has revised the NO₂ 1-hour state standard from 0.25 ppm to 0.18 ppm and has established a new annual standard of 0.030 ppm, effective March 20, 2008.
- e) - The state standards are 1-hour average SO₂ > 0.25 ppm and 24-hour average SO₂ > 0.04 ppm. The federal standards are annual arithmetic mean SO₂ > 0.03 ppm, 24-hour average > 0.14 ppm, and 3-hour average > 0.50 ppm. The federal and state SO₂ standards were not exceeded.



**South Coast
Air Quality Management District**
 21865 Copley Drive
 Diamond Bar, CA 91765-4182
www.aqmd.gov

Maps showing the source/receptor area boundaries can be accessed via the Internet by entering your address in the AQMD [Current Hourly Air Quality Map](http://www2.aqmd.gov/webapp/gisaqi2/VEMap3D.aspx), accessed from <http://www2.aqmd.gov/webapp/gisaqi2/VEMap3D.aspx> or at <http://www.aqmd.gov/map/MapAQMD2.pdf>. A map is also available free of charge from the AQMD Public Information Center at 1-800-CUT-SMOG.

**2008 AIR QUALITY
SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT**

2008

| Source/Receptor Area No. Location | Station No. | | Suspended Particulates PM10 ^{f)} | | | | | Fine Particulates PM2.5 ^{g)} | | | | | Particulates TSP ^{h)} | | | Lead ^{h)} | | Sulfate ^{h)} | | | |
|--------------------------------------|----------------------------------|---------------|---|---|---|--------------------------------------|--|---------------------------------------|---|--|--|--|--|------------------|---|--|--|--|---|--|----|
| | State Code | District Code | No. Days of Data | Max. Conc. in µg/m ³ 24-hour | No. (%) Samples Exceeding Standards | | Annual Average Conc. ⁱ⁾ µg/m ³ | No. Days of Data | Max. Conc. in µg/m ³ 24-hour | 98 th Percentile Conc. in µg/m ³ 24-hour | No. (%) Samples Exceeding Federal Standard | | Annual Average Conc. ^{k)} µg/m ³ | No. Days of Data | Max. Conc. in µg/m ³ 24-hour | Annual Average Conc. (AAM) µg/m ³ | Max. Monthly Average Conc. ^{l)} µg/m ³ | Max. Quarterly Average Conc. ^{l)} µg/m ³ | Max. Conc. in µg/m ³ 24-hour | %Samples Exceeding Standard ≥ 25 µg/m ³ 24-hour | |
| | | | | | Federal > 150 µg/m ³ 24-hour | State > 50 µg/m ³ 24-hour | | | | | Current > 35 ^{j)} µg/m ³ 24-hour | Old > 65 ^{j)} µg/m ³ 24-hour | | | | | | | | | |
| LOS ANGELES COUNTY | | | | | | | | | | | | | | | | | | | | | |
| 1 | Central LA | 70087 | 087 | 45* | 66* | 0* | 2(4%)* | 30.9* | 337 | 78.3 | 40.4 | 10(3.0) | 1(0.3) | 15.7 | 63 | 112 | 65.6 | 0.02 | 0.02 | 14.4 | 0 |
| 2 | Northwest Coastal LA County | 70091 | 091 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 56 | 88 | 45.9 | -- | -- | 11.1 | 0 |
| 3 | Southwest Coastal LA County | 70111 | 820 | 60 | 50 | 0 | 0(0%) | 25.6 | -- | -- | -- | -- | -- | -- | 54 | 85 | 42.4 | 0.01 | 0.01 | 14.0 | 0 |
| 4 | South Coastal LA County 1 | 70072 | 072 | 57 | 62 | 0 | 1(2%) | 29.1 | 346 | 57.2 | 38.9 | 8(2.3) | 0 | 14.2 | 61 | 117 | 55.7 | 0.01 | 0.01 | 11.0 | 0 |
| 4 | South Coastal LA County 2 | 70110 | 077 | 58 | 81 | 0 | 9(16%) | 35.8 | 349 | 60.9 | 36.4 | 7(2.0) | 0 | 13.7 | 59 | 130 | 61.2 | 0.01 | 0.01 | 13.2 | 0 |
| 6 | West San Fernando Valley | 70074 | 074 | -- | -- | -- | -- | -- | 113 | 50.5 | 26.2 | 2(1.8) | 0 | 11.9 | -- | -- | -- | -- | -- | -- | -- |
| 7 | East San Fernando Valley | 70069 | 069 | 54 | 66 | 0 | 7(13%) | 35.6 | 116 | 57.5 | 34.6 | 2(1.7) | 0 | 14.1 | -- | -- | -- | -- | -- | -- | -- |
| 8 | West San Gabriel Valley | 70088 | 088 | -- | -- | -- | -- | -- | 118 | 66.0 | 32.1 | 2(1.7) | 1(0.9) | 12.9 | 55 | 108 | 46.7 | -- | -- | 14.1 | 0 |
| 9 | East San Gabriel Valley 1 | 70060 | 060 | 49 | 98 | 0 | 13(27%) | 35.3 | 321 | 53.1 | 34.8 | 5(1.6) | 0 | 14.1 | 59 | 146 | 74.9 | -- | -- | 18.7 | 0 |
| 9 | East San Gabriel Valley 2 | 70591 | 591 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 10 | Pomona/Walnut Valley | 70075 | 075 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 11 | South San Gabriel Valley | 70185 | 085 | -- | -- | -- | -- | -- | 114 | 47.3 | 38.0 | 4(3.5) | 0 | 15.0 | 57 | 119 | 63.2 | 0.02 | 0.02 | 10.1 | 0 |
| 12 | South Central LA County+ | 70084+ | 084+ | -- | -- | -- | -- | -- | 118 | 44.2 | 36.5 | 3(2.5) | 0 | 15.5 | 51 | 103 | 70.4 | 0.03 | 0.02 | 10.6 | 0 |
| 13 | Santa Clarita Valley | 70090 | 090 | 57 | 91 | 0 | 2(4%) | 25.8 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| ORANGE COUNTY | | | | | | | | | | | | | | | | | | | | | |
| 16 | North Orange County | 30177 | 3177 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 17 | Central Orange County | 30178 | 3176 | 58 | 61 | 0 | 3(5%) | 28.6 | 336 | 67.9 | 39.4 | 13(3.9) | 1(0.3) | 13.7 | -- | -- | -- | -- | -- | -- | -- |
| 18 | North Coastal Orange County | 30195 | 3195 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 19 | Saddleback Valley | 30002 | 3812 | 55 | 42 | 0 | 0(0%) | 22.6 | 120 | 32.6 | 27.1 | 0 | 0 | 10.4 | -- | -- | -- | -- | -- | -- | -- |
| RIVERSIDE COUNTY | | | | | | | | | | | | | | | | | | | | | |
| 22 | Norco/Corona | 33155 | 4155 | 61 | 86 | 0 | 9(15%) | 34.4 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 23 | Metropolitan Riverside County 1 | 33144 | 4144 | 120 | 115 | 0 | 49(41%) | 46.6 | 348 | 57.7 | 41.5 | 14(4.0) | 0 | 16.4 | 59 | 222 | 100.6 | 0.01 | 0.01 | 9.1 | 0 |
| 23 | Metropolitan Riverside County 2 | 33146 | 4146 | -- | -- | -- | -- | -- | 116 | 43.0 | 39.1 | 4(3.4) | 0 | 13.4 | 63 | 130 | 69.4 | 0.01 | 0.01 | 7.1 | 0 |
| 23 | Mira Loma | 33165 | 5214 | 61 | 135 | 0 | 35(57%) | 57.4 | 111 | 50.9 | 47.1 | 10(9.0) | 0 | 18.2 | -- | -- | -- | -- | -- | -- | -- |
| 24 | Perris Valley | 33149 | 4149 | 45* | 85* | 0* | 12(27%)* | 38.3* | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 25 | Lake Elsinore | 33158 | 4158 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 29 | Banning Airport | 33164 | 4164 | 56 | 51 | 0 | 1(2%) | 26.1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 30 | Coachella Valley 1** | 33137 | 4137 | 47* | 75* | 0* | 4(9%)* | 23.2* | 110 | 18.1 | 17.1 | 0 | 0 | 7.2 | -- | -- | -- | -- | -- | -- | -- |
| 30 | Coachella Valley 2** | 33157 | 4157 | 112 | 128 | 0 | 25(22%) | 39.9 | 113 | 21.6 | 18.8 | 0 | 0 | 8.4 | -- | -- | -- | -- | -- | -- | -- |
| SAN BERNARDINO COUNTY | | | | | | | | | | | | | | | | | | | | | |
| 32 | Northwest San Bernardino Valley | 36175 | 5175 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 54 | 87 | 52.2 | 0.01 | 0.01 | 8.4 | 0 |
| 33 | Southwest San Bernardino Valley | 36025 | 5817 | 62 | 90 | 0 | 15(24%) | 38.8 | 113 | 54.2 | 45.0 | 6(5.3) | 0 | 15.8 | -- | -- | -- | -- | -- | -- | -- |
| 34 | Central San Bernardino Valley 1 | 36197 | 5197 | 60 | 75 | 0 | 14(23%) | 40.3 | 112 | 49.0 | 47.1 | 6(5.4) | 0 | 15.4 | 57 | 139 | 80 | -- | -- | 9.5 | 0 |
| 34 | Central San Bernardino Valley 2 | 36203 | 5203 | 60 | 76 | 0 | 19(32%) | 42.7 | 110 | 43.5 | 40.1 | 3(2.7) | 0 | 13.5 | 59 | 166 | 83.6 | 0.02 | 0.02 | 8.6 | 0 |
| 35 | East San Bernardino Valley | 36204 | 5204 | 61 | 58 | 0 | 4(7%) | 29.0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 37 | Central San Bernardino Mountains | 36181 | 5181 | 39* | 41* | 0* | 0(0%)* | 23.9* | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 38 | East San Bernardino Mountains | 36001 | 5818 | -- | -- | -- | -- | -- | 58 | 36.8 | 33.3 | 1(1.7) | 0 | 9.2 | -- | -- | -- | -- | -- | -- | -- |
| DISTRICT MAXIMUM | | | | | 135 | 0 | 49 | 57.4 | | 78.3 | 47.1 | 14 | 1 | 18.2 | | 222 | 100.6 | 0.03 | 0.02 | 18.7 | 0 |
| SOUTH COAST AIR BASIN | | | | | 135 | 0 | 68 | 57.4 | | 78.3 | 47.1 | 28 | 2 | 18.2 | | 222 | 100.6 | 0.03 | 0.02 | 18.7 | 0 |

µg/m³ - Micrograms per cubic meter of air.

AAM = Annual Arithmetic Mean

-- - Pollutant not monitored.

* Less than 12 full months of data; may not be representative.

** Salton Sea Air Basin.

+ Site was relocated.

f) - PM10 samples were collected every 6 days at all sites except for Station Numbers 4144 and 4157 where samples were collected every 3 days.

g) - PM2.5 samples were collected every 3 days at all sites except for the following sites: Station Numbers 060, 072, 077, 087, 3176, and 4144 where samples were taken every day, and Station Number 5818 where samples were taken every 6 days.

h) - Total suspended particulates, lead, and sulfate were determined from samples collected every 6 days by the high volume sampler method, on glass fiber filter media.

i) - Federal annual PM10 standard (AAM > 50 µg/m³) was revoked effective December 17, 2006. State standard is annual average (AAM) > 20 µg/m³.

j) - U.S. EPA has revised the federal 24-hour PM2.5 standard from 65 µg/m³ to 35 µg/m³; effective December 17, 2006.

k) - Federal PM2.5 standard is annual average (AAM) > 15 µg/m³. State standard is annual average (AAM) > 12 µg/m³.

l) - Federal lead standard is quarterly average > 1.5 µg/m³; and state standard is monthly average ≥ 1.5 µg/m³. U.S. EPA has established the federal standard of 0.15 µg/m³, rolling 3-month average, as of October 15, 2008.

Maps showing the source/receptor area boundaries can be accessed via the Internet by entering your address in the AQMD [Current Hourly Air Quality Map](http://www2.aqmd.gov/webapp/gisaq12/VEMap3D.aspx), accessed from <http://www2.aqmd.gov/webapp/gisaq12/VEMap3D.aspx> or at <http://www.aqmd.gov/map/MapAQMD2.pdf>. A map is also available free of charge from the AQMD Public Information Center at 1-800-CUT-SMOG.



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Appendix C

Regional Construction Emissions

UNMITIGATED CONSTRUCTION EMISSIONS CALCULATIONS

| Buried Concrete Cover - Fugitive Dust Emissions - Inputs for ISC-AERMOD | | |
|---|------------------|---------------------|
| | Weight Conv. [a] | Time Adjustment [b] |
| | 453.59 | 28,800 |
| Project Phase | lb/day [c] | g/s |
| PM10 | 32.3 | 0.5085563 |
| PM2.5 | 6.6 | 0.10379 |

[a] Weight conversion is the amount of grams per pound.
 [b] Time adjustment is the number of seconds in 8 hours (1 day of grading).
 [c] Pounds per day emissions rate from construction emissions developed using Offroad 2007 and EMFAC 2007 emissions factors.

| Alternative 1 - Off-Road Equipment Emissions | | | | |
|--|--------|---------|--------|--------|
| Daily Emissions (ppd) | CO | NO2 [1] | PM2.5 | PM10 |
| | 51 | 11 | 3.9 | 4.3 |
| Conversion to Grams/Second | NO2 | PM2.5 | PM10 | |
| | 0.7964 | 0.1730 | 0.0621 | 0.0677 |

| Alternative 1 - Mitigated Off-Road Equipment Emissions | | | | |
|--|--------|---------|--------|--------|
| Daily Emissions (ppd) | CO | NO2 [1] | PM2.5 | PM10 |
| | 48 | 10 | 3.7 | 4.1 |
| Conversion to Grams/Second | NO2 | PM2.5 | PM10 | |
| | 0.7566 | 0.1643 | 0.0590 | 0.0643 |

[1] Used 10% of NOX as NO2 value for input into AERMOD

Buried Concrete Cover Phase 1 Regional Construction Emissions

| | | |
|--|------------------------|----------------------------------|
| DEMOLITION | Construction Activity | |
| | Demolition of Existing | 310,000 Square Foot ^a |
| Demolition Schedule - 40 days^a | | |

| | | | |
|---|------------------------------------|-------------------------------------|-----------------------------------|
| Fugitive Dust Material Handling | | | |
| Aerodynamic Particle Size Multiplier^b | Mean Wind Speed^c | Moisture Content^d | Debris Handled^e |
| 0.35 | 5 mph | 2.0 | 357 ton/day |

| | | | |
|---|---------------------------|-----------------------------------|------------------------|
| Incremental Increase in Onsite Fugitive Dust Emissions from Construction Equipment | | | |
| Material Handling ^f : (0.0032 x Aerodynamic Particle Size Multiplier x (wind speed (mph)/5) ^{1.3} /(moisture content/2) ^{1.4} x debris handled (ton/day)) x (1 - control efficiency) = PM10 Emissions (lb/day) | | | |
| Description | Control Efficiency | PM10 Mitigated^h | PM2.5 Mitigated |
| | % | lb/day | lb/day |
| Material Handling (Demolition) ^f | 61 | 0.16 | 0.03 |
| Material Handling (Debris) | 61 | 0.16 | 0.03 |
| Total | | 0.32 | 0.07 |

Notes:

a) Includes removal of existing reservoir's asphalt lining; the inlet structure and portions of the inlet line; the outlet tower and portions of the outlet lines, and the surrounding parapet wall and fence.

b) USEPA, AP-42, Jan 1995, Section 13.2.4 Aggregate Handling and Storage Piles, p 13.2.4-3 Aerodynamic particle size multiplier for < 10 µm

c) Mean wind speed - maximum of daily average wind speeds reported in 1981 meteorological data.

d) USEPA, Fugitive Dust Background Document and Technical Information Document for Best Available Control Measures, equation 2-13, p 2-28

e) USEPA, Fugitive Dust Background Document and Technical Information Document for Best Available Control Measures, p 2-28. Debris weight to area ratio = 0.046 ton/sq ft (310,000 sq ft x 0.046 ton/sq ft)/40 days = 357 ton/day

f) USEPA, Fugitive Dust Background Document and Technical Information Document for Best Available Control Measures, equation 2-13, p 2-28. EPA suggests using the material handling equation for demolition emission estimates.

g) EPA suggests using the material handling equation for demolition emission estimates.

h) Includes watering at least three times a day per Rule 403 (61% control efficiency)

| | | | | |
|--------------------------------|--|----------------------------------|---------------------|--|
| Fugitive Dust Emissions | | Site Preparation Activity | | |
| | | Excavation | 310,000 Square Feet | |
| Schedule - | | 20 days^a | | |

| | |
|--|-------------------------------|
| Fugitive Dust Parameters | |
| Vehicle Speed (mph)^f | Vehicle Miles Traveled |
| 3 | 69.70 |

| | | | | |
|---|---------------------------------------|--------------------------------|---------------------|---------------------------------|
| Fugitive Dust Stockpiling Parameters | | | | |
| Silt Content^f | Precipitation Days^g | Mean Wind Speed Percent | TSP Fraction | Area^h (acres) |
| 6.9 | 10 | 5.00 | 0.5 | 1 |

| | | | | |
|---|------------------------------------|-------------------------------------|---------------------|---------------------|
| Fugitive Dust Material Handling | | | | |
| Aerodynamic Particle Size Multiplier^f | Mean Wind Speed^d | Moisture Content^f | Dirt Handled | Dirt Handled |
| | mph | | cy | lb/day |
| 0.35 | 5.0 | 7.9 | 5,000 | 625,000 |

| | | | |
|----------------------------|-------------------------------------|---------------------------------------|--|
| Dragline Parameters | | | |
| Drop Height (feet) | Moisture Content^f | PM₁₀ Scaling Factor | PM_{2.5} Scaling Factor |
| 3 | 7.9% | 0.75 | 0.017 |

| | | | |
|----------------------------|----------------------------------|-------------|--------------|
| | Max Daily Grading (acres) | PM10 | PM2.5 |
| Site Prep - Grading | 1.00 | 23.3 | 4.8 |

| | | | |
|---|---------------------------|-------------------------|--------------------------|
| Incremental Increase in Fugitive Dust Emissions from Construction Operations | | | |
| Equations: | | | |
| Storage Piles ^g : PM10 Emissions (lb/day) = 1.7 x (silt content/1.5) x ((365-precipitation days)/235) x wind speed percent/15 x TSP fraction x Area x (1 - control efficiency) | | | |
| Material Handling ^h : PM10 Emissions (lb/day) = (0.0032 x aerodynamic particle size multiplier x (wind speed (mph)/5) ^{1.3} /(moisture content/2) ^{1.4} x dirt handled (lb/day)/2,000 (lb/ton) (1 - control efficiency)) | | | |
| Dragline Equation for PM ₁₀ Emissions ⁱ (lbs/day) = (((0.0021) x (drop height) ^{1.3}) / (moisture content) ^{1.4}) x 0.75 x Dirt Handled x Control Efficiency | | | |
| Dragline Equation for PM _{2.5} Emissions ⁱ (lbs/day) = (((0.0021) x (drop height) ^{1.3}) / (moisture content) ^{1.4}) x 0.017 x Dirt Handled x Control Efficiency | | | |
| Grading Equation for PM10 is based on URBEMIS2007's rate for grading dust of 38.2 pounds per acre, and applied 61% reduction based on Rule 403 | | | |
| Phase I | Control Efficiency | PM10^h | PM2.5^h |
| Description | % | lb/day | lb/day |
| Earthmoving | 61 | 7.490 | 1.558 |
| Storage Piles | 61 | 0.77 | 0.160 |
| Material Handling | 61 | 0.02 | 0.004 |
| Dragline | 61 | 0.710 | 0.016 |
| Grading | 61 | 23.302 | 4.847 |
| Total | | 32.29 | 6.59 |

Notes

a) Assumed 46 haul truck trips a day at 20 cubic yards a load, worst single-day scenario, 4000 foot long area 12 foot wide.

b) Caterpillar Performance Handbook, Edition 33, October 2003 Operating Speeds, p 2-3.

c) USEPA, AP-42, July 1998, Table 11.9-3 Typical Values for Correction Factors Applicable to the Predictive Emission Factor Equations

d) Table A9-9-E2, SCAQMD CEQA Air Quality Handbook, 1993

e) Mean wind speed percent - percent of time mean wind speed exceeds 12 mph.

f) Assumed storage piles are 5 acres in size

g) USEPA, AP-42, Jan 1995, Section 13.2.4 Aggregate Handling and Storage Piles, p 13.2.4-3 Aerodynamic particle size multiplier for < 10 µm

h) Mean wind speed at the Downtown Los Angeles Wind Monitoring Station.

i) USEPA, Fugitive Dust Background Document and Technical Information Document for Best Available Control Measures, equation 2-13, p 2-28.

j) Assuming 5000 cubic yards of dirt handled

k) USEPA, AP-42, July 1998, Table 11.9-1, Equation for Site Grading: 10 µm

l) USEPA, AP-42, Jan 1995, Section 13.2.4 Aggregate Handling and Storage Piles, Equation 1

m) USEPA, Fugitive Dust Background Document and Technical Information Document for Best Available Control Measures, Sept 1992, EPA-450/2-92-004, Equation 2-12.

n) Includes watering at least three times a day per Rule 403 (61% control efficiency).

o) Source: USEPA, AP-42, Emission Factor Equations for Uncontrolled Dust Sources at Western Surface Coal Mines, Table 11.9-1, Dragline calculations for PM₁₀ and PM_{2.5}.

| Qty | Operating Hrs/WD/each | Total Operating Hours Per Day | Off-Road Row | Month | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
|----------------------------------|-----------------------|-------------------------------|--------------|--|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|
| 1/2 Ton Pickup (Commute Vehicle) | 5 | 4 | 20 | Off-site worker use | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |
| 3/4 Ton Pickup | 2 | 8 | 16 | Emfac; Assumes 5 VMT Per Day/Vehicle | | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 |
| 1 Ton Pickup | 2 | 8 | 16 | Emfac; Assumes 5 VMT Per Day/Vehicle | | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 |
| 4000 Gallon Water Truck | 1 | 4 | 4 | 108 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| Dump Trucks | 20 | 8 | 160 | Emfac; Assumes 5 VMT Per Day/Vehicle | | | | | | | | | | | | | | | | 160 |
| Yard Crane, ATV | 2 | 8 | 16 | 51 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 |
| Loader/ForksCat 966, | 1 | 8 | 8 | 230 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| Job Trailers (3) | 3 | 2 | 6 | No Emissions | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| Grader, Cat 16G | 1 | 4 | 4 | 97 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| Dozer, D10 | 2 | 8 | 16 | 57 | | | | | | | | | | | | | | | | 16 |
| Excavator, Cat 365 | 1 | 4 | 4 | 75 | | | | | | | | | | | | | | | | 4 |
| Roller/Compactor | 1 | 4 | 4 | 174 | | | | | | | | | | | | | | | | 4 |
| Manitowoc Crane | 1 | 8 | 8 | 51 | | | | | | | | | | | | | | | | |
| Hydraulic Breaker | 2 | 2 | 4 | Hydraulic Breakers are typically run off of another piece of equipment. In this case, it is likely ran off of one of the cranes. | | | | | | | | | | | | | | | | 4 |
| Misc. | 10 | 2 | 20 | 119 | | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |

| | Month 1 | | | | | | | | | | | | | | | |
|----------------------------------|---------------|-------------------|--------------|------------------|---------------|-------------------|---------------|-------------------|----------------|-----------------|--------------|------------------|---------------|-------------------|---------------|-------------------|
| | VOC (lbs/day) | VOC Rate (lbs/hr) | CO (lbs/day) | CO rate (lbs/hr) | NOX (lbs/day) | NOX rate (lbs/hr) | SOX (lbs/day) | SOX rate (lbs/hr) | PM10 (lbs/day) | PM2.5 (lbs/day) | PM (lbs/day) | PM rate (lbs/hr) | CO2 (lbs/day) | CO2 Rate (lbs/hr) | CH4 (lbs/day) | CH4 rate (lbs/hr) |
| 1/2 Ton Pickup (Commute Vehicle) | | | | | | | | | | | | | | | | |
| 3/4 Ton Pickup | | | | | | | | | | | | | | | | |
| 1 Ton Pickup | | | | | | | | | | | | | | | | |
| 4000 Gallon Water Truck | 0.50 | 0.1252 | 1.48 | 0.3702 | 3.93 | 0.9818 | 0.01 | 0.0019 | 0.1311 | 0.1206 | 0.13 | 0.0328 | 666.18 | 167 | 0.05 | 0.0113 |
| Dump Trucks | | | | | | | | | | | | | | | | |
| Yard Crane, ATV | 1.93 | 0.1204 | 7.03 | 0.4395 | 16.32 | 1.0200 | 0.02 | 0.0014 | 0.6811 | 0.6266 | 0.68 | 0.0426 | 2058.09 | 129 | 0.17 | 0.0109 |
| Loader/ForksCat 966, | 0.87 | 0.1082 | 2.85 | 0.3566 | 7.24 | 0.9047 | 0.02 | 0.0019 | 0.2349 | 0.2161 | 0.23 | 0.0294 | 1373.90 | 172 | 0.08 | 0.0098 |
| Job Trailers (3) | | | | | | | | | | | | | | | | |
| Grader, Cat 16G | 0.53 | 0.1326 | 1.62 | 0.4046 | 4.64 | 1.1596 | 0.01 | 0.0019 | 0.1599 | 0.1471 | 0.16 | 0.0400 | 688.45 | 172 | 0.05 | 0.0120 |
| Dozer, D10 | | | | | | | | | | | | | | | | |
| Excavator, Cat 365 | | | | | | | | | | | | | | | | |
| Roller/Compactor | | | | | | | | | | | | | | | | |
| Manitowoc Crane | | | | | | | | | | | | | | | | |
| Hydraulic Breaker | | | | | | | | | | | | | | | | |
| Misc. | 3.82 | | 12.98 | | 32.12 | | 0.05 | | 1.21 | 1.11 | 1.21 | | 4786.62 | | 0.34 | |

2015

| | Months 2-13 | | | | | | | | | | | | | | | |
|----------------------------------|---------------|-------------------|--------------|------------------|---------------|-------------------|---------------|-------------------|----------------|-----------------|--------------|------------------|---------------|-------------------|---------------|-------------------|
| | VOC (lbs/day) | VOC Rate (lbs/hr) | CO (lbs/day) | CO rate (lbs/hr) | NOX (lbs/day) | NOX rate (lbs/hr) | SOX (lbs/day) | SOX rate (lbs/hr) | PM10 (lbs/day) | PM2.5 (lbs/day) | PM (lbs/day) | PM rate (lbs/hr) | CO2 (lbs/day) | CO2 Rate (lbs/hr) | CH4 (lbs/day) | CH4 rate (lbs/hr) |
| 1/2 Ton Pickup (Commute Vehicle) | | | | | | | | | | | | | | | | |
| 3/4 Ton Pickup | 0.0027 | | 0.0688 | | 0.0071 | | 0.0002 | | 0.0018 | 0.0013 | | | 15.7768 | | 0.0009 | |
| 1 Ton Pickup | 0.0043 | | 0.0868 | | 0.0094 | | 0.0002 | | 0.0018 | 0.0014 | | | 21.5313 | | 0.0012 | |
| 4000 Gallon Water Truck | 0.50 | 0.1252 | 1.48 | 0.3702 | 3.93 | 0.9818 | 0.01 | 0.0019 | 0.1311 | 0.1206 | 0.13 | 0.0328 | 666.18 | 167 | 0.05 | 0.0113 |
| Dump Trucks | | | | | | | | | | | | | | | | |
| Yard Crane, ATV | 1.93 | 0.1204 | 7.03 | 0.4395 | 16.32 | 1.0200 | 0.02 | 0.0014 | 0.6811 | 0.6266 | 0.68 | 0.0426 | 2058.09 | 129 | 0.17 | 0.0109 |
| Loader/ForksCat 966, | 0.87 | 0.1082 | 2.85 | 0.3566 | 7.24 | 0.9047 | 0.02 | 0.0019 | 0.2349 | 0.2161 | 0.23 | 0.0294 | 1373.90 | 172 | 0.08 | 0.0098 |
| Job Trailers (3) | | | | | | | | | | | | | | | | |
| Grader, Cat 16G | 0.53 | 0.1326 | 1.62 | 0.4046 | 4.64 | 1.1596 | 0.01 | 0.0019 | 0.1599 | 0.1471 | 0.16 | 0.0400 | 688.45 | 172 | 0.05 | 0.0120 |
| Dozer, D10 | | | | | | | | | | | | | | | | |
| Excavator, Cat 365 | | | | | | | | | | | | | | | | |
| Roller/Compactor | | | | | | | | | | | | | | | | |
| Manitowoc Crane | | | | | | | | | | | | | | | | |
| Hydraulic Breaker | | | | | | | | | | | | | | | | |
| Misc. | 1.54 | 0.0768 | 7.29 | 0.3645 | 12.78 | 0.6392 | 0.03 | 0.0013 | 0.5274 | 0.4852 | 0.53 | 0.0264 | 2451.96 | 123 | 0.14 | 0.0069 |
| | 5.37 | | 20.43 | | 44.92 | | 0.08 | | 1.74 | 1.60 | 1.73 | | 7275.89 | | 0.49 | |

2015

| | Months 14-15 | | | | | | | | | | | | | | | |
|----------------------------------|---------------|-------------------|--------------|------------------|---------------|-------------------|---------------|-------------------|----------------|-----------------|--------------|------------------|---------------|-------------------|---------------|-------------------|
| | VOC (lbs/day) | VOC Rate (lbs/hr) | CO (lbs/day) | CO rate (lbs/hr) | NOX (lbs/day) | NOX rate (lbs/hr) | SOX (lbs/day) | SOX rate (lbs/hr) | PM10 (lbs/day) | PM2.5 (lbs/day) | PM (lbs/day) | PM rate (lbs/hr) | CO2 (lbs/day) | CO2 Rate (lbs/hr) | CH4 (lbs/day) | CH4 rate (lbs/hr) |
| 1/2 Ton Pickup (Commute Vehicle) | | | | | | | | | | | | | | | | |
| 3/4 Ton Pickup | 0.0025 | | 0.0653 | | 0.0066 | | 0.0002 | | 0.0018 | 0.0014 | | | 15.7793 | | 0.0009 | |
| 1 Ton Pickup | 0.0039 | | 0.0821 | | 0.0088 | | 0.0002 | | 0.0018 | 0.0014 | | | 21.5289 | | 0.0011 | |
| 4000 Gallon Water Truck | 0.50 | 0.1252 | 1.48 | 0.3702 | 3.93 | 0.9818 | 0.01 | 0.0019 | 0.1311 | 0.1206 | 0.13 | 0.0328 | 666.18 | 167 | 0.05 | 0.0113 |
| Dump Trucks | | | | | | | | | | | | | | | | |
| Yard Crane, ATV | 1.93 | 0.1204 | 7.03 | 0.4395 | 16.32 | 1.0200 | 0.02 | 0.0014 | 0.6811 | 0.6266 | 0.68 | 0.0426 | 2058.09 | 129 | 0.17 | 0.0109 |

2016

| | | | | | | | | | | | | | | | | |
|----------------------|-------------|--------|--------------|--------|--------------|--------|-------------|--------|-------------|-------------|-------------|--------|----------------|-----|-------------|--------|
| Loader/ForksCat 966, | 0.87 | 0.1082 | 2.85 | 0.3566 | 7.24 | 0.9047 | 0.02 | 0.0019 | 0.2349 | 0.2161 | 0.23 | 0.0294 | 1373.90 | 172 | 0.08 | 0.0098 |
| Job Trailers (3) | | | | | | | | | | | | | | | | |
| Grader, Cat 16G | 0.53 | 0.1326 | 1.62 | 0.4046 | 4.64 | 1.1596 | 0.01 | 0.0019 | 0.1599 | 0.1471 | 0.16 | 0.0400 | 688.45 | 172 | 0.05 | 0.0120 |
| Dozer, D10 | | | | | | | | | | | | | | | | |
| Excavator, Cat 365 | | | | | | | | | | | | | | | | |
| Roller/Compactor | | | | | | | | | | | | | | | | |
| Manitowoc Crane | | | | | | | | | | | | | | | | |
| Hydraulic Breaker | | | | | | | | | | | | | | | | |
| Misc. | 1.54 | 0.0768 | 7.29 | 0.3645 | 12.78 | 0.6392 | 0.03 | 0.0013 | 0.5274 | 0.4852 | 0.53 | 0.0264 | 2451.96 | 123 | 0.14 | 0.0069 |
| | 5.37 | | 20.42 | | 44.92 | | 0.08 | | 1.74 | 1.60 | 1.73 | | 7275.89 | | 0.49 | |

2016

| Month 16 | | | | | | | | | | | | | | | | |
|----------------------------------|---------------|-------------------|--------------|------------------|---------------|-------------------|---------------|-------------------|----------------|-----------------|--------------|------------------|-----------------|-------------------|---------------|-------------------|
| | VOC (lbs/day) | VOC Rate (lbs/hr) | CO (lbs/day) | CO rate (lbs/hr) | NOX (lbs/day) | NOX rate (lbs/hr) | SOX (lbs/day) | SOX rate (lbs/hr) | PM10 (lbs/day) | PM2.5 (lbs/day) | PM (lbs/day) | PM rate (lbs/hr) | CO2 (lbs/day) | CO2 Rate (lbs/hr) | CH4 (lbs/day) | CH4 rate (lbs/hr) |
| 1/2 Ton Pickup (Commute Vehicle) | | | | | | | | | | | | | | | | |
| 3/4 Ton Pickup | 0.0025 | | 0.0653 | | 0.0066 | | 0.0002 | | 0.0018 | 0.0014 | | | 15.7793 | | 0.0009 | |
| 1 Ton Pickup | 0.0039 | | 0.0821 | | 0.0088 | | 0.0002 | | 0.0018 | 0.0014 | | | 21.5289 | | 0.0011 | |
| 4000 Gallon Water Truck | 0.50 | 0.1252 | 1.48 | 0.3702 | 3.93 | 0.9818 | 0.01 | 0.0019 | 0.1311 | 0.1206 | 0.13 | 0.0328 | 666.18 | 167 | 0.05 | 0.0113 |
| Dump Trucks | 0.3810 | | 1.1184 | | 2.2090 | | 0.0055 | | 0.1173 | 0.0996 | | | 572.3049 | | 0.0176 | |
| Yard Crane, ATV | 1.93 | 0.1204 | 7.03 | 0.4395 | 16.32 | 1.0200 | 0.02 | 0.0014 | 0.6811 | 0.6266 | 0.68 | 0.0426 | 2058.09 | 129 | 0.17 | 0.0109 |
| Loader/ForksCat 966, | 0.87 | 0.1082 | 2.85 | 0.3566 | 7.24 | 0.9047 | 0.02 | 0.0019 | 0.2349 | 0.2161 | 0.23 | 0.0294 | 1373.90 | 172 | 0.08 | 0.0098 |
| Job Trailers (3) | | | | | | | | | | | | | | | | |
| Grader, Cat 16G | 0.53 | 0.1326 | 1.62 | 0.4046 | 4.64 | 1.1596 | 0.01 | 0.0019 | 0.1599 | 0.1471 | 0.16 | 0.0400 | 688.45 | 172 | 0.05 | 0.0120 |
| Dozer, D10 | 6.62 | 0.4140 | 23.90 | 1.4936 | 55.78 | 3.4863 | 0.07 | 0.0047 | 2.1226 | 1.9528 | 2.12 | 0.1327 | 7434.99 | 465 | 0.60 | 0.0374 |
| Excavator, Cat 365 | 0.63 | 0.1577 | 1.99 | 0.4964 | 4.85 | 1.1619 | 0.01 | 0.0023 | 0.1653 | 0.1521 | 0.17 | 0.0413 | 934.94 | 234 | 0.06 | 0.0142 |
| Roller/Compactor | 0.34 | 0.0851 | 1.59 | 0.3979 | 2.28 | 0.5706 | 0.00 | 0.0008 | 0.1543 | 0.1420 | 0.15 | 0.0386 | 268.20 | 67.1 | 0.03 | 0.0077 |
| Manitowoc Crane | | | | | | | | | | | | | | | | |
| Hydraulic Breaker | | | | | | | | | | | | | | | | |
| Misc. | 1.54 | 0.0768 | 7.29 | 0.3645 | 12.78 | 0.6392 | 0.03 | 0.0013 | 0.5274 | 0.4852 | 0.53 | 0.0264 | 2451.96 | 123 | 0.14 | 0.0069 |
| | 13.34 | | 49.02 | | 109.84 | | 0.17 | | 4.30 | 3.94 | 4.18 | | 16486.33 | | 1.19 | |

| DUST EMISSIONS | | |
|----------------|-------------------------------|--------------------------------|
| | Unmitigated PM10 ^a | Unmitigated PM2.5 ^b |
| Total | 32.290 | 6.5900 |

| WORKER VEHICLES | | | | | | | | | | | |
|--------------------------------|-----------------|-------------------|----------------------|---------------|------|------|------|------|------|-------|----------|
| WORKER VEHICLE EMISSIONS (ppd) | | | | | | | | | | | |
| | # of Workers[1] | Round Trip Length | # of Worker Vehicles | Total VMT/Day | CO | VOC | NOX | SOX | PM10 | PM2.5 | CO2 |
| Worker Vehicles | 98 | 13.3 | 98 | 1,353.40 | 6.17 | 0.17 | 0.50 | 0.07 | 0.10 | 0.09 | 1,229.94 |

| TRUCK TRIPS | | | | | | | | | | |
|----------------------------------|---------------|-------------------|---------|------|------|-------|------|------|-------|----------|
| HEAVY-DUTY TRUCK EMISSIONS (ppd) | | | | | | | | | | |
| | Trips per Day | Round Trip Length | VMT/day | CO | VOC | NOX | SOX | PM10 | PM2.5 | CO2 |
| Dump Trucks (Off-site) | 46 | 32 | 1,472 | 9.29 | 2.11 | 24.06 | 0.06 | 1.06 | 0.97 | 6,244.47 |
| Dump Trucks (On-site) | 0 | 1 | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

| TOTAL EMISSIONS | | | | | | | |
|-----------------|--------------|--------------|---------------|-------------|--------------|--------------|------------------|
| | CO | VOC | NOX | SOX | PM10 | PM2.5 | CO2 |
| On-Site | 49.02 | 13.34 | 109.84 | 0.17 | 36.91 | 10.60 | 16,511.28 |
| Off-Site | 15.46 | 2.28 | 24.56 | 0.07 | 1.16 | 1.07 | 7,474.41 |
| TOTAL | 64.48 | 15.62 | 134.40 | 0.24 | 38.06 | 11.67 | 23,985.69 |

| | |
|------------------------|----------|
| Metric Tonnes Per Day | 11 |
| Metric Tonnes Per Year | 2828.729 |

[1] Trip length from URBEMIS2007.

| TOTAL MITIGATED EXHAUST EMISSIONS | | | | | | | |
|-----------------------------------|--------------|--------------|---------------|-------------|-------------|-------------|------------------|
| | CO | VOC | NOX | SOX | PM10 | PM2.5 | CO2 |
| On-Site | 46.56 | 12.67 | 104.35 | 0.16 | 4.08 | 3.75 | 16,511.28 |
| Off-Site | 14.69 | 2.17 | 23.33 | 0.07 | 1.10 | 1.01 | 7,474.41 |
| TOTAL | 61.25 | 14.84 | 127.68 | 0.23 | 5.18 | 4.76 | 23,985.69 |

| TOTAL MITIGATED EMISSIONS | | | | | | | |
|---------------------------|--------------|--------------|---------------|-------------|--------------|--------------|------------------|
| | CO | VOC | NOX | SOX | PM10 | PM2.5 | CO2 |
| On-Site | 46.56 | 12.67 | 104.35 | 0.16 | 36.69 | 10.40 | 16,511.28 |
| Off-Site | 14.69 | 2.17 | 23.33 | 0.07 | 1.10 | 1.01 | 7,474.41 |
| TOTAL | 61.25 | 14.84 | 127.68 | 0.23 | 37.79 | 11.42 | 23,985.69 |

| | |
|------------------------|----------|
| Metric Tonnes Per Day | 11 |
| Metric Tonnes Per Year | 2828.729 |

Buried Concrete Cover Phase 2 Regional Construction Emissions

| | | | | |
|--------------------------------|-----|----------------------------------|---------|--------------------------|
| Fugitive Dust Emissions | | Site Preparation Activity | | |
| | | Excavation | 310,000 | Square Feet ^a |
| Schedule - | 300 | days ^a | | |

| | |
|--|-------------------------------|
| Fugitive Dust Parameters | |
| Vehicle Speed (mph)^b | Vehicle Miles Traveled |
| 3 | 24.24 |

| | | | | |
|---|---------------------------|--------------------------------|---------------------|---------------------------------|
| Fugitive Dust Stockpiling Parameters | | | | |
| Silt Content^c | Precipitation Days | Mean Wind Speed Percent | TSP Fraction | Area^f (acres) |
| 6.9 | 10 | 5.00 | 0.5 | 1 |

| | | | | |
|---|------------------------|-------------------------------------|---------------------|---------------------|
| Fugitive Dust Material Handling | | | | |
| Aerodynamic Particle Size Multiplier^d | Mean Wind Speed | Moisture Content^f | Dirt Handled | Dirt Handled |
| | mph | | cy | lb/day |
| 0.35 | 5.0 | 7.9 | 167,000 | 1,391,667 |

| | | | |
|----------------------------|-------------------------------------|---------------------------------------|--|
| Dragline Parameters | | | |
| Drop Height (feet) | Moisture Content^f | PM₁₀ Scaling Factor | PM_{2.5} Scaling Factor |
| 3 | 7.9% | 0.75 | 0.017 |

| | | | | |
|----------------------------|--|----------------------------------|-------------|--------------|
| | | Max Daily Grading (acres) | PM10 | PM2.5 |
| Site Prep - Grading | | 1.00 | 23.3 | 4.8 |

Incremental Increase in Fugitive Dust Emissions from Construction Operations

Equations:

Storage Piles^k: PM10 Emissions (lb/day) = 1.7 x (silt content/1.5) x ((365-precipitation days)/235) x wind speed percent/15 x TSP fraction x Area x (1 - control efficiency)

Material Handling^k: PM10 Emissions (lb/day) = (0.0032 x aerodynamic particle size multiplier x (wind speed (mph)/5)^{1.3}/(moisture content)²)^{1.4} x dirt handled (lb/day)/2,000 (1 - control efficiency)

Dragline Equation for PM₁₀ Emissions^o (lbs/day) = [((0.0021) x (drop height)^{0.7}) / (moisture content)^{0.3}] x 0.75 x Dirt Handled x Control Efficiency

Dragline Equation for PM_{2.5} Emissions^o (lbs/day) = [((0.0021) x (drop height)^{1.1}) / (moisture content)^{0.3}] x 0.017 x Dirt Handled x Control Efficiency

Grading Equation for PM10 is based on URBEMIS2007's rate for grading dust of 38.2 pounds per acre, and applied 61% reduction based on Rule 403

| Phase I | Control Efficiency | PM10 ⁿ | PM2.5 ⁿ |
|--------------------|--------------------|-------------------|--------------------|
| Description | % | lb/day | lb/day |
| Earthmoving | 61 | 2.600 | 0.541 |
| Storage Piles | 61 | 0.77 | 0.160 |
| Material Handling | 61 | 0.04 | 0.008 |
| Dragline | 61 | 1.580 | 0.036 |
| Grading | 61 | 23.302 | 4.847 |
| Total | | 28.29 | 5.59 |

Notes

a) Assumed 16 haul truck trips a day at 20 cubic yards a load, worst single-day scenerio, 4000 foot long area 12 foot wide.

b) Caterpillar Performance Handbook, Edition 33, October 2003 Operating Speeds, p 2-3.

c) USEPA, AP-42, July 1998, Table 11.9-3 Typical Values for Corection Factors Applicable to the Predictive Emission Factor Equations

d) Table A9-9-E2, SCAQMD CEQA Air Quality Handbook, 1993

e) Mean wind speed percent - percent of time mean wind speed exceeds 12 mph.

f) Assumed storage piles are 5 acres in size

g) USEPA, AP-42, Jan 1995, Section 13.2.4 Aggretate Handling and Storage Piles, p 13.2.4-3 Aerodynamic particle size multiplier for < 10 μm

h) Mean wind speed at the Downtown Los Angeles Wind Monitoring Station.

i) USEPA, Fugitive Dust Background Document and Technical Information Document for Best Available Control Measures, equation 2-13, p 2-28.

j) Assuming 167000 cubic yards of dirt handled

k) USEPA, AP-42, July 1998, Table 11.9-1, Equation for Site Grading ≤ 10 μm

l) USEPA, AP-42, Jan 1995, Section 13.2.4 Aggretate Handling and Storage Piles, Equation 1

m) USEPA, Fugitive Dust Background Document and Technical Information Document for Best Available Control Measures, Sept 1992, EPA-450/2-92-004, Equation 2-12.

n) Includes watering at least three times a day per Rule 403 (61% control efficiency).

o) Source: USEPA, AP-42, Emission Factor Equations for Uncontrolled Dust Sources at Western Surface Coal Mines, Table 11.9-1, Dragline calculations for PM₁₀ and PM_{2.5}.

| Qty | Operating Hrs/WO/each | Total Operating Hours Per Day | Off-Road Row | Month | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 |
|----------------------------------|-----------------------|-------------------------------|-------------------------|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1/2 Ton Pickup (Commute Vehicle) | 5 | 4 | 20 Off-site worker use | | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |
| 3/4 Ton Pickup | 2 | 8 | 16 Emfac | | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 |
| 1 Ton Pickup | 2 | 8 | 16 Emfac | | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 |
| 4000 Gallon Water Truck | 1 | 4 | 4 | 108 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| Dump Trucks | 20 | 8 | 160 Emfac | | 160 | 160 | 160 | 160 | 160 | 160 | 160 | 160 | 160 | 160 | 160 | 160 | 160 | 160 | 160 | 160 | 160 | 160 | 160 |
| Yard Crane, ATV | 2 | 8 | 16 | 51 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 |
| Loader/Fork/Cat 966, | 1 | 8 | 8 | 230 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| Job Trailers (3) | 3 | 2 | 6 Emissions | | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| Grader, Cat 16G | 1 | 4 | 4 | 97 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| Dozer, D10 | 2 | 8 | 16 | 57 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 |
| Excavator, Cat 365 | 1 | 4 | 4 | 75 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| Roller/Compactor | 1 | 4 | 4 | 174 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| Manitowoc Crane | 1 | 8 | 8 | 51 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| Hydraulic Breaker | 2 | 2 | 4 of one of the cranes. | | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| Misc. | 10 | 2 | 20 | 119 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |

| Months 17-24 | | | | | | | | | | | | | | | |
|----------------------------------|-------------------|--------------|------------------|---------------|-------------------|---------------|-------------------|----------------|-----------------|--------------|------------------|---------------|-------------------|---------------|-------------------|
| VOC (lbs/day) | VOC Rate (lbs/hr) | CO (lbs/day) | CO rate (lbs/hr) | NOX (lbs/day) | NOX rate (lbs/hr) | SOX (lbs/day) | SOX rate (lbs/hr) | PM10 (lbs/day) | PM2.5 (lbs/day) | PM (lbs/day) | PM rate (lbs/hr) | CO2 (lbs/day) | CO2 Rate (lbs/hr) | CH4 (lbs/day) | CH4 rate (lbs/hr) |
| 1/2 Ton Pickup (Commute Vehicle) | 0.00 | | | | | | | | | | | | | | |
| 3/4 Ton Pickup | 0.00 | | 0.07 | | 0.01 | 0.00 | | 0.0018 | 0.0014 | | | 15.78 | | 0.00 | |
| 1 Ton Pickup | 0.00 | | 0.08 | | 0.01 | 0.00 | | 0.0018 | 0.0014 | | | 21.53 | | 0.00 | |
| 4000 Gallon Water Truck | 0.47 | 0.1179 | 1.46 | 0.3651 | 3.47 | 0.8678 | 0.01 | 0.0019 | 0.1162 | 0.1068 | 0.12 | 0.0290 | 686.18 | 167 | 0.04 |
| Dump Trucks | 0.38 | | 1.32 | | 2.21 | | 0.01 | | 0.1173 | 0.0986 | | | 572.30 | | 0.02 |
| Yard Crane, ATV | 1.82 | 0.1137 | 6.82 | 0.4263 | 15.02 | 0.9387 | 0.02 | 0.0014 | 0.6206 | 0.5709 | 0.62 | 0.0388 | 2058.07 | 129 | 0.16 |
| Loader/Fork/Cat 966, | 0.82 | 0.1025 | 2.83 | 0.3534 | 6.33 | 0.7914 | 0.02 | 0.0019 | 0.2081 | 0.1915 | 0.21 | 0.0260 | 1373.90 | 172 | 0.07 |
| Job Trailers (3) | | | | | | | | | | | | | | | |
| Grader, Cat 16G | 0.50 | 0.1250 | 1.57 | 0.3936 | 4.18 | 1.0444 | 0.01 | 0.0019 | 0.1434 | 0.1319 | 0.14 | 0.0359 | 689.45 | 172 | 0.05 |
| Dozer, D10 | 6.29 | 0.3930 | 22.62 | 1.4137 | 51.27 | 3.2045 | 0.07 | 0.0047 | 1.9413 | 1.7860 | 1.94 | 0.1213 | 7434.99 | 465 | 0.57 |
| Excavator, Cat 365 | 0.60 | 0.1496 | 1.94 | 0.4851 | 4.09 | 1.0236 | 0.01 | 0.0023 | 0.1465 | 0.1347 | 0.15 | 0.0366 | 934.94 | 234 | 0.05 |
| Roller/Compactor | 0.32 | 0.0792 | 1.58 | 0.3944 | 2.11 | 0.5273 | 0.00 | 0.0008 | 0.1413 | 0.1300 | 0.14 | 0.0353 | 268.19 | 67.0 | 0.03 |
| Manitowoc Crane | | | | | | | | | | | | | | | |
| Hydraulic Breaker | | | | | | | | | | | | | | | |
| Misc. | 1.44 | 0.0720 | 7.20 | 0.3602 | 11.36 | 0.5680 | 0.03 | 0.0013 | 0.4674 | 0.4300 | 0.47 | 0.0234 | 2451.26 | 123 | 0.13 |
| | 12.64 | | 47.29 | | 100.06 | | 0.17 | | 3.91 | 3.58 | 3.78 | | 16485.60 | | 1.13 |

2,016

| Months 25-35 | | | | | | | | | | | | | | | |
|----------------------------------|-------------------|--------------|------------------|---------------|-------------------|---------------|-------------------|----------------|-----------------|--------------|------------------|---------------|-------------------|---------------|-------------------|
| VOC (lbs/day) | VOC Rate (lbs/hr) | CO (lbs/day) | CO rate (lbs/hr) | NOX (lbs/day) | NOX rate (lbs/hr) | SOX (lbs/day) | SOX rate (lbs/hr) | PM10 (lbs/day) | PM2.5 (lbs/day) | PM (lbs/day) | PM rate (lbs/hr) | CO2 (lbs/day) | CO2 Rate (lbs/hr) | CH4 (lbs/day) | CH4 rate (lbs/hr) |
| 1/2 Ton Pickup (Commute Vehicle) | 0.0023 | | 0.0618 | | 0.0061 | 0.0002 | | 0.0018 | 0.0014 | | | 15.7815 | | 0.0008 | |
| 3/4 Ton Pickup | 0.0036 | | 0.0778 | | 0.0081 | 0.0002 | | 0.0018 | 0.0014 | | | 21.5270 | | 0.0011 | |
| 1 Ton Pickup | 0.47 | 0.1179 | 1.46 | 0.3651 | 3.47 | 0.8678 | 0.01 | 0.0019 | 0.1162 | 0.1068 | 0.12 | 0.0290 | 686.18 | 167 | 0.04 |
| 4000 Gallon Water Truck | 0.38 | | 1.32 | | 2.21 | | 0.01 | | 0.1162 | 0.1068 | | | 572.30 | | 0.02 |
| Dump Trucks | 0.3424 | | 0.9925 | | 1.9954 | | 0.0055 | | 0.1014 | 0.0851 | | | 572.3049 | | 0.0159 |
| Yard Crane, ATV | 1.82 | 0.1137 | 6.82 | 0.4263 | 15.02 | 0.9387 | 0.02 | 0.0014 | 0.6206 | 0.5709 | 0.62 | 0.0388 | 2058.07 | 129 | 0.16 |
| Loader/Fork/Cat 966, | 0.82 | 0.1025 | 2.83 | 0.3534 | 6.33 | 0.7914 | 0.02 | 0.0019 | 0.2081 | 0.1915 | 0.21 | 0.0260 | 1373.90 | 172 | 0.07 |
| Job Trailers (3) | | | | | | | | | | | | | | | |
| Grader, Cat 16G | 0.50 | 0.1250 | 1.57 | 0.3936 | 4.18 | 1.0444 | 0.01 | 0.0019 | 0.1434 | 0.1319 | 0.14 | 0.0359 | 689.45 | 172 | 0.05 |
| Dozer, D10 | 6.29 | 0.3930 | 22.62 | 1.4137 | 51.27 | 3.2045 | 0.07 | 0.0047 | 1.9413 | 1.7860 | 1.94 | 0.1213 | 7434.99 | 465 | 0.57 |
| Excavator, Cat 365 | 0.60 | 0.1496 | 1.94 | 0.4851 | 4.09 | 1.0236 | 0.01 | 0.0023 | 0.1465 | 0.1347 | 0.15 | 0.0366 | 934.94 | 234 | 0.05 |
| Roller/Compactor | 0.32 | 0.0792 | 1.58 | 0.3944 | 2.11 | 0.5273 | 0.00 | 0.0008 | 0.1413 | 0.1300 | 0.14 | 0.0353 | 268.19 | 67.0 | 0.03 |
| Manitowoc Crane | 0.91 | 0.1137 | 3.41 | 0.4263 | 7.51 | 0.9387 | 0.01 | 0.0014 | 0.3103 | 0.2855 | 0.31 | 0.0388 | 1029.03 | 129 | 0.08 |
| Hydraulic Breaker | | | | | | | | | | | | | | | |
| Misc. | 1.44 | 0.0720 | 7.20 | 0.3602 | 11.36 | 0.5680 | 0.03 | 0.0013 | 0.4674 | 0.4300 | 0.47 | 0.0234 | 2451.26 | 123 | 0.13 |
| | 13.51 | | 50.57 | | 107.35 | | 0.18 | | 4.20 | 3.86 | 4.16 | | 17514.63 | | 1.21 |

2,017

| DUST EMISSIONS | | |
|----------------|-------------------|--------------------|
| Total | Unmitigated PM10* | Unmitigated PM2.5* |
| | 0.00 | 0.00 |
| | 5.990 | - |

| WORKER VEHICLE EMISSIONS (ppd) | | | | | | | | | | | |
|--------------------------------|-----------------|-------------------|----------------------|---------------|------|------|------|------|------|-------|----------|
| Worker Vehicles | # of Workers[1] | Round Trip Length | # of Worker Vehicles | Total VMT/Day | CO | VOC | NOX | SOX | PM10 | PM2.5 | CO2 |
| | 91 | 13.3 | 91 | 1,210.35 | 5.20 | 0.12 | 0.42 | 0.01 | 0.09 | 0.09 | 5,141.19 |

| HEAVY-DUTY TRUCK EMISSIONS (ppd) | | | | | | | | | | |
|---|---------------|-------------------|---------|------|------|------|------|------|-------|----------|
| Dump Trucks (Off-site) | Trips per Day | Round Trip Length | VMT/Day | CO | VOC | NOX | SOX | PM10 | PM2.5 | CO2 |
| | 16 | 32 | 512 | 2.90 | 0.67 | 7.47 | 0.02 | 0.33 | 0.30 | 2,171.99 |
| Dump Trucks (On-site; Moving dirt to on-site stockpile) | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

| TOTAL EMISSIONS | | | | | | | |
|-----------------|--------------|--------------|---------------|-------------|--------------|-------------|------------------|
| | CO | VOC | NOX | SOX | PM10 | PM2.5 | CO2 |
| On-Site | 50.57 | 13.51 | 107.35 | 0.18 | 9.79 | 3.86 | 17,539.94 |
| Off-Site | 8.10 | 0.80 | 7.89 | 0.03 | 0.42 | 0.39 | 3,313.18 |
| TOTAL | 58.67 | 14.31 | 115.25 | 0.21 | 10.21 | 4.25 | 20,853.12 |

[1] Trip length from URBEEMS2007.

| | |
|------------------------|-------------|
| Metric Tonnes Per Day | 0 |
| Metric Tonnes Per Year | 2459.292497 |

| TOTAL MITIGATED EXHAUST EMISSIONS | | | | | | | |
|-----------------------------------|----|-----|-----|-----|------|-------|-----|
| | CO | VOC | NOX | SOX | PM10 | PM2.5 | CO2 |

| | | | | | | | |
|--------------|--------------|--------------|---------------|-------------|-------------|-------------|------------------|
| On-Site | 48.04 | 12.84 | 101.99 | 0.17 | 3.99 | 3.66 | 17,539.94 |
| Off-Site | 7.70 | 0.76 | 7.50 | 0.03 | 0.40 | 0.37 | 3,313.18 |
| TOTAL | 55.73 | 13.59 | 109.49 | 0.20 | 4.39 | 4.03 | 20,853.12 |

| TOTAL MITIGATED EMISSIONS | | EMISSIONS (ppd) | | | | | | |
|---------------------------|--------------|-----------------|---------------|-------------|-------------|-------------|------------------|--|
| | CO | VOC | NOX | SOX | PM10 | PM2.5 | CO2 | |
| On-Site | 48.04 | 12.84 | 101.99 | 0.17 | 3.99 | 3.66 | 17,539.94 | |
| Off-Site | 7.70 | 0.76 | 7.50 | 0.03 | 0.40 | 0.37 | 3,313.18 | |
| TOTAL | 55.73 | 13.59 | 109.49 | 0.20 | 4.39 | 4.03 | 20,853.12 | |

| | |
|-------------------|-------------|
| Metric Tonnes Per | |
| 9 | 2459.292497 |

Buried Concrete Cover Phase 3 Regional Construction Emissions

| Qty | Operating Hrs/WD/each | Total Operating Hours Per Day | Off-Road Row | Month | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 |
|----------------------------------|-----------------------|-------------------------------|------------------------|--|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| | | | | | | | | | | | | | | | | | | |
| 1/2 Ton Pickup (Commute Vehicle) | 5 | 4 | 20 Off-site worker use | | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |
| 3/4 Ton Pickup | 2 | 8 | 16 Emfac | | 16 | 16 | 16 | 16 | 16 | 16 | | | | | | | | |
| 1 Ton Pickup | 2 | 8 | 16 Emfac | | 16 | 16 | 16 | 16 | 16 | 16 | | | | | | | | |
| 4000 Gallon Water Truck | 1 | 4 | 4 | 108 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| Dump Trucks | 20 | 8 | 160 Emfac | | | | | | | | | | | | | | | |
| Yard Crane, ATV | 2 | 8 | 16 | 51 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 |
| Loader/ForksCat 966, | 1 | 8 | 8 | 230 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| Job Trailers (3) | 3 | 2 | 6 | Generally no Emissions | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| Grader, Cat 16G | 1 | 4 | 4 | 97 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| Dozer, D10 | 2 | 8 | 16 | 57 | | | | | | | | | | | | | | |
| Excavator, Cat 365 | 1 | 4 | 4 | 75 | | | | | | | | | | | | | | |
| Roller/Compactor | 1 | 4 | 4 | 174 | | | | | | | | | | | | | | |
| Manitowoc Crane | 1 | 8 | 8 | 51 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| Hydraulic Breaker | 2 | 2 | 4 | Hydraulic Breakers are typically run off of another piece of equipment. In this case, it is likely ran off of one of the cranes. | | | | | | | | | | | | | | |
| Misc. | 10 | 2 | 20 | 119 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |

| | Months 36-41 | | | | | | | | | | | | | | | | |
|----------------------------------|---------------|-------------------|--------------|------------------|---------------|-------------------|---------------|-------------------|----------------|-----------------|--------------|------------------|----------------|-------------------|---------------|-------------------|--|
| | VOC (lbs/day) | VOC Rate (lbs/hr) | CO (lbs/day) | CO rate (lbs/hr) | NOX (lbs/day) | NOX rate (lbs/hr) | SOX (lbs/day) | SOX rate (lbs/hr) | PM10 (lbs/day) | PM2.5 (lbs/day) | PM (lbs/day) | PM rate (lbs/hr) | CO2 (lbs/day) | CO2 Rate (lbs/hr) | CH4 (lbs/day) | CH4 rate (lbs/hr) | |
| 1/2 Ton Pickup (Commute Vehicle) | | | | | | | | | | | | | | | | | |
| 3/4 Ton Pickup | 0.0019 | | 0.0555 | | 0.0053 | | 0.0002 | | 0.0019 | 0.0015 | | | 15.7853 | | 0.0008 | | |
| 1 Ton Pickup | 0.0030 | | 0.0689 | | 0.0069 | | 0.0002 | | 0.0019 | 0.0014 | | | 21.5248 | | 0.0010 | | |
| 4000 Gallon Water Truck | 0.42 | 0.1042 | 1.43 | 0.3572 | 2.66 | 0.6660 | 0.01 | 0.0019 | 0.0902 | 0.0830 | 0.09 | 0.0225 | 666.18 | 167 | 0.04 | 0.0094 | |
| Dump Trucks | | | | | | | | | | | | | | | | | |
| Yard Crane, ATV | 1.62 | 0.1012 | 6.50 | 0.4060 | 12.65 | 0.7908 | 0.02 | 0.0014 | 0.5093 | 0.4685 | 0.51 | 0.0318 | 2058.04 | 129 | 0.15 | 0.0091 | |
| Loader/ForksCat 966, | 0.73 | 0.0914 | 2.79 | 0.3483 | 4.77 | 0.5964 | 0.02 | 0.0019 | 0.1603 | 0.1475 | 0.16 | 0.0200 | 1373.90 | 172 | 0.07 | 0.0082 | |
| Job Trailers (3) | | | | | | | | | | | | | | | | | |
| Grader, Cat 16G | 0.45 | 0.1115 | 1.51 | 0.3778 | 3.36 | 0.8409 | 0.01 | 0.0019 | 0.1149 | 0.1057 | 0.11 | 0.0287 | 688.45 | 172 | 0.04 | 0.0101 | |
| Dozer, D10 | | | | | | | | | | | | | | | | | |
| Excavator, Cat 365 | | | | | | | | | | | | | | | | | |
| Roller/Compactor | | | | | | | | | | | | | | | | | |
| Manitowoc Crane | 0.81 | 0.1012 | 3.25 | 0.4060 | 6.33 | 0.7908 | 0.01 | 0.0014 | 0.2546 | 0.2343 | 0.25 | 0.0318 | 1029.02 | 129 | 0.07 | 0.0091 | |
| Hydraulic Breaker | | | | | | | | | | | | | | | | | |
| Misc. | 1.27 | 0.0633 | 7.08 | 0.3542 | 8.96 | 0.4478 | 0.03 | 0.0013 | 0.3622 | 0.3332 | 0.36 | 0.0181 | 2450.41 | 123 | 0.11 | 0.0057 | |
| | 5.29 | | 22.68 | | 38.75 | | 0.09 | | 1.50 | 1.38 | 1.49 | | 8303.32 | | 0.48 | | |

2019

| | Months 42-49 | | | | | | | | | | | | | | | | |
|----------------------------------|---------------|-------------------|--------------|------------------|---------------|-------------------|---------------|-------------------|----------------|-----------------|--------------|------------------|---------------|-------------------|---------------|-------------------|--|
| | VOC (lbs/day) | VOC Rate (lbs/hr) | CO (lbs/day) | CO rate (lbs/hr) | NOX (lbs/day) | NOX rate (lbs/hr) | SOX (lbs/day) | SOX rate (lbs/hr) | PM10 (lbs/day) | PM2.5 (lbs/day) | PM (lbs/day) | PM rate (lbs/hr) | CO2 (lbs/day) | CO2 Rate (lbs/hr) | CH4 (lbs/day) | CH4 rate (lbs/hr) | |
| 1/2 Ton Pickup (Commute Vehicle) | | | | | | | | | | | | | | | | | |
| 3/4 Ton Pickup | 0.0019 | | 0.0555 | | 0.0053 | | 0.0002 | | 0.0019 | 0.0015 | | | 15.7853 | | 0.0008 | | |
| 1 Ton Pickup | 0.0030 | | 0.0689 | | 0.0069 | | 0.0002 | | 0.0019 | 0.0014 | | | 21.5248 | | 0.0010 | | |
| 4000 Gallon Water Truck | 0.42 | 0.1042 | 1.43 | 0.3572 | 2.66 | 0.6660 | 0.01 | 0.0019 | 0.0902 | 0.0830 | 0.09 | 0.0225 | 666.18 | 167 | 0.04 | 0.0094 | |
| Dump Trucks | | | | | | | | | | | | | | | | | |
| Yard Crane, ATV | 1.62 | 0.1012 | 6.50 | 0.4060 | 12.65 | 0.7908 | 0.02 | 0.0014 | 0.5093 | 0.4685 | 0.51 | 0.0318 | 2058.04 | 129 | 0.15 | 0.0091 | |
| Loader/ForksCat 966, | 0.73 | 0.0914 | 2.79 | 0.3483 | 4.77 | 0.5964 | 0.02 | 0.0019 | 0.1603 | 0.1475 | 0.16 | 0.0200 | 1373.90 | 172 | 0.07 | 0.0082 | |
| Job Trailers (3) | | | | | | | | | | | | | | | | | |
| Grader, Cat 16G | 0.45 | 0.1115 | 1.51 | 0.3778 | 3.36 | 0.8409 | 0.01 | 0.0019 | 0.1149 | 0.1057 | 0.11 | 0.0287 | 688.45 | 172 | 0.04 | 0.0101 | |
| Dozer, D10 | | | | | | | | | | | | | | | | | |
| Excavator, Cat 365 | | | | | | | | | | | | | | | | | |
| Roller/Compactor | | | | | | | | | | | | | | | | | |

2019

| | | | | | | | | | | | | | | | | |
|-------------------|-------------|--------|--------------|--------|--------------|--------|-------------|--------|-------------|-------------|-------------|--------|----------------|-----|-------------|--------|
| Manitowoc Crane | 0.81 | 0.1012 | 3.25 | 0.4060 | 6.33 | 0.7908 | 0.01 | 0.0014 | 0.2546 | 0.2343 | 0.25 | 0.0318 | 1029.02 | 129 | 0.07 | 0.0091 |
| Hydraulic Breaker | | | | | | | | | | | | | | | | |
| Misc. | 1.27 | 0.0633 | 7.08 | 0.3542 | 8.96 | 0.4478 | 0.03 | 0.0013 | 0.3622 | 0.3332 | 0.36 | 0.0181 | 2450.41 | 123 | 0.11 | 0.0057 |
| | 5.29 | | 22.68 | | 38.75 | | 0.09 | | 1.50 | 1.38 | 1.49 | | 8303.32 | | 0.48 | |

| DUST EMISSIONS | | |
|----------------|-------------------------------|--------------------------------|
| | Unmitigated PM10 ⁵ | Unmitigated PM2.5 ⁵ |
| Total | 0.00 | 0.00 |

| WORKER VEHICLES | | WORKER VEHICLE EMISSIONS (ppd) | | | | | | | | | |
|-----------------|-----------------|--------------------------------|----------------------|---------------|------|------|------|------|------|-------|----------|
| | # of Workers[1] | Round Trip Length | # of Worker Vehicles | Total VMT/Day | CO | VOC | NOX | SOX | PM10 | PM2.5 | CO2 |
| Worker Vehicles | 92 | 13.3 | 92 | 1,223.60 | 4.78 | 0.10 | 0.38 | 0.01 | 0.09 | 0.09 | 1,152.43 |

| TRUCK TRIPS | | HEAVY-DUTY TRUCK EMISSIONS (ppd) | | | | | | | | | |
|------------------------|---------------|----------------------------------|---------|------|------|-------|------|------|-------|----------|--|
| | Trips per Day | Round Trip Length | VMT/day | CO | VOC | NOX | SOX | PM10 | PM2.5 | CO2 | |
| Dump Trucks (Off-site) | 57 | 32 | 1,824 | 9.32 | 2.20 | 23.96 | 0.07 | 1.06 | 0.98 | 7,737.71 | |
| Dump Trucks (On-site) | 0 | 1 | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |

| TOTAL EMISSIONS | | EMISSIONS (ppd) | | | | | | | |
|-----------------|--------------|-----------------|--------------|-------------|-------------|-------------|------------------|--|--|
| | CO | VOC | NOX | SOX | PM10 | PM2.5 | CO2 | | |
| On-Site | 22.68 | 5.29 | 38.75 | 0.09 | 1.50 | 1.38 | 8,313.38 | | |
| Off-Site | 14.10 | 2.30 | 24.34 | 0.08 | 1.15 | 1.07 | 8,890.14 | | |
| TOTAL | 36.78 | 7.59 | 63.09 | 0.17 | 2.65 | 2.44 | 17,203.52 | | |

[1] Trip length from URBEMIS2007.

| | |
|------------------------|---------|
| Metric Tonnes Per Day | 8 |
| Metric Tonnes Per Year | 2028.88 |

| TOTAL MITIGATED EXHAUST EMISSIONS | | EMISSIONS (ppd) | | | | | | | |
|-----------------------------------|--------------|-----------------|--------------|-------------|-------------|-------------|------------------|--|--|
| | CO | VOC | NOX | SOX | PM10 | PM2.5 | CO2 | | |
| On-Site | 21.54 | 5.03 | 36.81 | 0.08 | 1.42 | 1.31 | 8,313.38 | | |
| Off-Site | 13.39 | 2.19 | 23.12 | 0.08 | 1.10 | 1.01 | 8,890.14 | | |
| TOTAL | 34.94 | 7.22 | 59.93 | 0.16 | 2.52 | 2.32 | 17,203.52 | | |

| TOTAL MITIGATED EMISSIONS | | EMISSIONS (ppd) | | | | | | | |
|---------------------------|--------------|-----------------|--------------|-------------|-------------|-------------|------------------|--|--|
| | CO | VOC | NOX | SOX | PM10 | PM2.5 | CO2 | | |
| On-Site | 21.54 | 5.03 | 36.81 | 0.08 | 1.42 | 1.31 | 8,313.38 | | |
| Off-Site | 13.39 | 2.19 | 23.12 | 0.08 | 1.10 | 1.01 | 8,890.14 | | |
| TOTAL | 34.94 | 7.22 | 59.93 | 0.16 | 2.52 | 2.32 | 17,203.52 | | |

| | |
|------------------------|---------|
| Metric Tonnes Per Day | 8 |
| Metric Tonnes Per Year | 2028.88 |

Buried Concrete Cover Phase 4 Regional Construction Emissions

| Qty | Operating Hrs/WD/each | Total Operating Hours Per Day | Off-Road Row | Month | 50 | 51 |
|----------------------------------|-----------------------|-------------------------------|--|-------|----|----|
| 1/2 Ton Pickup (Commute Vehicle) | 5 | 4 | 20 Off-site worker use | | 20 | 20 |
| 3/4 Ton Pickup | 2 | 8 | 16 Emfac | | | |
| 1 Ton Pickup | 2 | 8 | 16 Emfac | | | |
| 4000 Gallon Water Truck | 1 | 4 | 4 | 108 | 4 | 4 |
| Dump Trucks | 20 | 8 | 160 Emfac | | | |
| Yard Crane, ATV | 2 | 8 | 16 | 51 | 16 | 16 |
| Loader/ForksCat 966, | 1 | 8 | 8 | 230 | 8 | 8 |
| Job Trailers (3) | 3 | 2 | Generally no 6 Emissions | | 6 | 6 |
| Grader, Cat 16G | 1 | 4 | 4 | 97 | 4 | 4 |
| Dozer, D10 | 2 | 8 | 16 | 57 | 16 | 16 |
| Excavator, Cat 365 | 1 | 4 | 4 | 75 | 4 | 4 |
| Roller/Compactor | 1 | 4 | 4 | 174 | 4 | 4 |
| Manitowoc Crane | 1 | 8 | 8 | 51 | 8 | 8 |
| Hydraulic Breaker | 2 | 2 | Hydraulic Breakers are typically run off of another piece of equipment. In this case, it is likely ran off of one of the 4 cranes. | | | |
| Misc. | 10 | 2 | | 119 | 20 | 20 |

| | Month 1 | | | | | | | | | | | | | | | |
|----------------------------------|---------------|-------------------|--------------|------------------|---------------|-------------------|---------------|-------------------|----------------|-----------------|--------------|------------------|-----------------|-------------------|---------------|-------------------|
| | VOC (lbs/day) | VOC Rate (lbs/hr) | CO (lbs/day) | CO rate (lbs/hr) | NOX (lbs/day) | NOX rate (lbs/hr) | SOX (lbs/day) | SOX rate (lbs/hr) | PM10 (lbs/day) | PM2.5 (lbs/day) | PM (lbs/day) | PM rate (lbs/hr) | CO2 (lbs/day) | CO2 Rate (lbs/hr) | CH4 (lbs/day) | CH4 rate (lbs/hr) |
| 1/2 Ton Pickup (Commute Vehicle) | | | | | | | | | | | | | | | | |
| 3/4 Ton Pickup | | | | | | | | | | | | | | | | |
| 1 Ton Pickup | | | | | | | | | | | | | | | | |
| 4000 Gallon Water Truck | 0.39 | 0.0981 | 1.42 | 0.3540 | 2.32 | 0.5797 | 0.01 | 0.0019 | 0.0791 | 0.0727 | 0.08 | 0.0198 | 666.18 | 167 | 0.04 | 0.0089 |
| Dump Trucks | | | | | | | | | | | | | | | | |
| Yard Crane, ATV | 1.53 | 0.0954 | 6.37 | 0.3982 | 11.58 | 0.7236 | 0.02 | 0.0014 | 0.4578 | 0.4212 | 0.46 | 0.0286 | 2058.06 | 129 | 0.14 | 0.0086 |
| Loader/ForksCat 966, | 0.69 | 0.0861 | 2.77 | 0.3462 | 4.11 | 0.5143 | 0.02 | 0.0019 | 0.1394 | 0.1283 | 0.14 | 0.0174 | 1373.90 | 172 | 0.06 | 0.0078 |
| Job Trailers (3) | | | | | | | | | | | | | | | | |
| Grader, Cat 16G | 0.42 | 0.1055 | 1.49 | 0.3726 | 3.01 | 0.7518 | 0.01 | 0.0019 | 0.1028 | 0.0946 | 0.10 | 0.0257 | 688.45 | 172 | 0.04 | 0.0095 |
| Dozer, D10 | 5.35 | 0.3343 | 19.80 | 1.2378 | 39.35 | 2.4593 | 0.07 | 0.0047 | 1.4605 | 1.3437 | 1.46 | 0.0913 | 7434.99 | 465 | 0.48 | 0.0302 |
| Excavator, Cat 365 | 0.51 | 0.1266 | 1.85 | 0.4632 | 2.76 | 0.6900 | 0.01 | 0.0023 | 0.1000 | 0.0920 | 0.10 | 0.0250 | 934.94 | 234 | 0.05 | 0.0114 |
| Roller/Compactor | 0.25 | 0.0632 | 1.54 | 0.3859 | 1.65 | 0.4127 | 0.00 | 0.0008 | 0.1043 | 0.0960 | 0.10 | 0.0261 | 268.17 | 67.0 | 0.02 | 0.0057 |
| Manitowoc Crane | 0.76 | 0.0954 | 3.19 | 0.3982 | 5.79 | 0.7236 | 0.01 | 0.0014 | 0.2289 | 0.2106 | 0.23 | 0.0286 | 1029.03 | 129 | 0.07 | 0.0086 |
| Hydraulic Breaker | | | | | | | | | | | | | | | | |
| Misc. | 1.19 | 0.0596 | 7.04 | 0.3522 | 7.94 | 0.3972 | 0.03 | 0.0013 | 0.3174 | 0.2920 | 0.32 | 0.0159 | 2450.08 | 123 | 0.11 | 0.0054 |
| | 11.09 | | 45.48 | | 78.51 | | 0.18 | | 2.99 | 2.75 | 2.99 | | 16903.80 | | | 1.00 |

| DUST EMISSIONS | | | |
|----------------|--|-------------------------------|--------------------------------|
| | | Unmitigated PM10 ⁵ | Unmitigated PM2.5 ⁵ |
| Total | | 0.00 | 0.00 |

| WORKER VEHICLES | | WORKER VEHICLE EMISSIONS (ppd) | | | | | | | | | |
|-----------------|-----------------|--------------------------------|----------------------|---------------|------|------|------|------|------|-------|--------|
| | # of Workers[1] | Round Trip Length | # of Worker Vehicles | Total VMT/Day | CO | VOC | NOX | SOX | PM10 | PM2.5 | CO2 |
| Worker Vehicles | 45 | 13.3 | 45 | 598.50 | 2.18 | 0.04 | 0.17 | 0.01 | 0.04 | 0.04 | 563.15 |

| TRUCK TRIPS | | HEAVY-DUTY TRUCK EMISSIONS (ppd) | | | | | | | | | |
|------------------------|---------------|----------------------------------|---------|-------|------|-------|------|------|-------|-----------|--|
| | Trips per Day | Round Trip Length | VMT/day | CO | VOC | NOX | SOX | PM10 | PM2.5 | CO2 | |
| Dump Trucks (Off-site) | 126 | 32 | 4,032 | 18.70 | 4.51 | 47.96 | 0.16 | 2.14 | 1.97 | 17,104.41 | |
| Dump Trucks (On-site) | 0 | 1 | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |

| TOTAL EMISSIONS | EMISSIONS (ppd) |
|-----------------|-----------------|
|-----------------|-----------------|

| | CO | VOC | NOX | SOX | PM10 | PM2.5 | CO2 |
|--------------|--------------|--------------|---------------|-------------|-------------|-------------|------------------|
| On-Site | 45.48 | 11.09 | 78.51 | 0.18 | 2.99 | 2.75 | 16,903.80 |
| Off-Site | 20.88 | 4.55 | 48.14 | 0.17 | 2.19 | 2.01 | 17,667.56 |
| TOTAL | 66.36 | 15.64 | 126.65 | 0.34 | 5.18 | 4.77 | 34,571.36 |

| | |
|-----------------------|------------------------|
| Metric Tonnes Per Day | Metric Tonnes Per Year |
| 16 | 4077.14 |

[1] Trip length from URBEMIS2007.

| TOTAL MITIGATED EXHAUST EMISSIONS | EMISSIONS (ppd) | | | | | | |
|-----------------------------------|-----------------|--------------|---------------|-------------|-------------|-------------|------------------|
| | CO | VOC | NOX | SOX | PM10 | PM2.5 | CO2 |
| On-Site | 43.20 | 10.54 | 74.58 | 0.17 | 2.84 | 2.61 | 16,903.80 |
| Off-Site | 19.84 | 4.32 | 45.73 | 0.16 | 2.08 | 1.91 | 17,667.56 |
| TOTAL | 63.04 | 14.86 | 120.31 | 0.32 | 4.92 | 4.53 | 34,571.36 |

| TOTAL MITIGATED EMISSIONS | EMISSIONS (ppd) | | | | | | |
|---------------------------|-----------------------|--------------|---------------|-------------|-------------|-------------|------------------|
| | CO | VOC | NOX | SOX | PM10 | PM2.5 | CO2 |
| On-Site | 43.20 | 10.54 | 74.58 | 0.17 | 2.84 | 2.61 | 16,903.80 |
| Off-Site | 19.84 | 4.32 | 45.73 | 0.16 | 2.08 | 1.91 | 17,667.56 |
| TOTAL | 63.04 | 14.86 | 120.31 | 0.32 | 4.92 | 4.53 | 34,571.36 |
| | Metric Tonnes Per Day | | | | | | |
| | 16 | | | | | | |

Buried Concrete Cover Phase 5 Regional Construction Emissions

| Fugitive Dust Emissions | | Site Preparation Activity | |
|-------------------------|---|---------------------------|----------------------------------|
| | | Excavation | 310,000 Square Feet ^a |
| Schedule - | 1 | days ^a | |

| Fugitive Dust Parameters | |
|----------------------------------|------------------------|
| Vehicle Speed (mph) ^b | Vehicle Miles Traveled |
| 3 | 7.58 |

| Fugitive Dust Stockpiling Parameters | | | | |
|--------------------------------------|---------------------------------|-------------------------|--------------|---------------------------|
| Silt Content ^c | Precipitation Days ^d | Mean Wind Speed Percent | TSP Fraction | Area ^e (acres) |
| 6.9 | 10 | 5.00 | 0.5 | 1 |

| Fugitive Dust Material Handling | | | | |
|---|------------------------------|-------------------------------|--------------|--------------|
| Aerodynamic Particle Size Multiplier ^f | Mean Wind Speed ^h | Moisture Content ⁱ | Dirt Handled | Dirt Handled |
| | mph | | cy | lb/day |
| 0.35 | 5.0 | 7.9 | 0 | 0 |

| Dragline Parameters | | | |
|---------------------|-------------------------------|---------------------------------|----------------------------------|
| Drop Height (feet) | Moisture Content ⁱ | PM ₁₀ Scaling Factor | PM _{2.5} Scaling Factor |
| 3 | 7.9% | 0.75 | 0.017 |

| | | Max Daily Grading (acres) | PM10 | PM2.5 |
|---------------------|--|---------------------------|------|-------|
| Site Prep - Grading | | 1.00 | 23.3 | 4.8 |

Incremental Increase in Fugitive Dust Emissions from Construction Operations

Equations:

Storage Piles^k: PM10 Emissions (lb/day) = 1.7 x (silt content/1.5) x ((365-precipitation days)/235) x wind speed percent/15 x TSP fraction x Area x (1 - control efficiency)

Material Handling^k: PM10 Emissions (lb/day) = (0.0032 x aerodynamic particle size multiplier x (wind speed (mph)/5)^{1.3}/(moisture content/2)^{1.4} x dirt handled (lb/day)/2,000 (lb/ton) (1 - control efficiency)

Dragline Equation for PM₁₀ Emissions^o (lbs/day) = (((0.0021) x (drop height)^{0.7}) / (moisture content)^{0.3}) x 0.75 x Dirt Handled x Control Efficiency

Dragline Equation for PM_{2.5} Emissions^o (lbs/day) = (((0.0021) x (drop height)^{1.1}) / (moisture content)^{0.3}) x 0.017 x Dirt Handled x Control Efficiency

Grading Equation for PM10 is based on URBEMIS2007's rate for grading dust of 38.2 pounds per acre, and applied 61% reduction based on Rule 403 compliance.

| Phase I | Control Efficiency | PM10 ⁿ | PM2.5 ⁿ |
|-------------------|--------------------|-------------------|--------------------|
| Description | % | lb/day | lb/day |
| Earthmoving | 61 | 0.810 | 0.168 |
| Storage Piles | 61 | 0.77 | 0.160 |
| Material Handling | 61 | 0 | 0.000 |
| Dragline | 61 | 0.000 | 0.000 |
| Grading | 61 | 23.302 | 4.847 |
| Total | | 24.88 | 5.18 |

Notes

- Assumed 5 haul truck trips a day at 20 cubic yards a load, worst single-day scenario, 4000 foot long area 12 foot wide.
- Caterpillar Performance Handbook, Edition 33, October 2003 Operating Speeds, p 2-3.
- USEPA, AP-42, July 1998, Table 11.9-3 Typical Values for Corection Factors Applicable to the Predictive Emission Factor Equations
- Table A9-9-E2, SCAQMD CEQA Air Quality Handbook, 1993
- Mean wind speed percent - percent of time mean wind speed exceeds 12 mph.
- Assumed storage piles are 0.21 acres in size
- USEPA, AP-42, Jan 1995, Section 13.2.4 Aggretrate Handling and Storage Piles, p 13.2.4-3 Aerodynamic particle size multiplier for < 10 µm
- Mean wind speed at the Downtown Los Angeles Wind Monitoring Station.
- USEPA, Fugitive Dust Background Document and Technical Information Document for Best Available Control Measures, equation 2-13, p 2-28.
- Assuming 000 cubic yards of dirt handled
- USEPA, AP-42, July 1998, Table 11.9-1, Equation for Site Grading ≤ 10 µm
- USEPA, AP-42, Jan 1995, Section 13.2.4 Aggretrate Handling and Storage Piles, Equation 1
- USEPA, Fugitive Dust Background Document and Technical Information Document for Best Available Control Measures, Sept 1992, EPA-450/2-92-004, Equation 2-12.
- Includes watering at least three times a day per Rule 403 (61% control efficiency).
- Source: USEPA, AP-42, Emission Factor Equations for Uncontrolled Dust Sources at Western Surface Coal Mines, Table 11.9-1, Dragline calculations for PM₁₀ and PM_{2.5}.

| | | | | | | | |
|--------------|--------------|-------------|--------------|-------------|-------------|-------------|------------------|
| On-Site | 22.37 | 5.23 | 34.84 | 0.09 | 1.32 | 1.21 | 9,073.16 |
| Off-Site | 2.57 | 0.19 | 1.80 | 0.01 | 0.12 | 0.11 | 1,241.40 |
| TOTAL | 24.94 | 5.42 | 36.64 | 0.10 | 1.44 | 1.32 | 10,314.57 |

| TOTAL MITIGATED EMISSIONS | EMISSIONS (ppd) | | | | | | |
|---------------------------|-----------------|-------------|--------------|-------------|--------------|-------------|------------------|
| | CO | VOC | NOX | SOX | PM10 | PM2.5 | CO2 |
| On-Site | 22.37 | 5.23 | 34.84 | 0.09 | 26.20 | 6.39 | 9,073.16 |
| Off-Site | 2.57 | 0.19 | 1.80 | 0.01 | 0.12 | 0.11 | 1,241.40 |
| TOTAL | 24.94 | 5.42 | 36.64 | 0.10 | 26.32 | 6.50 | 10,314.57 |

| | |
|-----------------------|------------------------|
| Metric Tonnes Per Day | Metric Tonnes Per Year |
| 5 | 1216.435 |

UNMITIGATED CONSTRUCTION EMISSIONS CALCULATIONS

| Floating Cover - Fugitive Dust Emissions - Inputs for ISC-AERMOD | | |
|--|------------------|---------------------|
| | Weight Conv. [a] | Time Adjustment [b] |
| | 453.59 | 28,800 |
| Project Phase | lb/day [c] | g/s |
| PM10 | 30.1 | 0.47406 |
| PM2.5 | 6.2 | 0.09702 |

[a] Weight conversion is the amount of grams per pound.
 [b] Time adjustment is the number of seconds in 8 hours (1 day of grading).
 [c] Pounds per day emissions rate from construction emissions developed using Offroad 2007 and EMFAC 2007 emissions factors.

| Alternative 1 - Off-Road Equipment Emissions | | | | |
|--|--------|---------|--------|--------|
| Daily Emissions (ppd) | CO | NO2 [1] | PM2.5 | PM10 |
| | 60 | 12 | 4.5 | 4.9 |
| Conversion to Grams/Second | NO2 | PM2.5 | PM10 | |
| | 0.9414 | 0.1870 | 0.0710 | 0.0771 |

| Alternative 1 - Mitigated Off-Road Equipment Emissions | | | | |
|--|--------|---------|--------|--------|
| Daily Emissions (ppd) | CO | NO2 [1] | PM2.5 | PM10 |
| | 57 | 11 | 4.3 | 4.7 |
| Conversion to Grams/Second | NO2 | PM2.5 | PM10 | |
| | 0.8944 | 0.1777 | 0.0674 | 0.0733 |

[1] Used 10% of NOX as NO2 value for input into AERMOD

Floating Cover Phase 1 Regional Construction Emissions

| | | |
|---|------------------------------|----------------------------------|
| DEMOLITION | Construction Activity | |
| | Demolition of Existing | 310,000 Square Foot ^a |
| Demolition Schedule - 40 days ^a | | |

| Fugitive Dust Material Handling | | | |
|---|------------------------------|-------------------------------|-----------------------------|
| Aerodynamic Particle Size Multiplier ^b | Mean Wind Speed ^c | Moisture Content ^d | Debris Handled ^e |
| 0.35 | 5 mph | 2.0 | 357 ton/day |

| Incremental Increase in Onsite Fugitive Dust Emissions from Construction Equipment | | | |
|---|--------------------|-----------------------------|-----------------|
| Material Handling ^c : (0.0032 x Aerodynamic Particle Size Multiplier x (wind speed (mph)/5) ^{1.3} /(moisture content/2) ^{1.4} x debris handled (ton/day)) x (1 - control efficiency) = PM10 Emissions (lb/day) | | | |
| Description | Control Efficiency | PM10 Mitigated ^b | PM2.5 Mitigated |
| | % | lb/day | lb/day |
| Material Handling (Demolition) ^f | 61 | 0.16 | 0.03 |
| Material Handling (Debris) | 61 | 0.16 | 0.03 |
| Total | | 0.32 | 0.07 |

Notes:

a) Includes removal of existing reservoir's asphalt lining; the inlet structure and portions of the inlet line; the outlet tower and portions of the outlet lines, and the surrounding parapet wall and fence.

b) USEPA, AP-42, Jan 1995, Section 13.2.4 Aggregate Handling and Storage Piles, p 13.2.4-3 Aerodynamic particle size multiplier for < 10 µm

c) Mean wind speed - maximum of daily average wind speeds reported in 1981 meteorological data.

d) USEPA, Fugitive Dust Background Document and Technical Information Document for Best Available Control Measures, equation 2-13, p 2-28

e) USEPA, Fugitive Dust Background Document and Technical Information Document for Best Available Control Measures, p 2-28. Debris weight to area ratio = 0.046 ton/sq ft (310,000 sq ft x 0.046 ton/sq ft)/40 days = 357 ton/day

f) USEPA, Fugitive Dust Background Document and Technical Information Document for Best Available Control Measures, equation 2-13, p 2-28. EPA suggests using the material handling equation for demolition emission estimates.

g) EPA suggests using the material handling equation for demolition emission estimates.

h) Includes watering at least three times a day per Rule 403 (61% control efficiency)

Floating Cover Phase 1 Regional Construction Emissions

| Fugitive Dust Emissions | | Site Preparation Activity | |
|--------------------------------|--|----------------------------------|----------------------------------|
| | | Excavation | 310,000 Square Feet ^f |
| Schedule - | | 80 days ^a | |

| Fugitive Dust Parameters | |
|----------------------------------|------------------------|
| Vehicle Speed (mph) ^f | Vehicle Miles Traveled |
| 3 | 51.52 |

| Fugitive Dust Stockpiling Parameters | | | | |
|---|---------------------------------|--------------------------------------|--------------|---------------------------|
| Silt Content ^f | Precipitation Days ^g | Mean Wind Speed Percent ^f | TSP Fraction | Area ^h (acres) |
| 6.9 | 10 | 5.00 | 0.5 | 1 |

| Fugitive Dust Material Handling | | | | |
|---|------------------------------|-------------------------------|--------------|----------------|
| Aerodynamic Particle Size Multiplier ^f | Mean Wind Speed ^h | Moisture Content ⁱ | Dirt Handled | Dirt Handled |
| 0.35 | 5.0 mph | 7.9 | 5,000 cy | 156,250 lb/day |

| Dragline Parameters | | | |
|----------------------------|-------------------------------|---------------------------------|----------------------------------|
| Drop Height (feet) | Moisture Content ⁱ | PM ₁₀ Scaling Factor | PM _{2.5} Scaling Factor |
| 3 | 7.9% | 0.75 | 0.017 |

| | Max Daily Grading (acres) | PM10 | PM2.5 |
|----------------------------|---------------------------|------|-------|
| Site Prep - Grading | 1.00 | 23.3 | 4.8 |

| Incremental Increase in Fugitive Dust Emissions from Construction Operations | | | |
|---|--------------------|-------------------|--------------------|
| Equations: | | | |
| Storage Piles: PM10 Emissions (lb/day) = 1.7 x (silt content/1.5) x ((365-precipitation days)/235) x wind speed percent/15 x TSP fraction x Area x (1 - control efficiency) | | | |
| Material Handling: PM10 Emissions (lb/day) = (0.0032 x aerodynamic particle size multiplier x (wind speed (mph)/5) ^{1.3} /(moisture content/2) ^{1.4} x dirt handled (lb/day)/2,000 (lb/ton)) x (1 - control efficiency) | | | |
| Dragline Equation for PM ₁₀ Emissions ^g (lbs/day) = (((0.0021) x (drop height) ^{1.7}) / (moisture content) ^{1.7}) / 0.75 x Dirt Handled x Control Efficiency | | | |
| Dragline Equation for PM _{2.5} Emissions ^g (lbs/day) = (((0.0021) x (drop height) ^{1.7}) / (moisture content) ^{1.7}) / 0.017 x Dirt Handled x Control Efficiency | | | |
| Grading Equation for PM10 is based on URBEMIS2007's rate for grading dust of 38.2 pounds per acre, and applied 61% reduction based on Rule 403 compliance. | | | |
| Phase I | Control Efficiency | PM10 ^g | PM2.5 ^h |
| Description | % | lb/day | lb/day |
| Earthmoving | 61 | 5,530 | 1,150 |
| Storage Piles | 61 | 0.77 | 0.160 |
| Material Handling | 61 | 0 | 0.000 |
| Dragline | 61 | 0.177 | 0.004 |
| Grading | 61 | 23.302 | 4.847 |
| Total | | 29.78 | 6.16 |

Notes

a) Assumed 34 haul truck trips a day at 10 cubic yards a load, worst single-day scenario, 4000 foot long area 12 foot wide.

b) Caterpillar Performance Handbook, Edition 33, October 2003 Operating Speeds, p 2-3.

c) USEPA, AP-42, July 1998, Table 11.9-3 Typical Values for Correction Factors Applicable to the Predictive Emission Factor Equations

d) Table A9-9-E2, SCAQMD CEQA Air Quality Handbook, 1993

e) Mean wind speed percent - percent of time mean wind speed exceeds 12 mph.

f) Assumed storage piles are 0.21 acres in size

g) USEPA, AP-42, Jan 1995, Section 13.2.4 Aggregate Handling and Storage Piles, p 13.2.4-3 Aerodynamic particle size multiplier for < 10 µm

h) Mean wind speed at the Downtown Los Angeles Wind Monitoring Station.

i) USEPA, Fugitive Dust Background Document and Technical Information Document for Best Available Control Measures, equation 2-13, p 2-28.

j) Assuming 5000 cubic yards of dirt handled

k) USEPA, AP-42, July 1998, Table 11.9-1, Equation for Site Grading: 10 µm

l) USEPA, AP-42, Jan 1995, Section 13.2.4 Aggregate Handling and Storage Piles, Equation 1

m) USEPA, Fugitive Dust Background Document and Technical Information Document for Best Available Control Measures, Sept 1992, EPA-450/2-92-004, Equation 2-12.

n) Includes watering at least three times a day per Rule 403 (61% control efficiency).

o) Source: USEPA, AP-42, Emission Factor Equations for Uncontrolled Dust Sources at Western Surface Coal Mines, Table 11.9-1, Dragline calculations for PM₁₀ and PM_{2.5}.

| | Qty | Operating Hrs/wd/each | Total Operating Hours Per Day | Off-Road Row | Month | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
|----------------------------------|-----|-----------------------|-------------------------------|--|-------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 1/2 Ton Pickup (Commute Vehicle) | 5 | 4 | 20 | Off-site worker use | | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | |
| 3/4 Ton Pickup | 2 | 8 | 16 | Emfac; Assumes 5 VMT Per Day/Vehicle | | | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | |
| 1 Ton Pickup | 2 | 8 | 16 | Emfac; Assumes 5 VMT Per Day/Vehicle | | | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | |
| 4000 Gallon Water Truck | 1 | 4 | 4 | 112 | | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | |
| Yard Crane, ATV | 2 | 8 | 16 | 51 | | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | |
| Loader/ForksCat 966, | 1 | 8 | 8 | 230 | | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | |
| Job Trailers (3) | 3 | 2 | 6 | No Emissions | | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | |
| Grader, Cat 16G | 1 | 4 | 4 | 97 | | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | |
| Dozer, D10 | 2 | 8 | 16 | 57 | | | | | | | | | | | | | | | | | 16 | 16 | 16 | |
| Excavator, Cat 365 | 1 | 4 | 4 | 75 | | | | | | | | | | | | | | | | | 4 | 4 | 4 | |
| Roller/Compactor (Vibratory) | 1 | 4 | 4 | 174 | | | | | | | | | | | | | | | | | 4 | 4 | 4 | |
| | | | | Hydraulic Breakers are typically run off of another piece of equipment. In this case, it is likely ran off of one of the cranes. | | | | | | | | | | | | | | | | | 4 | 4 | 4 | 4 |
| Truck tractor | 2 | 8 | 8 | Emfac | | | | | | | | | | | | | | | | | | | | |
| Truck tractor | 1 | 8 | 8 | 143 | | | | | | | | | | | | | | | | | | | | |
| AC paver | 1 | 8 | 8 | 174 | | | | | | | | | | | | | | | | | | | | |
| Tandem Roller | 1 | 8 | 8 | 100 | | | | | | | | | | | | | | | | | | | | |
| Pulley Grader system | 1 | 8 | 8 | Not used | | | | | | | | | | | | | | | | | | | | |
| Gas Engine Vibrator | 1 | 8 | 8 | 166 | | | | | | | | | | | | | | | | | | | | |
| Concrete Pump | 1 | 8 | 8 | related for truck tractor | | | | | | | | | | | | | | | | | | | | |
| Crane, truck mounted | 1 | 8 | 8 | 83 | | | | | | | | | | | | | | | | | | | | |
| Off-road forklift | 1 | 8 | 8 | 93 | | | | | | | | | | | | | | | | | | | | |
| K45 Generator | 1 | 8 | 8 | 35 | | | | | | | | | | | | | | | | | | | | |
| Drill | 1 | 8 | 8 | 25 | | | | | | | | | | | | | | | | | | | | |
| Air compressor | 1 | 8 | 8 | 119 | | | | | | | | | | | | | | | | | | | | |
| Misc. | 10 | 2 | 20 | | | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | |

| Month 1 | | | | | | | | | | | | | | | | |
|----------------------------------|---------------|-------------------|--------------|------------------|---------------|-------------------|---------------|-------------------|----------------|-----------------|--------------|------------------|---------------|-------------------|---------------|-------------------|
| | VOC (lbs/day) | VOC Rate (lbs/hr) | CO (lbs/day) | CO rate (lbs/hr) | NOX (lbs/day) | NOX rate (lbs/hr) | SOX (lbs/day) | SOX rate (lbs/hr) | PM10 (lbs/day) | PM2.5 (lbs/day) | PM (lbs/day) | PM rate (lbs/hr) | CO2 (lbs/day) | CO2 Rate (lbs/hr) | CH4 (lbs/day) | CH4 rate (lbs/hr) |
| 1/2 Ton Pickup (Commute Vehicle) | | | | | | | | | | | | | | | | |
| 3/4 Ton Pickup | | | | | | | | | | | | | | | | |
| 1 Ton Pickup | | | | | | | | | | | | | | | | |
| 4000 Gallon Water Truck | 0.81 | 0.2034 | 2.46 | 0.6148 | 6.67 | 1.6679 | 0.01 | 0.0027 | 0.2315 | 0.2130 | 0.23 | 0.0579 | 1040.25 | 260 | 0.07 | 0.0183 |
| Yard Crane, ATV | 2.04 | 0.1276 | 7.28 | 0.4553 | 17.71 | 1.1066 | 0.02 | 0.0014 | 0.7458 | 0.6862 | 0.75 | 0.0466 | 2058.16 | 129 | 0.18 | 0.0115 |
| Loader/ForksCat 966, | 0.91 | 0.1142 | 2.89 | 0.3608 | 8.24 | 1.0294 | 0.02 | 0.0019 | 0.2640 | 0.2429 | 0.26 | 0.0330 | 1373.90 | 172 | 0.08 | 0.0103 |
| Job Trailers (3) | | | | | | | | | | | | | | | | |
| Grader, Cat 16G | 0.56 | 0.1407 | 1.67 | 0.4177 | 5.14 | 1.2844 | 0.01 | 0.0019 | 0.1780 | 0.1637 | 0.18 | 0.0445 | 688.45 | 172 | 0.05 | 0.0127 |
| Dozer, D10 | | | | | | | | | | | | | | | | |
| Excavator, Cat 365 | | | | | | | | | | | | | | | | |
| Roller/Compactor (Vibratory) | | | | | | | | | | | | | | | | |
| Hydraulic Breaker | | | | | | | | | | | | | | | | |
| Truck tractor | | | | | | | | | | | | | | | | |
| AC paver | | | | | | | | | | | | | | | | |
| Tandem Roller | | | | | | | | | | | | | | | | |
| Pulley Grader system | | | | | | | | | | | | | | | | |
| Gas Engine Vibrator | | | | | | | | | | | | | | | | |
| Concrete Pump | | | | | | | | | | | | | | | | |
| Crane, truck mounted | | | | | | | | | | | | | | | | |
| Off-road forklift | | | | | | | | | | | | | | | | |
| K45 Generator | | | | | | | | | | | | | | | | |
| Drill | | | | | | | | | | | | | | | | |
| Air compressor | | | | | | | | | | | | | | | | |
| Misc. | | | | | | | | | | | | | | | | |
| | 4.33 | | 14.30 | | 37.75 | | 0.06 | | 1.42 | 1.31 | 1.42 | | 5160.77 | | 0.39 | |

2014

| Months 2-13 | | | | | | | | | | | | | | | | |
|----------------------------------|---------------|-------------------|--------------|------------------|---------------|-------------------|---------------|-------------------|----------------|-----------------|--------------|------------------|---------------|-------------------|---------------|-------------------|
| | VOC (lbs/day) | VOC Rate (lbs/hr) | CO (lbs/day) | CO rate (lbs/hr) | NOX (lbs/day) | NOX rate (lbs/hr) | SOX (lbs/day) | SOX rate (lbs/hr) | PM10 (lbs/day) | PM2.5 (lbs/day) | PM (lbs/day) | PM rate (lbs/hr) | CO2 (lbs/day) | CO2 Rate (lbs/hr) | CH4 (lbs/day) | CH4 rate (lbs/hr) |
| 1/2 Ton Pickup (Commute Vehicle) | | | | | | | | | | | | | | | | |
| 3/4 Ton Pickup | 0.00 | | 0.07 | | 0.01 | | 0.00 | | 0.0018 | 0.0013 | | | 15.78 | | 0.00 | |
| 1 Ton Pickup | 0.00 | | 0.09 | | 0.01 | | 0.00 | | 0.0018 | 0.0014 | | | 21.53 | | 0.00 | |
| 4000 Gallon Water Truck | 0.81 | 0.2034 | 2.46 | 0.6148 | 6.67 | 1.6679 | 0.01 | 0.0027 | 0.2315 | 0.2130 | 0.23 | 0.0579 | 1040.25 | 260 | 0.07 | 0.0183 |
| Yard Crane, ATV | 2.04 | 0.1276 | 7.28 | 0.4553 | 17.71 | 1.1066 | 0.02 | 0.0014 | 0.7458 | 0.6862 | 0.75 | 0.0466 | 2058.16 | 129 | 0.18 | 0.0115 |
| Loader/ForksCat 966, | 0.91 | 0.1142 | 2.89 | 0.3608 | 8.24 | 1.0294 | 0.02 | 0.0019 | 0.2640 | 0.2429 | 0.26 | 0.0330 | 1373.90 | 172 | 0.08 | 0.0103 |
| Job Trailers (3) | | | | | | | | | | | | | | | | |
| Grader, Cat 16G | 0.56 | 0.1407 | 1.67 | 0.4177 | 5.14 | 1.2844 | 0.01 | 0.0019 | 0.1780 | 0.1637 | 0.18 | 0.0445 | 688.45 | 172 | 0.05 | 0.0127 |
| Dozer, D10 | | | | | | | | | | | | | | | | |

2014

| | | | | | | | | | | | | | | | | | | | | |
|------------------------------|-------------|--------|--------------|--------|--------------|--------|-------------|--------|-------------|-------------|-------------|--------|----------------|-----|-------------|--------|--|--|--|--|
| Excavator, Cat 365 | | | | | | | | | | | | | | | | | | | | |
| Roller/Compactor (Vibratory) | | | | | | | | | | | | | | | | | | | | |
| Hydraulic Breaker | | | | | | | | | | | | | | | | | | | | |
| Truck tractor | | | | | | | | | | | | | | | | | | | | |
| AC paver | | | | | | | | | | | | | | | | | | | | |
| Tandem Roller | | | | | | | | | | | | | | | | | | | | |
| Pulley Grader system | | | | | | | | | | | | | | | | | | | | |
| Gas Engine Vibrator | | | | | | | | | | | | | | | | | | | | |
| Concrete Pump | | | | | | | | | | | | | | | | | | | | |
| Crane, truck mounted | | | | | | | | | | | | | | | | | | | | |
| Off-road forklift | | | | | | | | | | | | | | | | | | | | |
| K45 Generator | | | | | | | | | | | | | | | | | | | | |
| Drill | | | | | | | | | | | | | | | | | | | | |
| Air compressor | | | | | | | | | | | | | | | | | | | | |
| Misc. | 1.64 | 0.0820 | 7.39 | 0.3697 | 14.34 | 0.7168 | 0.03 | 0.0013 | 0.5915 | 0.5442 | 0.59 | 0.0296 | 2452.63 | 123 | 0.15 | 0.0074 | | | | |
| | 5.98 | | 21.85 | | 52.10 | | 0.08 | | 2.01 | 1.85 | 2.01 | | 7650.71 | | 0.54 | | | | | |

| Months 14-15 | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---------------|-------------------|--------------|------------------|---------------|-------------------|---------------|-------------------|----------------|-----------------|--------------|------------------|----------------|-------------------|---------------|-------------------|--|--|--|
| | VOC (lbs/day) | VOC Rate (lbs/hr) | CO (lbs/day) | CO rate (lbs/hr) | NOX (lbs/day) | NOX rate (lbs/hr) | SOX (lbs/day) | SOX rate (lbs/hr) | PM10 (lbs/day) | PM2.5 (lbs/day) | PM (lbs/day) | PM rate (lbs/hr) | CO2 (lbs/day) | CO2 Rate (lbs/hr) | CH4 (lbs/day) | CH4 rate (lbs/hr) | | | |
| 1/2 Ton Pickup (Commute Vehicle) | | | | | | | | | | | | | | | | | | | |
| 3/4 Ton Pickup | 0.00 | | 0.07 | | 0.01 | | 0.00 | | 0.0018 | 0.0013 | | | 15.78 | | 0.00 | | | | |
| 1 Ton Pickup | 0.00 | | 0.09 | | 0.01 | | 0.00 | | 0.0018 | 0.0014 | | | 21.53 | | 0.00 | | | | |
| 4000 Gallon Water Truck | 0.50 | 0.1252 | 1.48 | 0.3702 | 3.93 | 0.9818 | 0.01 | 0.0019 | 0.1311 | 0.1206 | 0.13 | 0.0328 | 666.18 | 167 | 0.05 | 0.0113 | | | |
| Yard Crane, ATV | 1.93 | 0.1204 | 7.03 | 0.4395 | 16.32 | 1.0200 | 0.02 | 0.0014 | 0.6811 | 0.6266 | 0.68 | 0.0426 | 2058.09 | 129 | 0.17 | 0.0109 | | | |
| Loader/ForkCat 966, | 0.87 | 0.1082 | 2.85 | 0.3566 | 7.24 | 0.9047 | 0.02 | 0.0019 | 0.2349 | 0.2161 | 0.23 | 0.0294 | 1373.90 | 172 | 0.08 | 0.0098 | | | |
| Job Trailers (3) | | | | | | | | | | | | | | | | | | | |
| Grader, Cat 16G | 0.53 | 0.1326 | 1.62 | 0.4046 | 4.64 | 1.1596 | 0.01 | 0.0019 | 0.1599 | 0.1471 | 0.16 | 0.0400 | 688.45 | 172 | 0.05 | 0.0120 | | | |
| Dozer, D10 | | | | | | | | | | | | | | | | | | | |
| Excavator, Cat 365 | | | | | | | | | | | | | | | | | | | |
| Roller/Compactor (Vibratory) | | | | | | | | | | | | | | | | | | | |
| Hydraulic Breaker | | | | | | | | | | | | | | | | | | | |
| Truck tractor | | | | | | | | | | | | | | | | | | | |
| AC paver | | | | | | | | | | | | | | | | | | | |
| Tandem Roller | | | | | | | | | | | | | | | | | | | |
| Pulley Grader system | | | | | | | | | | | | | | | | | | | |
| Gas Engine Vibrator | | | | | | | | | | | | | | | | | | | |
| Concrete Pump | | | | | | | | | | | | | | | | | | | |
| Crane, truck mounted | | | | | | | | | | | | | | | | | | | |
| Off-road forklift | | | | | | | | | | | | | | | | | | | |
| K45 Generator | | | | | | | | | | | | | | | | | | | |
| Drill | | | | | | | | | | | | | | | | | | | |
| Air compressor | | | | | | | | | | | | | | | | | | | |
| Misc. | 1.54 | 0.0768 | 7.29 | 0.3645 | 12.78 | 0.6392 | 0.03 | 0.0013 | 0.5274 | 0.4852 | 0.53 | 0.0264 | 2451.96 | 123 | 0.14 | 0.0069 | | | |
| | 5.37 | | 20.43 | | 44.92 | | 0.08 | | 1.74 | 1.60 | 1.73 | | 7275.89 | | 0.49 | | | | |

| Months 16-19 | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---------------|-------------------|--------------|------------------|---------------|-------------------|---------------|-------------------|----------------|-----------------|--------------|------------------|-----------------|-------------------|---------------|-------------------|--|--|--|
| | VOC (lbs/day) | VOC Rate (lbs/hr) | CO (lbs/day) | CO rate (lbs/hr) | NOX (lbs/day) | NOX rate (lbs/hr) | SOX (lbs/day) | SOX rate (lbs/hr) | PM10 (lbs/day) | PM2.5 (lbs/day) | PM (lbs/day) | PM rate (lbs/hr) | CO2 (lbs/day) | CO2 Rate (lbs/hr) | CH4 (lbs/day) | CH4 rate (lbs/hr) | | | |
| 1/2 Ton Pickup (Commute Vehicle) | | | | | | | | | | | | | | | | | | | |
| 3/4 Ton Pickup | 0.00 | | 0.07 | | 0.01 | | 0.00 | | 0.0018 | 0.0013 | | | 15.78 | | 0.00 | | | | |
| 1 Ton Pickup | 0.00 | | 0.09 | | 0.01 | | 0.00 | | 0.0018 | 0.0014 | | | 21.53 | | 0.00 | | | | |
| 4000 Gallon Water Truck | 0.50 | 0.1252 | 1.48 | 0.3702 | 3.93 | 0.9818 | 0.01 | 0.0019 | 0.1311 | 0.1206 | 0.13 | 0.0328 | 666.18 | 167 | 0.05 | 0.0113 | | | |
| Yard Crane, ATV | 1.93 | 0.1204 | 7.03 | 0.4395 | 16.32 | 1.0200 | 0.02 | 0.0014 | 0.6811 | 0.6266 | 0.68 | 0.0426 | 2058.09 | 129 | 0.17 | 0.0109 | | | |
| Loader/ForkCat 966, | 0.87 | 0.1082 | 2.85 | 0.3566 | 7.24 | 0.9047 | 0.02 | 0.0019 | 0.2349 | 0.2161 | 0.23 | 0.0294 | 1373.90 | 172 | 0.08 | 0.0098 | | | |
| Job Trailers (3) | | | | | | | | | | | | | | | | | | | |
| Grader, Cat 16G | 0.53 | 0.1326 | 1.62 | 0.4046 | 4.64 | 1.1596 | 0.01 | 0.0019 | 0.1599 | 0.1471 | 0.16 | 0.0400 | 688.45 | 172 | 0.05 | 0.0120 | | | |
| Dozer, D10 | 6.62 | 0.4140 | 23.90 | 1.4936 | 55.78 | 3.4863 | 0.07 | 0.0047 | 2.1226 | 1.9528 | 2.12 | 0.1327 | 7434.99 | 465 | 0.60 | 0.0374 | | | |
| Excavator, Cat 365 | 0.63 | 0.1577 | 1.99 | 0.4964 | 4.65 | 1.1619 | 0.01 | 0.0023 | 0.1653 | 0.1521 | 0.17 | 0.0413 | 934.94 | 234 | 0.06 | 0.0142 | | | |
| Roller/Compactor (Vibratory) | 0.34 | 0.0851 | 1.59 | 0.3979 | 2.28 | 0.5706 | 0.00 | 0.0008 | 0.1543 | 0.1420 | 0.15 | 0.0386 | 268.20 | 67.1 | 0.03 | 0.0077 | | | |
| Hydraulic Breaker | | | | | | | | | | | | | | | | | | | |
| Truck tractor | | | | | | | | | | | | | | | | | | | |
| AC paver | | | | | | | | | | | | | | | | | | | |
| Tandem Roller | | | | | | | | | | | | | | | | | | | |
| Pulley Grader system | | | | | | | | | | | | | | | | | | | |
| Gas Engine Vibrator | | | | | | | | | | | | | | | | | | | |
| Concrete Pump | | | | | | | | | | | | | | | | | | | |
| Crane, truck mounted | | | | | | | | | | | | | | | | | | | |
| Off-road forklift | | | | | | | | | | | | | | | | | | | |
| K45 Generator | | | | | | | | | | | | | | | | | | | |
| Drill | | | | | | | | | | | | | | | | | | | |
| Air compressor | | | | | | | | | | | | | | | | | | | |
| Misc. | 1.54 | 0.0768 | 7.29 | 0.3645 | 12.78 | 0.6392 | 0.03 | 0.0013 | 0.5274 | 0.4852 | 0.53 | 0.0264 | 2451.96 | 123 | 0.14 | 0.0069 | | | |
| | 12.96 | | 47.91 | | 107.63 | | 0.17 | | 4.18 | 3.85 | 4.18 | | 15914.02 | | 1.17 | | | | |

| DUST EMISSIONS | | |
|----------------|-------------------|--------------------|
| | Unmitigated PM10* | Unmitigated PM2.5* |

| | | | | |
|-------|------|--------|------|--------|
| Total | 0.00 | 30.100 | 0.00 | 6.2266 |
|-------|------|--------|------|--------|

| WORKER VEHICLES | | | | WORKER VEHICLE EMISSIONS (ppd) | | | | | | | |
|-----------------|-----------------|-------------------|----------------------|--------------------------------|------|------|------|------|------|-------|--------|
| | # of Workers[1] | Round Trip Length | # of Worker Vehicles | Total VMT/Day | CO | VOC | NOX | SOX | PM10 | PM2.5 | CO2 |
| Worker Vehicles | 72 | 13.3 | 72 | 957.60 | 5.47 | 0.18 | 0.45 | 0.01 | 0.07 | 0.07 | 905.13 |

| TRUCK TRIPS | | HEAVY-DUTY TRUCK EMISSIONS (ppd) | | | | | | | | | |
|------------------------|---------------|----------------------------------|---------|------|------|-------|------|------|-------|----------|--|
| | Trips per Day | Round Trip Length | VMT/day | CO | VOC | NOX | SOX | PM10 | PM2.5 | CO2 | |
| Dump Trucks (Off-site) | 34 | 32 | 1,088 | 8.81 | 1.92 | 23.01 | 0.04 | 1.00 | 0.92 | 4,615.48 | |

| TOTAL EMISSIONS | | EMISSIONS (ppd) | | | | | | | Metric Tonnes Per Year | |
|-----------------|--------------|-----------------|---------------|-------------|--------------|--------------|------------------|----|------------------------|--|
| | CO | VOC | NOX | SOX | PM10 | PM2.5 | CO2 | | | |
| On-Site | 47.91 | 12.96 | 107.63 | 0.17 | 34.28 | 10.07 | 15,938.61 | | | |
| Off-Site | 14.28 | 2.10 | 23.46 | 0.05 | 1.07 | 0.99 | 5,520.61 | | | |
| TOTAL | 62.19 | 15.06 | 131.10 | 0.22 | 35.35 | 11.06 | 21,459.22 | 10 | 2530.772 | |

[1] Trip length from URBEMIS2007.

| TOTAL MITIGATED EXHAUST EMISSIONS | | EMISSIONS (ppd) | | | | | | |
|-----------------------------------|--------------|-----------------|---------------|-------------|-------------|-------------|------------------|--|
| | CO | VOC | NOX | SOX | PM10 | PM2.5 | CO2 | |
| On-Site | 45.51 | 12.31 | 102.25 | 0.16 | 3.97 | 3.65 | 15,938.61 | |
| Off-Site | 13.57 | 1.99 | 22.29 | 0.05 | 1.02 | 0.94 | 5,520.61 | |
| TOTAL | 59.08 | 14.30 | 124.54 | 0.21 | 4.99 | 4.60 | 21,459.22 | |

| TOTAL MITIGATED EMISSIONS | | EMISSIONS (ppd) | | | | | | | Metric Tonnes Per Year | |
|---------------------------|--------------|-----------------|---------------|-------------|--------------|--------------|------------------|----|------------------------|--|
| | CO | VOC | NOX | SOX | PM10 | PM2.5 | CO2 | | | |
| On-Site | 45.51 | 12.31 | 102.25 | 0.16 | 34.07 | 9.88 | 15,938.61 | | | |
| Off-Site | 13.57 | 1.99 | 22.29 | 0.05 | 1.02 | 0.94 | 5,520.61 | | | |
| TOTAL | 59.08 | 14.30 | 124.54 | 0.21 | 35.09 | 10.82 | 21,459.22 | 10 | 2530.772 | |

Floating Cover Phase 2 Regional Construction Emissions

| | Qty | Operating Hrs/Wd/each | Total Operating Hours Per Day | Off-Road Row | Month | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 |
|----------------------------------|-----|-----------------------|-------------------------------|--|-------|----|----|----|----|----|----|----|----|----|
| | | | | | | | | | | | | | | |
| 1/2 Ton Pickup (Commute Vehicle) | 5 | 4 | 20 | Off-site worker use | | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |
| 3/4 Ton Pickup | 2 | 8 | 16 | Emfac; Assumes 5 VMT Per Day/Vehicle | | 16 | 16 | 16 | 16 | | | | | |
| 1 Ton Pickup | 2 | 8 | 16 | Emfac; Assumes 5 VMT Per Day/Vehicle | | 16 | 16 | 16 | 16 | | | | | |
| 4000 Gallon Water Truck | 1 | 4 | 4 | 112 | | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| Yard Crane, ATV | 2 | 8 | 16 | 51 | | 16 | 16 | 16 | 16 | | | | | |
| Loader/ForksCat 966, | 1 | 8 | 8 | 230 | | 8 | 8 | 8 | 8 | | | | | |
| Job Trailers (3) | 3 | 2 | 6 | No Emissions | | 6 | 6 | 6 | 6 | | | | | |
| Grader, Cat 16G | 1 | 4 | 4 | 97 | | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| Dozer, D10 | 2 | 8 | 16 | 57 | | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 |
| Excavator, Cat 365 | 1 | 4 | 4 | 75 | | 4 | 4 | 4 | 4 | | | | | |
| Roller/Compactor (Vibratory) | 1 | 4 | 4 | 174 | | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| Hydraulic Breaker | 2 | 2 | 4 | Hydraulic Breakers are typically run off of another piece of equipment. In this case, it is likely ran off of one of the cranes. | | 4 | 4 | 4 | 4 | | | | | |
| Truck tractor | 1 | 8 | 8 | Emfac rates from Emfac | | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| AC paver | 1 | 8 | 8 | 143 | | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| Tandem Roller | 1 | 8 | 8 | 174 | | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| Pulley Grader system | 1 | 8 | 8 | 100 | | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| Gas Engine Vibrator | 1 | 8 | 8 | Not used | | | | | | | | | | |
| Concrete Pump | 1 | 8 | 8 | 166 | | | | | | | | | | |
| Crane, truck mounted | 1 | 8 | 8 | Emfac for truck tractor | | | | | | | | | | |
| Off-road forklift | 1 | 8 | 8 | 83 | | | | | | | | | | |
| K45 Generator | 1 | 8 | 8 | 93 | | | | | | | | | | |
| Drill | 1 | 8 | 8 | 35 | | | | | | | | | | |
| Air compressor | 1 | 8 | 8 | 25 | | | | | | | | | | |
| Misc. | 10 | 2 | 20 | 119 | | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |

| | Months 20-21 | | | | | | | | | | | | | | | |
|----------------------------------|---------------|-------------------|--------------|------------------|---------------|-------------------|---------------|-------------------|----------------|-----------------|--------------|------------------|-----------------|-------------------|---------------|-------------------|
| | VOC (lbs/day) | VOC Rate (lbs/hr) | CO (lbs/day) | CO rate (lbs/hr) | NOX (lbs/day) | NOX rate (lbs/hr) | SOX (lbs/day) | SOX rate (lbs/hr) | PM10 (lbs/day) | PM2.5 (lbs/day) | PM (lbs/day) | PM rate (lbs/hr) | CO2 (lbs/day) | CO2 Rate (lbs/hr) | CH4 (lbs/day) | CH4 rate (lbs/hr) |
| 1/2 Ton Pickup (Commute Vehicle) | | | | | | | | | | | | | | | | |
| 3/4 Ton Pickup | 0.00 | | 0.07 | | 0.01 | | 0.00 | | 0.0018 | 0.0014 | | | 15.78 | | | 0.00 |
| 1 Ton Pickup | 0.00 | | 0.08 | | 0.01 | | 0.00 | | 0.0018 | 0.0014 | | | 21.53 | | | 0.00 |
| 4000 Gallon Water Truck | 0.73 | 0.1816 | 2.33 | 0.5831 | 5.33 | 1.3322 | 0.01 | 0.0027 | 0.1835 | 0.1688 | 0.18 | 0.0459 | 1040.21 | 260 | 0.07 | 0.0164 |
| Yard Crane, ATV | 1.82 | 0.1137 | 6.82 | 0.4263 | 15.02 | 0.9387 | 0.02 | 0.0014 | 0.6206 | 0.5709 | 0.62 | 0.0388 | 2058.07 | 129 | 0.16 | 0.0103 |
| Loader/ForksCat 966, | 0.82 | 0.1025 | 2.83 | 0.3534 | 6.33 | 0.7914 | 0.02 | 0.0019 | 0.2081 | 0.1915 | 0.21 | 0.0260 | 1373.90 | 172 | 0.07 | 0.0092 |
| Job Trailers (3) | | | | | | | | | | | | | | | | |
| Grader, Cat 16G | 0.50 | 0.1250 | 1.57 | 0.3936 | 4.18 | 1.0444 | 0.01 | 0.0019 | 0.1434 | 0.1319 | 0.14 | 0.0359 | 688.45 | 172 | 0.05 | 0.0113 |
| Dozer, D10 | 6.29 | 0.3930 | 22.62 | 1.4137 | 51.27 | 3.2045 | 0.07 | 0.0047 | 1.9413 | 1.7860 | 1.94 | 0.1213 | 7434.99 | 465 | 0.57 | 0.0355 |
| Excavator, Cat 365 | 0.60 | 0.1496 | 1.94 | 0.4851 | 4.09 | 1.0236 | 0.01 | 0.0023 | 0.1465 | 0.1347 | 0.15 | 0.0366 | 934.94 | 234 | 0.05 | 0.0135 |
| Roller/Compactor (Vibratory) | 0.32 | 0.0792 | 1.58 | 0.3944 | 2.11 | 0.5273 | 0.00 | 0.0008 | 0.1413 | 0.1300 | 0.14 | 0.0353 | 268.19 | 67.0 | 0.03 | 0.0071 |
| Hydraulic Breaker | | | | | | | | | | | | | | | | |
| Truck tractor | | | | | | | | | | | | | | | | |
| AC paver | | | | | | | | | | | | | | | | |
| Tandem Roller | | | | | | | | | | | | | | | | |
| Pulley Grader system | | | | | | | | | | | | | | | | |
| Gas Engine Vibrator | | | | | | | | | | | | | | | | |
| Concrete Pump | | | | | | | | | | | | | | | | |
| Crane, truck mounted | | | | | | | | | | | | | | | | |
| Off-road forklift | | | | | | | | | | | | | | | | |
| K45 Generator | | | | | | | | | | | | | | | | |
| Drill | | | | | | | | | | | | | | | | |
| Air compressor | | | | | | | | | | | | | | | | |
| Misc. | 1.44 | 0.0720 | 7.20 | 0.3602 | 11.36 | 0.5680 | 0.03 | 0.0013 | 0.4674 | 0.4300 | 0.47 | 0.0234 | 2451.26 | 123 | 0.13 | 0.0065 |
| | 12.51 | | 47.04 | | 99.71 | | 0.17 | | 3.86 | 3.55 | 3.85 | | 16287.32 | | 1.13 | |

| | Months 22-24 | | | | | | | | | | | | | | | |
|----------------------------------|---------------|-------------------|--------------|------------------|---------------|-------------------|---------------|-------------------|----------------|-----------------|--------------|------------------|---------------|-------------------|---------------|-------------------|
| | VOC (lbs/day) | VOC Rate (lbs/hr) | CO (lbs/day) | CO rate (lbs/hr) | NOX (lbs/day) | NOX rate (lbs/hr) | SOX (lbs/day) | SOX rate (lbs/hr) | PM10 (lbs/day) | PM2.5 (lbs/day) | PM (lbs/day) | PM rate (lbs/hr) | CO2 (lbs/day) | CO2 Rate (lbs/hr) | CH4 (lbs/day) | CH4 rate (lbs/hr) |
| 1/2 Ton Pickup (Commute Vehicle) | | | | | | | | | | | | | | | | |
| 3/4 Ton Pickup | 0.00 | | 0.07 | | 0.01 | | 0.00 | | 0.0018 | 0.0014 | | | 15.78 | | | 0.00 |
| 1 Ton Pickup | 0.00 | | 0.08 | | 0.01 | | 0.00 | | 0.0018 | 0.0014 | | | 21.53 | | | 0.00 |
| 4000 Gallon Water Truck | 0.73 | 0.1816 | 2.33 | 0.5831 | 5.33 | 1.3322 | 0.01 | 0.0027 | 0.1835 | 0.1688 | 0.18 | 0.0459 | 1040.21 | 260 | 0.07 | 0.0164 |
| Yard Crane, ATV | 1.82 | 0.1137 | 6.82 | 0.4263 | 15.02 | 0.9387 | 0.02 | 0.0014 | 0.6206 | 0.5709 | 0.62 | 0.0388 | 2058.07 | 129 | 0.16 | 0.0103 |
| Loader/ForksCat 966, | 0.82 | 0.1025 | 2.83 | 0.3534 | 6.33 | 0.7914 | 0.02 | 0.0019 | 0.2081 | 0.1915 | 0.21 | 0.0260 | 1373.90 | 172 | 0.07 | 0.0092 |

Floating Cover Phase 3 Regional Construction Emissions

| | Qty | Operating Hrs/WD/each | Total Operating Hours Per Day | Off-Road Row | Month | 29 | 30 | 31 | 32 |
|----------------------------------|-----|-----------------------|-------------------------------|--|-------|----|----|----|-----|
| 1/2 Ton Pickup (Commute Vehicle) | 5 | 4 | 20 | Off-site worker use | | 20 | 20 | 20 | 20 |
| 3/4 Ton Pickup | 2 | 8 | 16 | Emfac; Assumes 5 VMT Per Day/Vehicle | | | | | |
| 1 Ton Pickup | 2 | 8 | 16 | Emfac; Assumes 5 VMT Per Day/Vehicle | | | | | |
| 4000 Gallon Water Truck | 1 | 4 | 4 | | | | | | 112 |
| Yard Crane, ATV | 2 | 8 | 16 | | | | | | 51 |
| Loader/ForksCat 966, | 1 | 8 | 8 | | | | | | 230 |
| Job Trailers (3) | 3 | 2 | 6 | No Emissions | | | | | |
| Grader, Cat 16G | 1 | 4 | 4 | | | | | | 97 |
| Dozer, D10 | 2 | 8 | 16 | | | | | | 57 |
| Excavator, Cat 365 | 1 | 4 | 4 | | | | | | 75 |
| Roller/Compactor (Vibratory) | 1 | 4 | 4 | | | | | | 174 |
| Hydraulic Breaker | 2 | 2 | 4 | Hydraulic Breakers are typically run off of another piece of equipment. In this case, it is likely ran off of one of the cranes. | | | | | |
| Truck tractor | 1 | 8 | 8 | on rates from Emfac | | | | | |
| AC paver | 1 | 8 | 8 | | | | | | 143 |
| Tandem Roller | 1 | 8 | 8 | | | | | | 174 |
| Pulley Grader system | 1 | 8 | 8 | | | | | | 100 |
| Gas Engine Vibrator | 1 | 8 | 8 | Not used | | | | | |
| Concrete Pump | 1 | 8 | 8 | | | | | | 166 |
| Crane, truck mounted | 1 | 8 | 8 | sked for truck tractor. | | | | | |
| Off-road forklift | 1 | 8 | 8 | | | 8 | 8 | 8 | 83 |
| K45 Generator | 1 | 8 | 8 | | | 8 | 8 | 8 | 93 |
| Drill | 1 | 8 | 8 | | | 8 | 8 | 8 | 35 |
| Air compressor | 1 | 8 | 8 | | | 8 | 8 | 8 | 25 |
| Misc. | 10 | 2 | 20 | | | 20 | 20 | 20 | 119 |

| | Months 29-31 | | | | | | | | | | | | | | | |
|----------------------------------|---------------|-------------------|--------------|------------------|---------------|-------------------|---------------|-------------------|----------------|-----------------|--------------|------------------|---------------|-------------------|---------------|-------------------|
| | VOC (lbs/day) | VOC Rate (lbs/hr) | CO (lbs/day) | CO rate (lbs/hr) | NOX (lbs/day) | NOX rate (lbs/hr) | SOX (lbs/day) | SOX rate (lbs/hr) | PM10 (lbs/day) | PM2.5 (lbs/day) | PM (lbs/day) | PM rate (lbs/hr) | CO2 (lbs/day) | CO2 Rate (lbs/hr) | CH4 (lbs/day) | CH4 rate (lbs/hr) |
| 1/2 Ton Pickup (Commute Vehicle) | | | | | | | | | | | | | | | | |
| 3/4 Ton Pickup | | | | | | | | | | | | | | | | |
| 1 Ton Pickup | | | | | | | | | | | | | | | | |
| 4000 Gallon Water Truck | | | | | | | | | | | | | | | | |
| Yard Crane, ATV | | | | | | | | | | | | | | | | |
| Loader/ForksCat 966, | | | | | | | | | | | | | | | | |
| Job Trailers (3) | | | | | | | | | | | | | | | | |
| Grader, Cat 16G | | | | | | | | | | | | | | | | |
| Dozer, D10 | | | | | | | | | | | | | | | | |
| Excavator, Cat 365 | | | | | | | | | | | | | | | | |
| Roller/Compactor (Vibratory) | | | | | | | | | | | | | | | | |
| Hydraulic Breaker | | | | | | | | | | | | | | | | |
| Truck tractor | | | | | | | | | | | | | | | | |
| AC paver | | | | | | | | | | | | | | | | |
| Tandem Roller | | | | | | | | | | | | | | | | |
| Pulley Grader system | | | | | | | | | | | | | | | | |
| Gas Engine Vibrator | | | | | | | | | | | | | | | | |
| Concrete Pump | | | | | | | | | | | | | | | | |
| Crane, truck mounted | | | | | | | | | | | | | | | | |
| Off-road forklift | 0.34 | 0.0427 | 1.75 | 0.2190 | 2.25 | 0.2816 | 0.00 | 0.0006 | 0.1092 | 0.1005 | 0.11 | 0.0137 | 435.17 | 54.4 | 0.03 | 0.0039 |
| K45 Generator | 0.46 | 0.0581 | 2.29 | 0.2862 | 3.50 | 0.4370 | 0.01 | 0.0007 | 0.1926 | 0.1772 | 0.19 | 0.0241 | 487.94 | 61.0 | 0.04 | 0.0052 |
| Drill | 0.50 | 0.0623 | 4.01 | 0.5016 | 4.27 | 0.5340 | 0.01 | 0.0017 | 0.1277 | 0.1175 | 0.13 | 0.0160 | 1319.27 | 165 | 0.04 | 0.0056 |
| Air compressor | 0.56 | 0.0704 | 2.57 | 0.3207 | 3.78 | 0.4729 | 0.01 | 0.0007 | 0.2547 | 0.2344 | 0.25 | 0.0318 | 508.86 | 63.6 | 0.05 | 0.0064 |

| | | | | | | | | | | | | | | | | |
|-------|------|--------|-------|--------|-------|--------|------|--------|--------|--------|------|--------|---------|-----|------|--------|
| Misc. | 1.44 | 0.0720 | 7.20 | 0.3602 | 11.36 | 0.5680 | 0.03 | 0.0013 | 0.4674 | 0.4300 | 0.47 | 0.0234 | 2451.26 | 123 | 0.13 | 0.0065 |
| | 3.31 | | 17.82 | | 25.16 | | 0.06 | | 1.15 | 1.06 | 1.15 | | 5202.50 | | 0.30 | |

| DUST EMISSIONS | | |
|----------------|-------------------------------|--------------------------------|
| | Unmitigated PM10 ^a | Unmitigated PM2.5 ^a |
| Total | 0.00 | 0.00 |

| WORKER VEHICLES | | WORKER VEHICLE EMISSIONS (ppd) | | | | | | | | | | |
|-----------------|-----------------|--------------------------------|----------------------|---------------|------|------|-----|------|------|-------|------|--------|
| | # of Workers[1] | Round Trip Length | # of Worker Vehicles | Total VMT/Day | CO | VOC | NOX | SOX | PM10 | PM2.5 | CO2 | |
| Worker Vehicles | 18 | 13.3 | 18 | 239.40 | 1.13 | 0.03 | | 0.09 | 0.00 | 0.02 | 0.02 | 225.91 |

| TRUCK TRIPS | | HEAVY-DUTY TRUCK EMISSIONS (ppd) | | | | | | | | | |
|------------------------|---------------|----------------------------------|---------|------|------|------|------|------|-------|--------|--|
| | Trips per Day | Round Trip Length | VMT/day | CO | VOC | NOX | SOX | PM10 | PM2.5 | CO2 | |
| Dump Trucks (Off-site) | 1 | 32 | 32 | 0.20 | 0.05 | 0.52 | 0.00 | 0.02 | 0.02 | 135.75 | |

| TOTAL EMISSIONS | | EMISSIONS (ppd) | | | | | | | | | |
|-----------------|-----------------------|-----------------|--------------|-------------|-------------|-------------|------------------------|--|--|--|--|
| | CO | VOC | NOX | SOX | PM10 | PM2.5 | CO2 | | | | |
| On-Site | 17.82 | 3.31 | 25.16 | 0.06 | 1.15 | 1.06 | 5,208.77 | | | | |
| Off-Site | 1.34 | 0.08 | 0.61 | 0.00 | 0.04 | 0.04 | 361.66 | | | | |
| TOTAL | 19.16 | 3.38 | 25.78 | 0.06 | 1.19 | 1.10 | 5,570.42 | | | | |
| | Metric Tonnes Per Day | | | | | | Metric Tonnes Per Year | | | | |
| | 3 | | | | | | 656.9422 | | | | |

[1] Trip length from URBEMIS2007.

| TOTAL MITIGATED EXHAUST EMISSIONS | | EMISSIONS (ppd) | | | | | | | | | |
|-----------------------------------|--------------|-----------------|--------------|-------------|-------------|-------------|-----------------|--|--|--|--|
| | CO | VOC | NOX | SOX | PM10 | PM2.5 | CO2 | | | | |
| On-Site | 16.93 | 3.14 | 23.91 | 0.05 | 1.09 | 1.01 | 5,208.77 | | | | |
| Off-Site | 1.27 | 0.07 | 0.58 | 0.00 | 0.04 | 0.04 | 361.66 | | | | |
| TOTAL | 18.20 | 3.22 | 24.49 | 0.06 | 1.13 | 1.04 | 5,570.42 | | | | |

| TOTAL MITIGATED EMISSIONS | | EMISSIONS (ppd) | | | | | | | | | |
|---------------------------|-----------------------|-----------------|--------------|-------------|-------------|-------------|------------------------|--|--|--|--|
| | CO | VOC | NOX | SOX | PM10 | PM2.5 | CO2 | | | | |
| On-Site | 16.93 | 3.14 | 23.91 | 0.05 | 1.09 | 1.01 | 5,208.77 | | | | |
| Off-Site | 1.27 | 0.07 | 0.58 | 0.00 | 0.04 | 0.04 | 361.66 | | | | |
| TOTAL | 18.20 | 3.22 | 24.49 | 0.06 | 1.13 | 1.04 | 5,570.42 | | | | |
| | Metric Tonnes Per Day | | | | | | Metric Tonnes Per Year | | | | |
| | 3 | | | | | | 656.9422 | | | | |

UNMITIGATED CONSTRUCTION EMISSIONS CALCULATIONS

| Aluminum Cover - Fugitive Dust Emissions - Inputs for ISC-AERMOD | | |
|--|------------------|---------------------|
| | Weight Conv. [a] | Time Adjustment [b] |
| | 453.59 | 28,800 |
| Project Phase | lb/day [c] | g/s |
| PM10 | 35.1 | 0.553285 |
| PM2.5 | 7.3 | 0.11460 |

[a] Weight conversion is the amount of grams per pound.
 [b] Time adjustment is the number of seconds in 8 hours (1 day of grading).
 [c] Pounds per day emissions rate from construction emissions developed using Offroad 2007 and EMFAC 2007 emissions factors.

| Alternative 1 - Off-Road Equipment Emissions | | | | |
|--|--------|---------|--------|--------|
| Daily Emissions (ppd) | CO | NO2 [1] | PM2.5 | PM10 |
| | 61 | 13 | 4.9 | 5.3 |
| Conversion to Grams/Second | NO2 | PM2.5 | PM10 | |
| | 0.9546 | 0.2018 | 0.0770 | 0.0837 |

| Alternative 1 - Mitigated Off-Road Equipment Emissions | | | | |
|--|--------|---------|--------|--------|
| Daily Emissions (ppd) | CO | NO2 [1] | PM2.5 | PM10 |
| | 58 | 12 | 4.6 | 5.0 |
| Conversion to Grams/Second | NO2 | PM2.5 | PM10 | |
| | 0.9068 | 0.1917 | 0.0732 | 0.0795 |

[1] Used 10% of NOX as NO2 value for input into AERMOD

Aluminum Cover Phase 1 Regional Construction Emissions

| | | |
|---|------------------------------|----------------------------------|
| DEMOLITION | Construction Activity | |
| | Demolition of Existing | 310,000 Square Foot ^a |
| Demolition Schedule - 40 days ^a | | |

| | | | |
|---|------------------------------------|-------------------------------------|-----------------------------------|
| Fugitive Dust Material Handling | | | |
| Aerodynamic Particle Size Multiplier^b | Mean Wind Speed^c | Moisture Content^d | Debris Handled^e |
| 0.35 | 5 mph | 2.0 | 357 ton/day |

| | | | |
|---|---------------------------|-----------------------------------|------------------------|
| Incremental Increase in Onsite Fugitive Dust Emissions from Construction Equipment | | | |
| Material Handling ^c : (0.0032 x Aerodynamic Particle Size Multiplier x (wind speed (mph)/5) ^{1.3} /(moisture content/2) ^{1.4} x debris handled (ton/day)) x (1 - control efficiency) = PM10 Emissions (lb/day) | | | |
| Description | Control Efficiency | PM10 Mitigated^b | PM2.5 Mitigated |
| | % | lb/day | lb/day |
| Material Handling (Demolition) ^f | 61 | 0.16 | 0.03 |
| Material Handling (Debris) | 61 | 0.16 | 0.03 |
| Total | | 0.32 | 0.07 |

Notes:

a) Includes removal of existing reservoir's asphalt lining; the inlet structure and portions of the inlet line; the outlet tower and portions of the outlet lines, and the surrounding parapet wall and fence.

b) USEPA, AP-42, Jan 1995, Section 13.2.4 Aggregate Handling and Storage Piles, p 13.2.4-3 Aerodynamic particle size multiplier for < 10 µm

c) Mean wind speed - maximum of daily average wind speeds reported in 1981 meteorological data.

d) USEPA, Fugitive Dust Background Document and Technical Information Document for Best Available Control Measures, equation 2-13, p 2-28

e) USEPA, Fugitive Dust Background Document and Technical Information Document for Best Available Control Measures, p 2-28. Debris weight to area ratio = 0.046 ton/sq ft (310,000 sq ft x 0.046 ton/sq ft)/40 days = 357 ton/day

f) USEPA, Fugitive Dust Background Document and Technical Information Document for Best Available Control Measures, equation 2-13, p 2-28. EPA suggests using the material handling equation for demolition emission estimates.

g) EPA suggests using the material handling equation for demolition emission estimates.

h) Includes watering at least three times a day per Rule 403 (61% control efficiency)

Aluminum Cover Phase 1 Regional Construction Emissions

| | | | | |
|--------------------------------|--|----------------------------------|----------------------------------|----------------------|
| Fugitive Dust Emissions | | Site Preparation Activity | | |
| | | Excavation | 310,000 Square Feet ^f | |
| Schedule - | | | | 80 days ^a |

| | | | | | |
|---|---------------------------------------|--------------------------------|---------------------|---------------------------------|--|
| Fugitive Dust Parameters | | | | | |
| Vehicle Speed (mph)^f | Vehicle Miles Traveled | | | | |
| 3 | 69.70 | | | | |
| Fugitive Dust Stockpiling Parameters | | | | | |
| Silt Content^f | Precipitation Days^d | Mean Wind Speed Percent | TSP Fraction | Area^e (acres) | |
| 6.9 | 10 | 5.00 | 0.5 | 5 | |

| | | | | | |
|---|------------------------------------|-------------------------------------|---------------------|---------------------|--|
| Fugitive Dust Material Handling | | | | | |
| Aerodynamic Particle Size Multiplier^f | Mean Wind Speed^b | Moisture Content^c | Dirt Handled | Dirt Handled | |
| | mph | | cy | lb/day | |
| 0.35 | 5.0 | 7.9 | 5,000 | 156,250 | |

| | | | |
|----------------------------|-------------------------|---------------------------------------|--|
| Dragline Parameters | | | |
| Drop Height (feet) | Moisture Content | PM₁₀ Scaling Factor | PM_{2.5} Scaling Factor |
| 3 | 7.9% | 0.75 | 0.017 |
| | | Max Daily Grading (acres) | |
| | | 1.00 | |
| Site Prep - Grading | | | |
| | | 23.3 | 4.8 |

Incremental Increase in Fugitive Dust Emissions from Construction Operations

Equations:

Storage Piles: PM10 Emissions (lb/day) = 1.7 x (silt content/1.5) x ((365-precipitation days)/235) x wind speed percent/15 x TSP fraction x Area) x (1 - control efficiency)

Material Handling: PM10 Emissions (lb/day) = (0.0032 x aerodynamic particle size multiplier x (wind speed (mph)/5)^{1.3}/(moisture content/2)^{1.4} x dirt handled (lb/day)/2,000 (lb/ton) (1 - control efficiency)

Dragline Equation for PM₁₀ Emissions^g (lbs/day) = (((0.0021) x (drop height)^{1.7}) / (moisture content)^{1.7}) / 0.75 x Dirt Handled x Control Efficiency

Dragline Equation for PM_{2.5} Emissions^g (lbs/day) = (((0.0021) x (drop height)^{1.7}) / (moisture content)^{1.7}) x 0.017 x Dirt Handled x Control Efficiency

Grading Equation for PM10 is based on URBEMIS2007's rate for grading dust of 38.2 pounds per acre, and applied 61% reduction based on Rule 403 compliance.

| | | | |
|--------------------|---------------------------|-------------------------|--------------------------|
| Phase I | Control Efficiency | PM10^g | PM2.5^h |
| Description | % | lb/day | lb/day |
| Earthmoving | 61 | 7.490 | 1.558 |
| Storage Piles | 61 | 3.84 | 0.799 |
| Material Handling | 61 | 0 | 0.000 |
| Dragline | 61 | 0.177 | 0.004 |
| Grading | 61 | 23.302 | 4.847 |
| Total | | 34.81 | 7.21 |

Notes

a) Assumed 79 haul truck trips a day at 10 cubic yards a load, worst single-day scenario, 4000 foot long area 12 foot wide.

b) Caterpillar Performance Handbook, Edition 33, October 2003 Operating Speeds, p 2-3.

c) USEPA, AP-42, July 1998, Table 11.9-3 Typical Values for Correction Factors Applicable to the Predictive Emission Factor Equations

d) Table A9-9-E2, SCAQMD CEQA Air Quality Handbook, 1993

e) Mean wind speed percent - percent of time mean wind speed exceeds 12 mph.

f) Assumed storage piles are 0.21 acres in size

g) USEPA, AP-42, Jan 1995, Section 13.2.4 Aggregate Handling and Storage Piles, p 13.2.4-3 Aerodynamic particle size multiplier for < 10 µm

h) Mean wind speed at the Downtown Los Angeles Wind Monitoring Station.

i) USEPA, Fugitive Dust Background Document and Technical Information Document for Best Available Control Measures, equation 2-13, p 2-28.

j) Assuming 5000 cubic yards of dirt handled

k) USEPA, AP-42, July 1998, Table 11.9-1, Equation for Site Grading: 10 µm

l) USEPA, AP-42, Jan 1995, Section 13.2.4 Aggregate Handling and Storage Piles, Equation 1

m) USEPA, Fugitive Dust Background Document and Technical Information Document for Best Available Control Measures, Sept 1992, EPA-450/2-92-004, Equation 2-12.

n) Includes watering at least three times a day per Rule 403 (61% control efficiency).

o) Source: USEPA, AP-42, Emission Factor Equations for Uncontrolled Dust Sources at Western Surface Coal Mines, Table 11.9-1, Dragline calculations for PM₁₀ and PM_{2.5}.

UNMITIGATED CONSTRUCTION EMISSIONS CALCULATIONS

| Inlet Line - Fugitive Dust Emissions - Inputs for ISC-AERMOD | | |
|--|------------------|---------------------|
| | Weight Conv. [a] | Time Adjustment [b] |
| | 453.59 | 28,800 |
| Project Phase | lb/day [c] | g/s |
| PM10 | 24.7 | 0.38885893 |
| PM2.5 | 5.1 | 0.08048 |

[a] Weight conversion is the amount of grams per pound.
 [b] Time adjustment is the number of seconds in 8 hours (1 day of grading).
 [c] Pounds per day emissions rate from construction emissions developed using Offroad 2007 and EMFAC 2007 emissions factors.

| Alternative 1 - Off-Road Equipment Emissions | | | | |
|--|--------|---------|--------|--------|
| Daily Emissions (ppd) | CO | NO2 [1] | PM2.5 | PM10 |
| | 38 | 7 | 2.9 | 3.2 |
| Conversion to Grams/Second | NO2 | PM2.5 | PM10 | |
| | 0.6038 | 0.1159 | 0.0464 | 0.0504 |

| Alternative 1 - Mitigated Off-Road Equipment Emissions | | | | |
|--|--------|---------|--------|--------|
| Daily Emissions (ppd) | CO | NO2 [1] | PM2.5 | PM10 |
| | 36 | 7 | 2.8 | 3.0 |
| Conversion to Grams/Second | NO2 | PM2.5 | PM10 | |
| | 0.5736 | 0.1101 | 0.0441 | 0.0479 |

[1] Used 10% of NOX as NO2 value for input into AERMOD

| Off-Road Row | Qty | Operating Hrs/Wd/each | Total Operating Hours Per Day | Month | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
|----------------------------------|--------------------------|-----------------------|-------------------------------|-------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 1/2 Ton Pickup (Commute Vehicle) | Off-site worker use | 5 | 4 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |
| | Emfac; Assumes 5 VMT | | | | | | | | | | | | | | | | | | | | | | |
| 3/4 Ton Pickup | Per Day/Vehicle | 2 | 8 | 16 | | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 |
| | Emfac; Assumes 5 VMT | | | | | | | | | | | | | | | | | | | | | | |
| 1 Ton Pickup | Per Day/Vehicle | 2 | 8 | 16 | | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 |
| 4000 Gallon Water Truck | | 108 | 1 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| Yard Crane, ATV | | 51 | 2 | 8 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 |
| Loader/ForksCat 966, | | 230 | 1 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| Job Trailers (3) | No Emissions | | 3 | 2 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| Grader, Cat 16G | | 97 | 1 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| Dozer, D10 | | 57 | 2 | 8 | 16 | | | | | | | | | | | | | | | | | | |
| Excavator, Cat 365 | | 75 | 1 | 4 | 4 | | | | | | | | | | | | | | | | | | |
| Roller/Compactor (Vibratory) | | 174 | 1 | 4 | 4 | | | | | | | | | | | | | | | | | | |
| Hydraulic Breaker | No Emissions | | 2 | 2 | 4 | | | | | | | | | | | | | | | | | | |
| Truck Tractor | mission rates from Emfac | | 1 | 8 | 8 | | | | | | | | | | | | | | | | | | |
| Asphalt Paver | | 143 | 1 | 8 | 8 | | | | | | | | | | | | | | | | | | |
| Tandem Roller | | 174 | 1 | 8 | 8 | | | | | | | | | | | | | | | | | | |
| Pulley Grader System | | 100 | 1 | 8 | 8 | | | | | | | | | | | | | | | | | | |
| Hydraulic Crane, 55 Ton | | 51 | 2 | 8 | 16 | | | | | | | | | | | | | | | | | | |
| Drill Rig with Auger | | 35 | 1 | 8 | 8 | | | | | | | | | | | | | | | | | | |
| Front End Loader | | 230 | 1 | 8 | 8 | | | | | | | | | | | | | | | | | | |
| Hydraulic Excavator | | 77 | 1 | 8 | 8 | | | | | | | | | | | | | | | | | | |
| Gas Engine Vibrator | | 119 | 1 | 8 | 8 | | | | | | | | | | | | | | | | | | |
| Cherry Picker (boom lifts) | No Emissions (ELCT) | | 2 | 8 | 16 | | | | | | | | | | | | | | | | | | |
| Water Truck | | 108 | 1 | 8 | 8 | | | | | | | | | | | | | | | | | | |
| Concrete pump | | 166 | 1 | 8 | 8 | | | | | | | | | | | | | | | | | | |
| Misc. | | 119 | 10 | 2 | 20 | | | | | | | | | | | | | | | | | | |

| | Month 1 | | | | | | | | | | | | | | | |
|----------------------------------|---------------|-------------------|--------------|------------------|---------------|-------------------|---------------|-------------------|----------------|-----------------|--------------|------------------|----------------|-------------------|---------------|-------------------|
| | VOC (lbs/day) | VOC Rate (lbs/hr) | CO (lbs/day) | CO rate (lbs/hr) | NOX (lbs/day) | NOX rate (lbs/hr) | SOX (lbs/day) | SOX rate (lbs/hr) | PM10 (lbs/day) | PM2.5 (lbs/day) | PM (lbs/day) | PM rate (lbs/hr) | CO2 (lbs/day) | CO2 Rate (lbs/hr) | CH4 (lbs/day) | CH4 rate (lbs/hr) |
| 1/2 Ton Pickup (Commute Vehicle) | | | | | | | | | | | | | | | | |
| 3/4 Ton Pickup | | | | | | | | | | | | | | | | |
| 1 Ton Pickup | | | | | | | | | | | | | | | | |
| 4000 Gallon Water Truck | 0.53 | 0.1326 | 1.50 | 0.3761 | 4.42 | 1.1048 | 0.01 | 0.0019 | 0.1474 | 0.1356 | 0.15 | 0.0368 | 666.18 | 167 | 0.05 | 0.0120 |
| Yard Crane, ATV | 2.04 | 0.1276 | 7.28 | 0.4553 | 17.71 | 1.1066 | 0.02 | 0.0014 | 0.7458 | 0.6862 | 0.75 | 0.0466 | 2058.16 | 129 | 0.18 | 0.0115 |
| Loader/ForksCat 966, | 0.91 | 0.1142 | 2.89 | 0.3608 | 8.24 | 1.0294 | 0.02 | 0.0019 | 0.2640 | 0.2429 | 0.26 | 0.0330 | 1373.90 | 172 | 0.08 | 0.0103 |
| Job Trailers (3) | | | | | | | | | | | | | | | | |
| Grader, Cat 16G | 0.56 | 0.1407 | 1.67 | 0.4177 | 5.14 | 1.2844 | 0.01 | 0.0019 | 0.1780 | 0.1637 | 0.18 | 0.0445 | 688.45 | 172 | 0.05 | 0.0127 |
| Dozer, D10 | | | | | | | | | | | | | | | | |
| Excavator, Cat 365 | | | | | | | | | | | | | | | | |
| Roller/Compactor (Vibratory) | | | | | | | | | | | | | | | | |
| Hydraulic Breaker | | | | | | | | | | | | | | | | |
| Truck Tractor | | | | | | | | | | | | | | | | |
| Asphalt Paver | | | | | | | | | | | | | | | | |
| Tandem Roller | | | | | | | | | | | | | | | | |
| Pulley Grader System | | | | | | | | | | | | | | | | |
| Hydraulic Crane, 55 Ton | | | | | | | | | | | | | | | | |
| Drill Rig with Auger | | | | | | | | | | | | | | | | |
| Front End Loader | | | | | | | | | | | | | | | | |
| Hydraulic Excavator | | | | | | | | | | | | | | | | |
| Gas Engine Vibrator | | | | | | | | | | | | | | | | |
| Cherry Picker (boom lifts) | | | | | | | | | | | | | | | | |
| Water Truck | | | | | | | | | | | | | | | | |
| Concrete pump | | | | | | | | | | | | | | | | |
| Misc. | 1.64 | 0.0820 | 7.39 | 0.3697 | 14.34 | 0.7168 | 0.03 | 0.0013 | 0.5915 | 0.5442 | 0.59 | 0.0296 | 2452.63 | 123 | 0.15 | 0.0074 |
| | 5.69 | | 20.74 | | 49.83 | | 0.08 | | 1.93 | 1.77 | 1.93 | | 7239.33 | | 0.51 | |

2014

| | Months 2-13 | | | | | | | | | | | | | | | |
|----------------------------------|---------------|-------------------|--------------|------------------|---------------|-------------------|---------------|-------------------|----------------|-----------------|--------------|------------------|---------------|-------------------|---------------|-------------------|
| | VOC (lbs/day) | VOC Rate (lbs/hr) | CO (lbs/day) | CO rate (lbs/hr) | NOX (lbs/day) | NOX rate (lbs/hr) | SOX (lbs/day) | SOX rate (lbs/hr) | PM10 (lbs/day) | PM2.5 (lbs/day) | PM (lbs/day) | PM rate (lbs/hr) | CO2 (lbs/day) | CO2 Rate (lbs/hr) | CH4 (lbs/day) | CH4 rate (lbs/hr) |
| 1/2 Ton Pickup (Commute Vehicle) | | | | | | | | | | | | | | | | |
| 3/4 Ton Pickup | 0.0029 | | 0.0229 | | 0.0076 | | 0.0002 | | 0.0017 | 0.0013 | | | 15.7736 | | 0.0009 | |
| 1 Ton Pickup | 0.0046 | | 0.0920 | | 0.0102 | | 0.0002 | | 0.0017 | 0.0013 | | | 21.5340 | | 0.0012 | |
| 4000 Gallon Water Truck | 0.53 | 0.1326 | 1.50 | 0.3761 | 4.42 | 1.1048 | 0.01 | 0.0019 | 0.1474 | 0.1356 | 0.15 | 0.0368 | 666.18 | 167 | 0.05 | 0.0120 |
| Yard Crane, ATV | 2.04 | 0.1276 | 7.28 | 0.4553 | 17.71 | 1.1066 | 0.02 | 0.0014 | 0.7458 | 0.6862 | 0.75 | 0.0466 | 2058.16 | 129 | 0.18 | 0.0115 |
| Loader/ForksCat 966, | 0.91 | 0.1142 | 2.89 | 0.3608 | 8.24 | 1.0294 | 0.02 | 0.0019 | 0.2640 | 0.2429 | 0.26 | 0.0330 | 1373.90 | 172 | 0.08 | 0.0103 |
| Job Trailers (3) | | | | | | | | | | | | | | | | |
| Grader, Cat 16G | 0.56 | 0.1407 | 1.67 | 0.4177 | 5.14 | 1.2844 | 0.01 | 0.0019 | 0.1780 | 0.1637 | 0.18 | 0.0445 | 688.45 | 172 | 0.05 | 0.0127 |
| Dozer, D10 | | | | | | | | | | | | | | | | |
| Excavator, Cat 365 | | | | | | | | | | | | | | | | |
| Roller/Compactor (Vibratory) | | | | | | | | | | | | | | | | |
| Hydraulic Breaker | | | | | | | | | | | | | | | | |
| Truck Tractor | | | | | | | | | | | | | | | | |
| Asphalt Paver | | | | | | | | | | | | | | | | |

2014

| | | | | | | | | | | | | | | | | | | | |
|----------------------------|-------------|--------|--------------|--------|--------------|--------|-------------|--------|-------------|-------------|-------------|--------|----------------|-----|-------------|--------|--|--|--|
| Tandem Roller | | | | | | | | | | | | | | | | | | | |
| Pulley Grader System | | | | | | | | | | | | | | | | | | | |
| Hydraulic Crane, 55 Ton | | | | | | | | | | | | | | | | | | | |
| Drill Rig with Auger | | | | | | | | | | | | | | | | | | | |
| Front End Loader | | | | | | | | | | | | | | | | | | | |
| Hydraulic Excavator | | | | | | | | | | | | | | | | | | | |
| Gas Engine Vibrator | | | | | | | | | | | | | | | | | | | |
| Cherry Picker (boom lifts) | | | | | | | | | | | | | | | | | | | |
| Water Truck | | | | | | | | | | | | | | | | | | | |
| Concrete pump | | | | | | | | | | | | | | | | | | | |
| Misc. | 1.64 | 0.0820 | 7.39 | 0.3697 | 14.34 | 0.7168 | 0.03 | 0.0013 | 0.5915 | 0.5442 | 0.59 | 0.0296 | 2452.63 | 123 | 0.15 | 0.0074 | | | |
| | 5.69 | | 20.91 | | 49.85 | | 0.08 | | 1.93 | 1.78 | 1.93 | | 7276.63 | | 0.52 | | | | |

| Months 14-15 | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---------------|-------------------|--------------|------------------|---------------|-------------------|---------------|-------------------|----------------|-----------------|--------------|------------------|----------------|-------------------|---------------|-------------------|--|--|--|
| | VOC (lbs/day) | VOC Rate (lbs/hr) | CO (lbs/day) | CO rate (lbs/hr) | NOX (lbs/day) | NOX rate (lbs/hr) | SOX (lbs/day) | SOX rate (lbs/hr) | PM10 (lbs/day) | PM2.5 (lbs/day) | PM (lbs/day) | PM rate (lbs/hr) | CO2 (lbs/day) | CO2 Rate (lbs/hr) | CH4 (lbs/day) | CH4 rate (lbs/hr) | | | |
| 1/2 Ton Pickup (Commute Vehicle) | | | | | | | | | | | | | | | | | | | |
| 3/4 Ton Pickup | 0.00 | | 0.07 | | 0.01 | | 0.00 | | 0.0018 | 0.0013 | | | 15.78 | | 0.00 | | | | |
| 1 Ton Pickup | 0.00 | | 0.09 | | 0.01 | | 0.00 | | 0.0018 | 0.0014 | | | 21.53 | | 0.00 | | | | |
| 4000 Gallon Water Truck | 0.50 | 0.1252 | 1.48 | 0.3702 | 3.93 | 0.9818 | 0.01 | 0.0019 | 0.1311 | 0.1206 | 0.13 | 0.0328 | 666.18 | 167 | 0.05 | 0.0113 | | | |
| Yard Crane, ATV | 1.93 | 0.1204 | 7.03 | 0.4395 | 16.32 | 1.0200 | 0.02 | 0.0014 | 0.6811 | 0.6266 | 0.68 | 0.0426 | 2058.09 | 129 | 0.17 | 0.0109 | | | |
| Loader/ForkCat 966, | 0.87 | 0.1082 | 2.85 | 0.3566 | 7.24 | 0.9047 | 0.02 | 0.0019 | 0.2349 | 0.2161 | 0.23 | 0.0294 | 1373.90 | 172 | 0.08 | 0.0098 | | | |
| Job Trailers (3) | | | | | | | | | | | | | | | | | | | |
| Grader, Cat 16G | 0.53 | 0.1326 | 1.62 | 0.4046 | 4.64 | 1.1596 | 0.01 | 0.0019 | 0.1599 | 0.1471 | 0.16 | 0.0400 | 688.45 | 172 | 0.05 | 0.0120 | | | |
| Dozer, D10 | | | | | | | | | | | | | | | | | | | |
| Excavator, Cat 365 | | | | | | | | | | | | | | | | | | | |
| Roller/Compactor (Vibratory) | | | | | | | | | | | | | | | | | | | |
| Hydraulic Breaker | | | | | | | | | | | | | | | | | | | |
| Truck Tractor | | | | | | | | | | | | | | | | | | | |
| Asphalt Paver | | | | | | | | | | | | | | | | | | | |
| Tandem Roller | | | | | | | | | | | | | | | | | | | |
| Pulley Grader System | | | | | | | | | | | | | | | | | | | |
| Hydraulic Crane, 55 Ton | | | | | | | | | | | | | | | | | | | |
| Drill Rig with Auger | | | | | | | | | | | | | | | | | | | |
| Front End Loader | | | | | | | | | | | | | | | | | | | |
| Hydraulic Excavator | | | | | | | | | | | | | | | | | | | |
| Gas Engine Vibrator | | | | | | | | | | | | | | | | | | | |
| Cherry Picker (boom lifts) | | | | | | | | | | | | | | | | | | | |
| Water Truck | | | | | | | | | | | | | | | | | | | |
| Concrete pump | | | | | | | | | | | | | | | | | | | |
| Misc. | 1.54 | 0.0768 | 7.29 | 0.3645 | 12.78 | 0.6392 | 0.03 | 0.0013 | 0.5274 | 0.4852 | 0.53 | 0.0264 | 2451.96 | 123 | 0.14 | 0.0069 | | | |
| | 5.37 | | 20.43 | | 44.92 | | 0.08 | | 1.74 | 1.60 | 1.73 | | 7275.89 | | 0.49 | | | | |

2015

| Months 16-19 | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---------------|-------------------|--------------|------------------|---------------|-------------------|---------------|-------------------|----------------|-----------------|--------------|------------------|-----------------|-------------------|---------------|-------------------|--|--|--|
| | VOC (lbs/day) | VOC Rate (lbs/hr) | CO (lbs/day) | CO rate (lbs/hr) | NOX (lbs/day) | NOX rate (lbs/hr) | SOX (lbs/day) | SOX rate (lbs/hr) | PM10 (lbs/day) | PM2.5 (lbs/day) | PM (lbs/day) | PM rate (lbs/hr) | CO2 (lbs/day) | CO2 Rate (lbs/hr) | CH4 (lbs/day) | CH4 rate (lbs/hr) | | | |
| 1/2 Ton Pickup (Commute Vehicle) | | | | | | | | | | | | | | | | | | | |
| 3/4 Ton Pickup | 0.00 | | 0.07 | | 0.01 | | 0.00 | | 0.0018 | 0.0013 | | | 15.78 | | 0.00 | | | | |
| 1 Ton Pickup | 0.00 | | 0.09 | | 0.01 | | 0.00 | | 0.0018 | 0.0014 | | | 21.53 | | 0.00 | | | | |
| 4000 Gallon Water Truck | 0.50 | 0.1252 | 1.48 | 0.3702 | 3.93 | 0.9818 | 0.01 | 0.0019 | 0.1311 | 0.1206 | 0.13 | 0.0328 | 666.18 | 167 | 0.05 | 0.0113 | | | |
| Yard Crane, ATV | 1.93 | 0.1204 | 7.03 | 0.4395 | 16.32 | 1.0200 | 0.02 | 0.0014 | 0.6811 | 0.6266 | 0.68 | 0.0426 | 2058.09 | 129 | 0.17 | 0.0109 | | | |
| Loader/ForkCat 966, | 0.87 | 0.1082 | 2.85 | 0.3566 | 7.24 | 0.9047 | 0.02 | 0.0019 | 0.2349 | 0.2161 | 0.23 | 0.0294 | 1373.90 | 172 | 0.08 | 0.0098 | | | |
| Job Trailers (3) | | | | | | | | | | | | | | | | | | | |
| Grader, Cat 16G | 0.53 | 0.1326 | 1.62 | 0.4046 | 4.64 | 1.1596 | 0.01 | 0.0019 | 0.1599 | 0.1471 | 0.16 | 0.0400 | 688.45 | 172 | 0.05 | 0.0120 | | | |
| Dozer, D10 | 6.62 | 0.4140 | 23.90 | 1.4936 | 55.78 | 3.4863 | 0.07 | 0.0047 | 2.1226 | 1.9528 | 2.12 | 0.1327 | 7434.99 | 465 | 0.60 | 0.0374 | | | |
| Excavator, Cat 365 | 0.63 | 0.1577 | 1.99 | 0.4964 | 4.65 | 1.1619 | 0.01 | 0.0023 | 0.1653 | 0.1521 | 0.17 | 0.0413 | 934.94 | 234 | 0.06 | 0.0142 | | | |
| Roller/Compactor (Vibratory) | 0.34 | 0.0851 | 1.59 | 0.3979 | 2.28 | 0.5706 | 0.00 | 0.0008 | 0.1543 | 0.1420 | 0.15 | 0.0386 | 268.20 | 67.1 | 0.03 | 0.0077 | | | |
| Hydraulic Breaker | | | | | | | | | | | | | | | | | | | |
| Truck Tractor | | | | | | | | | | | | | | | | | | | |
| Asphalt Paver | | | | | | | | | | | | | | | | | | | |
| Tandem Roller | | | | | | | | | | | | | | | | | | | |
| Pulley Grader System | | | | | | | | | | | | | | | | | | | |
| Hydraulic Crane, 55 Ton | | | | | | | | | | | | | | | | | | | |
| Drill Rig with Auger | | | | | | | | | | | | | | | | | | | |
| Front End Loader | | | | | | | | | | | | | | | | | | | |
| Hydraulic Excavator | | | | | | | | | | | | | | | | | | | |
| Gas Engine Vibrator | | | | | | | | | | | | | | | | | | | |
| Cherry Picker (boom lifts) | | | | | | | | | | | | | | | | | | | |
| Water Truck | | | | | | | | | | | | | | | | | | | |
| Concrete pump | | | | | | | | | | | | | | | | | | | |
| Misc. | 1.54 | 0.0768 | 7.29 | 0.3645 | 12.78 | 0.6392 | 0.03 | 0.0013 | 0.5274 | 0.4852 | 0.53 | 0.0264 | 2451.96 | 123 | 0.14 | 0.0069 | | | |
| | 12.96 | | 47.91 | | 107.63 | | 0.17 | | 4.18 | 3.85 | 4.18 | | 15914.02 | | 1.17 | | | | |

2015

| DUST EMISSIONS | | |
|----------------|-------------------------------|--------------------------------|
| | Unmitigated PM10 ⁰ | Unmitigated PM2.5 ⁰ |
| | 0.00 | 0.00 |

Total 35.130 7.2766

| WORKER VEHICLES | | | | WORKER VEHICLE EMISSIONS (ppd) | | | | | | | |
|-----------------|-----------------|-------------------|----------------------|--------------------------------|------|------|------|------|------|-------|--------|
| Worker Vehicles | # of Workers[1] | Round Trip Length | # of Worker Vehicles | Total VMT/Day | CO | VOC | NOX | SOX | PM10 | PM2.5 | CO2 |
| | 72 | 13.3 | 72 | 957.60 | 5.47 | 0.18 | 0.45 | 0.01 | 0.07 | 0.07 | 906.13 |

| TRUCK TRIPS | | | HEAVY-DUTY TRUCK EMISSIONS (ppd) | | | | | | | |
|------------------------|---------------|-------------------|----------------------------------|-------|------|-------|------|------|-------|----------|
| Dump Trucks (Off-site) | Trips per Day | Round Trip Length | VMT/day | CO | VOC | NOX | SOX | PM10 | PM2.5 | CO2 |
| | 46 | 32 | 1,472 | 11.92 | 2.60 | 31.13 | 0.06 | 1.36 | 1.25 | 6,244.47 |

| TOTAL EMISSIONS | | EMISSIONS (ppd) | | | | | | | |
|-----------------|--------------|-----------------|---------------|-------------|--------------|--------------|------------------|--|--|
| | CO | VOC | NOX | SOX | PM10 | PM2.5 | CO2 | | |
| On-Site | 47.91 | 12.96 | 107.63 | 0.17 | 39.31 | 11.12 | 15,938.61 | | |
| Off-Site | 17.39 | 2.77 | 31.58 | 0.07 | 1.43 | 1.32 | 7,149.60 | | |
| TOTAL | 65.30 | 15.74 | 139.22 | 0.23 | 40.74 | 12.44 | 23,088.21 | | |

Metric Tonnes Metric Tonnes Per Year
10 2722.885

[1] Trip length from URBEMIS2007.

| TOTAL MITIGATED EXHAUST EMISSIONS | | EMISSIONS (ppd) | | | | | | | |
|-----------------------------------|--------------|-----------------|---------------|-------------|-------------|-------------|------------------|--|--|
| | CO | VOC | NOX | SOX | PM10 | PM2.5 | CO2 | | |
| On-Site | 45.51 | 12.31 | 102.25 | 0.16 | 39.10 | 10.93 | 23,088.21 | | |
| Off-Site | 16.52 | 2.64 | 30.00 | 0.06 | 1.36 | 1.25 | 7,149.60 | | |
| TOTAL | 62.03 | 14.95 | 132.26 | 0.22 | 5.33 | 4.90 | 23,088.21 | | |

Metric Tonnes Per Day

| TOTAL MITIGATED EMISSIONS | | EMISSIONS (ppd) | | | | | | | |
|---------------------------|--------------|-----------------|---------------|-------------|--------------|--------------|------------------|--|--|
| | CO | VOC | NOX | SOX | PM10 | PM2.5 | CO2 | | |
| On-Site | 45.51 | 12.31 | 102.25 | 0.16 | 39.10 | 10.93 | 23,088.21 | | |
| Off-Site | 16.52 | 2.64 | 30.00 | 0.06 | 1.36 | 1.25 | 7,149.60 | | |
| TOTAL | 62.03 | 14.95 | 132.26 | 0.22 | 40.46 | 12.18 | 23,088.21 | | |

Metric Tonnes Metric Tonnes Per Year
10 2722.885

Aluminum Cover Phase 2 Regional Construction Emissions

| Off-Road Row | Qty | Operating Hrs/WD/each | Total Operating Hours Per Day | Month | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 |
|----------------------------------|-------------------------|-----------------------|-------------------------------|-------|----|----|----|----|----|----|----|----|----|
| 1/2 Ton Pickup (Commute Vehicle) | Off-site worker use | 5 | 4 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |
| | Emfac; Assumes 5 VMT | | | | | | | | | | | | |
| 3/4 Ton Pickup | Per Day/Vehicle | 2 | 8 | 16 | 16 | 16 | 16 | 16 | 16 | | | | |
| | Emfac; Assumes 5 VMT | | | | | | | | | | | | |
| 1 Ton Pickup | Per Day/Vehicle | 2 | 8 | 16 | 16 | 16 | 16 | 16 | 16 | | | | |
| 4000 Gallon Water Truck | 108 | 1 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| Yard Crane, ATV | 51 | 2 | 8 | 16 | 16 | 16 | 16 | 16 | 16 | | | | |
| Loader/ForksCat 966, | 230 | 1 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | | | | |
| Job Trailers (3) | No Emissions | 3 | 2 | 6 | 6 | 6 | 6 | 6 | 6 | | | | |
| Grader, Cat 16G | 97 | 1 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| Dozer, D10 | 57 | 2 | 8 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 |
| Excavator, Cat 365 | 75 | 1 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | | | | |
| Roller/Compactor (Vibratory) | 174 | 1 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| Hydraulic Breaker | No Emissions | 2 | 2 | 4 | 4 | 4 | 4 | 4 | 4 | | | | |
| Truck Tractor | ission rates from Emfac | 1 | 8 | 8 | | | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| Asphalt Paver | 143 | 1 | 8 | 8 | | | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| Tandem Roller | 174 | 1 | 8 | 8 | | | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| Pulley Grader System | 100 | 1 | 8 | 8 | | | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| Hydraulic Crane, 55 Ton | 51 | 2 | 8 | 16 | | | | | | | | | |
| Drill Rig with Auger | 35 | 1 | 8 | 8 | | | | | | | | | |
| Front End Loader | 230 | 1 | 8 | 8 | | | | | | | | | |
| Hydraulic Excavator | 77 | 1 | 8 | 8 | | | | | | | | | |
| Gas Engine Vibrator | 119 | 1 | 8 | 8 | | | | | | | | | |
| Cherry Picker (boom lifts) | No Emissions (ELCT) | 2 | 8 | 16 | | | | | | | | | |
| Water Truck | 108 | 1 | 8 | 8 | | | | | | | | | |
| Concrete pump | 166 | 1 | 8 | 8 | | | | | | | | | |
| Misc. | 119 | 10 | 2 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |

| | Months 20-21 | | | | | | | | | | | | | | | |
|----------------------------------|---------------|-------------------|--------------|------------------|---------------|-------------------|---------------|-------------------|----------------|-----------------|--------------|------------------|-----------------|-------------------|---------------|-------------------|
| | VOC (lbs/day) | VOC Rate (lbs/hr) | CO (lbs/day) | CO rate (lbs/hr) | NOX (lbs/day) | NOX rate (lbs/hr) | SOX (lbs/day) | SOX rate (lbs/hr) | PM10 (lbs/day) | PM2.5 (lbs/day) | PM (lbs/day) | PM rate (lbs/hr) | CO2 (lbs/day) | CO2 Rate (lbs/hr) | CH4 (lbs/day) | CH4 rate (lbs/hr) |
| 1/2 Ton Pickup (Commute Vehicle) | | | | | | | | | | | | | | | | |
| 3/4 Ton Pickup | | | | | | | | | | | | | | | | |
| 1 Ton Pickup | | | | | | | | | | | | | | | | |
| 4000 Gallon Water Truck | 0.50 | 0.1252 | 1.48 | 0.3702 | 3.93 | 0.9818 | 0.01 | 0.0019 | 0.1311 | 0.1206 | 0.13 | 0.0328 | 666.18 | 167 | 0.05 | 0.0113 |
| Yard Crane, ATV | 1.93 | 0.1204 | 7.03 | 0.4395 | 16.32 | 1.0200 | 0.02 | 0.0014 | 0.6811 | 0.6266 | 0.68 | 0.0426 | 2058.09 | 129 | 0.17 | 0.0109 |
| Loader/ForksCat 966, | 0.87 | 0.1082 | 2.85 | 0.3566 | 7.24 | 0.9047 | 0.02 | 0.0019 | 0.2349 | 0.2161 | 0.23 | 0.0294 | 1373.90 | 172 | 0.08 | 0.0098 |
| Job Trailers (3) | | | | | | | | | | | | | | | | |
| Grader, Cat 16G | 0.53 | 0.1326 | 1.62 | 0.4046 | 4.64 | 1.1596 | 0.01 | 0.0019 | 0.1599 | 0.1471 | 0.16 | 0.0400 | 688.45 | 172 | 0.05 | 0.0120 |
| Dozer, D10 | 6.62 | 0.4140 | 23.90 | 1.4936 | 55.78 | 3.4863 | 0.07 | 0.0047 | 2.1226 | 1.9528 | 2.12 | 0.1327 | 7434.99 | 465 | 0.60 | 0.0374 |
| Excavator, Cat 365 | 0.63 | 0.1577 | 1.99 | 0.4964 | 4.65 | 1.1619 | 0.01 | 0.0023 | 0.1653 | 0.1521 | 0.17 | 0.0413 | 934.94 | 234 | 0.06 | 0.0142 |
| Roller/Compactor (Vibratory) | 0.34 | 0.0851 | 1.59 | 0.3979 | 2.28 | 0.5706 | 0.00 | 0.0008 | 0.1543 | 0.1420 | 0.15 | 0.0386 | 268.20 | 67.1 | 0.03 | 0.0077 |
| Hydraulic Breaker | | | | | | | | | | | | | | | | |
| Truck Tractor | | | | | | | | | | | | | | | | |
| Asphalt Paver | | | | | | | | | | | | | | | | |
| Tandem Roller | | | | | | | | | | | | | | | | |
| Pulley Grader System | | | | | | | | | | | | | | | | |
| Hydraulic Crane, 55 Ton | | | | | | | | | | | | | | | | |
| Drill Rig with Auger | | | | | | | | | | | | | | | | |
| Front End Loader | | | | | | | | | | | | | | | | |
| Hydraulic Excavator | | | | | | | | | | | | | | | | |
| Gas Engine Vibrator | | | | | | | | | | | | | | | | |
| Cherry Picker (boom lifts) | | | | | | | | | | | | | | | | |
| Water Truck | | | | | | | | | | | | | | | | |
| Concrete pump | | | | | | | | | | | | | | | | |
| Misc. | 1.54 | 0.0768 | 7.29 | 0.3645 | 12.78 | 0.6392 | 0.03 | 0.0013 | 0.5274 | 0.4852 | 0.53 | 0.0264 | 2451.96 | 123 | 0.14 | 0.0069 |
| | 12.95 | | 47.75 | | 107.62 | | 0.17 | | 4.18 | 3.84 | 4.18 | | 15876.71 | | 1.17 | |

| Months 22-24 | | | | | | | | | | | | | | | | |
|----------------------------------|-------------------|--------------|------------------|---------------|-------------------|---------------|-------------------|----------------|-----------------|--------------|------------------|---------------|-------------------|---------------|-------------------|--------|
| VOC (lbs/day) | VOC Rate (lbs/hr) | CO (lbs/day) | CO rate (lbs/hr) | NOX (lbs/day) | NOX rate (lbs/hr) | SOX (lbs/day) | SOX rate (lbs/hr) | PM10 (lbs/day) | PM2.5 (lbs/day) | PM (lbs/day) | PM rate (lbs/hr) | CO2 (lbs/day) | CO2 Rate (lbs/hr) | CH4 (lbs/day) | CH4 rate (lbs/hr) | |
| 1/2 Ton Pickup (Commute Vehicle) | | | | | | | | | | | | | | | | |
| 3/4 Ton Pickup | | | | | | | | | | | | | | | | |
| 1 Ton Pickup | | | | | | | | | | | | | | | | |
| 4000 Gallon Water Truck | 0.50 | 0.1252 | 1.48 | 0.3702 | 3.93 | 0.9818 | 0.01 | 0.0019 | 0.1311 | 0.1206 | 0.13 | 0.0328 | 666.18 | 167 | 0.05 | 0.0113 |
| Yard Crane, ATV | 1.93 | 0.1204 | 7.03 | 0.4395 | 16.32 | 1.0200 | 0.02 | 0.0014 | 0.6811 | 0.6266 | 0.68 | 0.0426 | 2058.09 | 129 | 0.17 | 0.0109 |
| Loader/ForksCat 966, | 0.87 | 0.1082 | 2.85 | 0.3566 | 7.24 | 0.9047 | 0.02 | 0.0019 | 0.2349 | 0.2161 | 0.23 | 0.0294 | 1373.90 | 172 | 0.08 | 0.0098 |
| Job Trailers (3) | | | | | | | | | | | | | | | | |
| Grader, Cat 16G | 0.53 | 0.1326 | 1.62 | 0.4046 | 4.64 | 1.1596 | 0.01 | 0.0019 | 0.1599 | 0.1471 | 0.16 | 0.0400 | 688.45 | 172 | 0.05 | 0.0120 |
| Dozer, D10 | 6.62 | 0.4140 | 23.90 | 1.4936 | 55.78 | 3.4863 | 0.07 | 0.0047 | 2.1226 | 1.9528 | 2.12 | 0.1327 | 7434.99 | 465 | 0.60 | 0.0374 |
| Excavator, Cat 365 | 0.63 | 0.1577 | 1.99 | 0.4964 | 4.65 | 1.1619 | 0.01 | 0.0023 | 0.1653 | 0.1521 | 0.17 | 0.0413 | 934.94 | 234 | 0.06 | 0.0142 |
| Roller/Compactor (Vibratory) | 0.34 | 0.0851 | 1.59 | 0.3979 | 2.28 | 0.5706 | 0.00 | 0.0008 | 0.1543 | 0.1420 | 0.15 | 0.0386 | 268.20 | 67.1 | 0.03 | 0.0077 |
| Hydraulic Breaker | | | | | | | | | | | | | | | | |
| Truck Tractor | 0.17 | 0.0213 | 0.77 | 0.0962 | 2.02 | 0.2525 | 0.00 | 0.0001 | 0.0172 | 0.0159 | 0.02 | 0.0022 | 113.87 | 14.2335 | 0.01 | 0.0010 |
| Asphalt Paver | 1.08 | 0.1347 | 4.16 | 0.5203 | 6.09 | 0.7607 | 0.01 | 0.0009 | 0.4207 | 0.3871 | 0.42 | 0.0526 | 623.47 | 77.9 | 0.10 | 0.0122 |
| Tandem Roller | 0.68 | 0.0851 | 3.18 | 0.3979 | 4.56 | 0.5706 | 0.01 | 0.0008 | 0.3086 | 0.2839 | 0.31 | 0.0386 | 536.40 | 67.1 | 0.06 | 0.0077 |
| Pulley Grader System | 1.02 | 0.1277 | 4.74 | 0.5931 | 7.84 | 0.9795 | 0.01 | 0.0015 | 0.3910 | 0.3597 | 0.39 | 0.0489 | 1061.94 | 133 | 0.09 | 0.0115 |
| Hydraulic Crane, 55 Ton | | | | | | | | | | | | | | | | |
| Drill Rig with Auger | | | | | | | | | | | | | | | | |
| Front End Loader | | | | | | | | | | | | | | | | |
| Hydraulic Excavator | | | | | | | | | | | | | | | | |
| Gas Engine Vibrator | | | | | | | | | | | | | | | | |
| Cherry Picker (boom lifts) | | | | | | | | | | | | | | | | |
| Water Truck | | | | | | | | | | | | | | | | |
| Concrete pump | | | | | | | | | | | | | | | | |
| Misc. | 0.05 | 0.0768 | 7.29 | 0.3645 | 12.78 | 0.6392 | 0.03 | 0.0013 | 0.5274 | 0.4852 | 0.53 | 0.0264 | 2451.96 | 123 | 0.14 | 0.0069 |
| | 14.42 | | 60.61 | | 128.12 | | 0.19 | | 5.31 | 4.89 | 5.31 | | 18212.40 | | 1.43 | |

| Months 25-28 | | | | | | | | | | | | | | | | |
|----------------------------------|-------------------|--------------|------------------|---------------|-------------------|---------------|-------------------|----------------|-----------------|--------------|------------------|---------------|-------------------|---------------|-------------------|----------|
| VOC (lbs/day) | VOC Rate (lbs/hr) | CO (lbs/day) | CO rate (lbs/hr) | NOX (lbs/day) | NOX rate (lbs/hr) | SOX (lbs/day) | SOX rate (lbs/hr) | PM10 (lbs/day) | PM2.5 (lbs/day) | PM (lbs/day) | PM rate (lbs/hr) | CO2 (lbs/day) | CO2 Rate (lbs/hr) | CH4 (lbs/day) | CH4 rate (lbs/hr) | |
| 1/2 Ton Pickup (Commute Vehicle) | | | | | | | | | | | | | | | | |
| 3/4 Ton Pickup | | | | | | | | | | | | | | | | |
| 1 Ton Pickup | | | | | | | | | | | | | | | | |
| 4000 Gallon Water Truck | 0.47 | 0.1179 | 1.46 | 0.3651 | 3.47 | 0.8678 | 0.01 | 0.0019 | 0.1162 | 0.1069 | 0.12 | 0.0290 | 666.18 | 167 | 0.04 | 0.0106 |
| Yard Crane, ATV | | | | | | | | | | | | | | | | |
| Loader/ForksCat 966, | | | | | | | | | | | | | | | | |
| Job Trailers (3) | | | | | | | | | | | | | | | | |
| Grader, Cat 16G | 0.50 | 0.1250 | 1.57 | 0.3936 | 4.18 | 1.0444 | 0.01 | 0.0019 | 0.1434 | 0.1319 | 0.14 | 0.0359 | 688.45 | 172 | 0.05 | 0.0113 |
| Dozer, D10 | 6.29 | 0.3930 | 22.62 | 1.4137 | 51.27 | 3.2045 | 0.07 | 0.0047 | 1.9413 | 1.7860 | 1.94 | 0.1213 | 7434.99 | 465 | 0.57 | 0.0355 |
| Excavator, Cat 365 | 0.60 | 0.1496 | 1.94 | 0.4851 | 4.09 | 1.0236 | 0.01 | 0.0023 | 0.1465 | 0.1347 | 0.15 | 0.0366 | 934.94 | 234 | 0.05 | 0.0135 |
| Roller/Compactor (Vibratory) | 0.32 | 0.0792 | 1.58 | 0.3944 | 2.11 | 0.5273 | 0.00 | 0.0008 | 0.1413 | 0.1300 | 0.14 | 0.0353 | 268.19 | 67.0 | 0.03 | 0.0071 |
| Hydraulic Breaker | | | | | | | | | | | | | | | | |
| Truck Tractor | 0.16 | 0.020571123 | 0.76 | 0.095315881 | 2.04 | 0.255189064 | 0.00 | 0.0001367 | 0.0172 | 0.0159 | 0.02 | 0.002156 | 114.15 | 14.26865 | 0.01 | 0.000955 |
| Asphalt Paver | 1.01 | 0.1269 | 4.11 | 0.5135 | 5.70 | 0.7128 | 0.01 | 0.0009 | 0.3912 | 0.3599 | 0.39 | 0.0489 | 623.47 | 77.9 | 0.09 | 0.0114 |
| Tandem Roller | 0.63 | 0.0792 | 3.16 | 0.3944 | 4.22 | 0.5273 | 0.01 | 0.0008 | 0.2826 | 0.2600 | 0.28 | 0.0353 | 536.39 | 67.0 | 0.06 | 0.0071 |
| Pulley Grader System | 0.96 | 0.1197 | 4.71 | 0.5883 | 7.09 | 0.8866 | 0.01 | 0.0015 | 0.3529 | 0.3247 | 0.35 | 0.0441 | 1061.94 | 133 | 0.09 | 0.0108 |
| Hydraulic Crane, 55 Ton | | | | | | | | | | | | | | | | |
| Drill Rig with Auger | | | | | | | | | | | | | | | | |
| Front End Loader | | | | | | | | | | | | | | | | |
| Hydraulic Excavator | | | | | | | | | | | | | | | | |
| Gas Engine Vibrator | | | | | | | | | | | | | | | | |
| Cherry Picker (boom lifts) | | | | | | | | | | | | | | | | |
| Water Truck | | | | | | | | | | | | | | | | |
| Concrete pump | | | | | | | | | | | | | | | | |
| Misc. | 0.05 | 0.0720 | 7.20 | 0.3602 | 11.36 | 0.5680 | 0.03 | 0.0013 | 0.4674 | 0.4300 | 0.47 | 0.0234 | 2451.26 | 123 | 0.13 | 0.0065 |
| | 10.99 | | 49.11 | | 95.54 | | 0.15 | | 4.00 | 3.68 | 4.00 | | 14779.97 | | 1.11 | |

| DUST EMISSIONS | | |
|----------------|-------------------------------|--------------------------------|
| | Unmitigated PM10 ^s | Unmitigated PM2.5 ^s |
| | 0.00 | 0.00 |

Total - -

| WORKER VEHICLES | | | | WORKER VEHICLE EMISSIONS (ppd) | | | | | | | | |
|-----------------|-----------------|-------------------|----------------------|--------------------------------|------|------|------|------|------|-------|--------|--|
| | # of Workers[1] | Round Trip Length | # of Worker Vehicles | Total VMT/Day | CO | VOC | NOX | SOX | PM10 | PM2.5 | CO2 | |
| Worker Vehicles | 54 | 13.3 | 54 | 718.20 | 3.72 | 0.11 | 0.31 | 0.01 | 0.05 | 0.05 | 678.25 | |

| TRUCK TRIPS | | | | HEAVY-DUTY TRUCK EMISSIONS (ppd) | | | | | | | |
|-------------------|---------------|-------------------|---------|----------------------------------|------|------|------|------|-------|----------|--|
| | Trips per Day | Round Trip Length | VMT/day | CO | VOC | NOX | SOX | PM10 | PM2.5 | CO2 | |
| Trucks (Off-site) | 14 | 32 | 448 | 3.18 | 0.71 | 8.27 | 0.02 | 0.36 | 0.33 | 1,900.49 | |

| TOTAL EMISSIONS | | EMISSIONS (ppd) | | | | | | | |
|-----------------|--|-----------------|--------------|---------------|-------------|-------------|-------------|------------------|--|
| | | CO | VOC | NOX | SOX | PM10 | PM2.5 | CO2 | |
| On-Site | | 60.61 | 14.42 | 128.12 | 0.19 | 5.31 | 4.89 | 18,242.38 | |
| Off-Site | | 6.90 | 0.82 | 8.58 | 0.02 | 0.42 | 0.38 | 2,578.74 | |
| TOTAL | | 67.51 | 15.24 | 136.70 | 0.22 | 5.73 | 5.27 | 20,821.12 | |

| | |
|-------------|------------------------|
| Metric Tonn | Metric Tonnes Per Year |
| 9 | 2455.518 |

[1] Trip length from URBEMIS2007.

| TOTAL MITIGATED EXHAUST EMISSIONS | | EMISSIONS (ppd) | | | | | | | |
|-----------------------------------|--|-----------------|--------------|---------------|-------------|-------------|-------------|------------------|--|
| | | CO | VOC | NOX | SOX | PM10 | PM2.5 | CO2 | |
| On-Site | | 57.58 | 13.70 | 121.72 | 0.18 | 5.05 | 4.64 | 18,242.38 | |
| Off-Site | | 6.56 | 0.78 | 8.15 | 0.02 | 0.39 | 0.37 | 2,578.74 | |
| TOTAL | | 64.14 | 14.47 | 129.87 | 0.20 | 5.44 | 5.01 | 20,821.12 | |

| TOTAL MITIGATED EMISSIONS | | EMISSIONS (ppd) | | | | | | | |
|---------------------------|--|-----------------|--------------|---------------|-------------|-------------|-------------|------------------|--|
| | | CO | VOC | NOX | SOX | PM10 | PM2.5 | CO2 | |
| On-Site | | 57.58 | 13.70 | 121.72 | 0.18 | 5.05 | 4.64 | 18,242.38 | |
| Off-Site | | 6.56 | 0.78 | 8.15 | 0.02 | 0.39 | 0.37 | 2,578.74 | |
| TOTAL | | 64.14 | 14.47 | 129.87 | 0.20 | 5.44 | 5.01 | 20,821.12 | |

| | |
|-------------|------------------------|
| Metric Tonn | Metric Tonnes Per Year |
| 9 | 2455.518 |

Inlet Task 1 Regional Construction Emissions

| | | | | | |
|--------------------------------|----|----------------------------------|--------|--------------------------|--|
| Fugitive Dust Emissions | | Site Preparation Activity | | | |
| | | Excavation | 58,444 | Square Feet ^a | |
| Schedule - | 20 | days ^a | | | |

| | |
|----------------------------------|------------------------|
| Fugitive Dust Parameters | |
| Vehicle Speed (mph) ^b | Vehicle Miles Traveled |
| 3 | 4.55 |

| | | | | |
|---|---------------------------------|--------------------------------------|--------------|---------------------------|
| Fugitive Dust Stockpiling Parameters | | | | |
| Silt Content ^c | Precipitation Days ^d | Mean Wind Speed Percent ^e | TSP Fraction | Area ^f (acres) |
| 6.9 | 10 | 5.00 | 0.5 | 1 |

| | | | | |
|---|------------------------------|-------------------------------|--------------|--------------|
| Fugitive Dust Material Handling | | | | |
| Aerodynamic Particle Size Multiplier ^g | Mean Wind Speed ^h | Moisture Content ⁱ | Dirt Handled | Dirt Handled |
| | mph | | cy | lb/day |
| 0.35 | 5.0 | 7.9 | 890 | 111,250 |

| | | | |
|----------------------------|-------------------------------|---------------------------------|----------------------------------|
| Dragline Parameters | | | |
| Drop Height (feet) | Moisture Content ^j | PM ₁₀ Scaling Factor | PM _{2.5} Scaling Factor |
| 3 | 7.9% | 0.75 | 0.017 |

| | | | | |
|----------------------------|--|---------------------------|------------------|-------------------|
| Site Prep - Grading | | Max Daily Grading (acres) | PM ₁₀ | PM _{2.5} |
| | | 1.00 | 23.3 | 4.8 |

Incremental Increase in Fugitive Dust Emissions from Construction Operations

Equations:

Storage Piles^k: PM₁₀ Emissions (lb/day) = 1.7 x (silt content/1.5) x ((365-precipitation days)/235) x wind speed percent/15 x TSP fraction x Area x (1 - control efficiency)
 Material Handling^l: PM₁₀ Emissions (lb/day) = (0.0032 x aerodynamic particle size multiplier x (wind speed (mph)/5)^{1.5}/(moisture content/2)^{1.4} x dirt handled (lb/day)/2,000 (lb/ton) (1 - control efficiency)
 Dragline Equation for PM₁₀ Emissions^o (lbs/day) = [(0.0021 x (drop height)^{0.7}) / (moisture content)^{0.3}] x 0.75 x Dirt Handled x Control Efficiency
 Dragline Equation for PM_{2.5} Emissions^p (lbs/day) = [(0.0021 x (drop height)^{1.1}) / (moisture content)^{0.3}] x 0.017 x Dirt Handled x Control Efficiency
 Grading Equation for PM₁₀ is based on URBEMIS2007's rate for grading dust of 38.2 pounds per acre, and applied 61% reduction based on Rule 403 compliance.

| Phase I | Control Efficiency | PM ₁₀ ^q | PM _{2.5} ^r |
|-------------------|--------------------|-------------------------------|--------------------------------|
| Description | % | lb/day | lb/day |
| Earthmoving | 61 | 0.490 | 0.102 |
| Storage Piles | 61 | 0.77 | 0.160 |
| Material Handling | 61 | 0 | 0.000 |
| Dragline | 61 | 0.126 | 0.003 |
| Grading | 61 | 23.302 | 4.847 |
| Total | | 24.69 | 5.11 |

Notes

- a) Assumed 3 haul truck trips a day at 20 cubic yards a load, worst single-day scenario, 4000 foot long area 12 foot wide.
- b) Caterpillar Performance Handbook, Edition 33, October 2003 Operating Speeds, p 2-3.
- c) USEPA, AP-42, July 1998, Table 11.9-3 Typical Values for Corection Factors Applicable to the Predictive Emission Factor Equations
- d) Table A9-9-E2, SCAQMD CEQA Air Quality Handbook, 1993
- e) Mean wind speed percent - percent of time mean wind speed exceeds 12 mph.
- f) Assumed storage piles are 5 acres in size
- g) USEPA, AP-42, Jan 1995, Section 13.2.4 Aggragate Handling and Storage Piles, p 13.2.4-3 Aerodynamic particle size multiplier for < 10 μm
- h) Mean wind speed at the Downtown Los Angeles Wind Monitoring Station.
- i) USEPA, Fugitive Dust Background Document and Technical Information Document for Best Available Control Measures, equation 2-13, p 2-28.
- j) Assuming 890 cubic yards of dirt handled
- k) USEPA, AP-42, July 1998, Table 11.9-1, Equation for Site Grading ≤ 10 μm
- l) USEPA, AP-42, Jan 1995, Section 13.2.4 Aggragate Handling and Storage Piles, Equation 1
- m) USEPA, Fugitive Dust Background Document and Technical Information Document for Best Available Control Measures, Sept 1992, EPA-450/2-92-004, Equation 2-12.
- n) Includes watering at least three times a day per Rule 403 (61% control efficiency).
- o) Source: USEPA, AP-42, Emission Factor Equations for Uncontrolled Dust Sources at Western Surface Coal Mines, Table 11.9-1, Dragline calculations for PM₁₀ and PM_{2.5}.

Aluminum Phase 3 Regional Construction Emissions

| Off-Road Row | Qty | Operating Hrs/WD/each | Total Operating Hours Per Day | Month | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 |
|----------------------------------|--------------------------------------|-----------------------|-------------------------------|-------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 1/2 Ton Pickup (Commute Vehicle) | Off-site worker use | 5 | 4 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |
| | Emfac; Assumes 5 VMT Per Day/Vehicle | 2 | 8 | 16 | | | | | | | | | | | | | | | | | | |
| 3/4 Ton Pickup | | | | | | | | | | | | | | | | | | | | | | |
| | Emfac; Assumes 5 VMT Per Day/Vehicle | 2 | 8 | 16 | | | | | | | | | | | | | | | | | | |
| 1 Ton Pickup | | | | | | | | | | | | | | | | | | | | | | |
| | Emfac; Assumes 5 VMT Per Day/Vehicle | 2 | 8 | 16 | | | | | | | | | | | | | | | | | | |
| 4000 Gallon Water Truck | | 108 | 1 | 4 | | | | | | | | | | | | | | | | | | |
| Yard Crane, ATV | | 51 | 2 | 8 | | | | | | | | | | | | | | | | | | |
| Loader/ForksCat 966, | | 230 | 1 | 8 | | | | | | | | | | | | | | | | | | |
| Job Trailers (3) | No Emissions | | 3 | 2 | | | | | | | | | | | | | | | | | | |
| Grader, Cat 16G | | 97 | 1 | 4 | | | | | | | | | | | | | | | | | | |
| Dozer, D10 | | 57 | 2 | 8 | | | | | | | | | | | | | | | | | | |
| Excavator, Cat 365 | | 75 | 1 | 4 | | | | | | | | | | | | | | | | | | |
| Roller/Compactor (Vibratory) | | 174 | 1 | 4 | | | | | | | | | | | | | | | | | | |
| Hydraulic Breaker | No Emissions | | 2 | 2 | | | | | | | | | | | | | | | | | | |
| Truck Tractor | ission rates from Emfac | | 1 | 8 | | | | | | | | | | | | | | | | | | |
| Asphalt Paver | | 143 | 1 | 8 | | | | | | | | | | | | | | | | | | |
| Tandem Roller | | 174 | 1 | 8 | | | | | | | | | | | | | | | | | | |
| Pulley Grader System | | 100 | 1 | 8 | | | | | | | | | | | | | | | | | | |
| Hydraulic Crane, 55 Ton | | 51 | 2 | 8 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 |
| Drill Rig with Auger | | 35 | 1 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| Front End Loader | | 230 | 1 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| Hydraulic Excavator | | 77 | 1 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| Gas Engine Vibrator | | 119 | 1 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| Cherry Picker (boom lifts) | No Emissions (ELCT) | | 2 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 |
| Water Truck | | 108 | 1 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| Concrete pump | | 166 | 1 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| Misc. | | 119 | 10 | 2 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |

| Months 25-45 | | | | | | | | | | | | | | | | |
|----------------------------------|-------------------|--------------|------------------|---------------|-------------------|---------------|-------------------|----------------|-----------------|--------------|------------------|---------------|-------------------|---------------|-------------------|--------|
| VOC (lbs/day) | VOC Rate (lbs/hr) | CO (lbs/day) | CO rate (lbs/hr) | NOX (lbs/day) | NOX rate (lbs/hr) | SOX (lbs/day) | SOX rate (lbs/hr) | PM10 (lbs/day) | PM2.5 (lbs/day) | PM (lbs/day) | PM rate (lbs/hr) | CO2 (lbs/day) | CO2 Rate (lbs/hr) | CH4 (lbs/day) | CH4 rate (lbs/hr) | |
| 1/2 Ton Pickup (Commute Vehicle) | | | | | | | | | | | | | | | | |
| 3/4 Ton Pickup | | | | | | | | | | | | | | | | |
| 1 Ton Pickup | | | | | | | | | | | | | | | | |
| 4000 Gallon Water Truck | | | | | | | | | | | | | | | | |
| Yard Crane, ATV | | | | | | | | | | | | | | | | |
| Loader/ForksCat 966, | | | | | | | | | | | | | | | | |
| Job Trailers (3) | | | | | | | | | | | | | | | | |
| Grader, Cat 16G | | | | | | | | | | | | | | | | |
| Dozer, D10 | | | | | | | | | | | | | | | | |
| Excavator, Cat 365 | | | | | | | | | | | | | | | | |
| Roller/Compactor (Vibratory) | | | | | | | | | | | | | | | | |
| Hydraulic Breaker | | | | | | | | | | | | | | | | |
| Truck Tractor | | | | | | | | | | | | | | | | |
| Asphalt Paver | | | | | | | | | | | | | | | | |
| Tandem Roller | | | | | | | | | | | | | | | | |
| Pulley Grader System | | | | | | | | | | | | | | | | |
| Hydraulic Crane, 55 Ton | 1.82 | 0.1137 | 6.82 | 0.4263 | 15.02 | 0.9387 | 0.02 | 0.0014 | 0.6206 | 0.5709 | 0.62 | 0.0388 | 2058.07 | 129 | 0.16 | 0.0103 |
| Drill Rig with Auger | 0.50 | 0.0623 | 4.01 | 0.5016 | 4.27 | 0.5340 | 0.01 | 0.0017 | 0.1277 | 0.1175 | 0.13 | 0.0160 | 1319.27 | 165 | 0.04 | 0.0056 |
| Front End Loader | 0.82 | 0.1025 | 2.83 | 0.3534 | 6.33 | 0.7914 | 0.02 | 0.0019 | 0.2081 | 0.1915 | 0.21 | 0.0260 | 1373.90 | 172 | 0.07 | 0.0092 |
| Hydraulic Excavator | 0.79 | 0.0988 | 4.17 | 0.5213 | 5.28 | 0.6603 | 0.01 | 0.0013 | 0.2659 | 0.2446 | 0.27 | 0.0332 | 956.64 | 120 | 0.07 | 0.0089 |
| Gas Engine Vibrator | 0.58 | 0.0720 | 2.88 | 0.3602 | 4.54 | 0.5680 | 0.01 | 0.0013 | 0.1870 | 0.1720 | 0.19 | 0.0234 | 980.50 | 123 | 0.05 | 0.0065 |
| Cherry Picker (boom lifts) | | | | | | | | | | | | | | | | |
| Water Truck | 0.94 | 0.1179 | 2.92 | 0.3651 | 6.94 | 0.8678 | 0.01 | 0.0019 | 0.2323 | 0.2137 | 0.23 | 0.0290 | 1332.36 | 167 | 0.09 | 0.0106 |
| Concrete pump | 0.45 | 0.0562 | 2.23 | 0.2785 | 3.06 | 0.3830 | 0.00 | 0.0006 | 0.1915 | 0.1762 | 0.19 | 0.0239 | 396.85 | 49.6 | 0.04 | 0.0051 |
| Misc. | 1.44 | 0.0720 | 7.20 | 0.3602 | 11.36 | 0.5680 | 0.03 | 0.0013 | 0.4674 | 0.4300 | 0.47 | 0.0234 | 2451.26 | 123 | 0.13 | 0.0065 |
| 7.34 | | | 33.07 | | 56.81 | | 0.12 | | 2.30 | 2.12 | 2.30 | | 10868.86 | | 0.66 | |

2016

| DUST EMISSIONS | | |
|----------------|-------------------------------|--------------------------------|
| | Unmitigated PM10 ^a | Unmitigated PM2.5 ^b |
| Total | 0.00 | 0.00 |

| WORKER VEHICLES | | WORKER VEHICLE EMISSIONS (ppd) | | | | | | | | | |
|-----------------|-----------------|--------------------------------|----------------------|---------------|------|------|------|------|------|-------|--------|
| | # of Workers[1] | Round Trip Length | # of Worker Vehicles | Total VMT/Day | CO | VOC | NOX | SOX | PM10 | PM2.5 | CO2 |
| Worker Vehicles | 23 | 13.3 | 23 | 305.90 | 1.45 | 0.04 | 0.12 | 0.00 | 0.02 | 0.02 | 288.66 |

| TRUCK TRIPS | | HEAVY-DUTY TRUCK EMISSIONS (ppd) | | | | | | | | | |
|-------------------|---------------|----------------------------------|---------|------|------|------|------|------|-------|--------|--|
| Trucks (Off-site) | Trips per Day | Round Trip Length | VMT/day | CO | VOC | NOX | SOX | PM10 | PM2.5 | CO2 | |
| | 4 | 32 | 128 | 0.81 | 0.18 | 2.09 | 0.01 | 0.09 | 0.08 | 543.00 | |

| TOTAL EMISSIONS | | EMISSIONS (ppd) | | | | | | | CO2 | | | | |
|-----------------|-----------|-----------------|------------|-------------|------------|--------------|------------|-------------|-------------|-------------|--------------|-------------|------------------|
| On-Site | CO | 33.07 | VOC | 7.34 | NOX | 56.81 | SOX | 0.12 | PM10 | 2.30 | PM2.5 | 2.12 | 10,882.76 |
| Off-Site | CO | 2.26 | VOC | 0.22 | NOX | 2.21 | SOX | 0.01 | PM10 | 0.11 | PM2.5 | 0.11 | 831.66 |
| TOTAL | CO | 35.32 | VOC | 7.56 | NOX | 59.02 | SOX | 0.12 | PM10 | 2.42 | PM2.5 | 2.22 | 11,714.41 |

| | |
|-----------------------|------------------------|
| Metric Tonnes Per Day | Metric Tonnes Per Year |
| 5 | 1381.527554 |

[1] Trip length from URBEMIS2007.

| TOTAL MITIGATED EXHAUST EMISSIONS | | EMISSIONS (ppd) | | | | | | | CO2 | | | | |
|-----------------------------------|-----------|-----------------|------------|-------------|------------|--------------|------------|-------------|-------------|-------------|--------------|-------------|------------------|
| On-Site | CO | 31.41 | VOC | 6.97 | NOX | 53.97 | SOX | 0.11 | PM10 | 2.19 | PM2.5 | 2.01 | 10,882.76 |
| Off-Site | CO | 2.14 | VOC | 0.21 | NOX | 2.10 | SOX | 0.01 | PM10 | 0.11 | PM2.5 | 0.10 | 831.66 |
| TOTAL | CO | 33.56 | VOC | 7.18 | NOX | 56.07 | SOX | 0.12 | PM10 | 2.29 | PM2.5 | 2.11 | 11,714.41 |

| TOTAL MITIGATED EMISSIONS | | EMISSIONS (ppd) | | | | | | | CO2 | | | | |
|---------------------------|-----------|-----------------|------------|-------------|------------|--------------|------------|-------------|-------------|-------------|--------------|-------------|------------------|
| On-Site | CO | 31.41 | VOC | 6.97 | NOX | 53.97 | SOX | 0.11 | PM10 | 2.19 | PM2.5 | 2.01 | 10,882.76 |
| Off-Site | CO | 2.14 | VOC | 0.21 | NOX | 2.10 | SOX | 0.01 | PM10 | 0.11 | PM2.5 | 0.10 | 831.66 |
| TOTAL | CO | 33.56 | VOC | 7.18 | NOX | 56.07 | SOX | 0.12 | PM10 | 2.29 | PM2.5 | 2.11 | 11,714.41 |

| | |
|-----------------------|------------------------|
| Metric Tonnes Per Day | Metric Tonnes Per Year |
| 5 | 1381.527554 |

LADWP Elysian Reservoir Inlet Project

ESTIMATED EQUIPMENT OPERATIONS

20 WD/Month

| | Qty | Operating Hrs/WD/each | Total Operating Hours Per Day | Month | 1 | 2 | 3 |
|---|-----|-----------------------|-------------------------------|-------|---|---|----|
| 175 hp EPBTBM with Conveyor | 1 | 8 | 8 | | | | |
| 75 hp electric power unit for jacks | 1 | 8 | 8 | | | | |
| 75 hp x 2,000 gallon Bentonite mixer/pump | 1 | 4 | 4 | | | | |
| 75 hp High Pressure Electric Fan | 1 | 8 | 8 | | | | |
| Grader | 1 | 4 | 4 | | 4 | 4 | |
| 1000 Ton Main Jacks | 2 | 4 | 8 | | | | |
| 325 KW Generator | 1 | 8 | 8 | | | | 8 |
| Utility Truck | 2 | 4 | 8 | | 8 | 8 | |
| 194 hp 2,500 gallon water truck | 2 | 4 | 8 | | | | 8 |
| Welding equipment | 2 | 6 | 12 | | | | 12 |
| Pump unit | 1 | 8 | 8 | | | | 8 |
| Dirt Hopper | 1 | 4 | 4 | | | | 4 |
| Bobcat | 2 | 4 | 8 | | | | 8 |
| 200 hp Spiral Drill with crane | 1 | 4 | 4 | | | | 4 |
| 380 hp Excavator | 1 | 8 | 8 | | | | 8 |
| 200 hp loader | 2 | 4 | 8 | | 8 | 8 | |
| 97 hp Backhoe | 2 | 4 | 8 | | | | 8 |
| 275 hp Hydraulic crane | 1 | 8 | 8 | | 8 | 8 | |
| Fork Lift | 2 | 4 | 8 | | | | 8 |
| Misc. | 5 | 2 | 10 | | | | 10 |

| | Months 1-2 | | | | | | | | | | | | | | | |
|---|---------------|-------------------|--------------|------------------|---------------|-------------------|---------------|-------------------|----------------|-----------------|--------------|------------------|---------------|-------------------|---------------|-------------------|
| | VOC (lbs/day) | VOC Rate (lbs/hr) | CO (lbs/day) | CO rate (lbs/hr) | NOX (lbs/day) | NOX rate (lbs/hr) | SOX (lbs/day) | SOX rate (lbs/hr) | PM10 (lbs/day) | PM2.5 (lbs/day) | PM (lbs/day) | PM rate (lbs/hr) | CO2 (lbs/day) | CO2 Rate (lbs/hr) | CH4 (lbs/day) | CH4 rate (lbs/hr) |
| 175 hp EPBTBM with Conveyor | | | | | | | | | | | | | | | | |
| 75 hp electric power unit for jacks | | | | | | | | | | | | | | | | |
| 75 hp x 2,000 gallon Bentonite mixer/pump | | | | | | | | | | | | | | | | |
| 75 hp High Pressure Electric Fan | | | | | | | | | | | | | | | | |
| Grader | 0.5109 | 0.1277 | 2.3722 | 0.5931 | 3.9180 | 0.9795 | 0.0060 | 0.0015 | 0.1955 | 0.1799 | 0.1955 | 0.0489 | 530.9722 | 132.7430 | 0.0461 | 0.0115 |
| 1000 Ton Main Jacks | | | | | | | | | | | | | | | | |
| 325 KW Generator | | | | | | | | | | | | | | | | |
| Utility Truck | 1.0012 | 0.1252 | 2.9614 | 0.3702 | 7.8542 | 0.9818 | 0.0075 | 0.0019 | 0.2622 | 0.2412 | 0.2622 | 0.0328 | 1332.3632 | 167 | 0.0903 | 0.0113 |
| 194 hp 2,500 gallon water truck | | | | | | | | | | | | | | | | |
| Welding equipment | | | | | | | | | | | | | | | | |
| Pump unit | | | | | | | | | | | | | | | | |
| Dirt Hopper | | | | | | | | | | | | | | | | |
| Bobcat | | | | | | | | | | | | | | | | |
| 200 hp Spiral Drill with crane | | | | | | | | | | | | | | | | |
| 380 hp Excavator | | | | | | | | | | | | | | | | |
| 200 hp loader | 0.8659 | 0.1082 | 2.8528 | 0.3566 | 7.2378 | 0.9047 | 0.0155 | 0.0019 | 0.2349 | 0.2161 | 0.2349 | 0.0294 | 1373.8961 | 171.7370 | 0.0781 | 0.0098 |
| 97 hp Backhoe | | | | | | | | | | | | | | | | |
| 275 hp Hydraulic crane | 0.9632 | 0.1204 | 3.5164 | 0.4395 | 8.1597 | 1.0200 | 0.0110 | 0.0014 | 0.3406 | 0.3133 | 0.3406 | 0.0426 | 1029.0467 | 128.6308 | 0.0869 | 0.0109 |
| Fork Lift | | | | | | | | | | | | | | | | |
| Misc. | 3.34 | | 11.70 | | 27.17 | | 0.04 | | 1.03 | 0.95 | 1.03 | | 4266.28 | | 0.30 | |

| | Month 3 | | | | | | | | | | | | | | | |
|---|---------------|-------------------|--------------|------------------|---------------|-------------------|---------------|-------------------|----------------|-----------------|--------------|------------------|---------------|-------------------|---------------|-------------------|
| | VOC (lbs/day) | VOC Rate (lbs/hr) | CO (lbs/day) | CO rate (lbs/hr) | NOX (lbs/day) | NOX rate (lbs/hr) | SOX (lbs/day) | SOX rate (lbs/hr) | PM10 (lbs/day) | PM2.5 (lbs/day) | PM (lbs/day) | PM rate (lbs/hr) | CO2 (lbs/day) | CO2 Rate (lbs/hr) | CH4 (lbs/day) | CH4 rate (lbs/hr) |
| 175 hp EPBTBM with Conveyor | | | | | | | | | | | | | | | | |
| 75 hp electric power unit for jacks | | | | | | | | | | | | | | | | |
| 75 hp x 2,000 gallon Bentonite mixer/pump | | | | | | | | | | | | | | | | |
| 75 hp High Pressure Electric Fan | | | | | | | | | | | | | | | | |
| Grader | | | | | | | | | | | | | | | | |
| 1000 Ton Main Jacks | | | | | | | | | | | | | | | | |
| 325 KW Generator | 0.5119 | 0.0640 | 2.3302 | 0.2913 | 3.7735 | 0.4717 | 0.0056 | 0.0007 | 0.2142 | 0.1971 | 0.2142 | 0.0268 | 487.9415 | 60.9927 | 0.0462 | 0.0058 |
| Utility Truck | 1.0012 | 0.1252 | 2.9614 | 0.3702 | 7.8542 | 0.9818 | 0.0150 | 0.0019 | 0.2622 | 0.2412 | 0.2622 | 0.0328 | 1332.3632 | 167 | 0.0903 | 0.0113 |
| 194 hp 2,500 gallon water truck | 1.5390 | 0.1924 | 4.7791 | 0.5974 | 11.9458 | 1.4932 | 0.0213 | 0.0027 | 0.4129 | 0.3799 | 0.4129 | 0.0516 | 2080.4483 | 260.0560 | 0.1389 | 0.0174 |
| Welding equipment | 0.6412 | 0.0534 | 2.3923 | 0.1994 | 2.7615 | 0.2301 | 0.0038 | 0.0003 | 0.2241 | 0.2062 | 0.2241 | 0.0187 | 307.2321 | 25.6027 | 0.0579 | 0.0048 |
| Pump unit | 0.4984 | 0.0621 | 2.2600 | 0.2825 | 3.2970 | 0.4121 | 0.0047 | 0.0006 | 0.2134 | 0.1963 | 0.2134 | 0.0267 | 396.8532 | 49.6067 | 0.0448 | 0.0056 |
| Dirt Hopper | 0.3073 | 0.0768 | 1.4581 | 0.3645 | 2.5566 | 0.6392 | 0.0051 | 0.0013 | 0.1055 | 0.0970 | 0.1055 | 0.0264 | 490.3914 | 122.5979 | 0.0277 | 0.0069 |
| Bobcat | 0.2675 | 0.0334 | 2.1679 | 0.2710 | 2.1592 | 0.2699 | 0.0040 | 0.0005 | 0.1360 | 0.1251 | 0.1360 | 0.0170 | 342.0946 | 42.7618 | 0.0241 | 0.0030 |
| 200 hp Spiral Drill with crane | 0.3073 | 0.0768 | 1.4581 | 0.3645 | 2.5566 | 0.6392 | 0.0051 | 0.0013 | 0.1055 | 0.0970 | 0.1055 | 0.0264 | 490.3914 | 122.5979 | 0.0277 | 0.0069 |
| 380 hp Excavator | 1.2615 | 0.1577 | 3.9716 | 0.4964 | 9.2954 | 1.1619 | 0.0184 | 0.0023 | 0.3306 | 0.3042 | 0.3306 | 0.0413 | 1869.8826 | 233.7353 | 0.1138 | 0.0142 |
| 200 hp loader | 0.8659 | 0.1082 | 2.8528 | 0.3566 | 7.2378 | 0.9047 | 0.0155 | 0.0019 | 0.2349 | 0.2161 | 0.2349 | 0.0294 | 1373.8961 | 171.7370 | 0.0781 | 0.0098 |
| 97 hp Backhoe | 0.4614 | 0.0577 | 2.7940 | 0.3480 | 3.0963 | 0.3870 | 0.0049 | 0.0006 | 0.2347 | 0.2159 | 0.2347 | 0.0293 | 413.8241 | 51.7280 | 0.0416 | 0.0052 |
| 275 hp Hydraulic crane | 0.9632 | 0.1204 | 3.5164 | 0.4395 | 8.1597 | 1.0200 | 0.0110 | 0.0014 | 0.3406 | 0.3133 | 0.3406 | 0.0426 | 1029.0467 | 128.6308 | 0.0869 | 0.0109 |
| Fork Lift | 0.3670 | 0.0459 | 1.7601 | 0.2200 | 2.5307 | 0.3163 | 0.0048 | 0.0006 | 0.1248 | 0.1148 | 0.1248 | 0.0156 | 435.1660 | 54.3958 | 0.0331 | 0.0041 |
| Misc. | 0.7682 | 0.0768 | 3.6452 | 0.3645 | 6.3915 | 0.6392 | 0.0127 | 0.0013 | 0.2637 | 0.2426 | 0.2637 | 0.0264 | 1225.9796 | 122.5979 | 0.0693 | 0.0089 |
| | 9.76 | | 38.34 | | 73.62 | | 0.13 | | 3.20 | 2.95 | 3.20 | | 12275.51 | | 0.88 | |

| DUST EMISSIONS | |
|-------------------------------|--------------------------------|
| Unmitigated PM10 ^a | Unmitigated PM2.5 ^a |
| | |

| | | | | |
|-------|------|--------|------|-------|
| Total | 0.00 | 24.690 | 0.00 | 5.110 |
|-------|------|--------|------|-------|

| WORKER VEHICLES | | WORKER VEHICLE EMISSIONS (ppd) | | | | | | | | | |
|-----------------|-----------------|--------------------------------|----------------------|---------------|------|------|------|------|------|-------|--------|
| | # of Workers[1] | Round Trip Length | # of Worker Vehicles | Total VMT/Day | CO | VOC | NOX | SOX | PM10 | PM2.5 | CO2 |
| Worker Vehicles | 18 | 13.3 | 18 | 239.40 | 1.24 | 0.04 | 0.10 | 0.00 | 0.02 | 0.02 | 226.08 |

| TRUCK TRIPS | | HEAVY-DUTY TRUCK EMISSIONS (ppd) | | | | | | | | | |
|------------------------|---------------|----------------------------------|---------|------|------|------|------|------|-------|----------|--|
| | Trips per Day | Round Trip Length | VMT/day | CO | VOC | NOX | SOX | PM10 | PM2.5 | CO2 | |
| Dump Trucks (Off-site) | 10 | 32 | 320 | 0.00 | 0.51 | 5.91 | 0.01 | 0.26 | 0.24 | 1,357.49 | |

| TOTAL EMISSIONS | | EMISSIONS (ppd) | | | | | | | | | |
|-----------------|--------------|-----------------|--------------|-------------|--------------|-------------|------------------|--|--|--|--|
| | CO | VOC | NOX | SOX | PM10 | PM2.5 | CO2 | | | | |
| On-Site | 38.34 | 9.76 | 73.62 | 0.13 | 27.89 | 8.06 | 12,294.00 | | | | |
| Off-Site | 1.24 | 0.54 | 6.01 | 0.01 | 0.28 | 0.25 | 1,583.58 | | | | |
| TOTAL | 39.58 | 10.30 | 79.63 | 0.15 | 28.17 | 8.31 | 13,877.58 | | | | |

[1] Trip length from URBEMIS2007.

| | |
|-------------|------------------------|
| Metric Tonn | Metric Tonnes Per Year |
| 6 | 1636.638 |

| TOTAL MITIGATED EXHAUST EMISSIONS | | EMISSIONS (ppd) | | | | | | | | | |
|-----------------------------------|--------------|-----------------|--------------|-------------|-------------|-------------|------------------|--|--|--|--|
| | CO | VOC | NOX | SOX | PM10 | PM2.5 | CO2 | | | | |
| On-Site | 36.42 | 9.27 | 69.94 | 0.13 | 3.04 | 2.80 | 12,294.00 | | | | |
| Off-Site | 1.18 | 0.52 | 5.71 | 0.01 | 0.26 | 0.24 | 1,583.58 | | | | |
| TOTAL | 37.60 | 9.79 | 75.64 | 0.14 | 3.31 | 3.04 | 13,877.58 | | | | |

| TOTAL MITIGATED EMISSIONS | | EMISSIONS (ppd) | | | | | | | | | |
|---------------------------|--------------|-----------------|--------------|-------------|--------------|-------------|------------------|--|--|--|--|
| | CO | VOC | NOX | SOX | PM10 | PM2.5 | CO2 | | | | |
| On-Site | 36.42 | 9.27 | 69.94 | 0.13 | 27.73 | 7.91 | 12,294.00 | | | | |
| Off-Site | 1.18 | 0.52 | 5.71 | 0.01 | 0.26 | 0.24 | 1,583.58 | | | | |
| TOTAL | 37.60 | 9.79 | 75.64 | 0.14 | 28.00 | 8.15 | 13,877.58 | | | | |

| |
|-----------------------|
| Metric Tonnes Per Day |
| 6 |

Inlet Task 2 Regional Construction Emissions

| | | | | | |
|--------------------------------|-----|----------------------------------|--------|--------------------------|--|
| Fugitive Dust Emissions | | Site Preparation Activity | | | |
| | | Excavation | 58,444 | Square Feet ^a | |
| Schedule - | 120 | days ^a | | | |

| | |
|--|-------------------------------|
| Fugitive Dust Parameters | |
| Vehicle Speed (mph)^b | Vehicle Miles Traveled |
| 3 | 10.61 |

| | | | | |
|---|---------------------------------------|--|---------------------|---------------------------------|
| Fugitive Dust Stockpiling Parameters | | | | |
| Silt Content^c | Precipitation Days^d | Mean Wind Speed Percent^e | TSP Fraction | Area^f (acres) |
| 6.9 | 10 | 5.00 | 0.5 | 1 |

| | | | | |
|---|------------------------------------|-------------------------------------|---------------------|---------------------|
| Fugitive Dust Material Handling | | | | |
| Aerodynamic Particle Size Multiplier^g | Mean Wind Speed^h | Moisture Contentⁱ | Dirt Handled | Dirt Handled |
| | mph | | cy | lb/day |
| 0.35 | 5.0 | 7.9 | 5,000 | 104,167 |

| | | | |
|----------------------------|-------------------------------------|---------------------------------------|--|
| Dragline Parameters | | | |
| Drop Height (feet) | Moisture Content^l | PM₁₀ Scaling Factor | PM_{2.5} Scaling Factor |
| 3 | 7.9% | 0.75 | 0.017 |

| | | | |
|----------------------------|----------------------------------|------------------------|-------------------------|
| | Max Daily Grading (acres) | PM₁₀ | PM_{2.5} |
| Site Prep - Grading | 1.00 | 23.3 | 4.8 |

Incremental Increase in Fugitive Dust Emissions from Construction Operations

Equations:

Storage Piles^h: PM₁₀ Emissions (lb/day) = 1.7 x (silt content/1.5) x ((365-precipitation days)/235) x wind speed percent/15 x TSP fraction x Area x (1 - control efficiency)

Material Handlingⁱ: PM₁₀ Emissions (lb/day) = (0.0032 x aerodynamic particle size multiplier x (wind speed (mph)/5)³/(moisture content/2)^{1.4} x dirt handled (lb/day)/2,000 (lb/ton) (1 - control efficiency)

Dragline Equation for PM₁₀ Emissions^o (lbs/day) = (((0.0021) x (drop height)^{0.7}) / (moisture content)^{0.3}) x 0.75 x Dirt Handled x Control Efficiency

Dragline Equation for PM_{2.5} Emissions^o (lbs/day) = (((0.0021) x (drop height)^{1.1}) / (moisture content)^{0.3}) x 0.017 x Dirt Handled x Control Efficiency

Grading Equation for PM₁₀ is based on URBEMIS2007's rate for grading dust of 38.2 pounds per acre, and applied 61% reduction based on Rule 403 compliance.

| Phase I | Control Efficiency | PM ₁₀ ⁿ | PM _{2.5} ⁿ |
|-------------------|--------------------|-------------------------------|--------------------------------|
| Description | % | lb/day | lb/day |
| Earthmoving | 61 | 1.140 | 0.237 |
| Storage Piles | 61 | 0.77 | 0.160 |
| Material Handling | 61 | 0 | 0.000 |
| Dragline | 61 | 0.118 | 0.003 |
| Grading | 61 | 23.302 | 4.847 |
| Total | | 25.33 | 5.25 |

Notes

- Assumed 7 haul truck trips a day at 20 cubic yards a load, worst single-day scenario, 4000 foot long area 12 foot wide.
- Caterpillar Performance Handbook, Edition 33, October 2003 Operating Speeds, p 2-3.
- USEPA, AP-42, July 1998, Table 11.9-3 Typical Values for Corection Factors Applicable to the Predictive Emission Factor Equations
- Table A9-9-E2, SCAQMD CEQA Air Quality Handbook, 1993
- Mean wind speed percent - percent of time mean wind speed exceeds 12 mph.
- Assumed storage piles are 5 acres in size
- USEPA, AP-42, Jan 1995, Section 13.2.4 Aggragate Handling and Storage Piles, p 13.2.4-3 Aerodynamic particle size multiplier for < 10 μm
- Mean wind speed at the Downtown Los Angeles Wind Monitoring Station.
- USEPA, Fugitive Dust Background Document and Technical Information Document for Best Available Control Measures, equation 2-13, p 2-28.
- Assuming 5000 cubic yards of dirt handled
- USEPA, AP-42, July 1998, Table 11.9-1, Equation for Site Grading≤ 10 μm
- USEPA, AP-42, Jan 1995, Section 13.2.4 Aggragate Handling and Storage Piles, Equation 1
- USEPA, Fugitive Dust Background Document and Technical Information Document for Best Available Control Measures, Sept 1992, EPA-450/2-92-004, Equation 2-12.
- Includes watering at least three times a day per Rule 403 (61% control efficiency).
- Source: USEPA, AP-42, Emission Factor Equations for Uncontrolled Dust Sources at Western Surface Coal Mines, Table 11.9-1, Dragline calculations for PM₁₀ and PM_{2.5}.

LADWP Elysian Reservoir Inlet Project

ESTIMATED EQUIPMENT OPERATIONS

| | Qty | Operating Hrs/Wd/each | Total Operating Hours Per Day | Month | 20 WD/Month | | | | | | | | | | | | | | | | | | |
|---|-----|-----------------------|-------------------------------|-------|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|--|--|
| | | | | | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | | | |
| 175 hp EPBTBM with Conveyor | 1 | 8 | 8 | | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | | | |
| 75 hp electric power unit for jacks | 1 | 8 | 8 | | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | | | |
| 75 hp x 2,000 gallon Bentonite mixer/pump | 1 | 4 | 4 | | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | | | |
| 75 hp High Pressure Electric Fan | 1 | 8 | 8 | | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | | | |
| Grader | 1 | 4 | 4 | | | | | | | | | | | | | | | | | | | | |
| 1000 Ton Main Jacks | 2 | 4 | 8 | | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | | | |
| 325 KW Generator | 1 | 8 | 8 | | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | | | |
| Utility Truck | 2 | 4 | 8 | | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | | | |
| 194 hp 2,500 gallon water truck | 2 | 4 | 8 | | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | | | |
| Welding equipment | 2 | 6 | 12 | | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | | | |
| Pump unit | 1 | 8 | 8 | | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | | | |
| Dirt Hopper | 1 | 4 | 4 | | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | | | |
| Bobcat | 2 | 4 | 8 | | | | | | | | | | | | | | | | | | | | |
| 200 hp Spiral Drill with crane | 1 | 4 | 4 | | | | | | | | | | | | | | | | | | | | |
| 380 hp Excavator | 1 | 8 | 8 | | | | | | | | | | | | | | | | | | | | |
| 200 hp loader | 2 | 4 | 8 | | 8 | 8 | 8 | 8 | 8 | 8 | 8 | | | | | | | | | | | | |
| 97 hp Backhoe | 2 | 4 | 8 | | 8 | 8 | 8 | 8 | 8 | 8 | 8 | | | | | | | | | | | | |
| 275 hp Hydraulic crane | 1 | 8 | 8 | | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | | | |
| Fork Lift | 2 | 4 | 8 | | 8 | 8 | 8 | 8 | 8 | 8 | 8 | | | | | | | | | | | | |
| Misc. | 5 | 2 | 10 | | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | | | |

| | Months 4-9 | | | | | | | | | | | | | | | | |
|---|---------------|-------------------|--------------|------------------|---------------|-------------------|---------------|-------------------|----------------|-----------------|--------------|------------------|----------------|-------------------|---------------|-------------------|--|
| | VOC (lbs/day) | VOC Rate (lbs/hr) | CO (lbs/day) | CO rate (lbs/hr) | NOX (lbs/day) | NOX rate (lbs/hr) | SOX (lbs/day) | SOX rate (lbs/hr) | PM10 (lbs/day) | PM2.5 (lbs/day) | PM (lbs/day) | PM rate (lbs/hr) | CO2 (lbs/day) | CO2 Rate (lbs/hr) | CH4 (lbs/day) | CH4 rate (lbs/hr) | |
| 175 hp EPBTBM with Conveyor | | | | | | | | | | | | | | | | | |
| 75 hp electric power unit for jacks | | | | | | | | | | | | | | | | | |
| 75 hp x 2,000 gallon Bentonite mixer/pump | 0.2482 | 0.0621 | 1.1300 | 0.2825 | 1.6485 | 0.4121 | 0.0024 | 0.0006 | 0.1067 | 0.0982 | 0.1067 | 0.0267 | 198.4266 | 49.6067 | 0.0224 | 0.0056 | |
| 75 hp High Pressure Electric Fan | | | | | | | | | | | | | | | | | |
| Grader | | | | | | | | | | | | | | | | | |
| 1000 Ton Main Jacks | | | | | | | | | | | | | | | | | |
| 325 KW Generator | 0.5119 | 0.0640 | 2.3302 | 0.2913 | 3.7735 | 0.4717 | 0.0056 | 0.0007 | 0.2142 | 0.1971 | 0.2142 | 0.0268 | 487.9415 | 60.9927 | 0.0462 | 0.0058 | |
| Utility Truck | 1.0012 | 0.1252 | 2.9614 | 0.3702 | 7.8542 | 0.9818 | 0.0150 | 0.0019 | 0.2622 | 0.2412 | 0.2622 | 0.0328 | 1332.3632 | 167 | 0.0903 | 0.0113 | |
| 194 hp 2,500 gallon water truck | 1.0012 | 0.1252 | 2.9614 | 0.3702 | 7.8542 | 0.9818 | 0.0150 | 0.0019 | 0.2622 | 0.2412 | 0.2622 | 0.0328 | 1332.3632 | 167 | 0.0903 | 0.0113 | |
| Welding equipment | 0.6412 | 0.0534 | 2.3923 | 0.1994 | 2.7615 | 0.2301 | 0.0038 | 0.0003 | 0.2241 | 0.2062 | 0.2241 | 0.0187 | 307.2321 | 25.6027 | 0.0579 | 0.0048 | |
| Pump unit | 0.4964 | 0.0621 | 2.2600 | 0.2825 | 3.2970 | 0.4121 | 0.0047 | 0.0006 | 0.2134 | 0.1963 | 0.2134 | 0.0267 | 396.8532 | 49.6067 | 0.0448 | 0.0056 | |
| Dirt Hopper | 0.3073 | 0.0768 | 1.4581 | 0.3645 | 2.5566 | 0.6392 | 0.0051 | 0.0013 | 0.1055 | 0.0970 | 0.1055 | 0.0264 | 490.3914 | 122.5979 | 0.0277 | 0.0069 | |
| Bobcat | | | | | | | | | | | | | | | | | |
| 200 hp Spiral Drill with crane | | | | | | | | | | | | | | | | | |
| 380 hp Excavator | | | | | | | | | | | | | | | | | |
| 200 hp loader | 0.8659 | 0.1082 | 2.8528 | 0.3566 | 7.2378 | 0.9047 | 0.0155 | 0.0019 | 0.2349 | 0.2161 | 0.2349 | 0.0294 | 1373.8961 | 171.7370 | 0.0781 | 0.0098 | |
| 97 hp Backhoe | 0.4614 | 0.0577 | 2.7840 | 0.3480 | 3.0963 | 0.3870 | 0.0049 | 0.0006 | 0.2347 | 0.2159 | 0.2347 | 0.0293 | 413.8241 | 51.7280 | 0.0416 | 0.0052 | |
| 275 hp Hydraulic crane | 0.9632 | 0.1204 | 3.5164 | 0.4395 | 8.1597 | 1.0200 | 0.0110 | 0.0014 | 0.3406 | 0.3133 | 0.3406 | 0.0426 | 1029.0467 | 128.6308 | 0.0869 | 0.0109 | |
| Fork Lift | 0.3670 | 0.0459 | 1.7601 | 0.2200 | 2.5307 | 0.3163 | 0.0048 | 0.0006 | 0.1248 | 0.1148 | 0.1248 | 0.0156 | 435.1660 | 54.3958 | 0.0331 | 0.0041 | |
| Misc. | 0.7682 | 0.0768 | 3.6452 | 0.3645 | 6.3915 | 0.6392 | 0.0127 | 0.0013 | 0.2637 | 0.2426 | 0.2637 | 0.0264 | 1225.9786 | 122.5979 | 0.0693 | 0.0069 | |
| | 7.63 | | 30.05 | | 57.16 | | 0.10 | | 2.59 | 2.38 | 2.59 | | 9023.48 | | 0.69 | | |

| | Months 10-19 | | | | | | | | | | | | | | | | |
|---|---------------|-------------------|--------------|------------------|---------------|-------------------|---------------|-------------------|----------------|-----------------|--------------|------------------|---------------|-------------------|---------------|-------------------|--|
| | VOC (lbs/day) | VOC Rate (lbs/hr) | CO (lbs/day) | CO rate (lbs/hr) | NOX (lbs/day) | NOX rate (lbs/hr) | SOX (lbs/day) | SOX rate (lbs/hr) | PM10 (lbs/day) | PM2.5 (lbs/day) | PM (lbs/day) | PM rate (lbs/hr) | CO2 (lbs/day) | CO2 Rate (lbs/hr) | CH4 (lbs/day) | CH4 rate (lbs/hr) | |
| 175 hp EPBTBM with Conveyor | | | | | | | | | | | | | | | | | |
| 75 hp electric power unit for jacks | | | | | | | | | | | | | | | | | |
| 75 hp x 2,000 gallon Bentonite mixer/pump | | | | | | | | | | | | | | | | | |
| 75 hp High Pressure Electric Fan | | | | | | | | | | | | | | | | | |
| Grader | | | | | | | | | | | | | | | | | |
| 1000 Ton Main Jacks | | | | | | | | | | | | | | | | | |
| 325 KW Generator | 0.5119 | 0.0640 | 2.3302 | 0.2913 | 3.7735 | 0.4717 | 0.0056 | 0.0007 | 0.2142 | 0.1971 | 0.2142 | 0.0268 | 487.9415 | 60.9927 | 0.0462 | 0.0058 | |
| Utility Truck | 1.0012 | 0.1252 | 2.9614 | 0.3702 | 7.8542 | 0.9818 | 0.0150 | 0.0019 | 0.2622 | 0.2412 | 0.2622 | 0.0328 | 1332.3632 | 167 | 0.0903 | 0.0113 | |
| 194 hp 2,500 gallon water truck | 1.0012 | 0.1252 | 2.9614 | 0.3702 | 7.8542 | 0.9818 | 0.0150 | 0.0019 | 0.2622 | 0.2412 | 0.2622 | 0.0328 | 1332.3632 | 167 | 0.0903 | 0.0113 | |
| Welding equipment | 0.6412 | 0.0534 | 2.3923 | 0.1994 | 2.7615 | 0.2301 | 0.0038 | 0.0003 | 0.2241 | 0.2062 | 0.2241 | 0.0187 | 307.2321 | 25.6027 | 0.0579 | 0.0048 | |
| Pump unit | 0.4964 | 0.0621 | 2.2600 | 0.2825 | 3.2970 | 0.4121 | 0.0047 | 0.0006 | 0.2134 | 0.1963 | 0.2134 | 0.0267 | 396.8532 | 49.6067 | 0.0448 | 0.0056 | |
| Dirt Hopper | 0.3073 | 0.0768 | 1.4581 | 0.3645 | 2.5566 | 0.6392 | 0.0051 | 0.0013 | 0.1055 | 0.0970 | 0.1055 | 0.0264 | 490.3914 | 122.5979 | 0.0277 | 0.0069 | |
| Bobcat | | | | | | | | | | | | | | | | | |
| 200 hp Spiral Drill with crane | | | | | | | | | | | | | | | | | |
| 380 hp Excavator | | | | | | | | | | | | | | | | | |
| 200 hp loader | | | | | | | | | | | | | | | | | |
| 97 hp Backhoe | | | | | | | | | | | | | | | | | |
| 275 hp Hydraulic crane | 0.9632 | 0.1204 | 3.5164 | 0.4395 | 8.1597 | 1.0200 | 0.0110 | 0.0014 | 0.3406 | 0.3133 | 0.3406 | 0.0426 | 1029.0467 | 128.6308 | 0.0869 | 0.0109 | |
| Fork Lift | | | | | | | | | | | | | | | | | |
| Misc. | 0.7682 | 0.0768 | 3.6452 | 0.3645 | 6.3915 | 0.6392 | 0.0127 | 0.0013 | 0.2637 | 0.2426 | 0.2637 | 0.0264 | 1225.9786 | 122.5979 | 0.0693 | 0.0069 | |

| | | | | | | | | | | | | | | | |
|--|------|--|-------|--|-------|--|------|--|------|------|------|--|---------|--|------|
| | 5.69 | | 21.52 | | 42.65 | | 0.07 | | 1.89 | 1.73 | 1.89 | | 6602.17 | | 0.51 |
|--|------|--|-------|--|-------|--|------|--|------|------|------|--|---------|--|------|

| DUST EMISSIONS | | |
|----------------|-------------------------------|--------------------------------|
| | Unmitigated PM10 ⁵ | Unmitigated PM2.5 ⁵ |
| Total | 0.00 25.330 | 0.00 5.250 |

| WORKER VEHICLES | WORKER VEHICLE EMISSIONS (ppd) | | | | | | | | | | |
|-----------------|--------------------------------|-------------------|----------------------|---------------|------|------|------|------|------|-------|--------|
| | # of Workers ^[1] | Round Trip Length | # of Worker Vehicles | Total VMT/Day | CO | VOC | NOX | SOX | PM10 | PM2.5 | CO2 |
| Worker Vehicles | 13 | 13.3 | 13 | 172.90 | 0.90 | 0.03 | 0.07 | 0.00 | 0.01 | 0.01 | 163.28 |

| TRUCK TRIPS | HEAVY-DUTY TRUCK EMISSIONS (ppd) | | | | | | | | | | |
|------------------------|----------------------------------|-------------------|---------|------|------|------|------|------|-------|----------|--|
| | Trips per Day | Round Trip Length | VMT/day | CO | VOC | NOX | SOX | PM10 | PM2.5 | CO2 | |
| Dump Trucks (Off-site) | 11 | 32 | 352 | 0.00 | 0.56 | 6.50 | 0.01 | 0.28 | 0.26 | 1,493.24 | |

| TOTAL EMISSIONS | EMISSIONS (ppd) | | | | | | | |
|-----------------|-----------------|-------------|--------------|-------------|--------------|-------------|------------------|--|
| | CO | VOC | NOX | SOX | PM10 | PM2.5 | CO2 | |
| On-Site | 30.05 | 7.63 | 57.16 | 0.10 | 27.92 | 7.63 | 9,037.95 | |
| Off-Site | 0.90 | 0.58 | 6.57 | 0.02 | 0.30 | 0.27 | 1,656.52 | |
| TOTAL | 30.95 | 8.22 | 63.73 | 0.12 | 28.21 | 7.90 | 10,694.47 | |

Metric Tonnes
Metric Tonnes Per Year
5 1261.242

[1] Trip length from URBEMIS2007.

| TOTAL MITIGATED EXHAUST EMISSIONS | EMISSIONS (ppd) | | | | | | | |
|-----------------------------------|-----------------|-------------|--------------|-------------|-------------|-------------|------------------|--|
| | CO | VOC | NOX | SOX | PM10 | PM2.5 | CO2 | |
| On-Site | 28.55 | 7.25 | 54.30 | 0.10 | 2.46 | 2.26 | 9,037.95 | |
| Off-Site | 0.85 | 0.55 | 6.24 | 0.01 | 0.28 | 0.26 | 1,656.52 | |
| TOTAL | 29.40 | 7.81 | 60.55 | 0.11 | 2.74 | 2.52 | 10,694.47 | |

| TOTAL MITIGATED EMISSIONS | EMISSIONS (ppd) | | | | | | | |
|---------------------------|-----------------|-------------|--------------|-------------|--------------|-------------|------------------|--|
| | CO | VOC | NOX | SOX | PM10 | PM2.5 | CO2 | |
| On-Site | 28.55 | 7.25 | 54.30 | 0.10 | 27.79 | 7.51 | 9,037.95 | |
| Off-Site | 0.85 | 0.55 | 6.24 | 0.01 | 0.28 | 0.26 | 1,656.52 | |
| TOTAL | 29.40 | 7.81 | 60.55 | 0.11 | 28.07 | 7.77 | 10,694.47 | |

Metric Tonnes Per Day
5

Inlet Task 3 Regional Construction Emissions

| | | | | | |
|--------------------------------|--|----------------------------------|--------|--------------------------|--|
| Fugitive Dust Emissions | | Site Preparation Activity | | | |
| | | Excavation | 58,444 | Square Feet ^b | |
| Schedule - | | 20 days ^a | | | |

| | |
|--|-------------------------------|
| Fugitive Dust Parameters | |
| Vehicle Speed (mph)^b | Vehicle Miles Traveled |
| 3 | 25.76 |

| | | | | | |
|---|---------------------------------------|--|---------------------|---------------------------------|--|
| Fugitive Dust Stockpiling Parameters | | | | | |
| Silt Content^c | Precipitation Days^d | Mean Wind Speed Percent^e | TSP Fraction | Area^f (acres) | |
| 6.9 | 10 | 5.00 | 0.5 | 1 | |

| | | | | | |
|---|------------------------------------|-------------------------------------|---------------------|---------------------|--|
| Fugitive Dust Material Handling | | | | | |
| Aerodynamic Particle Size Multiplier^g | Mean Wind Speed^h | Moisture Contentⁱ | Dirt Handled | Dirt Handled | |
| | mph | | cy | lb/day | |
| 0.35 | 5.0 | 7.9 | 850 | 106,250 | |

| | | | |
|----------------------------|-------------------------------------|---------------------------------------|--|
| Dragline Parameters | | | |
| Drop Height (feet) | Moisture Contentⁱ | PM₁₀ Scaling Factor | PM_{2.5} Scaling Factor |
| 3 | 7.9% | 0.75 | 0.017 |

| | | | |
|----------------------------|----------------------------------|------------------------|-------------------------|
| | Max Daily Grading (acres) | | |
| | | PM₁₀ | PM_{2.5} |
| Site Prep - Grading | 0.00 | 0.0 | 0.0 |

Incremental Increase in Fugitive Dust Emissions from Construction Operations

Equations:

Storage Piles^c: PM₁₀ Emissions (lb/day) = 1.7 x (silt content/1.5) x ((365-precipitation days)/235) x wind speed percent/15 x TSP fraction x Area x (1 - control efficiency)

Material Handling^c: PM₁₀ Emissions (lb/day) = (0.0032 x aerodynamic particle size multiplier x (wind speed (mph)/5)^{1.3}/(moisture content/2)^{1.4} x dirt handled (lb/day)/2,000 (lb/ton) (1 - control efficiency)

Dragline Equation for PM₁₀ Emissions^g (lbs/day) = [(0.0021) x (drop height)^{0.7} / (moisture content)^{0.3}] x 0.75 x Dirt Handled x Control Efficiency

Dragline Equation for PM_{2.5} Emissions^g (lbs/day) = [(0.0021) x (drop height)^{1.1}] / (moisture content)^{0.3} x 0.017 x Dirt Handled x Control Efficiency

Grading Equation for PM₁₀ is based on URBEMIS2007's rate for grading dust of 38.2 pounds per acre, and applied 61% reduction based on Rule 403 compliance.

| Phase I | Control Efficiency | PM ₁₀ ⁿ | PM _{2.5} ⁿ |
|--------------------|--------------------|-------------------------------|--------------------------------|
| Description | % | lb/day | lb/day |
| Earthmoving | 61 | 2.770 | 0.576 |
| Storage Piles | 61 | 0.77 | 0.160 |
| Material Handling | 61 | 0 | 0.000 |
| Dragline | 61 | 0.121 | 0.003 |
| Grading | 61 | 0.000 | 0.000 |
| Total | | 3.66 | 0.74 |

Notes

- Assumed 17 haul truck trips a day at 20 cubic yards a load, worst single-day scenario, 4000 foot long area 12 foot wide.
- Caterpillar Performance Handbook, Edition 33, October 2003 Operating Speeds, p 2-3.
- USEPA, AP-42, July 1998, Table 11.9-3 Typical Values for Corection Factors Applicable to the Predictive Emission Factor Equations
- Table A9-9-E2, SCAQMD CEQA Air Quality Handbook, 1993
- Mean wind speed percent - percent of time mean wind speed exceeds 12 mph.
- Assumed storage piles are 5 acres in size
- USEPA, AP-42, Jan 1995, Section 13.2.4 Aggretate Handling and Storage Piles, p 13.2.4-3 Aerodynamic particle size multiplier for < 10 μm
- Mean wind speed at the Downtown Los Angeles Wind Monitoring Station.
- USEPA, Fugitive Dust Background Document and Technical Information Document for Best Available Control Measures, equation 2-13, p 2-28.
- Assuming 850 cubic yards of dirt handled
- USEPA, AP-42, July 1998, Table 11.9-1, Equation for Site Grading ≤ 10 μm
- USEPA, AP-42, Jan 1995, Section 13.2.4 Aggretate Handling and Storage Piles, Equation 1
- USEPA, Fugitive Dust Background Document and Technical Information Document for Best Available Control Measures, Sept 1992, EPA-450/2-92-004, Equation 2-12.
- Includes watering at least three times a day per Rule 403 (61% control efficiency).
- Source: USEPA, AP-42, Emission Factor Equations for Uncontrolled Dust Sources at Western Surface Coal Mines, Table 11.9-1, Dragline calculations for PM₁₀ and PM_{2.5}.

ESTIMATED EQUIPMENT OPERATIONS

| | Qty | Operating Hrs/WD/each | Total Operating Hours Per Day | Month | |
|---|-----|-----------------------|-------------------------------|-------|----|
| 175 hp EPBTBM with Conveyor | 1 | 8 | 8 | | 20 |
| 75 hp electric power unit for jacks | 1 | 8 | 8 | | |
| 75 hp x 2,000 gallon Bentonite mixer/pump | 1 | 4 | 4 | | |
| 75 hp High Pressure Electric Fan | 1 | 8 | 8 | | |
| Grader | 1 | 4 | 4 | | |
| 1000 Ton Main Jacks | 2 | 4 | 8 | | |
| 325 KW Generator | 1 | 8 | 8 | | 8 |
| Utility Truck | 2 | 4 | 8 | | 8 |
| 194 hp 2,500 gallon water truck | 2 | 4 | 8 | | 8 |
| Welding equipment | 2 | 6 | 12 | | 12 |
| Pump unit | 1 | 8 | 8 | | 8 |
| Dirt Hopper | 1 | 4 | 4 | | |
| Bobcat | 2 | 4 | 8 | | |
| 200 hp Spiral Drill with crane | 1 | 4 | 4 | | |
| 380 hp Excavator | 1 | 8 | 8 | | 8 |
| 200 hp loader | 2 | 4 | 8 | | 8 |
| 97 hp Backhoe | 2 | 4 | 8 | | |
| 275 hp Hydraulic crane | 1 | 8 | 8 | | 8 |
| Fork Lift | 2 | 4 | 8 | | 8 |
| Misc. | 5 | 2 | 10 | | 10 |

| | VOC (lbs/day) | VOC Rate (lbs/hr) | CO (lbs/day) | CO rate (lbs/hr) | NOX (lbs/day) | NOX rate (lbs/hr) | SOX (lbs/day) | SOX rate (lbs/hr) | PM10 (lbs/day) | PM2.5 (lbs/day) | PM (lbs/day) | PM rate (lbs/hr) | CO2 (lbs/day) | CO2 Rate (lbs/hr) | CH4 (lbs/day) | CH4 rate (lbs/hr) |
|---|---------------|-------------------|--------------|------------------|---------------|-------------------|---------------|-------------------|----------------|-----------------|--------------|------------------|---------------|-------------------|---------------|-------------------|
| 175 hp EPBTBM with Conveyor | | | | | | | | | | | | | | | | |
| 75 hp electric power unit for jacks | | | | | | | | | | | | | | | | |
| 75 hp x 2,000 gallon Bentonite mixer/pump | | | | | | | | | | | | | | | | |
| 75 hp High Pressure Electric Fan | | | | | | | | | | | | | | | | |
| Grader | | | | | | | | | | | | | | | | |
| 1000 Ton Main Jacks | | | | | | | | | | | | | | | | |
| 325 KW Generator | 0.4647 | 0.0581 | 2.2898 | 0.2862 | 3.4959 | 0.4370 | 0.0056 | 0.0007 | 0.1926 | 0.1772 | 0.1926 | 0.0241 | 487.9415 | 60.9927 | 0.0419 | 0.0052 |
| Utility Truck | 0.9434 | 0.1179 | 2.9210 | 0.3651 | 6.9425 | 0.8678 | 0.0150 | 0.0019 | 0.2323 | 0.2137 | 0.2323 | 0.0290 | 1332.3633 | 167 | 0.0851 | 0.0106 |
| 194 hp 2,500 gallon water truck | 0.9434 | 0.1179 | 2.9210 | 0.3651 | 6.9425 | 0.8678 | 0.0150 | 0.0019 | 0.2323 | 0.2137 | 0.2323 | 0.0290 | 1332.3633 | 167 | 0.0851 | 0.0106 |
| Welding equipment | 0.5788 | 0.0482 | 2.3406 | 0.1951 | 2.6080 | 0.2173 | 0.0038 | 0.0003 | 0.2018 | 0.1856 | 0.2018 | 0.0168 | 307.2322 | 25.6027 | 0.0522 | 0.0044 |
| Pump unit | 0.4495 | 0.0562 | 2.2280 | 0.2785 | 3.0642 | 0.3830 | 0.0047 | 0.0006 | 0.1915 | 0.1762 | 0.1915 | 0.0239 | 396.8533 | 49.6067 | 0.0406 | 0.0051 |
| Dirt Hopper | | | | | | | | | | | | | | | | |
| Bobcat | | | | | | | | | | | | | | | | |
| 200 hp Spiral Drill with crane | | | | | | | | | | | | | | | | |
| 380 hp Excavator | 1.1964 | 0.1496 | 3.8804 | 0.4851 | 8.1890 | 1.0236 | 0.0184 | 0.0023 | 0.2929 | 0.2695 | 0.2929 | 0.0366 | 1869.8825 | 233.7353 | 0.1079 | 0.0135 |
| 200 hp loader | 0.8198 | 0.1025 | 2.8269 | 0.3534 | 6.3312 | 0.7914 | 0.0155 | 0.0019 | 0.2081 | 0.1915 | 0.2081 | 0.0260 | 1373.8965 | 171.7371 | 0.0740 | 0.0092 |
| 97 hp Backhoe | | | | | | | | | | | | | | | | |
| 275 hp Hydraulic crane | 0.9095 | 0.1137 | 3.4106 | 0.4263 | 7.5096 | 0.9387 | 0.0110 | 0.0014 | 0.3103 | 0.2855 | 0.3103 | 0.0388 | 1029.0338 | 128.6292 | 0.0821 | 0.0103 |
| Fork Lift | 0.3419 | 0.0427 | 1.7517 | 0.2190 | 2.2527 | 0.2816 | 0.0048 | 0.0006 | 0.1092 | 0.1005 | 0.1092 | 0.0137 | 435.1661 | 54.3958 | 0.0308 | 0.0039 |
| Misc. | 0.7198 | 0.0720 | 3.6022 | 0.3602 | 5.6798 | 0.5680 | 0.0127 | 0.0013 | 0.2337 | 0.2150 | 0.2337 | 0.0234 | 1225.6289 | 122.5629 | 0.0649 | 0.0065 |
| | 7.3671 | | 28.1721 | | 53.0154 | | 0.1064 | | 2.2048 | 2.0284 | 2.2048 | | 9790.3613 | | 0.6647 | |

| DUST EMISSIONS | | | |
|----------------|-------------------------------|--------------------------------|-------------|
| | Unmitigated PM10 ^a | Unmitigated PM2.5 ^b | |
| Total | 0.00 | 0.00 | 3.660 0.740 |

| WORKER VEHICLES | | WORKER VEHICLE EMISSIONS (ppd) | | | | | | | | | |
|-----------------|-----------------|--------------------------------|----------------------|---------------|------|------|------|------|------|-------|--------|
| | # of Workers[1] | Round Trip Length | # of Worker Vehicles | Total VMT/Day | CO | VOC | NOX | SOX | PM10 | PM2.5 | CO2 |
| Worker Vehicles | 10 | 13.3 | 10 | 133.00 | 0.63 | 0.02 | 0.05 | 0.00 | 0.01 | 0.01 | 125.50 |

| TRUCK TRIPS | | HEAVY-DUTY TRUCK EMISSIONS (ppd) | | | | | | | | | |
|------------------------|---------------|----------------------------------|---------|------|------|------|------|------|-------|----------|--|
| | Trips per Day | Round Trip Length | VMT/day | CO | VOC | NOX | SOX | PM10 | PM2.5 | CO2 | |
| Dump Trucks (Off-site) | 19 | 32 | 608 | 3.84 | 0.87 | 9.94 | 0.02 | 0.44 | 0.40 | 2,579.24 | |

| TOTAL EMISSIONS | | EMISSIONS (ppd) | | | | | | |
|-----------------|-------|-----------------|-------|------|------|-------|----------|--|
| | CO | VOC | NOX | SOX | PM10 | PM2.5 | CO2 | |
| On-Site | 28.17 | 7.37 | 53.02 | 0.11 | 5.86 | 2.77 | 9,804.32 | |
| Off-Site | 4.47 | 0.89 | 9.99 | 0.03 | 0.45 | 0.41 | 2,704.74 | |

| | | | | | | | |
|--------------|--------------|-------------|--------------|-------------|-------------|-------------|------------------|
| TOTAL | 32.64 | 8.26 | 63.01 | 0.13 | 6.31 | 3.18 | 12,509.06 |
|--------------|--------------|-------------|--------------|-------------|-------------|-------------|------------------|

[1]

Trip length from URBEMIS2007.

| | |
|---------------|------------------------|
| Metric Tonnes | Metric Tonnes Per Year |
| 6 | 1475,244 |

| TOTAL MITIGATED EXHAUST EMISSIONS | | EMISSIONS (ppd) | | | | | | |
|-----------------------------------|--------------|-----------------|--------------|-------------|-------------|-------------|------------------|--|
| | CO | VOC | NOX | SOX | PM10 | PM2.5 | CO2 | |
| On-Site | 26.76 | 7.00 | 50.36 | 0.10 | 2.09 | 1.93 | 9,804.32 | |
| Off-Site | 4.24 | 0.85 | 9.49 | 0.02 | 0.42 | 0.39 | 2,704.74 | |
| TOTAL | 31.01 | 7.84 | 59.86 | 0.13 | 2.52 | 2.32 | 12,509.06 | |

| TOTAL MITIGATED EMISSIONS | | EMISSIONS (ppd) | | | | | | |
|---------------------------|--------------|-----------------|--------------|-------------|-------------|-------------|------------------|--|
| | CO | VOC | NOX | SOX | PM10 | PM2.5 | CO2 | |
| On-Site | 26.76 | 7.00 | 50.36 | 0.10 | 5.75 | 2.67 | 9,804.32 | |
| Off-Site | 4.24 | 0.85 | 9.49 | 0.02 | 0.42 | 0.39 | 2,704.74 | |
| TOTAL | 31.01 | 7.84 | 59.86 | 0.13 | 6.18 | 3.06 | 12,509.06 | |

| |
|-----------------------|
| Metric Tonnes Per Day |
| 6 |

Inlet Task 4 Regional Construction Emissions

ESTIMATED EQUIPMENT OPERATIONS

20 WD/Month

| | Qty | Operating Hrs/wd/each | Total Operating Hours Per Day | Month | 21 | 22 |
|---|-----|-----------------------|-------------------------------|-------|----|----|
| 175 hp EPBTBM with Conveyor | 1 | 8 | 8 | | | |
| 75 hp electric power unit for jacks | 1 | 8 | 8 | | | |
| 75 hp x 2,000 gallon Bentonite mixer/pump | 1 | 4 | 4 | | | |
| 75 hp High Pressure Electric Fan | 1 | 8 | 8 | | | |
| Grader | 1 | 4 | 4 | | | |
| 1000 Ton Main Jacks | 2 | 4 | 8 | | | |
| 325 KW Generator | 1 | 8 | 8 | | | |
| Utility Truck | 2 | 4 | 8 | | 8 | 8 |
| 194 hp 2,500 gallon water truck | 2 | 4 | 8 | | | |
| Welding equipment | 2 | 6 | 12 | | | |
| Pump unit | 1 | 8 | 8 | | | |
| Dirt Hopper | 1 | 4 | 4 | | | |
| Bobcat | 2 | 4 | 8 | | | |
| 200 hp Spiral Drill with crane | 1 | 4 | 4 | | | |
| 380 hp Excavator | 1 | 8 | 8 | | | |
| 200 hp loader | 2 | 4 | 8 | | 8 | 8 |
| 97 hp Backhoe | 2 | 4 | 8 | | | |
| 275 hp Hydraulic crane | 1 | 8 | 8 | | 8 | 8 |
| Fork Lift | 2 | 4 | 8 | | | |
| Misc. | 5 | 2 | 10 | | 10 | 10 |

| | VOC (lbs/day) | VOC Rate (lbs/hr) | CO (lbs/day) | CO rate (lbs/hr) | NOX (lbs/day) | NOX rate (lbs/hr) | SOX (lbs/day) | SOX rate (lbs/hr) | PM10 (lbs/day) | PM2.5 (lbs/day) | PM (lbs/day) | PM rate (lbs/hr) | CO2 (lbs/day) | CO2 Rate (lbs/hr) | CH4 (lbs/day) | CH4 rate (lbs/hr) |
|---|---------------|-------------------|--------------|------------------|---------------|-------------------|---------------|-------------------|----------------|-----------------|--------------|------------------|----------------|-------------------|---------------|-------------------|
| 175 hp EPBTBM with Conveyor | | | | | | | | | | | | | | | | |
| 75 hp electric power unit for jacks | | | | | | | | | | | | | | | | |
| 75 hp x 2,000 gallon Bentonite mixer/pump | | | | | | | | | | | | | | | | |
| 75 hp High Pressure Electric Fan | | | | | | | | | | | | | | | | |
| Grader | | | | | | | | | | | | | | | | |
| 1000 Ton Main Jacks | | | | | | | | | | | | | | | | |
| 325 KW Generator | | | | | | | | | | | | | | | | |
| Utility Truck | 0.9434 | 0.1179 | 2.9210 | 0.3651 | 6.9425 | 0.8678 | 0.0150 | 0.0019 | 0.2323 | 0.2137 | 0.2323 | 0.0290 | 1332.3633 | 167 | 0.0851 | 0.0106 |
| 194 hp 2,500 gallon water truck | | | | | | | | | | | | | | | | |
| Welding equipment | | | | | | | | | | | | | | | | |
| Pump unit | | | | | | | | | | | | | | | | |
| Dirt Hopper | | | | | | | | | | | | | | | | |
| Bobcat | | | | | | | | | | | | | | | | |
| 200 hp Spiral Drill with crane | | | | | | | | | | | | | | | | |
| 380 hp Excavator | | | | | | | | | | | | | | | | |
| 200 hp loader | 0.8198 | 0.1025 | 2.8269 | 0.3534 | 6.3312 | 0.7914 | 0.0155 | 0.0019 | 0.2081 | 0.1915 | 0.2081 | 0.0260 | 1373.8965 | 171.7371 | 0.0740 | 0.0092 |
| 97 hp Backhoe | | | | | | | | | | | | | | | | |
| 275 hp Hydraulic crane | 0.9095 | 0.1137 | 3.4106 | 0.4263 | 7.5096 | 0.9387 | 0.0110 | 0.0014 | 0.3103 | 0.2855 | 0.3103 | 0.0388 | 1029.0338 | 128.6292 | 0.0821 | 0.0103 |
| Fork Lift | | | | | | | | | | | | | | | | |
| Misc. | 0.7198 | 0.0720 | 3.6022 | 0.3602 | 5.6798 | 0.5680 | 0.0127 | 0.0013 | 0.2337 | 0.2150 | 0.2337 | 0.0234 | 1225.6289 | 122.5629 | 0.0649 | 0.0065 |
| | 3.39 | | 12.76 | | 26.46 | | 0.05 | | 0.98 | 0.91 | 0.98 | | 4960.92 | | 0.31 | |

| DUST EMISSIONS | |
|----------------|--------------------------------|
| | Unmitigated |
| | Unmitigated PM10 ⁶ |
| | Unmitigated PM2.5 ⁶ |
| Total | 0.00 |

| WORKER VEHICLES | WORKER VEHICLE EMISSIONS (ppd) | | | | | | | | | | |
|-----------------|--------------------------------|-------------------|----------------------|---------------|------|------|------|------|------|-------|-------|
| | # of Workers[1] | Round Trip Length | # of Worker Vehicles | Total VMT/Day | CO | VOC | NOX | SOX | PM10 | PM2.5 | CO2 |
| Worker Vehicles | 6 | 13.3 | 6 | 79.80 | 0.41 | 0.01 | 0.03 | 0.00 | 0.01 | 0.01 | 75.36 |

| TRUCK TRIPS | HEAVY-DUTY TRUCK EMISSIONS (ppd) | | | | | | | | | | |
|------------------------|----------------------------------|-------------------|---------|------|------|------|------|------|-------|--------|--|
| | Trips per Day | Round Trip Length | VMT/day | CO | VOC | NOX | SOX | PM10 | PM2.5 | CO2 | |
| Dump Trucks (Off-site) | 1 | 32 | 32 | 0.00 | 0.05 | 0.59 | 0.00 | 0.03 | 0.02 | 135.75 | |
| Dump Trucks (On-site) | 0 | 1 | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |

| TOTAL EMISSIONS | EMISSIONS (ppd) | | | | | | | |
|-----------------|-----------------|-------------|--------------|-------------|-------------|-------------|-----------------|--|
| | CO | VOC | NOX | SOX | PM10 | PM2.5 | CO2 | |
| On-Site | 12.76 | 3.39 | 26.46 | 0.05 | 0.98 | 0.91 | 4,967.35 | |
| Off-Site | 0.41 | 0.06 | 0.62 | 0.00 | 0.03 | 0.03 | 211.11 | |
| TOTAL | 13.17 | 3.46 | 27.09 | 0.06 | 1.02 | 0.94 | 5,178.46 | |

[1] Trip length from URBEMIS2007. Metric Tonnes Per Year

| | |
|------------------------|-----------|
| Metric Ton | 2 |
| Metric Tonnes Per Year | 610,716.7 |

| TOTAL MITIGATED EXHAUST EMISSIONS | EMISSIONS (ppd) | | | | | | | |
|-----------------------------------|-----------------|-------------|--------------|-------------|-------------|-------------|-----------------|--|
| | CO | VOC | NOX | SOX | PM10 | PM2.5 | CO2 | |
| On-Site | 12.12 | 3.22 | 25.14 | 0.05 | 0.94 | 0.86 | 4,967.35 | |
| Off-Site | 0.39 | 0.06 | 0.59 | 0.00 | 0.03 | 0.03 | 211.11 | |
| TOTAL | 12.52 | 3.28 | 25.73 | 0.05 | 0.97 | 0.89 | 5,178.46 | |

| TOTAL MITIGATED EMISSIONS | EMISSIONS (ppd) | | | | | | | |
|---------------------------|-----------------|-------------|--------------|-------------|-------------|-------------|-----------------|--|
| | CO | VOC | NOX | SOX | PM10 | PM2.5 | CO2 | |
| On-Site | 12.12 | 3.22 | 25.14 | 0.05 | 0.94 | 0.86 | 4,967.35 | |
| Off-Site | 0.39 | 0.06 | 0.59 | 0.00 | 0.03 | 0.03 | 211.11 | |
| TOTAL | 12.52 | 3.28 | 25.73 | 0.05 | 0.97 | 0.89 | 5,178.46 | |

| | |
|-----------------------|---|
| Metric Tonnes Per Day | 2 |
|-----------------------|---|

Appendix D

Localized Construction Modeling

Buried Cover PM10 Unmitigated

```
**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 6.7.1
** Lakes Environmental Software Inc.
** Date: 11/23/2010
** File: C:\Documents and Settings\jbailey\Desktop\Elysian Park AerMod\elysian\Bur_PM10.ADI
**
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**
CO STARTING
  TITLEONE Elysian
  TITLETWO Buried PM10
  MODELOPT DFAULT CONC NODRYDPLT NOWETDPLT
  AVERTIME 24
  URBANOPT 9862049 LA
  POLLUTID PM.10
  RUNORNOT RUN
CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
  LOCATION PAREA3 AREAPOLY 386606.494 3771295.572 139.670
** DESCRSRC Reservoir
  LOCATION PAREA4 AREAPOLY 386596.536 3772117.718 96.500
** DESCRSRC Caltrans
  LOCATION AREA2 AREA 386602.251 3772074.114 96.950
  LOCATION AREA3 AREA 386514.382 3771483.886 154.350
** Source Parameters **
  SRCPARAM PAREA3 2.2232E-06 5.000 18
  AREAVERT PAREA3 386606.494 3771295.572 386560.430 3771386.706
  AREAVERT PAREA3 386502.641 3771467.538 386454.064 3771523.011
  AREAVERT PAREA3 386432.288 3771547.577 386455.739 3771575.313
  AREAVERT PAREA3 386485.890 3771583.238 386543.680 3771557.879
  AREAVERT PAREA3 386593.931 3771507.954 386619.057 3771483.387
  AREAVERT PAREA3 386650.046 3771442.179 386660.096 3771427.914
  AREAVERT PAREA3 386676.847 3771408.103 386688.572 3771388.291
  AREAVERT PAREA3 386676.847 3771361.347 386655.909 3771323.308
  AREAVERT PAREA3 386640.833 3771309.044 386614.032 3771295.572
  SRCPARAM PAREA4 9.304E-06 5.000 14
  AREAVERT PAREA4 386596.536 3772117.718 386580.846 3772089.725
  AREAVERT PAREA4 386632.070 3772053.383 386637.838 3772051.173
  AREAVERT PAREA4 386652.144 3772050.928 386668.065 3772039.387
  AREAVERT PAREA4 386682.371 3772010.903 386693.678 3771992.977
  AREAVERT PAREA4 386695.985 3771989.049 386717.213 3771999.362
  AREAVERT PAREA4 386696.677 3772048.472 386683.525 3772065.170
  AREAVERT PAREA4 386672.219 3772075.974 386651.914 3772089.234
  SRCPARAM AREA2 0.0000915057 0.000 107.950 39.380 44.060 0.000
  SRCPARAM AREA3 0.0001199689 0.000 107.950 39.380 44.060 0.000
  URBANSRC PAREA3
  URBANSRC PAREA4
  URBANSRC AREA2
  URBANSRC AREA3
  SRCGROUP SRCGP1 PAREA4 PAREA3 AREA2 AREA3
  SRCGROUP ALL
SO FINISHED
**
*****
```

Buried Cover PM10 Unmitigated

```
** AERMOD Receptor Pathway
*****
**
**
RE STARTING
  INCLUDED Bur_PM10.rou
RE FINISHED
**
*****
** AERMOD Meteorology Pathway
*****
**
**
ME STARTING
  SURFFILE "L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\cela.SFC"
  PROFFILE "L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\cela.PFL"
  SURFDATA 0 2006
  UAIRDATA 3190 2006
  PROFBASE 10 METERS
ME FINISHED
**
*****
** AERMOD Output Pathway
*****
**
**
OU STARTING
  RECTABLE ALLAVE 1ST
  RECTABLE 24 1ST
** Auto-Generated Plotfiles
  PLOTFILE 24 ALL 1ST BUR_PM10.AD\24H1GALL.PLT
  PLOTFILE 24 SRCGP1 1ST BUR_PM10.AD\24H1G001.PLT
OU FINISHED

*****
*** SETUP Finishes Successfully ***
*****

*** AERMOD - VERSION 09292 ***      *** Elysian
***      11/23/10
***                               *** Buried PM10
***      09:40:05

PAGE 1
**MODELOPTs:  RegDFault CONC
                                           ELEV
                                           NODRYDPLT NOWETDPLT
***      MODEL SETUP OPTIONS SUMMARY      ***
-----
**Model Is Setup For Calculation of Average CONCentration Values.

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

**Model Uses URBAN Dispersion Algorithm for the SBL for      4 Source(s),
for Total of      1 Urban Area(s):
Urban Population =  9862049.0 ; Urban Roughness Length =  1.000 m

**Model Uses Regulatory DEFAULT Options:
1. Stack-tip Downwash.
2. Model Accounts for ELEVated Terrain Effects.
3. Use Calms Processing Routine.
4. Use Missing Data Processing Routine.
5. No Exponential Decay for URBAN/Non-SO2.
6. Urban Roughness Length of 1.0 Meter Assumed.
```


Buried Cover PM10 Unmitigated

**Model Assumes No FLAGPOLE Receptor Heights.
 **Model Calculates 1 Short Term Average(s) of: 24-HR
 **This Run Includes: 4 Source(s); 2 Source Group(s); and 120 Receptor(s)
 **The Model Assumes A Pollutant Type of: PM.10
 **Model Set To Continue RUNning After the Setup Testing.
 **Output Options Selected:
 Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
 Model Outputs External File(s) of High Values for Plotting (PLOTFILE 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) = 10.00 ; Decay Coef. = 0.000
 ; Rot. Angle = 0.0
 Emission Units = GRAMS/SEC ; Emission Rate
 Unit Factor = 0.10000E+07
 Output Units = MICROGRAMS/M**3

**Approximate Storage Requirements of Model = 3.5 MB of RAM.

*** AERMOD - VERSION 09292 *** *** Elysian
 *** 11/23/10 *** Buried PM10
 *** 09:40:05

PAGE 2

**MODELOPTs: RegDFAULT CONC ELEV
 NODRYDPLT NOWETDPLT

*** AREA SOURCE DATA ***

| ORIENT. | INIT. | NUMBER URBAN EMISSION RATE | COORD (SW CORNER) | BASE | RELEASE | X-DIM | Y-DIM | |
|---------|----------|----------------------------|-------------------|----------|----------|----------|----------|----------|
| SOURCE | PART. | (GRAMS/SEC | X | Y | ELEV. | HEIGHT | OF AREA | OF AREA |
| AREA | SZ | SCALAR VARY | (METERS) | (METERS) | (METERS) | (METERS) | (METERS) | (METERS) |
| (DEG.) | (METERS) | BY | | | | | | |

| | | | | | | | | |
|-------|------|-------------|----------|-----------|-------|------|--------|-------|
| AREA2 | 0 | 0.91506E-04 | 386602.3 | 3772074.1 | 97.0 | 0.00 | 107.95 | 39.38 |
| 44.06 | 0.00 | YES | | | | | | |
| AREA3 | 0 | 0.11997E-03 | 386514.4 | 3771483.9 | 154.4 | 0.00 | 107.95 | 39.38 |
| 44.06 | 0.00 | YES | | | | | | |

*** AERMOD - VERSION 09292 *** *** Elysian
 *** 11/23/10 *** Buried PM10
 *** 09:40:05

PAGE 3

**MODELOPTs: RegDFAULT CONC ELEV
 NODRYDPLT NOWETDPLT

*** AREAPOLY SOURCE DATA ***

| URBAN EMISSION RATE | NUMBER | EMISSION RATE | LOCATION OF AREA | BASE | RELEASE | NUMBER | INIT. |
|---------------------|-------------|---------------|------------------|----------|----------|----------|-----------|
| SOURCE | PART. | (GRAMS/SEC | X | Y | ELEV. | HEIGHT | OF VERTS. |
| SOURCE | SCALAR VARY | BY | (METERS) | (METERS) | (METERS) | (METERS) | (METERS) |
| ID | CATS. | /METER**2) | (METERS) | (METERS) | (METERS) | (METERS) | (METERS) |

Buried Cover PM10 Unmitigated

```

-----
PAREA3      0  0.22232E-05  386606.5  3771295.6  139.7   5.00   18   0.00
YES
PAREA4      0  0.93040E-05  386596.5  3772117.7   96.5   5.00   14   0.00
YES
*** AERMOD - VERSION 09292 ***   *** Elysian
***      11/23/10
***      09:40:05
***      Buried PM10

```

PAGE 4

**MODELOPTs: RegDEFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID SOURCE IDs

SRCGP1 PAREA3 , PAREA4 , AREA2 , AREA3 ,

```

ALL PAREA3 , PAREA4 , AREA2 , AREA3 ,
*** AERMOD - VERSION 09292 ***   *** Elysian
***      11/23/10
***      09:40:05
***      Buried PM10

```

PAGE 5

**MODELOPTs: RegDEFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

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

```

( 386476.8, 3771139.5, 143.3, 181.0, 0.0); ( 386470.4, 3771149.7,
144.2, 181.0, 0.0);
( 386460.2, 3771160.0, 145.3, 181.0, 0.0); ( 386449.3, 3771172.8,
146.6, 181.0, 0.0);
( 386440.3, 3771184.3, 147.6, 181.0, 0.0); ( 386434.5, 3771197.8,
148.6, 181.0, 0.0);
( 386405.0, 3771244.6, 152.9, 181.0, 0.0); ( 386409.5, 3771235.6,
151.9, 181.0, 0.0);
( 386416.6, 3771223.4, 150.9, 181.0, 0.0); ( 386421.1, 3771217.0,
150.3, 181.0, 0.0);
( 386426.2, 3771210.0, 149.6, 181.0, 0.0); ( 386274.3, 3771299.7,
168.1, 181.0, 0.0);
( 386278.8, 3771290.1, 167.4, 181.0, 0.0); ( 386287.8, 3771280.5,
166.6, 181.0, 0.0);
( 386296.1, 3771269.6, 164.9, 181.0, 0.0); ( 386303.1, 3771259.3,
163.5, 181.0, 0.0);
( 386340.3, 3771210.6, 155.9, 181.0, 0.0); ( 386331.3, 3771222.1,
157.6, 181.0, 0.0);
( 386323.0, 3771233.7, 159.3, 181.0, 0.0); ( 386312.8, 3771248.4,
161.6, 181.0, 0.0);
( 386415.3, 3771092.0, 143.8, 181.0, 0.0); ( 386380.0, 3771051.0,
142.9, 164.0, 0.0);
( 386392.2, 3771050.4, 142.2, 181.0, 0.0); ( 386374.3, 3771063.2,
144.0, 164.0, 0.0);
( 386402.5, 3771098.4, 144.8, 181.0, 0.0); ( 386419.8, 3771082.4,
142.9, 181.0, 0.0);
( 386163.4, 3771763.8, 182.0, 182.0, 0.0); ( 386081.3, 3771480.5,
178.0, 178.0, 0.0);
( 386103.8, 3771527.9, 179.8, 179.8, 0.0); ( 386120.4, 3771576.0,
181.1, 181.1, 0.0);

```

Buried Cover PM10 Unmitigated

| | | | | |
|------------------------|--------|--------|-------|------------------------|
| (386135.8, 3771613.8, | 182.0, | 182.0, | 0.0); | (386146.7, 3771651.6, |
| 182.0, 182.0, 0.0); | | | | |
| (386156.3, 3771690.8, | 182.0, | 182.0, | 0.0); | (386164.7, 3771730.5, |
| 182.0, 182.0, 0.0); | | | | |
| (386716.6, 3772090.1, | 93.4, | 182.0, | 0.0); | (386705.7, 3772082.4, |
| 93.0, 182.0, 0.0); | | | | |
| (386714.7, 3772074.7, | 93.3, | 182.0, | 0.0); | (386723.0, 3772061.9, |
| 93.7, 182.0, 0.0); | | | | |
| (386732.0, 3772036.9, | 94.0, | 182.0, | 0.0); | (386728.1, 3772051.0, |
| 93.9, 182.0, 0.0); | | | | |
| (386737.1, 3772022.1, | 94.2, | 182.0, | 0.0); | (386699.3, 3772099.1, |
| 92.7, 182.0, 0.0); | | | | |
| (386690.3, 3772107.4, | 92.4, | 182.0, | 0.0); | (386682.6, 3772113.8, |
| 92.1, 182.0, 0.0); | | | | |
| (386674.3, 3772123.4, | 92.3, | 182.0, | 0.0); | (386664.7, 3772134.3, |
| 92.8, 182.0, 0.0); | | | | |
| (386654.4, 3772145.2, | 93.1, | 182.0, | 0.0); | (386605.7, 3772127.3, |
| 95.6, 182.0, 0.0); | | | | |
| (386591.0, 3772133.7, | 96.5, | 182.0, | 0.0); | (386579.4, 3772139.5, |
| 97.2, 182.0, 0.0); | | | | |
| (386560.2, 3772147.2, | 98.4, | 182.0, | 0.0); | (386545.4, 3772154.8, |
| 99.0, 182.0, 0.0); | | | | |
| (386533.3, 3772162.5, | 99.5, | 182.0, | 0.0); | (386542.9, 3772179.8, |
| 98.2, 182.0, 0.0); | | | | |
| (386553.1, 3772195.9, | 96.9, | 182.0, | 0.0); | (386568.5, 3772208.7, |
| 95.5, 182.0, 0.0); | | | | |
| (386582.0, 3772192.7, | 95.3, | 182.0, | 0.0); | (386595.4, 3772181.1, |
| 94.8, 182.0, 0.0); | | | | |
| (386609.5, 3772168.9, | 94.5, | 182.0, | 0.0); | (386624.3, 3772152.3, |
| 94.3, 182.0, 0.0); | | | | |
| (386619.2, 3772140.1, | 94.7, | 182.0, | 0.0); | (386640.3, 3772163.8, |
| 93.5, 182.0, 0.0); | | | | |
| (386653.8, 3772174.7, | 93.0, | 182.0, | 0.0); | (386666.0, 3772186.3, |
| 92.7, 182.0, 0.0); | | | | |
| (386677.5, 3772197.8, | 92.5, | 182.0, | 0.0); | (386688.4, 3772208.7, |
| 92.8, 182.0, 0.0); | | | | |
| (386701.2, 3772222.2, | 93.5, | 182.0, | 0.0); | (386448.6, 3772217.7, |
| 102.7, 182.0, 0.0); | | | | |
| (386456.3, 3772212.5, | 102.4, | 182.0, | 0.0); | (386465.3, 3772206.1, |
| 102.1, 182.0, 0.0); | | | | |
| (386474.3, 3772200.4, | 101.8, | 182.0, | 0.0); | (386481.3, 3772194.6, |
| 101.5, 182.0, 0.0); | | | | |
| (386489.0, 3772190.1, | 101.2, | 182.0, | 0.0); | (386499.3, 3772183.1, |
| 100.9, 182.0, 0.0); | | | | |
| (386507.6, 3772177.9, | 100.5, | 182.0, | 0.0); | (386514.7, 3772171.5, |
| 100.3, 182.0, 0.0); | | | | |
| (386576.8, 3772219.6, | 94.6, | 182.0, | 0.0); | (386586.5, 3772209.3, |
| 94.4, 182.0, 0.0); | | | | |
| (386597.4, 3772197.8, | 94.2, | 182.0, | 0.0); | (386607.0, 3772187.5, |
| 94.0, 182.0, 0.0); | | | | |
| (386620.4, 3772178.6, | 93.9, | 182.0, | 0.0); | (386742.9, 3772003.6, |
| 94.5, 182.0, 0.0); | | | | |
| (386386.3, 3771087.3, | 144.9, | 181.0, | 0.0); | (386399.3, 3771081.5, |
| 143.9, 181.0, 0.0); | | | | |
| (386409.4, 3771067.1, | 142.4, | 181.0, | 0.0); | (385296.8, 3773132.0, |
| 117.7, 182.0, 0.0); | | | | |
| (385287.9, 3773147.0, | 117.7, | 182.0, | 0.0); | (385283.5, 3773159.4, |
| 117.2, 182.0, 0.0); | | | | |
| (385576.7, 3773089.5, | 103.9, | 182.0, | 0.0); | (385598.0, 3773060.2, |
| 104.0, 182.0, 0.0); | | | | |

*** AERMOD - VERSION 09292 ***
 *** 11/23/10
 *** 09:40:05

*** Elysian
 *** Buried PM10

PAGE 6
 **MODELOPTs: RegDFault CONC

ELEV
 NODRYPLT NOWETDPLT

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

Buried Cover PM10 Unmitigated

```

06 01 01 1 23 -36.1 0.645 -9.000 -9.000 -999. 1191. 673.0 0.65 1.00 1.00 5.90
82. 21.3 285.4 17.7
06 01 01 1 24 -35.3 0.633 -9.000 -9.000 -999. 1160. 649.7 0.65 1.00 1.00 5.80
84. 21.3 285.9 17.7

```

First hour of profile data

```

YR MO DY HR HEIGHT F WDIR WSPD AMB_TMP sigmaA sigmaW sigmaV
06 01 01 01 17.7 0 -999. -99.00 286.5 99.0 -99.00 -99.00
06 01 01 01 21.3 1 347. 0.70 -999.0 99.0 -99.00 -99.00

```

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

```

*** AERMOD - VERSION 09292 *** *** Elysian
*** 11/23/10
*** Buried PM10
*** 09:40:05

```

PAGE 9

**MODELOPTs: RegDFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

```

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR
SOURCE GROUP: SRCGP1 ***
INCLUDING SOURCE(S): PAREA3 , PAREA4 , AREA2 , AREA3

```

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM.10 IN MICROGRAMS/M**3

**

| CONC | X-COORD (M) (YYMMDDHH) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) |
|-----------|---------------------------|-------------|-----------|------------|-------------|-------------|
| 53.02296 | 386476.85 | 3771139.46 | 50.64109 | (06013124) | 386470.44 | 3771149.72 |
| 62.50308 | 386460.18 | 3771159.97 | 58.39982 | (06121424) | 386449.29 | 3771172.79 |
| 74.30628 | 386440.31 | 3771184.33 | 68.29591 | (06011024) | 386434.54 | 3771197.79 |
| 89.60945 | 386405.05 | 3771244.59 | 89.20989 | (07112824) | 386409.54 | 3771235.61 |
| 84.82619 | 386416.59 | 3771223.43 | 87.42855 | (07112824) | 386421.08 | 3771217.02 |
| 33.37432 | 386426.21 | 3771209.97 | 80.69363 | (07112824) | 386274.28 | 3771299.72 |
| 38.79286 | 386278.77 | 3771290.10 | 35.78493 | (07012224) | 386287.75 | 3771280.49 |
| 41.97659 | 386296.08 | 3771269.59 | 40.95752 | (06121224) | 386303.13 | 3771259.33 |
| 61.36344 | 386340.31 | 3771210.61 | 64.05507 | (06010824) | 386331.34 | 3771222.15 |
| 50.49897 | 386323.00 | 3771233.69 | 57.75221 | (06010924) | 386312.75 | 3771248.43 |
| 38.69240 | 386415.31 | 3771092.02 | 45.42798 | (06121424) | 386380.05 | 3771051.00 |
| 42.11635 | 386392.23 | 3771050.36 | 38.96296 | (06121424) | 386374.29 | 3771063.18 |
| 44.40487 | 386402.49 | 3771098.43 | 46.46856 | (06011024) | 386419.80 | 3771082.41 |
| 15.94687 | 386163.39 | 3771763.82 | 9.07214 | (06122924) | 386081.33 | 3771480.49 |
| 11.44157 | 386103.77 | 3771527.92 | 10.89598 | (06020224) | 386120.44 | 3771576.00 |
| 14.07121 | 386135.82 | 3771613.82 | 11.02260 | (06032524) | 386146.72 | 3771651.64 |
| 8.93909 | 386156.33 | 3771690.75 | 11.09973 | (07021824) | 386164.67 | 3771730.49 |
| 307.91306 | 386716.60 | 3772090.11 | 241.58723 | (06101524) | 386705.70 | 3772082.42 |

Buried Cover PM10 Unmitigated

| | | | | | |
|-----------|------------|-----------|------------|-----------|------------|
| 386714.67 | 3772074.72 | 287.83405 | (06101524) | 386723.00 | 3772061.90 |
| 267.72662 | (06050424) | | | | |
| 386731.99 | 3772036.90 | 314.59071 | (06103124) | 386728.13 | 3772051.01 |
| 291.81510 | (06103124) | | | | |
| 386737.11 | 3772022.15 | 289.62899 | (07080324) | 386699.29 | 3772099.08 |
| 261.17976 | (06101524) | | | | |
| 386690.31 | 3772107.42 | 241.10431 | (07090224) | 386682.62 | 3772113.83 |
| 242.35389 | (07090224) | | | | |
| 386674.29 | 3772123.44 | 239.66540 | (07090624) | 386664.67 | 3772134.34 |
| 235.80449 | (06072524) | | | | |
| 386654.42 | 3772145.24 | 227.81138 | (06072524) | 386605.70 | 3772127.29 |
| 149.83285 | (07031824) | | | | |
| 386590.95 | 3772133.70 | 99.46955 | (06042724) | 386579.42 | 3772139.47 |
| 79.77754 | (06042724) | | | | |
| 386560.18 | 3772147.16 | 58.46263 | (06042724) | 386545.44 | 3772154.85 |
| 48.45961 | (06041124) | | | | |
| 386533.26 | 3772162.54 | 43.15599 | (06041124) | 386542.88 | 3772179.85 |
| 40.00797 | (06042724) | | | | |
| 386553.13 | 3772195.88 | 40.64441 | (06051324) | 386568.52 | 3772208.70 |
| 46.24446 | (06051324) | | | | |
| 386581.98 | 3772192.67 | 55.86944 | (06051324) | 386595.44 | 3772181.13 |
| 71.25235 | (07031824) | | | | |
| 386609.54 | 3772168.95 | 108.13761 | (07031824) | 386624.29 | 3772152.29 |
| 185.08565 | (07031924) | | | | |
| 386619.16 | 3772140.11 | 193.01267 | (07031924) | 386640.31 | 3772163.83 |
| 181.02257 | (07031924) | | | | |
| 386653.77 | 3772174.72 | 171.16161 | (06072524) | 386665.95 | 3772186.26 |
| 156.77015 | (06072524) | | | | |
| 386677.49 | 3772197.80 | 140.04941 | (06072524) | 386688.39 | 3772208.70 |
| 124.22097 | (06072524) | | | | |
| 386701.21 | 3772222.16 | 105.20439 | (06072524) | 386448.64 | 3772217.67 |
| 21.36324 | (06041124) | | | | |
| 386456.34 | 3772212.55 | 22.65392 | (06041124) | 386465.31 | 3772206.13 |
| 24.28710 | (06041124) | | | | |
| 386474.29 | 3772200.37 | 26.07300 | (06041124) | 386481.34 | 3772194.60 |
| 27.69152 | (06041124) | | | | |
| 386489.03 | 3772190.11 | 29.45625 | (06041124) | 386499.29 | 3772183.06 |
| 32.18455 | (06041124) | | | | |
| 386507.62 | 3772177.93 | 34.55249 | (06041124) | 386514.67 | 3772171.52 |
| 37.24137 | (06041124) | | | | |
| 386576.85 | 3772219.60 | 43.05412 | (06051324) | 386586.47 | 3772209.34 |
| 50.29151 | (07031824) | | | | |
| 386597.36 | 3772197.80 | 67.02534 | (07031824) | 386606.98 | 3772187.54 |
| 87.32474 | (07031824) | | | | |

*** AERMOD - VERSION 09292 ***
 *** 11/23/10
 *** 09:40:05

*** Elysian
 *** Buried PM10

PAGE 10

**MODELOPTs: RegDFault CONC

ELEV
 NODRYDPLT NOWETDPLT

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: SRCGP1 *** INCLUDING SOURCE(S): PAREA3 , PAREA4 , AREA2 , AREA3

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM.10 IN MICROGRAMS/M**3

**

| CONC | X-COORD (M) (YYMMDDHH) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) |
|-----------|---------------------------|-------------|-----------|------------|-------------|-------------|
| 219.55081 | 386620.44 | 3772178.57 | 129.26463 | (07031924) | 386742.87 | 3772003.56 |
| | (07080324) | | | | | |
| 42.43191 | 386386.30 | 3771087.29 | 46.15040 | (06011024) | 386399.28 | 3771081.52 |
| | (06121424) | | | | | |

Buried Cover PM10 Unmitigated

| | | | | | | |
|--------------------------------|-------------------------|------------|-----------------|------------|-----------|------------|
| 1.44155 | 386409.38 (06120924) | 3771067.10 | 42.04566 | (06121424) | 385296.78 | 3773131.99 |
| 1.49408 | 385287.93 (06120924) | 3773147.05 | 1.46217 | (06120924) | 385283.50 | 3773159.45 |
| 1.74020 | 385576.69 (07080524) | 3773089.48 | 1.72251 | (07080524) | 385597.95 | 3773060.25 |
| 1.73538 | 385609.46 (06041124) | 3773037.22 | 1.71873 | (07080524) | 385629.84 | 3772997.36 |
| 2.08802 | 385654.64 (06041124) | 3772953.07 | 1.88291 | (06041124) | 385706.01 | 3772876.89 |
| 2.31390 | 385752.07 (06041124) | 3772808.69 | 2.23111 | (06120924) | 385816.74 | 3772724.54 |
| 3.40008 | 385886.71 (07102124) | 3772645.70 | 2.76093 | (07102124) | 385952.26 | 3772579.27 |
| 5.17645 | 386020.46 (07102124) | 3772519.04 | 4.23759 | (07102124) | 386093.98 | 3772463.23 |
| 6.24278 | 386169.27 (06041124) | 3772410.97 | 5.67547 | (07102124) | 386248.11 | 3772359.60 |
| 15.89739 | 386328.71 (06041124) | 3772309.11 | 9.70897 | (06041124) | 386407.55 | 3772253.30 |
| 22.77266 | 387116.28 (06051624) | 3772187.40 | 20.90538 | (06101524) | 387141.00 | 3772141.51 |
| 17.20587 | 387201.01 (06101524) | 3772180.34 | 16.47290 | (07082424) | 387155.12 | 3772229.77 |
| 13.29706 | 386943.29 (06101524) | 3772540.45 | 13.24783 | (06101524) | 386925.64 | 3772582.82 |
| 24.72604 | 386526.69 (06111224) | 3770944.68 | 19.39903 | (06081724) | 386466.67 | 3770937.61 |
| 19.92569 | 386537.28 (07101824) | 3770884.66 | 15.57123 | (07092524) | 386480.80 | 3770881.13 |
| 4.67831 | 387374.01 (06103024) | 3771597.81 | 12.05222 | (07080324) | 384880.19 | 3771187.72 |
| 4.57605 | 384901.45 (07012824) | 3771161.15 | 4.57429 | (06103024) | 384909.41 | 3771118.65 |
| 3.94113 | 384912.07 (07010424) | 3771078.80 | 4.25317 | (07012824) | 384920.04 | 3771052.24 |
| *** AERMOD - VERSION 09292 *** | | | *** Elysian | | | |
| *** 11/23/10 | | | *** Buried PM10 | | | |
| *** 09:40:05 | | | | | | |

PAGE 11

**MODELOPTs: RegDFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

SOURCE GROUP: ALL *** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR
INCLUDING SOURCE(S): PAREA3 , PAREA4 , AREA2 , AREA3

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

| ** CONC OF PM.10 IN MICROGRAMS/M**3 | |
|-------------------------------------|---------------------------|
| CONC | CONC |
| X-COORD (M) (YYMMDDHH) | Y-COORD (M) (YYMMDDHH) |
| 53.02296 | 386476.85 (06121424) |
| 62.50308 | 386460.18 (06121424) |
| 74.30628 | 386440.31 (06011024) |
| 89.60945 | 386405.05 (07112824) |
| 84.82619 | 386416.59 (07112824) |
| 33.37432 | 386426.21 (07012224) |

Buried Cover PM10 Unmitigated

| | | | | | | |
|-----------|------------------------|------------|-----------|------------|-----------|------------|
| 38.79286 | 386278.77 | 3771290.10 | 35.78493 | (07012224) | 386287.75 | 3771280.49 |
| 41.97659 | 386296.08 | 3771269.59 | 40.95752 | (06121224) | 386303.13 | 3771259.33 |
| 61.36344 | 386340.31 | 3771210.61 | 64.05507 | (06010824) | 386331.34 | 3771222.15 |
| 50.49897 | 386323.00 | 3771233.69 | 57.75221 | (06010924) | 386312.75 | 3771248.43 |
| 38.69240 | 386415.31 | 3771092.02 | 45.42798 | (06121424) | 386380.05 | 3771051.00 |
| 42.11635 | 386392.23 | 3771050.36 | 38.96296 | (06121424) | 386374.29 | 3771063.18 |
| 44.40487 | 386402.49 | 3771098.43 | 46.46856 | (06011024) | 386419.80 | 3771082.41 |
| 15.94687 | 386163.39 | 3771763.82 | 9.07214 | (06122924) | 386081.33 | 3771480.49 |
| 11.44157 | 386103.77 | 3771527.92 | 10.89598 | (06020224) | 386120.44 | 3771576.00 |
| 14.07121 | 386135.82 | 3771613.82 | 11.02260 | (06032524) | 386146.72 | 3771651.64 |
| 8.93909 | 386156.33 | 3771690.75 | 11.09973 | (07021824) | 386164.67 | 3771730.49 |
| 307.91306 | 386716.60 | 3772090.11 | 241.58723 | (06101524) | 386705.70 | 3772082.42 |
| 267.72662 | 386714.67 | 3772074.72 | 287.83405 | (06101524) | 386723.00 | 3772061.90 |
| 291.81510 | 386731.99 | 3772036.90 | 314.59071 | (06103124) | 386728.13 | 3772051.01 |
| 261.17976 | 386737.11 | 3772022.15 | 289.62899 | (07080324) | 386699.29 | 3772099.08 |
| 242.35389 | 386690.31 | 3772107.42 | 241.10431 | (07090224) | 386682.62 | 3772113.83 |
| 235.80449 | 386674.29 | 3772123.44 | 239.66540 | (07090624) | 386664.67 | 3772134.34 |
| 149.83285 | 386654.42 | 3772145.24 | 227.81138 | (06072524) | 386605.70 | 3772127.29 |
| 79.77754 | 386590.95 | 3772133.70 | 99.46955 | (06042724) | 386579.42 | 3772139.47 |
| 48.45961 | 386560.18 | 3772147.16 | 58.46263 | (06042724) | 386545.44 | 3772154.85 |
| 40.00797 | 386533.26 | 3772162.54 | 43.15599 | (06041124) | 386542.88 | 3772179.85 |
| 46.24446 | 386553.13 | 3772195.88 | 40.64441 | (06051324) | 386568.52 | 3772208.70 |
| 71.25235 | 386581.98 | 3772192.67 | 55.86944 | (06051324) | 386595.44 | 3772181.13 |
| 185.08565 | 386609.54 | 3772168.95 | 108.13761 | (07031824) | 386624.29 | 3772152.29 |
| 181.02257 | 386619.16 | 3772140.11 | 193.01267 | (07031924) | 386640.31 | 3772163.83 |
| 156.77015 | 386653.77 | 3772174.72 | 171.16161 | (06072524) | 386665.95 | 3772186.26 |
| 124.22097 | 386677.49 | 3772197.80 | 140.04941 | (06072524) | 386688.39 | 3772208.70 |
| 21.36324 | 386701.21 | 3772222.16 | 105.20439 | (06072524) | 386448.64 | 3772217.67 |
| 24.28710 | 386456.34 | 3772212.55 | 22.65392 | (06041124) | 386465.31 | 3772206.13 |
| 27.69152 | 386474.29 | 3772200.37 | 26.07300 | (06041124) | 386481.34 | 3772194.60 |
| 32.18455 | 386489.03 | 3772190.11 | 29.45625 | (06041124) | 386499.29 | 3772183.06 |
| 37.24137 | 386507.62 | 3772177.93 | 34.55249 | (06041124) | 386514.67 | 3772171.52 |
| 50.29151 | 386576.85 | 3772219.60 | 43.05412 | (06051324) | 386586.47 | 3772209.34 |
| 87.32474 | 386597.36 | 3772197.80 | 67.02534 | (07031824) | 386606.98 | 3772187.54 |
| *** | AERMOD - VERSION 09292 | *** | *** | Elysian | | |
| *** | 11/23/10 | | | | | |

Buried Cover PM10 Unmitigated

*** Buried PM10

*** 09:40:05

PAGE 12

**MODELOPTs: RegDFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

SOURCE GROUP: ALL *** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR
INCLUDING SOURCE(S): PAREA3 , PAREA4 , AREA2 , AREA3

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM.10 IN MICROGRAMS/M**3

**

| CONC | X-COORD (M) (YYMMDDHH) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) |
|-----------|---------------------------|-------------|-----------|------------|-------------|-------------|
| 219.55081 | 386620.44 (07080324) | 3772178.57 | 129.26463 | (07031924) | 386742.87 | 3772003.56 |
| 42.43191 | 386386.30 (06121424) | 3771087.29 | 46.15040 | (06011024) | 386399.28 | 3771081.52 |
| 1.44155 | 386409.38 (06120924) | 3771067.10 | 42.04566 | (06121424) | 385296.78 | 3773131.99 |
| 1.49408 | 385287.93 (06120924) | 3773147.05 | 1.46217 | (06120924) | 385283.50 | 3773159.45 |
| 1.74020 | 385576.69 (07080524) | 3773089.48 | 1.72251 | (07080524) | 385597.95 | 3773060.25 |
| 1.73538 | 385609.46 (06041124) | 3773037.22 | 1.71873 | (07080524) | 385629.84 | 3772997.36 |
| 2.08802 | 385654.64 (06041124) | 3772953.07 | 1.88291 | (06041124) | 385706.01 | 3772876.89 |
| 2.31390 | 385752.07 (06041124) | 3772808.69 | 2.23111 | (06120924) | 385816.74 | 3772724.54 |
| 3.40008 | 385886.71 (07102124) | 3772645.70 | 2.76093 | (07102124) | 385952.26 | 3772579.27 |
| 5.17645 | 386020.46 (07102124) | 3772519.04 | 4.23759 | (07102124) | 386093.98 | 3772463.23 |
| 6.24278 | 386169.27 (06041124) | 3772410.97 | 5.67547 | (07102124) | 386248.11 | 3772359.60 |
| 15.89739 | 386328.71 (06041124) | 3772309.11 | 9.70897 | (06041124) | 386407.55 | 3772253.30 |
| 22.77266 | 387116.28 (06051624) | 3772187.40 | 20.90538 | (06101524) | 387141.00 | 3772141.51 |
| 17.20587 | 387201.01 (06101524) | 3772180.34 | 16.47290 | (07082424) | 387155.12 | 3772229.77 |
| 13.29706 | 386943.29 (06101524) | 3772540.45 | 13.24783 | (06101524) | 386925.64 | 3772582.82 |
| 24.72604 | 386526.69 (06111224) | 3770944.68 | 19.39903 | (06081724) | 386466.67 | 3770937.61 |
| 19.92569 | 386537.28 (07101824) | 3770884.66 | 15.57123 | (07092524) | 386480.80 | 3770881.13 |
| 4.67831 | 387374.01 (06103024) | 3771597.81 | 12.05222 | (07080324) | 384880.19 | 3771187.72 |
| 4.57605 | 384901.45 (07012824) | 3771161.15 | 4.57429 | (06103024) | 384909.41 | 3771118.65 |
| 3.94113 | 384912.07 (07010424) | 3771078.80 | 4.25317 | (07012824) | 384920.04 | 3771052.24 |

*** AERMOD - VERSION 09292 ***
*** 11/23/10

*** Elysian

*** Buried PM10

*** 09:40:05

PAGE 13

**MODELOPTs: RegDFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

*** THE SUMMARY OF HIGHEST 24-HR RESULTS ***

Buried Cover PM10 Unmitigated

```

**
** CONC OF PM.10 IN MICROGRAMS/M**3
**
NETWORK
GROUP ID AVERAGE CONC DATE RECEPTOR (XR, YR,
ZELEV, ZHILL, ZFLAG) OF TYPE GRID-ID
-----
SRCGP1 HIGH 1ST HIGH VALUE IS 314.59071 ON 06103124: AT ( 386731.99, 3772036.90,
94.04, 182.00, 0.00) DC
ALL HIGH 1ST HIGH VALUE IS 314.59071 ON 06103124: AT ( 386731.99, 3772036.90,
94.04, 182.00, 0.00) DC

```

```

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR
*** AERMOD - VERSION 09292 *** *** Elysian
*** 11/23/10
*** Buried PM10
*** 09:40:05

```

```

PAGE 14
**MODELOPTs: RegDFAULT CONC
ELEV
NODRYDPLT NOWETDPLT

```

```

*** Message Summary : AERMOD Model Execution ***
----- Summary of Total Messages -----
A Total of 0 Fatal Error Message(s)
A Total of 0 Warning Message(s)
A Total of 113 Informational Message(s)
A Total of 17520 Hours Were Processed
A Total of 0 Calm Hours Identified
A Total of 113 Missing Hours Identified ( 0.64 Percent)

```

```

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

```

```

***** WARNING MESSAGES *****
*** NONE ***

```

```

*****
*** AERMOD Finishes Successfully ***
*****

```

Buried Cover NO2 Unmitigated

```
**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 6.7.1
** Lakes Environmental Software Inc.
** Date: 11/23/2010
** File: C:\Documents and Settings\jbailey\Desktop\Elysian Park AerMod\elysian\Bur_NO2.ADI
**
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**
CO STARTING
  TITLEONE Elysian
  TITLETWO Buried NO2
  MODELOPT DFAULT CONC NODRYDPLT NOWETDPLT
  AVERTIME 1
  URBANOPT 9862049 LA
  POLLUTID NOX
  RUNORNOT RUN
CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
  LOCATION PAREA3 AREAPOLY 386606.494 3771295.572 139.670
** DESCRSRC Reservoir
  LOCATION PAREA4 AREAPOLY 386598.189 3772118.131 96.350
** DESCRSRC Caltrans
** Source Parameters **
  SRCPARAM PAREA3 5.6813E-06 5.000 18
  AREAVERT PAREA3 386606.494 3771295.572 386560.430 3771386.706
  AREAVERT PAREA3 386502.641 3771467.538 386454.064 3771523.011
  AREAVERT PAREA3 386432.288 3771547.577 386455.739 3771575.313
  AREAVERT PAREA3 386485.890 3771583.238 386543.680 3771557.879
  AREAVERT PAREA3 386593.931 3771507.954 386619.057 3771483.387
  AREAVERT PAREA3 386650.046 3771442.179 386660.096 3771427.914
  AREAVERT PAREA3 386676.847 3771408.103 386688.572 3771388.291
  AREAVERT PAREA3 386676.847 3771361.347 386655.909 3771323.308
  AREAVERT PAREA3 386640.833 3771309.044 386614.032 3771295.572
  SRCPARAM PAREA4 0.0000213944 5.000 14
  AREAVERT PAREA4 386598.189 3772118.131 386582.499 3772090.138
  AREAVERT PAREA4 386633.724 3772053.797 386639.492 3772051.587
  AREAVERT PAREA4 386653.798 3772051.341 386669.719 3772039.800
  AREAVERT PAREA4 386684.025 3772011.316 386695.331 3771993.391
  AREAVERT PAREA4 386697.639 3771989.462 386718.867 3771999.775
  AREAVERT PAREA4 386698.331 3772048.886 386685.179 3772065.583
  AREAVERT PAREA4 386673.872 3772076.387 386653.567 3772089.647
  URBANSRC PAREA3
  URBANSRC PAREA4
  CONCUNIT 531.5 GRAMS/SEC PPM
  SRCGROUP SRCGP1 PAREA4 PAREA3
  SRCGROUP ALL
SO FINISHED
**
*****
** AERMOD Receptor Pathway
*****
**
**
RE STARTING
```

Buried Cover NO2 Unmitigated

```

INCLUDED Bur_NO2.rou
RE FINISHED
**
*****
** AERMOD Meteorology Pathway
*****
**
**
ME STARTING
SURFFILE "L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\cela.SFC"
PROFFILE "L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\cela.PFL"
SURFDATA 0 2006
UAIRDATA 3190 2006
PROFBASE 10 METERS
ME FINISHED
**
*****
** AERMOD Output Pathway
*****
**
**
OU STARTING
RECTABLE ALLAVE 1ST
RECTABLE 1 1ST
** Auto-Generated Plotfiles
PLOTFILE 1 ALL 1ST BUR_NO2.AD\01H1GALL.PLT
PLOTFILE 1 SRCGP1 1ST BUR_NO2.AD\01H1G001.PLT
OU FINISHED

*****
*** SETUP Finishes Successfully ***
*****

*** AERMOD - VERSION 09292 ***      *** Elysian
***      11/23/10
***                               *** Buried NO2

***      09:31:37

```

```

PAGE 1
**MODELOPTs:  RegDFault CONC
                                                    ELEV
                                                    NODRYDPLT NOWETDPLT

***      MODEL SETUP OPTIONS SUMMARY      ***
-----
**Model Is Setup For Calculation of Average CONCentration Values.

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

**Model Uses URBAN Dispersion Algorithm for the SBL for      2 Source(s),
for Total of      1 Urban Area(s):
Urban Population =  9862049.0 ; Urban Roughness Length =  1.000 m

**Model Uses Regulatory DEFAULT Options:
1. Stack-tip Downwash.
2. Model Accounts for ELEVated Terrain Effects.
3. Use Calms Processing Routine.
4. Use Missing Data Processing Routine.
5. No Exponential Decay for URBAN/Non-SO2.
6. Urban Roughness Length of 1.0 Meter Assumed.

**Model Assumes No FLAGPOLE Receptor Heights.

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

**This Run Includes:      2 Source(s);      2 Source Group(s); and      120 Receptor(s)

```

Buried Cover NO2 Unmitigated

**The Model Assumes A Pollutant Type of: NOX

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

**Output Options Selected:

Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
 Model Outputs External File(s) of High Values for Plotting (PLOTFILE 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) = 10.00 ; Decay Coef. = 0.000
 ; Rot. Angle = 0.0
 Emission Units = GRAMS/SEC ; Emission Rate
 Unit Factor = 531.50
 Output Units = PPM

**Approximate Storage Requirements of Model = 3.5 MB of RAM.

*** AERMOD - VERSION 09292 *** *** Elysian
 *** 11/23/10
 *** Buried NO2
 *** 09:31:37

PAGE 2

**MODELOPTs: RegDFAULT CONC ELEV
 NODRYDPLT NOWETDPLT

*** AREAPOLY SOURCE DATA ***

| URBAN SOURCE | EMISSION RATE | NUMBER | EMISSION RATE | LOCATION OF AREA | BASE | RELEASE | NUMBER | INIT. |
|---------------|---------------|--------------|---------------|------------------|----------|----------|-----------|----------|
| SOURCE SCALAR | PART. VARY | (USER UNITS) | (USER UNITS) | X Y | ELEV. | HEIGHT | OF VERTS. | SZ |
| ID | CATS. | /METER**2) | (METERS) | (METERS) | (METERS) | (METERS) | (METERS) | (METERS) |

| | | | | | | | | |
|------------|---|-------------|----------|-----------|-------|------|----|------|
| PAREA3 | 0 | 0.56813E-05 | 386606.5 | 3771295.6 | 139.7 | 5.00 | 18 | 0.00 |
| YES PAREA4 | 0 | 0.21394E-04 | 386598.2 | 3772118.1 | 96.3 | 5.00 | 14 | 0.00 |

YES
 *** AERMOD - VERSION 09292 *** *** Elysian
 *** 11/23/10
 *** Buried NO2
 *** 09:31:37

PAGE 3

**MODELOPTs: RegDFAULT CONC ELEV
 NODRYDPLT NOWETDPLT

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID SOURCE IDs

SRCGP1 PAREA3 , PAREA4 ,

ALL PAREA3 , PAREA4 ,
 *** AERMOD - VERSION 09292 *** *** Elysian
 *** 11/23/10
 *** Buried NO2
 *** 09:31:37

Buried Cover NO2 Unmitigated

PAGE 4

**MODELOPTs: RegDFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

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

| | | | | |
|------------------------|--------|--------|-------|------------------------|
| (386476.8, 3771139.5, | 143.3, | 181.0, | 0.0); | (386470.4, 3771149.7, |
| 144.2, 181.0, 0.0); | | | | |
| (386460.2, 3771160.0, | 145.3, | 181.0, | 0.0); | (386449.3, 3771172.8, |
| 146.6, 181.0, 0.0); | | | | |
| (386440.3, 3771184.3, | 147.6, | 181.0, | 0.0); | (386434.5, 3771197.8, |
| 148.6, 181.0, 0.0); | | | | |
| (386405.0, 3771244.6, | 152.9, | 181.0, | 0.0); | (386409.5, 3771235.6, |
| 151.9, 181.0, 0.0); | | | | |
| (386416.6, 3771223.4, | 150.9, | 181.0, | 0.0); | (386421.1, 3771217.0, |
| 150.3, 181.0, 0.0); | | | | |
| (386426.2, 3771210.0, | 149.6, | 181.0, | 0.0); | (386274.3, 3771299.7, |
| 168.1, 181.0, 0.0); | | | | |
| (386278.8, 3771290.1, | 167.4, | 181.0, | 0.0); | (386287.8, 3771280.5, |
| 166.6, 181.0, 0.0); | | | | |
| (386296.1, 3771269.6, | 164.9, | 181.0, | 0.0); | (386303.1, 3771259.3, |
| 163.5, 181.0, 0.0); | | | | |
| (386340.3, 3771210.6, | 155.9, | 181.0, | 0.0); | (386331.3, 3771222.1, |
| 157.6, 181.0, 0.0); | | | | |
| (386323.0, 3771233.7, | 159.3, | 181.0, | 0.0); | (386312.8, 3771248.4, |
| 161.6, 181.0, 0.0); | | | | |
| (386415.3, 3771092.0, | 143.8, | 181.0, | 0.0); | (386380.0, 3771051.0, |
| 142.9, 164.0, 0.0); | | | | |
| (386392.2, 3771050.4, | 142.2, | 181.0, | 0.0); | (386374.3, 3771063.2, |
| 144.0, 164.0, 0.0); | | | | |
| (386402.5, 3771098.4, | 144.8, | 181.0, | 0.0); | (386419.8, 3771082.4, |
| 142.9, 181.0, 0.0); | | | | |
| (386163.4, 3771763.8, | 182.0, | 182.0, | 0.0); | (386081.3, 3771480.5, |
| 178.0, 178.0, 0.0); | | | | |
| (386103.8, 3771527.9, | 179.8, | 179.8, | 0.0); | (386120.4, 3771576.0, |
| 181.1, 181.1, 0.0); | | | | |
| (386135.8, 3771613.8, | 182.0, | 182.0, | 0.0); | (386146.7, 3771651.6, |
| 182.0, 182.0, 0.0); | | | | |
| (386156.3, 3771690.8, | 182.0, | 182.0, | 0.0); | (386164.7, 3771730.5, |
| 182.0, 182.0, 0.0); | | | | |
| (386716.6, 3772090.1, | 93.4, | 182.0, | 0.0); | (386705.7, 3772082.4, |
| 93.0, 182.0, 0.0); | | | | |
| (386714.7, 3772074.7, | 93.3, | 182.0, | 0.0); | (386723.0, 3772061.9, |
| 93.7, 182.0, 0.0); | | | | |
| (386732.0, 3772036.9, | 94.0, | 182.0, | 0.0); | (386728.1, 3772051.0, |
| 93.9, 182.0, 0.0); | | | | |
| (386737.1, 3772022.1, | 94.2, | 182.0, | 0.0); | (386699.3, 3772099.1, |
| 92.7, 182.0, 0.0); | | | | |
| (386690.3, 3772107.4, | 92.4, | 182.0, | 0.0); | (386682.6, 3772113.8, |
| 92.1, 182.0, 0.0); | | | | |
| (386674.3, 3772123.4, | 92.3, | 182.0, | 0.0); | (386664.7, 3772134.3, |
| 92.8, 182.0, 0.0); | | | | |
| (386654.4, 3772145.2, | 93.1, | 182.0, | 0.0); | (386605.7, 3772127.3, |
| 95.6, 182.0, 0.0); | | | | |
| (386591.0, 3772133.7, | 96.5, | 182.0, | 0.0); | (386579.4, 3772139.5, |
| 97.2, 182.0, 0.0); | | | | |
| (386560.2, 3772147.2, | 98.4, | 182.0, | 0.0); | (386545.4, 3772154.8, |
| 99.0, 182.0, 0.0); | | | | |
| (386533.3, 3772162.5, | 99.5, | 182.0, | 0.0); | (386542.9, 3772179.8, |
| 98.2, 182.0, 0.0); | | | | |
| (386553.1, 3772195.9, | 96.9, | 182.0, | 0.0); | (386568.5, 3772208.7, |
| 95.5, 182.0, 0.0); | | | | |
| (386582.0, 3772192.7, | 95.3, | 182.0, | 0.0); | (386595.4, 3772181.1, |
| 94.8, 182.0, 0.0); | | | | |
| (386609.5, 3772168.9, | 94.5, | 182.0, | 0.0); | (386624.3, 3772152.3, |
| 94.3, 182.0, 0.0); | | | | |
| (386619.2, 3772140.1, | 94.7, | 182.0, | 0.0); | (386640.3, 3772163.8, |
| 93.5, 182.0, 0.0); | | | | |

Buried Cover NO2 Unmitigated

| | | | | |
|--------------------------------|----------------|--------|-------|------------------------|
| (386653.8, 3772174.7, | 93.0, | 182.0, | 0.0); | (386666.0, 3772186.3, |
| 92.7, 182.0, 0.0); | | | | |
| (386677.5, 3772197.8, | 92.5, | 182.0, | 0.0); | (386688.4, 3772208.7, |
| 92.8, 182.0, 0.0); | | | | |
| (386701.2, 3772222.2, | 93.5, | 182.0, | 0.0); | (386448.6, 3772217.7, |
| 102.7, 182.0, 0.0); | | | | |
| (386456.3, 3772212.5, | 102.4, | 182.0, | 0.0); | (386465.3, 3772206.1, |
| 102.1, 182.0, 0.0); | | | | |
| (386474.3, 3772200.4, | 101.8, | 182.0, | 0.0); | (386481.3, 3772194.6, |
| 101.5, 182.0, 0.0); | | | | |
| (386489.0, 3772190.1, | 101.2, | 182.0, | 0.0); | (386499.3, 3772183.1, |
| 100.9, 182.0, 0.0); | | | | |
| (386507.6, 3772177.9, | 100.5, | 182.0, | 0.0); | (386514.7, 3772171.5, |
| 100.3, 182.0, 0.0); | | | | |
| (386576.8, 3772219.6, | 94.6, | 182.0, | 0.0); | (386586.5, 3772209.3, |
| 94.4, 182.0, 0.0); | | | | |
| (386597.4, 3772197.8, | 94.2, | 182.0, | 0.0); | (386607.0, 3772187.5, |
| 94.0, 182.0, 0.0); | | | | |
| (386620.4, 3772178.6, | 93.9, | 182.0, | 0.0); | (386742.9, 3772003.6, |
| 94.5, 182.0, 0.0); | | | | |
| (386386.3, 3771087.3, | 144.9, | 181.0, | 0.0); | (386399.3, 3771081.5, |
| 143.9, 181.0, 0.0); | | | | |
| (386409.4, 3771067.1, | 142.4, | 181.0, | 0.0); | (385296.8, 3773132.0, |
| 117.7, 182.0, 0.0); | | | | |
| (385287.9, 3773147.0, | 117.7, | 182.0, | 0.0); | (385283.5, 3773159.4, |
| 117.2, 182.0, 0.0); | | | | |
| (385576.7, 3773089.5, | 103.9, | 182.0, | 0.0); | (385598.0, 3773060.2, |
| 104.0, 182.0, 0.0); | | | | |
| *** AERMOD - VERSION 09292 *** | *** Elysian | | | |
| *** 11/23/10 | *** Buried NO2 | | | |
| *** 09:31:37 | | | | |

PAGE 5

**MODELOPTs: RegDFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

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

| | | | | |
|------------------------|--------|--------|-------|------------------------|
| (385609.5, 3773037.2, | 104.5, | 182.0, | 0.0); | (385629.8, 3772997.4, |
| 105.3, 182.0, 0.0); | | | | |
| (385654.6, 3772953.1, | 106.0, | 182.0, | 0.0); | (385706.0, 3772876.9, |
| 106.7, 182.0, 0.0); | | | | |
| (385752.1, 3772808.7, | 107.3, | 182.0, | 0.0); | (385816.7, 3772724.5, |
| 108.9, 182.0, 0.0); | | | | |
| (385886.7, 3772645.7, | 110.4, | 182.0, | 0.0); | (385952.3, 3772579.3, |
| 111.3, 182.0, 0.0); | | | | |
| (386020.5, 3772519.0, | 111.7, | 182.0, | 0.0); | (386094.0, 3772463.2, |
| 111.1, 182.0, 0.0); | | | | |
| (386169.3, 3772411.0, | 110.4, | 182.0, | 0.0); | (386248.1, 3772359.6, |
| 108.8, 182.0, 0.0); | | | | |
| (386328.7, 3772309.1, | 105.9, | 182.0, | 0.0); | (386407.5, 3772253.3, |
| 103.3, 182.0, 0.0); | | | | |
| (387116.3, 3772187.4, | 108.2, | 182.0, | 0.0); | (387141.0, 3772141.5, |
| 108.9, 108.9, 0.0); | | | | |
| (387201.0, 3772180.3, | 110.6, | 182.0, | 0.0); | (387155.1, 3772229.8, |
| 110.0, 182.0, 0.0); | | | | |
| (386943.3, 3772540.4, | 102.9, | 243.0, | 0.0); | (386925.6, 3772582.8, |
| 102.9, 243.0, 0.0); | | | | |
| (386526.7, 3770944.7, | 129.0, | 131.0, | 0.0); | (386466.7, 3770937.6, |
| 131.1, 131.1, 0.0); | | | | |
| (386537.3, 3770884.7, | 123.8, | 123.8, | 0.0); | (386480.8, 3770881.1, |
| 125.8, 125.8, 0.0); | | | | |
| (387374.0, 3771597.8, | 112.1, | 112.1, | 0.0); | (384880.2, 3771187.7, |
| 166.9, 166.9, 0.0); | | | | |
| (384901.5, 3771161.1, | 167.0, | 167.0, | 0.0); | (384909.4, 3771118.6, |
| 165.9, 165.9, 0.0); | | | | |
| (384912.1, 3771078.8, | 164.8, | 164.8, | 0.0); | (384920.0, 3771052.2, |
| 164.2, 164.2, 0.0); | | | | |

Buried Cover NO2 Unmitigated

| | | | | | | | | | | | | | | | |
|------|------|-------|---|------|-------|-------|--------|--------|-------|-------|---------|------|------|------|------|
| 06 | 01 | 01 | 1 | 04 | -1.9 | 0.069 | -9.000 | -9.000 | -999. | 41. | 15.2 | 0.65 | 1.00 | 1.00 | 1.20 |
| 23. | 21.3 | 285.9 | | 17.7 | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 05 | -3.5 | 0.080 | -9.000 | -9.000 | -999. | 52. | 13.1 | 0.65 | 1.00 | 1.00 | 1.40 |
| 61. | 21.3 | 285.4 | | 17.7 | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 06 | -3.0 | 0.086 | -9.000 | -9.000 | -999. | 58. | 19.0 | 0.65 | 1.00 | 1.00 | 1.50 |
| 83. | 21.3 | 285.4 | | 17.7 | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 07 | -6.1 | 0.103 | -9.000 | -9.000 | -999. | 76. | 16.2 | 0.65 | 1.00 | 1.00 | 1.80 |
| 64. | 21.3 | 285.4 | | 17.7 | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 08 | -3.3 | 0.080 | -9.000 | -9.000 | -999. | 52. | 14.1 | 0.65 | 1.00 | 0.55 | 1.40 |
| 46. | 21.3 | 285.4 | | 17.7 | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 09 | 26.6 | 0.304 | 0.644 | 0.005 | 362. | 385. | -95.4 | 0.65 | 1.00 | 0.32 | 2.30 |
| 87. | 21.3 | 286.4 | | 17.7 | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 10 | 21.0 | 0.227 | 0.732 | 0.005 | 675. | 250. | -50.2 | 0.65 | 1.00 | 0.24 | 1.60 |
| 76. | 21.3 | 286.4 | | 17.7 | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 11 | 35.8 | 0.197 | 0.912 | 0.005 | 766. | 201. | -19.2 | 0.65 | 1.00 | 0.21 | 1.20 |
| 66. | 21.3 | 287.5 | | 17.7 | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 12 | 14.9 | 0.281 | 0.686 | 0.005 | 785. | 343. | -135.5 | 0.65 | 1.00 | 0.20 | 2.20 |
| 79. | 21.3 | 287.5 | | 17.7 | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 13 | 26.4 | 0.376 | 0.842 | 0.009 | 818. | 530. | -181.6 | 0.65 | 1.00 | 0.20 | 3.00 |
| 76. | 21.3 | 287.5 | | 17.7 | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 14 | 39.0 | 0.385 | 0.979 | 0.014 | 867. | 549. | -131.8 | 0.65 | 1.00 | 0.21 | 3.00 |
| 80. | 21.3 | 288.1 | | 17.7 | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 15 | 11.4 | 0.277 | 0.653 | 0.014 | 881. | 341. | -168.4 | 0.65 | 1.00 | 0.25 | 2.20 |
| 86. | 21.3 | 287.5 | | 17.7 | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 16 | 0.1 | 0.343 | 0.135 | 0.014 | 881. | 462. | -8888.0 | 0.65 | 1.00 | 0.33 | 3.00 |
| 75. | 21.3 | 287.0 | | 17.7 | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 17 | -13.7 | 0.266 | -9.000 | -9.000 | -999. | 319. | 125.0 | 0.65 | 1.00 | 0.60 | 2.90 |
| 82. | 21.3 | 286.4 | | 17.7 | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 18 | -10.2 | 0.183 | -9.000 | -9.000 | -999. | 183. | 54.5 | 0.65 | 1.00 | 1.00 | 2.50 |
| 101. | 21.3 | 286.4 | | 17.7 | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 19 | -16.1 | 0.289 | -9.000 | -9.000 | -999. | 358. | 135.6 | 0.65 | 1.00 | 1.00 | 3.10 |
| 97. | 21.3 | 285.9 | | 17.7 | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 20 | -25.2 | 0.450 | -9.000 | -9.000 | -999. | 693. | 326.1 | 0.65 | 1.00 | 1.00 | 4.30 |
| 92. | 21.3 | 284.9 | | 17.7 | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 21 | -27.3 | 0.487 | -9.000 | -9.000 | -999. | 781. | 381.9 | 0.65 | 1.00 | 1.00 | 4.60 |
| 88. | 21.3 | 284.2 | | 17.7 | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 22 | -28.0 | 0.499 | -9.000 | -9.000 | -999. | 812. | 402.5 | 0.65 | 1.00 | 1.00 | 4.70 |
| 91. | 21.3 | 284.9 | | 17.7 | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 23 | -36.1 | 0.645 | -9.000 | -9.000 | -999. | 1191. | 673.0 | 0.65 | 1.00 | 1.00 | 5.90 |
| 82. | 21.3 | 285.4 | | 17.7 | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 24 | -35.3 | 0.633 | -9.000 | -9.000 | -999. | 1160. | 649.7 | 0.65 | 1.00 | 1.00 | 5.80 |
| 84. | 21.3 | 285.9 | | 17.7 | | | | | | | | | | | |

First hour of profile data

| YR | MO | DY | HR | HEIGHT | F | WDIR | WSPD | AMB_TMP | sigmaA | sigmaW | sigmaV |
|----|----|----|----|--------|---|-------|--------|---------|--------|--------|--------|
| 06 | 01 | 01 | 01 | 17.7 | 0 | -999. | -99.00 | 286.5 | 99.0 | -99.00 | -99.00 |
| 06 | 01 | 01 | 01 | 21.3 | 1 | 347. | 0.70 | -999.0 | 99.0 | -99.00 | -99.00 |

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

*** AERMOD - VERSION 09292 *** *** Elysian
 *** 11/23/10 *** Buried NO2
 *** 09:31:37

PAGE 8

**MODELOPTs: RegDFAULT CONC

ELEV
 NODRYDPLT NOWETDPLT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: SRCGP1 ***
 INCLUDING SOURCE(S): PAREA3 , PAREA4 ,
 *** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF NOX IN PPM

X-COORD (M) Y-COORD (M) CONC (YYMMDDHH) X-COORD (M) Y-COORD (M)
 CONC (YYMMDDHH)

Buried Cover NO2 Unmitigated

| | | | | | | |
|---------|-------------------------|------------|---------|------------|-----------|------------|
| 0.02121 | 386476.85 (06110221) | 3771139.46 | 0.02153 | (06110221) | 386470.44 | 3771149.72 |
| 0.01977 | 386460.18 (07082906) | 3771159.97 | 0.02051 | (06110221) | 386449.29 | 3771172.79 |
| 0.01877 | 386440.31 (07082906) | 3771184.33 | 0.01918 | (07082906) | 386434.54 | 3771197.79 |
| 0.01636 | 386405.05 (06091823) | 3771244.59 | 0.01594 | (07110406) | 386409.54 | 3771235.61 |
| 0.01748 | 386416.59 (07082906) | 3771223.43 | 0.01696 | (07082906) | 386421.08 | 3771217.02 |
| 0.00945 | 386426.21 (07120322) | 3771209.97 | 0.01802 | (07082906) | 386274.28 | 3771299.72 |
| 0.00999 | 386278.77 (07110406) | 3771290.10 | 0.00965 | (07110406) | 386287.75 | 3771280.49 |
| 0.01091 | 386296.08 (07110406) | 3771269.59 | 0.01047 | (07110406) | 386303.13 | 3771259.33 |
| 0.01262 | 386340.31 (07110406) | 3771210.61 | 0.01306 | (07110406) | 386331.34 | 3771222.15 |
| 0.01148 | 386323.00 (07110406) | 3771233.69 | 0.01214 | (07110406) | 386312.75 | 3771248.43 |
| 0.01481 | 386415.31 (06091823) | 3771092.02 | 0.01704 | (07082906) | 386380.05 | 3771051.00 |
| 0.01467 | 386392.23 (06091823) | 3771050.36 | 0.01553 | (07082906) | 386374.29 | 3771063.18 |
| 0.01724 | 386402.49 (07082906) | 3771098.43 | 0.01626 | (07082906) | 386419.80 | 3771082.41 |
| 0.00854 | 386163.39 (07050824) | 3771763.82 | 0.00957 | (07061204) | 386081.33 | 3771480.49 |
| 0.00975 | 386103.77 (06083124) | 3771527.92 | 0.00829 | (07050824) | 386120.44 | 3771576.00 |
| 0.01072 | 386135.82 (06030702) | 3771613.82 | 0.00993 | (06083124) | 386146.72 | 3771651.64 |
| 0.00956 | 386156.33 (07061204) | 3771690.75 | 0.01062 | (06030702) | 386164.67 | 3771730.49 |
| 0.06755 | 386716.60 (07071406) | 3772090.11 | 0.05991 | (07063006) | 386705.70 | 3772082.42 |
| 0.07342 | 386714.67 (07071406) | 3772074.72 | 0.07221 | (07071406) | 386723.00 | 3772061.90 |
| 0.08650 | 386731.99 (07030522) | 3772036.90 | 0.09149 | (07030522) | 386728.13 | 3772051.01 |
| 0.05714 | 386737.11 (07063006) | 3772022.15 | 0.08839 | (06111820) | 386699.29 | 3772099.08 |
| 0.05565 | 386690.31 (07020104) | 3772107.42 | 0.05465 | (07020104) | 386682.62 | 3772113.83 |
| 0.05612 | 386674.29 (07020103) | 3772123.44 | 0.05584 | (07020103) | 386664.67 | 3772134.34 |
| 0.09044 | 386654.42 (07070805) | 3772145.24 | 0.05640 | (07020103) | 386605.70 | 3772127.29 |
| 0.09713 | 386590.95 (06122919) | 3772133.70 | 0.09917 | (06122919) | 386579.42 | 3772139.47 |
| 0.06339 | 386560.18 (06122919) | 3772147.16 | 0.07969 | (06122919) | 386545.44 | 3772154.85 |
| 0.05904 | 386533.26 (06122919) | 3772162.54 | 0.05253 | (06122919) | 386542.88 | 3772179.85 |
| 0.04811 | 386553.13 (07121620) | 3772195.88 | 0.04769 | (07121620) | 386568.52 | 3772208.70 |
| 0.05369 | 386581.98 (07121620) | 3772192.67 | 0.05307 | (07121620) | 386595.44 | 3772181.13 |
| 0.06014 | 386609.54 (07020103) | 3772168.95 | 0.05528 | (07111522) | 386624.29 | 3772152.29 |
| 0.05512 | 386619.16 (07020103) | 3772140.11 | 0.06978 | (07081406) | 386640.31 | 3772163.83 |
| 0.04640 | 386653.77 (07020104) | 3772174.72 | 0.05051 | (07020103) | 386665.95 | 3772186.26 |
| 0.03987 | 386677.49 (07082624) | 3772197.80 | 0.04223 | (07020104) | 386688.39 | 3772208.70 |
| 0.02428 | 386701.21 (07061204) | 3772222.16 | 0.03748 | (07082624) | 386448.64 | 3772217.67 |

Buried Cover NO2 Unmitigated

| | | | | | | |
|---------|-------------------------|------------|---------|------------|-----------|------------|
| 0.02714 | 386456.34 (07061204) | 3772212.55 | 0.02550 | (07061204) | 386465.31 | 3772206.13 |
| 0.03060 | 386474.29 (07061204) | 3772200.37 | 0.02886 | (07061204) | 386481.34 | 3772194.60 |
| 0.03408 | 386489.03 (07061204) | 3772190.11 | 0.03119 | (07061204) | 386499.29 | 3772183.06 |
| 0.03971 | 386507.62 (07061204) | 3772177.93 | 0.03661 | (07041701) | 386514.67 | 3772171.52 |
| 0.04159 | 386576.85 (07121620) | 3772219.60 | 0.04089 | (07121620) | 386586.47 | 3772209.34 |
| 0.04734 | 386597.36 (07111522) | 3772197.80 | 0.04370 | (07081406) | 386606.98 | 3772187.54 |

*** AERMOD - VERSION 09292 ***
 *** 11/23/10
 *** 09:31:37

*** Elysian
 *** Buried NO2

PAGE 9

**MODELOPTs: RegDFAULT CONC

ELEV
 NODRYDPLT NOWETDPLT

SOURCE GROUP: SRCGP1 ***
 *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 INCLUDING SOURCE(S): PAREA3 , PAREA4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

| | | ** CONC OF NOX | | IN PPM | | |
|---------|---------------------------|----------------|---------|------------|-------------|-------------|
| CONC | X-COORD (M) (YYMMDDHH) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) |
| 0.09082 | 386620.44 (06110320) | 3772178.57 | 0.05103 | (07020103) | 386742.87 | 3772003.56 |
| 0.01601 | 386386.30 (07082906) | 3771087.29 | 0.01525 | (06091823) | 386399.28 | 3771081.52 |
| 0.00213 | 386409.38 (07060324) | 3771067.10 | 0.01657 | (07082906) | 385296.78 | 3773131.99 |
| 0.00209 | 385287.93 (07101501) | 3773147.05 | 0.00210 | (07060324) | 385283.50 | 3773159.45 |
| 0.00267 | 385576.69 (07041701) | 3773089.48 | 0.00260 | (07041701) | 385597.95 | 3773060.25 |
| 0.00277 | 385609.46 (07041701) | 3773037.22 | 0.00271 | (07041701) | 385629.84 | 3772997.36 |
| 0.00303 | 385654.64 (07121620) | 3772953.07 | 0.00282 | (07041701) | 385706.01 | 3772876.89 |
| 0.00369 | 385752.07 (07121620) | 3772808.69 | 0.00327 | (07121620) | 385816.74 | 3772724.54 |
| 0.00490 | 385886.71 (07061204) | 3772645.70 | 0.00421 | (07061204) | 385952.26 | 3772579.27 |
| 0.00667 | 386020.46 (07061204) | 3772519.04 | 0.00567 | (07061204) | 386093.98 | 3772463.23 |
| 0.01002 | 386169.27 (07061204) | 3772410.97 | 0.00803 | (07061204) | 386248.11 | 3772359.60 |
| 0.01853 | 386328.71 (07061204) | 3772309.11 | 0.01305 | (07061204) | 386407.55 | 3772253.30 |
| 0.01338 | 387116.28 (06062804) | 3772187.40 | 0.01339 | (07070102) | 387141.00 | 3772141.51 |
| 0.01132 | 387201.01 (07070102) | 3772180.34 | 0.01037 | (06062804) | 387155.12 | 3772229.77 |
| 0.01184 | 386943.29 (07010320) | 3772540.45 | 0.01144 | (07010320) | 386925.64 | 3772582.82 |
| 0.01574 | 386526.69 (06090305) | 3770944.68 | 0.01826 | (06090305) | 386466.67 | 3770937.61 |
| 0.01550 | 386537.28 (06090305) | 3770884.66 | 0.01565 | (06090305) | 386480.80 | 3770881.13 |
| 0.00357 | 387374.01 (07032307) | 3771597.81 | 0.00722 | (07070124) | 384880.19 | 3771187.72 |

Buried Cover NO2 Unmitigated

```

384901.45 3771161.15 0.00344 (07081506) 384909.41 3771118.65
0.00370 (07081506)
384912.07 3771078.80 0.00370 (07081506) 384920.04 3771052.24
0.00359 (07081506)
*** AERMOD - VERSION 09292 *** *** Elysian
*** 11/23/10 ***
*** Buried NO2
*** 09:31:37

```

PAGE 10

**MODELOPTs: RegDFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

SOURCE GROUP: ALL *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
INCLUDING SOURCE(S): PAREA3 , PAREA4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

| | | ** CONC OF NOX | | IN PPM | |
|---------|---------------------------|----------------|---------|------------|----------------------------|
| CONC | X-COORD (M) (YYMMDDHH) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) Y-COORD (M) |
| 0.02121 | 386476.85 | 3771139.46 | 0.02153 | (06110221) | 386470.44 3771149.72 |
| 0.01977 | 386460.18 | 3771159.97 | 0.02051 | (06110221) | 386449.29 3771172.79 |
| 0.01877 | 386440.31 | 3771184.33 | 0.01918 | (07082906) | 386434.54 3771197.79 |
| 0.01636 | 386405.05 | 3771244.59 | 0.01594 | (07110406) | 386409.54 3771235.61 |
| 0.01748 | 386416.59 | 3771223.43 | 0.01696 | (07082906) | 386421.08 3771217.02 |
| 0.00945 | 386426.21 | 3771209.97 | 0.01802 | (07082906) | 386274.28 3771299.72 |
| 0.00999 | 386278.77 | 3771290.10 | 0.00965 | (07110406) | 386287.75 3771280.49 |
| 0.01091 | 386296.08 | 3771269.59 | 0.01047 | (07110406) | 386303.13 3771259.33 |
| 0.01262 | 386340.31 | 3771210.61 | 0.01306 | (07110406) | 386331.34 3771222.15 |
| 0.01148 | 386323.00 | 3771233.69 | 0.01214 | (07110406) | 386312.75 3771248.43 |
| 0.01481 | 386415.31 | 3771092.02 | 0.01704 | (07082906) | 386380.05 3771051.00 |
| 0.01467 | 386392.23 | 3771050.36 | 0.01553 | (07082906) | 386374.29 3771063.18 |
| 0.01724 | 386402.49 | 3771098.43 | 0.01626 | (07082906) | 386419.80 3771082.41 |
| 0.00854 | 386163.39 | 3771763.82 | 0.00957 | (07061204) | 386081.33 3771480.49 |
| 0.00975 | 386103.77 | 3771527.92 | 0.00829 | (07050824) | 386120.44 3771576.00 |
| 0.01072 | 386135.82 | 3771613.82 | 0.00993 | (06083124) | 386146.72 3771651.64 |
| 0.00956 | 386156.33 | 3771690.75 | 0.01062 | (06030702) | 386164.67 3771730.49 |
| 0.06755 | 386716.60 | 3772090.11 | 0.05991 | (07063006) | 386705.70 3772082.42 |
| 0.07342 | 386714.67 | 3772074.72 | 0.07221 | (07071406) | 386723.00 3772061.90 |
| 0.08650 | 386731.99 | 3772036.90 | 0.09149 | (07030522) | 386728.13 3772051.01 |
| 0.05714 | 386737.11 | 3772022.15 | 0.08839 | (06111820) | 386699.29 3772099.08 |
| 0.05565 | 386690.31 | 3772107.42 | 0.05465 | (07020104) | 386682.62 3772113.83 |

Buried Cover NO2 Unmitigated

| | | | | | | |
|--------------------------------|-------------------------|------------|----------------|------------|-----------|------------|
| 0.05612 | 386674.29 (07020103) | 3772123.44 | 0.05584 | (07020103) | 386664.67 | 3772134.34 |
| 0.09044 | 386654.42 (07070805) | 3772145.24 | 0.05640 | (07020103) | 386605.70 | 3772127.29 |
| 0.09713 | 386590.95 (06122919) | 3772133.70 | 0.09917 | (06122919) | 386579.42 | 3772139.47 |
| 0.06339 | 386560.18 (06122919) | 3772147.16 | 0.07969 | (06122919) | 386545.44 | 3772154.85 |
| 0.05904 | 386533.26 (06122919) | 3772162.54 | 0.05253 | (06122919) | 386542.88 | 3772179.85 |
| 0.04811 | 386553.13 (07121620) | 3772195.88 | 0.04769 | (07121620) | 386568.52 | 3772208.70 |
| 0.05369 | 386581.98 (07121620) | 3772192.67 | 0.05307 | (07121620) | 386595.44 | 3772181.13 |
| 0.06014 | 386609.54 (07020103) | 3772168.95 | 0.05528 | (07111522) | 386624.29 | 3772152.29 |
| 0.05512 | 386619.16 (07020103) | 3772140.11 | 0.06978 | (07081406) | 386640.31 | 3772163.83 |
| 0.04640 | 386653.77 (07020104) | 3772174.72 | 0.05051 | (07020103) | 386665.95 | 3772186.26 |
| 0.03987 | 386677.49 (07082624) | 3772197.80 | 0.04223 | (07020104) | 386688.39 | 3772208.70 |
| 0.02428 | 386701.21 (07061204) | 3772222.16 | 0.03748 | (07082624) | 386448.64 | 3772217.67 |
| 0.02714 | 386456.34 (07061204) | 3772212.55 | 0.02550 | (07061204) | 386465.31 | 3772206.13 |
| 0.03060 | 386474.29 (07061204) | 3772200.37 | 0.02886 | (07061204) | 386481.34 | 3772194.60 |
| 0.03408 | 386489.03 (07061204) | 3772190.11 | 0.03119 | (07061204) | 386499.29 | 3772183.06 |
| 0.03971 | 386507.62 (07061204) | 3772177.93 | 0.03661 | (07041701) | 386514.67 | 3772171.52 |
| 0.04159 | 386576.85 (07121620) | 3772219.60 | 0.04089 | (07121620) | 386586.47 | 3772209.34 |
| 0.04734 | 386597.36 (07111522) | 3772197.80 | 0.04370 | (07081406) | 386606.98 | 3772187.54 |
| *** AERMOD - VERSION 09292 *** | | | *** Elysian | | | |
| *** 11/23/10 | | | *** Buried NO2 | | | |
| *** 09:31:37 | | | | | | |

PAGE 11

**MODELOPTs: RegDFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): PAREA3 , PAREA4 ,
*** DISCRETE CARTESIAN RECEPTOR POINTS ***

| | | ** CONC OF NOX | | IN PPM | |
|---------|---------------------------|----------------|---------|------------|----------------------------|
| CONC | X-COORD (M) (YYMMDDHH) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) Y-COORD (M) |
| 0.09082 | 386620.44 (06110320) | 3772178.57 | 0.05103 | (07020103) | 386742.87 3772003.56 |
| 0.01601 | 386386.30 (07082906) | 3771087.29 | 0.01525 | (06091823) | 386399.28 3771081.52 |
| 0.00213 | 386409.38 (07060324) | 3771067.10 | 0.01657 | (07082906) | 385296.78 3773131.99 |
| 0.00209 | 385287.93 (07101501) | 3773147.05 | 0.00210 | (07060324) | 385283.50 3773159.45 |
| 0.00267 | 385576.69 (07041701) | 3773089.48 | 0.00260 | (07041701) | 385597.95 3773060.25 |
| 0.00277 | 385609.46 (07041701) | 3773037.22 | 0.00271 | (07041701) | 385629.84 3772997.36 |

Buried Cover NO2 Unmitigated

| | | | | | | |
|---------|-------------------------|------------|---------|------------|-----------|------------|
| 0.00303 | 385654.64 (07121620) | 3772953.07 | 0.00282 | (07041701) | 385706.01 | 3772876.89 |
| 0.00369 | 385752.07 (07121620) | 3772808.69 | 0.00327 | (07121620) | 385816.74 | 3772724.54 |
| 0.00490 | 385886.71 (07061204) | 3772645.70 | 0.00421 | (07061204) | 385952.26 | 3772579.27 |
| 0.00667 | 386020.46 (07061204) | 3772519.04 | 0.00567 | (07061204) | 386093.98 | 3772463.23 |
| 0.01002 | 386169.27 (07061204) | 3772410.97 | 0.00803 | (07061204) | 386248.11 | 3772359.60 |
| 0.01853 | 386328.71 (07061204) | 3772309.11 | 0.01305 | (07061204) | 386407.55 | 3772253.30 |
| 0.01338 | 387116.28 (06062804) | 3772187.40 | 0.01339 | (07070102) | 387141.00 | 3772141.51 |
| 0.01132 | 387201.01 (07070102) | 3772180.34 | 0.01037 | (06062804) | 387155.12 | 3772229.77 |
| 0.01184 | 386943.29 (07010320) | 3772540.45 | 0.01144 | (07010320) | 386925.64 | 3772582.82 |
| 0.01574 | 386526.69 (06090305) | 3770944.68 | 0.01826 | (06090305) | 386466.67 | 3770937.61 |
| 0.01550 | 386537.28 (06090305) | 3770884.66 | 0.01565 | (06090305) | 386480.80 | 3770881.13 |
| 0.00357 | 387374.01 (07032307) | 3771597.81 | 0.00722 | (07070124) | 384880.19 | 3771187.72 |
| 0.00370 | 384901.45 (07081506) | 3771161.15 | 0.00344 | (07081506) | 384909.41 | 3771118.65 |
| 0.00359 | 384912.07 (07081506) | 3771078.80 | 0.00370 | (07081506) | 384920.04 | 3771052.24 |

*** AERMOD - VERSION 09292 *** *** Elysian
 *** 11/23/10 *** Buried NO2
 *** 09:31:37

PAGE 12

**MODELOPTs: RegDFAULT CONC

ELEV
 NODRYDPLT NOWETDPLT

*** THE SUMMARY OF HIGHEST 1-HR RESULTS ***

** CONC OF NOX IN PPM

**

| NETWORK | GROUP ID | ZELEV, ZHILL, ZFLAG) | OF TYPE | AVERAGE CONC | DATE | RECEPTOR | (XR, YR, |
|---------|------------------------|----------------------|---------|--------------|-------------------|------------|-------------|
| | | | | GRID-ID | (YYMMDDHH) | | |
| SRCGP1 | HIGH 1ST HIGH VALUE IS | | | 0.09917 | ON 06122919: AT (| 386590.95, | 3772133.70, |
| 96.54, | 182.00, | 0.00) DC | | | | | |
| ALL | HIGH 1ST HIGH VALUE IS | | | 0.09917 | ON 06122919: AT (| 386590.95, | 3772133.70, |
| 96.54, | 182.00, | 0.00) DC | | | | | |

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

*** AERMOD - VERSION 09292 *** *** Elysian
 *** 11/23/10 *** Buried NO2
 *** 09:31:37

PAGE 13

**MODELOPTs: RegDFAULT CONC

ELEV
 NODRYDPLT NOWETDPLT

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

Buried Cover NO2 Unmitigated

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

A Total of 0 Fatal Error Message(s)
A Total of 0 Warning Message(s)
A Total of 113 Informational Message(s)

A Total of 17520 Hours Were Processed

A Total of 0 Calm Hours Identified

A Total of 113 Missing Hours Identified (0.64 Percent)

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

***** WARNING MESSAGES *****
*** NONE ***

*** AERMOD Finishes Successfully ***

Buried Cover CO Unmitigated

```
**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 6.7.1
** Lakes Environmental Software Inc.
** Date: 11/23/2010
** File: C:\Documents and Settings\jbailey\Desktop\Elysian Park AerMod\elysian\Bur_CO.ADI
**
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**
CO STARTING
  TITLEONE Elysian
  TITLETWO Buried CO
  MODELOPT DFAULT CONC NODRYDPLT NOWETDPLT
  AVERTIME 1 8
  URBANOPT 9862049 LA
  POLLUTID CO
  RUNORNOT RUN
CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
  LOCATION PAREA3 AREAPOLY 386606.494 3771295.572 139.670
** DESCRSRC Reservoir
  LOCATION PAREA4 AREAPOLY 386598.189 3772118.131 96.350
** DESCRSRC Caltrans
** Source Parameters **
  SRCPARAM PAREA3 0.0000261535 5.000 18
  AREAVERT PAREA3 386606.494 3771295.572 386560.430 3771386.706
  AREAVERT PAREA3 386502.641 3771467.538 386454.064 3771523.011
  AREAVERT PAREA3 386432.288 3771547.577 386455.739 3771575.313
  AREAVERT PAREA3 386485.890 3771583.238 386543.680 3771557.879
  AREAVERT PAREA3 386593.931 3771507.954 386619.057 3771483.387
  AREAVERT PAREA3 386650.046 3771442.179 386660.096 3771427.914
  AREAVERT PAREA3 386676.847 3771408.103 386688.572 3771388.291
  AREAVERT PAREA3 386676.847 3771361.347 386655.909 3771323.308
  AREAVERT PAREA3 386640.833 3771309.044 386614.032 3771295.572
  SRCPARAM PAREA4 0.0001114577 5.000 14
  AREAVERT PAREA4 386598.189 3772118.131 386582.499 3772090.138
  AREAVERT PAREA4 386633.724 3772053.797 386639.492 3772051.587
  AREAVERT PAREA4 386653.798 3772051.341 386669.719 3772039.800
  AREAVERT PAREA4 386684.025 3772011.316 386695.331 3771993.391
  AREAVERT PAREA4 386697.639 3771989.462 386718.867 3771999.775
  AREAVERT PAREA4 386698.331 3772048.886 386685.179 3772065.583
  AREAVERT PAREA4 386673.872 3772076.387 386653.567 3772089.647
  URBANSRC PAREA3
  URBANSRC PAREA4
  CONCUNIT 873.2 GRAMS/SEC PPM
  SRCGROUP SRCGP1 PAREA4 PAREA3
  SRCGROUP ALL
SO FINISHED
**
*****
** AERMOD Receptor Pathway
*****
**
**
RE STARTING
```

Buried Cover CO Unmitigated

```

INCLUDED Bur_CO.rou
RE FINISHED
**
*****
** AERMOD Meteorology Pathway
*****
**
**
ME STARTING
SURFFILE "L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\cela.SFC"
PROFFILE "L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\cela.PFL"
SURFDATA 0 2006
UAIRDATA 3190 2006
PROFBASE 10 METERS
ME FINISHED
**
*****
** AERMOD Output Pathway
*****
**
**
OU STARTING
RECTABLE ALLAVE 1ST
RECTABLE 1 1ST
RECTABLE 8 1ST
** Auto-Generated Plotfiles
PLOTFILE 1 ALL 1ST BUR_CO.AD\01H1GALL.PLT
PLOTFILE 8 ALL 1ST BUR_CO.AD\08H1GALL.PLT
PLOTFILE 1 SRCGP1 1ST BUR_CO.AD\01H1G001.PLT
PLOTFILE 8 SRCGP1 1ST BUR_CO.AD\08H1G001.PLT
OU FINISHED

*****
*** SETUP Finishes Successfully ***
*****

*** AERMOD - VERSION 09292 ***      *** Elysian
***      11/23/10
***                                     *** Buried CO
***      09:17:55

PAGE 1
**MODELOPTs:  RegDFault CONC
                                                    ELEV
                                                    NODRYDPLT NOWETDPLT

***      MODEL SETUP OPTIONS SUMMARY      ***
-----
**Model Is Setup For Calculation of Average CONCentration Values.

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

**Model Uses URBAN Dispersion Algorithm for the SBL for      2 Source(s),
for Total of      1 Urban Area(s):
Urban Population = 9862049.0 ; Urban Roughness Length = 1.000 m

**Model Uses Regulatory DEFAULT Options:
1. Stack-tip Downwash.
2. Model Accounts for ELEVated Terrain Effects.
3. Use Calms Processing Routine.
4. Use Missing Data Processing Routine.
5. No Exponential Decay for URBAN/Non-SO2.
6. Urban Roughness Length of 1.0 Meter Assumed.

**Model Assumes No FLAGPOLE Receptor Heights.

```

Buried Cover CO Unmitigated

**Model Calculates 2 Short Term Average(s) of: 1-HR 8-HR
 **This Run Includes: 2 Source(s); 2 Source Group(s); and 120 Receptor(s)
 **The Model Assumes A Pollutant Type of: CO
 **Model Set To Continue RUNNING After the Setup Testing.

**Output Options Selected:
 Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
 Model Outputs External File(s) of High Values for Plotting (PLOTFILE 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) = 10.00 ; Decay Coef. = 0.000
 ; Rot. Angle = 0.0
 Emission Units = GRAMS/SEC ; Emission Rate
 Unit Factor = 873.20
 Output Units = PPM

**Approximate Storage Requirements of Model = 3.5 MB of RAM.

*** AERMOD - VERSION 09292 *** *** Elysian
 *** 11/23/10
 *** Buried CO
 *** 09:17:55

PAGE 2

**MODELOPTs: RegDEFAULT CONC ELEV
 NODRYDPLT NOWETDPLT

*** AREAPOLY SOURCE DATA ***

| URBAN | EMISSION RATE | NUMBER | EMISSION RATE | LOCATION OF AREA | BASE | RELEASE | NUMBER | INIT. |
|--------|-------------------|----------|---------------|------------------|----------|----------|----------|----------|
| SOURCE | PART. (USER UNITS | X | Y | ELEV. | HEIGHT | OF | VERTS. | SZ |
| SOURCE | SCALAR VARY | | | (METERS) | (METERS) | (METERS) | (METERS) | (METERS) |
| ID | CATS. /METER**2) | (METERS) | (METERS) | (METERS) | (METERS) | (METERS) | (METERS) | (METERS) |

BY

| | | | | | | | | |
|--------|---|-------------|----------|-----------|-------|------|----|------|
| PAREA3 | 0 | 0.26154E-04 | 386606.5 | 3771295.6 | 139.7 | 5.00 | 18 | 0.00 |
| YES | | | | | | | | |
| PAREA4 | 0 | 0.11146E-03 | 386598.2 | 3772118.1 | 96.3 | 5.00 | 14 | 0.00 |
| YES | | | | | | | | |

*** AERMOD - VERSION 09292 *** *** Elysian
 *** 11/23/10
 *** Buried CO
 *** 09:17:55

PAGE 3

**MODELOPTs: RegDEFAULT CONC ELEV
 NODRYDPLT NOWETDPLT

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID SOURCE IDs

SRCGP1 PAREA3 , PAREA4 ,

ALL PAREA3 , PAREA4 ,

Buried Cover CO Unmitigated

*** AERMOD - VERSION 09292 *** *** Elysian
 *** 11/23/10
 *** 09:17:55 *** Buried CO

PAGE 4
 **MODELOPTs: RegDFAULT CONC

ELEV
 NODRYDPLT NOWETDPLT

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

| | | | | |
|---------------------------|--------|--------|-------|------------------------|
| (386476.8, 3771139.5, | 143.3, | 181.0, | 0.0); | (386470.4, 3771149.7, |
| 144.2, 181.0, 0.0); | | | | |
| (386460.2, 3771160.0, | 145.3, | 181.0, | 0.0); | (386449.3, 3771172.8, |
| 146.6, 181.0, 0.0); | | | | |
| (386440.3, 3771184.3, | 147.6, | 181.0, | 0.0); | (386434.5, 3771197.8, |
| 148.6, 181.0, 0.0); | | | | |
| (386405.0, 3771244.6, | 152.9, | 181.0, | 0.0); | (386409.5, 3771235.6, |
| 151.9, 181.0, 0.0); | | | | |
| (386416.6, 3771223.4, | 150.9, | 181.0, | 0.0); | (386421.1, 3771217.0, |
| 150.3, 181.0, 0.0); | | | | |
| (386426.2, 3771210.0, | 149.6, | 181.0, | 0.0); | (386274.3, 3771299.7, |
| 168.1, 181.0, 0.0); | | | | |
| (386278.8, 3771290.1, | 167.4, | 181.0, | 0.0); | (386287.8, 3771280.5, |
| 166.6, 181.0, 0.0); | | | | |
| (386296.1, 3771269.6, | 164.9, | 181.0, | 0.0); | (386303.1, 3771259.3, |
| 163.5, 181.0, 0.0); | | | | |
| (386340.3, 3771210.6, | 155.9, | 181.0, | 0.0); | (386331.3, 3771222.1, |
| 157.6, 181.0, 0.0); | | | | |
| (386323.0, 3771233.7, | 159.3, | 181.0, | 0.0); | (386312.8, 3771248.4, |
| 161.6, 181.0, 0.0); | | | | |
| (386415.3, 3771092.0, | 143.8, | 181.0, | 0.0); | (386380.0, 3771051.0, |
| 142.9, 164.0, 0.0); | | | | |
| (386392.2, 3771050.4, | 142.2, | 181.0, | 0.0); | (386374.3, 3771063.2, |
| 144.0, 164.0, 0.0); | | | | |
| (386402.5, 3771098.4, | 144.8, | 181.0, | 0.0); | (386419.8, 3771082.4, |
| 142.9, 181.0, 0.0); | | | | |
| (386163.4, 3771763.8, | 182.0, | 182.0, | 0.0); | (386081.3, 3771480.5, |
| 178.0, 178.0, 0.0); | | | | |
| (386103.8, 3771527.9, | 179.8, | 179.8, | 0.0); | (386120.4, 3771576.0, |
| 181.1, 181.1, 0.0); | | | | |
| (386135.8, 3771613.8, | 182.0, | 182.0, | 0.0); | (386146.7, 3771651.6, |
| 182.0, 182.0, 0.0); | | | | |
| (386156.3, 3771690.8, | 182.0, | 182.0, | 0.0); | (386164.7, 3771730.5, |
| 182.0, 182.0, 0.0); | | | | |
| (386716.6, 3772090.1, | 93.4, | 182.0, | 0.0); | (386705.7, 3772082.4, |
| 93.0, 182.0, 0.0); | | | | |
| (386714.7, 3772074.7, | 93.3, | 182.0, | 0.0); | (386723.0, 3772061.9, |
| 93.7, 182.0, 0.0); | | | | |
| (386732.0, 3772036.9, | 94.0, | 182.0, | 0.0); | (386728.1, 3772051.0, |
| 93.9, 182.0, 0.0); | | | | |
| (386737.1, 3772022.1, | 94.2, | 182.0, | 0.0); | (386699.3, 3772099.1, |
| 92.7, 182.0, 0.0); | | | | |
| (386690.3, 3772107.4, | 92.4, | 182.0, | 0.0); | (386682.6, 3772113.8, |
| 92.1, 182.0, 0.0); | | | | |
| (386674.3, 3772123.4, | 92.3, | 182.0, | 0.0); | (386664.7, 3772134.3, |
| 92.8, 182.0, 0.0); | | | | |
| (386654.4, 3772145.2, | 93.1, | 182.0, | 0.0); | (386605.7, 3772127.3, |
| 95.6, 182.0, 0.0); | | | | |
| (386591.0, 3772133.7, | 96.5, | 182.0, | 0.0); | (386579.4, 3772139.5, |
| 97.2, 182.0, 0.0); | | | | |
| (386560.2, 3772147.2, | 98.4, | 182.0, | 0.0); | (386545.4, 3772154.8, |
| 99.0, 182.0, 0.0); | | | | |
| (386533.3, 3772162.5, | 99.5, | 182.0, | 0.0); | (386542.9, 3772179.8, |
| 98.2, 182.0, 0.0); | | | | |
| (386553.1, 3772195.9, | 96.9, | 182.0, | 0.0); | (386568.5, 3772208.7, |
| 95.5, 182.0, 0.0); | | | | |
| (386582.0, 3772192.7, | 95.3, | 182.0, | 0.0); | (386595.4, 3772181.1, |
| 94.8, 182.0, 0.0); | | | | |

Buried Cover CO Unmitigated

| | | | | |
|--------------------------------|---------------|--------|-------|------------------------|
| (386609.5, 3772168.9, | 94.5, | 182.0, | 0.0); | (386624.3, 3772152.3, |
| 94.3, 182.0, 0.0); | | | | |
| (386619.2, 3772140.1, | 94.7, | 182.0, | 0.0); | (386640.3, 3772163.8, |
| 93.5, 182.0, 0.0); | | | | |
| (386653.8, 3772174.7, | 93.0, | 182.0, | 0.0); | (386666.0, 3772186.3, |
| 92.7, 182.0, 0.0); | | | | |
| (386677.5, 3772197.8, | 92.5, | 182.0, | 0.0); | (386688.4, 3772208.7, |
| 92.8, 182.0, 0.0); | | | | |
| (386701.2, 3772222.2, | 93.5, | 182.0, | 0.0); | (386448.6, 3772217.7, |
| 102.7, 182.0, 0.0); | | | | |
| (386456.3, 3772212.5, | 102.4, | 182.0, | 0.0); | (386465.3, 3772206.1, |
| 102.1, 182.0, 0.0); | | | | |
| (386474.3, 3772200.4, | 101.8, | 182.0, | 0.0); | (386481.3, 3772194.6, |
| 101.5, 182.0, 0.0); | | | | |
| (386489.0, 3772190.1, | 101.2, | 182.0, | 0.0); | (386499.3, 3772183.1, |
| 100.9, 182.0, 0.0); | | | | |
| (386507.6, 3772177.9, | 100.5, | 182.0, | 0.0); | (386514.7, 3772171.5, |
| 100.3, 182.0, 0.0); | | | | |
| (386576.8, 3772219.6, | 94.6, | 182.0, | 0.0); | (386586.5, 3772209.3, |
| 94.4, 182.0, 0.0); | | | | |
| (386597.4, 3772197.8, | 94.2, | 182.0, | 0.0); | (386607.0, 3772187.5, |
| 94.0, 182.0, 0.0); | | | | |
| (386620.4, 3772178.6, | 93.9, | 182.0, | 0.0); | (386742.9, 3772003.6, |
| 94.5, 182.0, 0.0); | | | | |
| (386386.3, 3771087.3, | 144.9, | 181.0, | 0.0); | (386399.3, 3771081.5, |
| 143.9, 181.0, 0.0); | | | | |
| (386409.4, 3771067.1, | 142.4, | 181.0, | 0.0); | (385296.8, 3773132.0, |
| 117.7, 182.0, 0.0); | | | | |
| (385287.9, 3773147.0, | 117.7, | 182.0, | 0.0); | (385283.5, 3773159.4, |
| 117.2, 182.0, 0.0); | | | | |
| (385576.7, 3773089.5, | 103.9, | 182.0, | 0.0); | (385598.0, 3773060.2, |
| 104.0, 182.0, 0.0); | | | | |
| *** AERMOD - VERSION 09292 *** | *** Elysian | | | |
| *** 11/23/10 | *** Buried CO | | | |
| *** 09:17:55 | | | | |

PAGE 5

**MODELOPTs: RegDFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

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

| | | | | |
|------------------------|--------|--------|-------|------------------------|
| (385609.5, 3773037.2, | 104.5, | 182.0, | 0.0); | (385629.8, 3772997.4, |
| 105.3, 182.0, 0.0); | | | | |
| (385654.6, 3772953.1, | 106.0, | 182.0, | 0.0); | (385706.0, 3772876.9, |
| 106.7, 182.0, 0.0); | | | | |
| (385752.1, 3772808.7, | 107.3, | 182.0, | 0.0); | (385816.7, 3772724.5, |
| 108.9, 182.0, 0.0); | | | | |
| (385886.7, 3772645.7, | 110.4, | 182.0, | 0.0); | (385952.3, 3772579.3, |
| 111.3, 182.0, 0.0); | | | | |
| (386020.5, 3772519.0, | 111.7, | 182.0, | 0.0); | (386094.0, 3772463.2, |
| 111.1, 182.0, 0.0); | | | | |
| (386169.3, 3772411.0, | 110.4, | 182.0, | 0.0); | (386248.1, 3772359.6, |
| 108.8, 182.0, 0.0); | | | | |
| (386328.7, 3772309.1, | 105.9, | 182.0, | 0.0); | (386407.5, 3772253.3, |
| 103.3, 182.0, 0.0); | | | | |
| (387116.3, 3772187.4, | 108.2, | 182.0, | 0.0); | (387141.0, 3772141.5, |
| 108.9, 108.9, 0.0); | | | | |
| (387201.0, 3772180.3, | 110.6, | 182.0, | 0.0); | (387155.1, 3772229.8, |
| 110.0, 182.0, 0.0); | | | | |
| (386943.3, 3772540.4, | 102.9, | 243.0, | 0.0); | (386925.6, 3772582.8, |
| 102.9, 243.0, 0.0); | | | | |
| (386526.7, 3770944.7, | 129.0, | 131.0, | 0.0); | (386466.7, 3770937.6, |
| 131.1, 131.1, 0.0); | | | | |
| (386537.3, 3770884.7, | 123.8, | 123.8, | 0.0); | (386480.8, 3770881.1, |
| 125.8, 125.8, 0.0); | | | | |
| (387374.0, 3771597.8, | 112.1, | 112.1, | 0.0); | (384880.2, 3771187.7, |
| 166.9, 166.9, 0.0); | | | | |

Buried Cover CO Unmitigated

| | | | | | | | | | | | | | | | |
|------|------|-------|------|----|-------|-------|--------|--------|-------|-------|---------|------|------|------|------|
| 06 | 01 | 01 | 1 | 02 | -3.0 | 0.086 | -9.000 | -9.000 | -999. | 58. | 19.1 | 0.65 | 1.00 | 1.00 | 1.50 |
| 82. | 21.3 | 286.4 | 17.7 | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 03 | -1.3 | 0.057 | -9.000 | -9.000 | -999. | 31. | 12.7 | 0.65 | 1.00 | 1.00 | 1.00 |
| 66. | 21.3 | 286.4 | 17.7 | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 04 | -1.9 | 0.069 | -9.000 | -9.000 | -999. | 41. | 15.2 | 0.65 | 1.00 | 1.00 | 1.20 |
| 23. | 21.3 | 285.9 | 17.7 | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 05 | -3.5 | 0.080 | -9.000 | -9.000 | -999. | 52. | 13.1 | 0.65 | 1.00 | 1.00 | 1.40 |
| 61. | 21.3 | 285.4 | 17.7 | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 06 | -3.0 | 0.086 | -9.000 | -9.000 | -999. | 58. | 19.0 | 0.65 | 1.00 | 1.00 | 1.50 |
| 83. | 21.3 | 285.4 | 17.7 | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 07 | -6.1 | 0.103 | -9.000 | -9.000 | -999. | 76. | 16.2 | 0.65 | 1.00 | 1.00 | 1.80 |
| 64. | 21.3 | 285.4 | 17.7 | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 08 | -3.3 | 0.080 | -9.000 | -9.000 | -999. | 52. | 14.1 | 0.65 | 1.00 | 0.55 | 1.40 |
| 46. | 21.3 | 285.4 | 17.7 | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 09 | 26.6 | 0.304 | 0.644 | 0.005 | 362. | 385. | -95.4 | 0.65 | 1.00 | 0.32 | 2.30 |
| 87. | 21.3 | 286.4 | 17.7 | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 10 | 21.0 | 0.227 | 0.732 | 0.005 | 675. | 250. | -50.2 | 0.65 | 1.00 | 0.24 | 1.60 |
| 76. | 21.3 | 286.4 | 17.7 | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 11 | 35.8 | 0.197 | 0.912 | 0.005 | 766. | 201. | -19.2 | 0.65 | 1.00 | 0.21 | 1.20 |
| 66. | 21.3 | 287.5 | 17.7 | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 12 | 14.9 | 0.281 | 0.686 | 0.005 | 785. | 343. | -135.5 | 0.65 | 1.00 | 0.20 | 2.20 |
| 79. | 21.3 | 287.5 | 17.7 | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 13 | 26.4 | 0.376 | 0.842 | 0.009 | 818. | 530. | -181.6 | 0.65 | 1.00 | 0.20 | 3.00 |
| 76. | 21.3 | 287.5 | 17.7 | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 14 | 39.0 | 0.385 | 0.979 | 0.014 | 867. | 549. | -131.8 | 0.65 | 1.00 | 0.21 | 3.00 |
| 80. | 21.3 | 288.1 | 17.7 | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 15 | 11.4 | 0.277 | 0.653 | 0.014 | 881. | 341. | -168.4 | 0.65 | 1.00 | 0.25 | 2.20 |
| 86. | 21.3 | 287.5 | 17.7 | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 16 | 0.1 | 0.343 | 0.135 | 0.014 | 881. | 462. | -8888.0 | 0.65 | 1.00 | 0.33 | 3.00 |
| 75. | 21.3 | 287.0 | 17.7 | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 17 | -13.7 | 0.266 | -9.000 | -9.000 | -999. | 319. | 125.0 | 0.65 | 1.00 | 0.60 | 2.90 |
| 82. | 21.3 | 286.4 | 17.7 | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 18 | -10.2 | 0.183 | -9.000 | -9.000 | -999. | 183. | 54.5 | 0.65 | 1.00 | 1.00 | 2.50 |
| 101. | 21.3 | 286.4 | 17.7 | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 19 | -16.1 | 0.289 | -9.000 | -9.000 | -999. | 358. | 135.6 | 0.65 | 1.00 | 1.00 | 3.10 |
| 97. | 21.3 | 285.9 | 17.7 | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 20 | -25.2 | 0.450 | -9.000 | -9.000 | -999. | 693. | 326.1 | 0.65 | 1.00 | 1.00 | 4.30 |
| 92. | 21.3 | 284.9 | 17.7 | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 21 | -27.3 | 0.487 | -9.000 | -9.000 | -999. | 781. | 381.9 | 0.65 | 1.00 | 1.00 | 4.60 |
| 88. | 21.3 | 284.2 | 17.7 | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 22 | -28.0 | 0.499 | -9.000 | -9.000 | -999. | 812. | 402.5 | 0.65 | 1.00 | 1.00 | 4.70 |
| 91. | 21.3 | 284.9 | 17.7 | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 23 | -36.1 | 0.645 | -9.000 | -9.000 | -999. | 1191. | 673.0 | 0.65 | 1.00 | 1.00 | 5.90 |
| 82. | 21.3 | 285.4 | 17.7 | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 24 | -35.3 | 0.633 | -9.000 | -9.000 | -999. | 1160. | 649.7 | 0.65 | 1.00 | 1.00 | 5.80 |
| 84. | 21.3 | 285.9 | 17.7 | | | | | | | | | | | | |

First hour of profile data

| YR | MO | DY | HR | HEIGHT | F | WDIR | WSPD | AMB_TMP | sigmaA | sigmaW | sigmaV |
|----|----|----|----|--------|---|-------|--------|---------|--------|--------|--------|
| 06 | 01 | 01 | 01 | 17.7 | 0 | -999. | -99.00 | 286.5 | 99.0 | -99.00 | -99.00 |
| 06 | 01 | 01 | 01 | 21.3 | 1 | 347. | 0.70 | -999.0 | 99.0 | -99.00 | -99.00 |

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

*** AERMOD - VERSION 09292 *** *** Elysian

*** 11/23/10

*** Buried CO

*** 09:17:55

PAGE 8

**MODELOPTs: RegDFault CONC

ELEV
NODRYDPLT NOWETDPLT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
SOURCE GROUP: SRCGP1 ***
INCLUDING SOURCE(S): PAREA3 , PAREA4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF CO IN PPM

**

Buried Cover CO Unmitigated

| CONC | X-COORD (M) (YYMMDDHH) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) |
|---------|---------------------------|-------------|---------|------------|-------------|-------------|
| 0.16426 | 386476.85 (06110221) | 3771139.46 | 0.16643 | (06110221) | 386470.44 | 3771149.72 |
| 0.15328 | 386460.18 (06110221) | 3771159.97 | 0.15918 | (06110221) | 386449.29 | 3771172.79 |
| 0.14606 | 386440.31 (07082906) | 3771184.33 | 0.14900 | (07082906) | 386434.54 | 3771197.79 |
| 0.12681 | 386405.05 (06091823) | 3771244.59 | 0.12329 | (06091823) | 386409.54 | 3771235.61 |
| 0.13658 | 386416.59 (07082906) | 3771223.43 | 0.13267 | (07082906) | 386421.08 | 3771217.02 |
| 0.07150 | 386426.21 (07120322) | 3771209.97 | 0.14056 | (07082906) | 386274.28 | 3771299.72 |
| 0.07556 | 386278.77 (07110406) | 3771290.10 | 0.07298 | (07110406) | 386287.75 | 3771280.49 |
| 0.08251 | 386296.08 (07110406) | 3771269.59 | 0.07919 | (07110406) | 386303.13 | 3771259.33 |
| 0.09547 | 386340.31 (07110406) | 3771210.61 | 0.09876 | (07110406) | 386331.34 | 3771222.15 |
| 0.08681 | 386323.00 (07110406) | 3771233.69 | 0.09179 | (07110406) | 386312.75 | 3771248.43 |
| 0.11576 | 386415.31 (07082906) | 3771092.02 | 0.13257 | (07082906) | 386380.05 | 3771051.00 |
| 0.11319 | 386392.23 (06091823) | 3771050.36 | 0.12127 | (07082906) | 386374.29 | 3771063.18 |
| 0.13399 | 386402.49 (07082906) | 3771098.43 | 0.12695 | (07082906) | 386419.80 | 3771082.41 |
| 0.06462 | 386163.39 (07050824) | 3771763.82 | 0.07236 | (07061204) | 386081.33 | 3771480.49 |
| 0.07371 | 386103.77 (06083124) | 3771527.92 | 0.06268 | (07050824) | 386120.44 | 3771576.00 |
| 0.08108 | 386135.82 (06030702) | 3771613.82 | 0.07512 | (06083124) | 386146.72 | 3771651.64 |
| 0.07229 | 386156.33 (07061204) | 3771690.75 | 0.08029 | (06030702) | 386164.67 | 3771730.49 |
| 0.57817 | 386716.60 (07071406) | 3772090.11 | 0.51280 | (07063006) | 386705.70 | 3772082.42 |
| 0.62843 | 386714.67 (07071406) | 3772074.72 | 0.61803 | (07071406) | 386723.00 | 3772061.90 |
| 0.74039 | 386731.99 (07030522) | 3772036.90 | 0.78302 | (07030522) | 386728.13 | 3772051.01 |
| 0.48909 | 386737.11 (07063006) | 3772022.15 | 0.75656 | (06111820) | 386699.29 | 3772099.08 |
| 0.46927 | 386690.31 (07020104) | 3772107.42 | 0.46095 | (07020104) | 386682.62 | 3772113.83 |
| 0.47362 | 386674.29 (07020103) | 3772123.44 | 0.47146 | (07020103) | 386664.67 | 3772134.34 |
| 0.77404 | 386654.42 (07070805) | 3772145.24 | 0.47569 | (07020103) | 386605.70 | 3772127.29 |
| 0.83131 | 386590.95 (06122919) | 3772133.70 | 0.84878 | (06122919) | 386579.42 | 3772139.47 |
| 0.54252 | 386560.18 (06122919) | 3772147.16 | 0.68208 | (06122919) | 386545.44 | 3772154.85 |
| 0.50535 | 386533.26 (06122919) | 3772162.54 | 0.44957 | (06122919) | 386542.88 | 3772179.85 |
| 0.41176 | 386553.13 (07121620) | 3772195.88 | 0.40816 | (07121620) | 386568.52 | 3772208.70 |
| 0.45953 | 386581.98 (07121620) | 3772192.67 | 0.45419 | (07121620) | 386595.44 | 3772181.13 |
| 0.51259 | 386609.54 (07111522) | 3772168.95 | 0.47164 | (07111522) | 386624.29 | 3772152.29 |
| 0.46452 | 386619.16 (07020103) | 3772140.11 | 0.59718 | (07081406) | 386640.31 | 3772163.83 |
| 0.39014 | 386653.77 (07020104) | 3772174.72 | 0.42551 | (07020103) | 386665.95 | 3772186.26 |
| 0.33495 | 386677.49 (07082624) | 3772197.80 | 0.35477 | (07020104) | 386688.39 | 3772208.70 |

Buried Cover CO Unmitigated

| | | | | | | |
|---------|-------------------------|------------|---------|------------|-----------|------------|
| 0.20784 | 386701.21 (07061204) | 3772222.16 | 0.31443 | (07082624) | 386448.64 | 3772217.67 |
| 0.23226 | 386456.34 (07061204) | 3772212.55 | 0.21827 | (07061204) | 386465.31 | 3772206.13 |
| 0.26188 | 386474.29 (07061204) | 3772200.37 | 0.24700 | (07061204) | 386481.34 | 3772194.60 |
| 0.29169 | 386489.03 (07061204) | 3772190.11 | 0.26696 | (07061204) | 386499.29 | 3772183.06 |
| 0.33985 | 386507.62 (07061204) | 3772177.93 | 0.31337 | (07041701) | 386514.67 | 3772171.52 |
| 0.35598 | 386576.85 (07121620) | 3772219.60 | 0.35001 | (07121620) | 386586.47 | 3772209.34 |
| 0.40372 | 386597.36 (07111522) | 3772197.80 | 0.37389 | (07081406) | 386606.98 | 3772187.54 |

*** AERMOD - VERSION 09292 ***
 *** 11/23/10 ***
 *** 09:17:55 ***

*** Elysian
 *** Buried CO

PAGE 9

**MODELOPTs: RegDFAULT CONC

ELEV
 NODRYDPLT NOWETDPLT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: SRCGP1 ***
 INCLUDING SOURCE(S): PAREA3 , PAREA4 ,
 *** DISCRETE CARTESIAN RECEPTOR POINTS ***
 ** CONC OF CO IN PPM

| CONC | X-COORD (M) (YYMMDDHH) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) |
|---------|---------------------------|-------------|---------|------------|-------------|-------------|
| 0.77730 | 386620.44 (06110320) | 3772178.57 | 0.42929 | (07020103) | 386742.87 | 3772003.56 |
| 0.12500 | 386386.30 (07082906) | 3771087.29 | 0.11869 | (07082906) | 386399.28 | 3771081.52 |
| 0.01797 | 386409.38 (07060324) | 3771067.10 | 0.12898 | (07082906) | 385296.78 | 3773131.99 |
| 0.01756 | 385287.93 (07101501) | 3773147.05 | 0.01777 | (07060324) | 385283.50 | 3773159.45 |
| 0.02261 | 385576.69 (07041701) | 3773089.48 | 0.02202 | (07041701) | 385597.95 | 3773060.25 |
| 0.02349 | 385609.46 (07041701) | 3773037.22 | 0.02298 | (07041701) | 385629.84 | 3772997.36 |
| 0.02436 | 385654.64 (07041701) | 3772953.07 | 0.02386 | (07041701) | 385706.01 | 3772876.89 |
| 0.03001 | 385752.07 (07060324) | 3772808.69 | 0.02635 | (07101501) | 385816.74 | 3772724.54 |
| 0.04189 | 385886.71 (07061204) | 3772645.70 | 0.03598 | (07061204) | 385952.26 | 3772579.27 |
| 0.05708 | 386020.46 (07061204) | 3772519.04 | 0.04854 | (07061204) | 386093.98 | 3772463.23 |
| 0.08578 | 386169.27 (07061204) | 3772410.97 | 0.06875 | (07061204) | 386248.11 | 3772359.60 |
| 0.15858 | 386328.71 (07061204) | 3772309.11 | 0.11169 | (07061204) | 386407.55 | 3772253.30 |
| 0.11452 | 387116.28 (06062804) | 3772187.40 | 0.11461 | (07070102) | 387141.00 | 3772141.51 |
| 0.09685 | 387201.01 (07070102) | 3772180.34 | 0.08878 | (06062804) | 387155.12 | 3772229.77 |
| 0.09921 | 386943.29 (07010320) | 3772540.45 | 0.09508 | (07010320) | 386925.64 | 3772582.82 |
| 0.12315 | 386526.69 (06090305) | 3770944.68 | 0.14239 | (06090305) | 386466.67 | 3770937.61 |
| 0.12149 | 386537.28 (06090305) | 3770884.66 | 0.12239 | (06090305) | 386480.80 | 3770881.13 |

Buried Cover CO Unmitigated

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387374.01 3771597.81 0.06181 (07070124) 384880.19 3771187.72
0.02696 (07032307)
384901.45 3771161.15 0.02605 (07081506) 384909.41 3771118.65
0.02800 (07081506)
384912.07 3771078.80 0.02802 (07081506) 384920.04 3771052.24
0.02713 (07081506)
*** AERMOD - VERSION 09292 *** *** Elysian
*** 11/23/10 ***
*** 09:17:55 *** Buried CO

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PAGE 10

**MODELOPTs: RegDFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

```

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): PAREA3 , PAREA4 ,
*** DISCRETE CARTESIAN RECEPTOR POINTS ***
** CONC OF CO IN PPM

```

| CONC | X-COORD (M) (YYMMDDHH) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) |
|---------|---------------------------|-------------|---------|------------|-------------|-------------|
| 0.16426 | 386476.85 | 3771139.46 | 0.16643 | (06110221) | 386470.44 | 3771149.72 |
| 0.15328 | 386460.18 | 3771159.97 | 0.15918 | (06110221) | 386449.29 | 3771172.79 |
| 0.14606 | 386440.31 | 3771184.33 | 0.14900 | (07082906) | 386434.54 | 3771197.79 |
| 0.12681 | 386405.05 | 3771244.59 | 0.12329 | (06091823) | 386409.54 | 3771235.61 |
| 0.13658 | 386416.59 | 3771223.43 | 0.13267 | (07082906) | 386421.08 | 3771217.02 |
| 0.07150 | 386426.21 | 3771209.97 | 0.14056 | (07082906) | 386274.28 | 3771299.72 |
| 0.07556 | 386278.77 | 3771290.10 | 0.07298 | (07110406) | 386287.75 | 3771280.49 |
| 0.08251 | 386296.08 | 3771269.59 | 0.07919 | (07110406) | 386303.13 | 3771259.33 |
| 0.09547 | 386340.31 | 3771210.61 | 0.09876 | (07110406) | 386331.34 | 3771222.15 |
| 0.08681 | 386323.00 | 3771233.69 | 0.09179 | (07110406) | 386312.75 | 3771248.43 |
| 0.11576 | 386415.31 | 3771092.02 | 0.13257 | (07082906) | 386380.05 | 3771051.00 |
| 0.11319 | 386392.23 | 3771050.36 | 0.12127 | (07082906) | 386374.29 | 3771063.18 |
| 0.13399 | 386402.49 | 3771098.43 | 0.12695 | (07082906) | 386419.80 | 3771082.41 |
| 0.06462 | 386163.39 | 3771763.82 | 0.07236 | (07061204) | 386081.33 | 3771480.49 |
| 0.07371 | 386103.77 | 3771527.92 | 0.06268 | (07050824) | 386120.44 | 3771576.00 |
| 0.08108 | 386135.82 | 3771613.82 | 0.07512 | (06083124) | 386146.72 | 3771651.64 |
| 0.07229 | 386156.33 | 3771690.75 | 0.08029 | (06030702) | 386164.67 | 3771730.49 |
| 0.57817 | 386716.60 | 3772090.11 | 0.51280 | (07063006) | 386705.70 | 3772082.42 |
| 0.62843 | 386714.67 | 3772074.72 | 0.61803 | (07071406) | 386723.00 | 3772061.90 |
| 0.74039 | 386731.99 | 3772036.90 | 0.78302 | (07030522) | 386728.13 | 3772051.01 |
| 0.48909 | 386737.11 | 3772022.15 | 0.75656 | (06111820) | 386699.29 | 3772099.08 |

Buried Cover CO Unmitigated

| | | | | | | |
|--------------------------------|-------------------------|------------|---------------|------------|-----------|------------|
| 0.46927 | 386690.31 (07020104) | 3772107.42 | 0.46095 | (07020104) | 386682.62 | 3772113.83 |
| 0.47362 | 386674.29 (07020103) | 3772123.44 | 0.47146 | (07020103) | 386664.67 | 3772134.34 |
| 0.77404 | 386654.42 (07070805) | 3772145.24 | 0.47569 | (07020103) | 386605.70 | 3772127.29 |
| 0.83131 | 386590.95 (06122919) | 3772133.70 | 0.84878 | (06122919) | 386579.42 | 3772139.47 |
| 0.54252 | 386560.18 (06122919) | 3772147.16 | 0.68208 | (06122919) | 386545.44 | 3772154.85 |
| 0.50535 | 386533.26 (06122919) | 3772162.54 | 0.44957 | (06122919) | 386542.88 | 3772179.85 |
| 0.41176 | 386553.13 (07121620) | 3772195.88 | 0.40816 | (07121620) | 386568.52 | 3772208.70 |
| 0.45953 | 386581.98 (07121620) | 3772192.67 | 0.45419 | (07121620) | 386595.44 | 3772181.13 |
| 0.51259 | 386609.54 (07111522) | 3772168.95 | 0.47164 | (07111522) | 386624.29 | 3772152.29 |
| 0.46452 | 386619.16 (07020103) | 3772140.11 | 0.59718 | (07081406) | 386640.31 | 3772163.83 |
| 0.39014 | 386653.77 (07020104) | 3772174.72 | 0.42551 | (07020103) | 386665.95 | 3772186.26 |
| 0.33495 | 386677.49 (07082624) | 3772197.80 | 0.35477 | (07020104) | 386688.39 | 3772208.70 |
| 0.20784 | 386701.21 (07061204) | 3772222.16 | 0.31443 | (07082624) | 386448.64 | 3772217.67 |
| 0.23226 | 386456.34 (07061204) | 3772212.55 | 0.21827 | (07061204) | 386465.31 | 3772206.13 |
| 0.26188 | 386474.29 (07061204) | 3772200.37 | 0.24700 | (07061204) | 386481.34 | 3772194.60 |
| 0.29169 | 386489.03 (07061204) | 3772190.11 | 0.26696 | (07061204) | 386499.29 | 3772183.06 |
| 0.33985 | 386507.62 (07061204) | 3772177.93 | 0.31337 | (07041701) | 386514.67 | 3772171.52 |
| 0.35598 | 386576.85 (07121620) | 3772219.60 | 0.35001 | (07121620) | 386586.47 | 3772209.34 |
| 0.40372 | 386597.36 (07111522) | 3772197.80 | 0.37389 | (07081406) | 386606.98 | 3772187.54 |
| *** AERMOD - VERSION 09292 *** | | | *** Elysian | | | |
| *** 11/23/10 | | | *** Buried CO | | | |
| *** 09:17:55 | | | | | | |

PAGE 11

**MODELOPTs: RegDFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

SOURCE GROUP: ALL *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
INCLUDING SOURCE(S): PAREA3 , PAREA4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF CO IN PPM

**

| CONC | X-COORD (M) (YYMMDDHH) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) |
|---------|---------------------------|-------------|---------|------------|-------------|-------------|
| 0.77730 | 386620.44 (06110320) | 3772178.57 | 0.42929 | (07020103) | 386742.87 | 3772003.56 |
| 0.12500 | 386386.30 (07082906) | 3771087.29 | 0.11869 | (07082906) | 386399.28 | 3771081.52 |
| 0.01797 | 386409.38 (07060324) | 3771067.10 | 0.12898 | (07082906) | 385296.78 | 3773131.99 |
| 0.01756 | 385287.93 (07101501) | 3773147.05 | 0.01777 | (07060324) | 385283.50 | 3773159.45 |
| 0.02261 | 385576.69 (07041701) | 3773089.48 | 0.02202 | (07041701) | 385597.95 | 3773060.25 |

Buried Cover CO Unmitigated

| | | | | | | |
|---------|-------------------------|------------|---------|------------|-----------|------------|
| 0.02349 | 385609.46 (07041701) | 3773037.22 | 0.02298 | (07041701) | 385629.84 | 3772997.36 |
| 0.02436 | 385654.64 (07041701) | 3772953.07 | 0.02386 | (07041701) | 385706.01 | 3772876.89 |
| 0.03001 | 385752.07 (07060324) | 3772808.69 | 0.02635 | (07101501) | 385816.74 | 3772724.54 |
| 0.04189 | 385886.71 (07061204) | 3772645.70 | 0.03598 | (07061204) | 385952.26 | 3772579.27 |
| 0.05708 | 386020.46 (07061204) | 3772519.04 | 0.04854 | (07061204) | 386093.98 | 3772463.23 |
| 0.08578 | 386169.27 (07061204) | 3772410.97 | 0.06875 | (07061204) | 386248.11 | 3772359.60 |
| 0.15858 | 386328.71 (07061204) | 3772309.11 | 0.11169 | (07061204) | 386407.55 | 3772253.30 |
| 0.11452 | 387116.28 (06062804) | 3772187.40 | 0.11461 | (07070102) | 387141.00 | 3772141.51 |
| 0.09685 | 387201.01 (07070102) | 3772180.34 | 0.08878 | (06062804) | 387155.12 | 3772229.77 |
| 0.09921 | 386943.29 (07010320) | 3772540.45 | 0.09508 | (07010320) | 386925.64 | 3772582.82 |
| 0.12315 | 386526.69 (06090305) | 3770944.68 | 0.14239 | (06090305) | 386466.67 | 3770937.61 |
| 0.12149 | 386537.28 (06090305) | 3770884.66 | 0.12239 | (06090305) | 386480.80 | 3770881.13 |
| 0.02696 | 387374.01 (07032307) | 3771597.81 | 0.06181 | (07070124) | 384880.19 | 3771187.72 |
| 0.02800 | 384901.45 (07081506) | 3771161.15 | 0.02605 | (07081506) | 384909.41 | 3771118.65 |
| 0.02713 | 384912.07 (07081506) | 3771078.80 | 0.02802 | (07081506) | 384920.04 | 3771052.24 |

*** AERMOD - VERSION 09292 ***
 *** 11/23/10 ***
 *** 09:17:55 ***

*** Elysian
 *** Buried CO

PAGE 12

**MODELOPTs: RegDFAULT CONC

ELEV
 NODRYDPLT NOWETDPLT

SOURCE GROUP: SRCGP1 *** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR
 INCLUDING SOURCE(S): PAREA3 , PAREA4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF CO IN PPM

**

| CONC | X-COORD (M) (YYMMDDHH) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) |
|---------|---------------------------|-------------|---------|------------|-------------|-------------|
| 0.10368 | 386476.85 (07122008) | 3771139.46 | 0.10298 | (07122008) | 386470.44 | 3771149.72 |
| 0.09964 | 386460.18 (07122008) | 3771159.97 | 0.10251 | (07122008) | 386449.29 | 3771172.79 |
| 0.10256 | 386440.31 (06020208) | 3771184.33 | 0.10053 | (06020208) | 386434.54 | 3771197.79 |
| 0.09714 | 386405.05 (06020208) | 3771244.59 | 0.09459 | (06020208) | 386409.54 | 3771235.61 |
| 0.10100 | 386416.59 (06020208) | 3771223.43 | 0.09973 | (06020208) | 386421.08 | 3771217.02 |
| 0.03767 | 386426.21 (07010408) | 3771209.97 | 0.10206 | (06020208) | 386274.28 | 3771299.72 |
| 0.04181 | 386278.77 (06020208) | 3771290.10 | 0.03883 | (06020508) | 386287.75 | 3771280.49 |
| 0.05090 | 386296.08 (06020208) | 3771269.59 | 0.04654 | (06020208) | 386303.13 | 3771259.33 |
| 0.06824 | 386340.31 (06020208) | 3771210.61 | 0.07317 | (06020208) | 386331.34 | 3771222.15 |

Buried Cover CO Unmitigated

| | | | | | | |
|---------|----------------------------|------------|---------|------------|-----------|------------|
| 0.05653 | 386323.00 (06020208) | 3771233.69 | 0.06319 | (06020208) | 386312.75 | 3771248.43 |
| 0.06804 | 386415.31 (07020208) | 3771092.02 | 0.07905 | (07020208) | 386380.05 | 3771051.00 |
| 0.06766 | 386392.23 (07020208) | 3771050.36 | 0.07023 | (07020208) | 386374.29 | 3771063.18 |
| 0.07877 | 386402.49 (07020208) | 3771098.43 | 0.07815 | (07020208) | 386419.80 | 3771082.41 |
| 0.02561 | 386163.39 (06121608) | 3771763.82 | 0.02001 | (06122908) | 386081.33 | 3771480.49 |
| 0.01931 | 386103.77 (06010908) | 3771527.92 | 0.02149 | (06121608) | 386120.44 | 3771576.00 |
| 0.01778 | 386135.82 (06010908) | 3771613.82 | 0.01926 | (06032508) | 386146.72 | 3771651.64 |
| 0.01983 | 386156.33 (06122908) | 3771690.75 | 0.01763 | (07102108) | 386164.67 | 3771730.49 |
| 0.33812 | 386716.60 (07111824) | 3772090.11 | 0.28540 | (07111924) | 386705.70 | 3772082.42 |
| 0.38293 | 386714.67 (07111824) | 3772074.72 | 0.36023 | (07111824) | 386723.00 | 3772061.90 |
| 0.38243 | 386731.99 (07111824) | 3772036.90 | 0.36896 | (06080408) | 386728.13 | 3772051.01 |
| 0.30916 | 386737.11 (07060408) | 3772022.15 | 0.38378 | (07080308) | 386699.29 | 3772099.08 |
| 0.30250 | 386690.31 (07041324) | 3772107.42 | 0.30728 | (07060408) | 386682.62 | 3772113.83 |
| 0.32482 | 386674.29 (07031908) | 3772123.44 | 0.31114 | (07041324) | 386664.67 | 3772134.34 |
| 0.42774 | 386654.42 (07031908) | 3772145.24 | 0.33377 | (07031908) | 386605.70 | 3772127.29 |
| 0.23353 | 386590.95 (06051308) | 3772133.70 | 0.31277 | (07031908) | 386579.42 | 3772139.47 |
| 0.14109 | 386560.18 (06041108) | 3772147.16 | 0.17135 | (06041108) | 386545.44 | 3772154.85 |
| 0.10827 | 386533.26 (06051308) | 3772162.54 | 0.12078 | (06041108) | 386542.88 | 3772179.85 |
| 0.12580 | 386553.13 (07031908) | 3772195.88 | 0.12203 | (06051308) | 386568.52 | 3772208.70 |
| 0.23783 | 386581.98 (07031908) | 3772192.67 | 0.17528 | (07031908) | 386595.44 | 3772181.13 |
| 0.37738 | 386609.54 (07031908) | 3772168.95 | 0.30952 | (07031908) | 386624.29 | 3772152.29 |
| 0.32292 | 386619.16 (07031908) | 3772140.11 | 0.42162 | (07031908) | 386640.31 | 3772163.83 |
| 0.23207 | 386653.77 (07041324) | 3772174.72 | 0.27276 | (07031908) | 386665.95 | 3772186.26 |
| 0.18292 | 386677.49 (07041324) | 3772197.80 | 0.20537 | (07041324) | 386688.39 | 3772208.70 |
| 0.05726 | 386701.21 (06041108) | 3772222.16 | 0.15817 | (07041324) | 386448.64 | 3772217.67 |
| 0.06468 | 386456.34 (06041108) | 3772212.55 | 0.06044 | (06041108) | 386465.31 | 3772206.13 |
| 0.07370 | 386474.29 (06041108) | 3772200.37 | 0.06920 | (06041108) | 386481.34 | 3772194.60 |
| 0.08557 | 386489.03 (06041108) | 3772190.11 | 0.07784 | (06041108) | 386499.29 | 3772183.06 |
| 0.10094 | 386507.62 (06041108) | 3772177.93 | 0.09245 | (06041108) | 386514.67 | 3772171.52 |
| 0.17337 | 386576.85 (07031908) | 3772219.60 | 0.14233 | (07031908) | 386586.47 | 3772209.34 |
| 0.25582 | 386597.36 (07031908) | 3772197.80 | 0.21501 | (07031908) | 386606.98 | 3772187.54 |
| *** | AERMOD - VERSION 09292 *** | | *** | Elysian | | |
| *** | 11/23/10 | | *** | Buried CO | | |
| *** | 09:17:55 | | | | | |

PAGE 13

**MODELOPTs: RegDEFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

Buried Cover CO Unmitigated

SOURCE GROUP: SRCGP1 ***
 *** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR
 INCLUDING SOURCE(S): PAREA3 , PAREA4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF CO IN PPM

**

| CONC | X-COORD (M) (YYMMDDHH) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) |
|---------|---------------------------|-------------|---------|------------|-------------|-------------|
| 0.38581 | 386620.44 (06082908) | 3772178.57 | 0.29714 | (07031908) | 386742.87 | 3772003.56 |
| 0.07450 | 386386.30 (07020208) | 3771087.29 | 0.07326 | (07020208) | 386399.28 | 3771081.52 |
| 0.00378 | 386409.38 (06041108) | 3771067.10 | 0.07500 | (07020208) | 385296.78 | 3773131.99 |
| 0.00373 | 385287.93 (06041108) | 3773147.05 | 0.00375 | (06041108) | 385283.50 | 3773159.45 |
| 0.00473 | 385576.69 (06051308) | 3773089.48 | 0.00461 | (06051308) | 385597.95 | 3773060.25 |
| 0.00481 | 385609.46 (06051308) | 3773037.22 | 0.00475 | (06051308) | 385629.84 | 3772997.36 |
| 0.00523 | 385654.64 (06042708) | 3772953.07 | 0.00495 | (06042708) | 385706.01 | 3772876.89 |
| 0.00625 | 385752.07 (06041108) | 3772808.69 | 0.00557 | (06041108) | 385816.74 | 3772724.54 |
| 0.00789 | 385886.71 (06041108) | 3772645.70 | 0.00703 | (06041108) | 385952.26 | 3772579.27 |
| 0.01107 | 386020.46 (06041108) | 3772519.04 | 0.00910 | (06041108) | 386093.98 | 3772463.23 |
| 0.01939 | 386169.27 (06041108) | 3772410.97 | 0.01418 | (06041108) | 386248.11 | 3772359.60 |
| 0.04286 | 386328.71 (06041108) | 3772309.11 | 0.02805 | (06041108) | 386407.55 | 3772253.30 |
| 0.03895 | 387116.28 (07101324) | 3772187.40 | 0.04456 | (07111924) | 387141.00 | 3772141.51 |
| 0.03980 | 387201.01 (07111924) | 3772180.34 | 0.03205 | (07111924) | 387155.12 | 3772229.77 |
| 0.03283 | 386943.29 (06101508) | 3772540.45 | 0.03334 | (06101508) | 386925.64 | 3772582.82 |
| 0.05373 | 386526.69 (07122008) | 3770944.68 | 0.05466 | (06081708) | 386466.67 | 3770937.61 |
| 0.04580 | 386537.28 (06081708) | 3770884.66 | 0.04651 | (06081708) | 386480.80 | 3770881.13 |
| 0.01068 | 387374.01 (06103008) | 3771597.81 | 0.02466 | (06103108) | 384880.19 | 3771187.72 |
| 0.01063 | 384901.45 (07012808) | 3771161.15 | 0.01071 | (06103008) | 384909.41 | 3771118.65 |
| 0.01003 | 384912.07 (07012808) | 3771078.80 | 0.01036 | (07012808) | 384920.04 | 3771052.24 |

*** AERMOD - VERSION 09292 ***
 *** 11/23/10
 *** 09:17:55

*** Elysian
 *** Buried CO

PAGE 14

**MODELOPTs: RegDFAULT CONC

ELEV
 NODRYDPLT NOWETDPLT

SOURCE GROUP: ALL ***
 *** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR
 INCLUDING SOURCE(S): PAREA3 , PAREA4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF CO IN PPM

**

Buried Cover CO Unmitigated

| CONC | X-COORD (M) (YYMMDDHH) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) |
|---------|---------------------------|-------------|---------|------------|-------------|-------------|
| 0.10368 | 386476.85 (07122008) | 3771139.46 | 0.10298 | (07122008) | 386470.44 | 3771149.72 |
| 0.09964 | 386460.18 (07122008) | 3771159.97 | 0.10251 | (07122008) | 386449.29 | 3771172.79 |
| 0.10256 | 386440.31 (06020208) | 3771184.33 | 0.10053 | (06020208) | 386434.54 | 3771197.79 |
| 0.09714 | 386405.05 (06020208) | 3771244.59 | 0.09459 | (06020208) | 386409.54 | 3771235.61 |
| 0.10100 | 386416.59 (06020208) | 3771223.43 | 0.09973 | (06020208) | 386421.08 | 3771217.02 |
| 0.03767 | 386426.21 (07010408) | 3771209.97 | 0.10206 | (06020208) | 386274.28 | 3771299.72 |
| 0.04181 | 386278.77 (06020208) | 3771290.10 | 0.03883 | (06020508) | 386287.75 | 3771280.49 |
| 0.05090 | 386296.08 (06020208) | 3771269.59 | 0.04654 | (06020208) | 386303.13 | 3771259.33 |
| 0.06824 | 386340.31 (06020208) | 3771210.61 | 0.07317 | (06020208) | 386331.34 | 3771222.15 |
| 0.05653 | 386323.00 (06020208) | 3771233.69 | 0.06319 | (06020208) | 386312.75 | 3771248.43 |
| 0.06804 | 386415.31 (07020208) | 3771092.02 | 0.07905 | (07020208) | 386380.05 | 3771051.00 |
| 0.06766 | 386392.23 (07020208) | 3771050.36 | 0.07023 | (07020208) | 386374.29 | 3771063.18 |
| 0.07877 | 386402.49 (07020208) | 3771098.43 | 0.07815 | (07020208) | 386419.80 | 3771082.41 |
| 0.02561 | 386163.39 (06121608) | 3771763.82 | 0.02001 | (06122908) | 386081.33 | 3771480.49 |
| 0.01931 | 386103.77 (06010908) | 3771527.92 | 0.02149 | (06121608) | 386120.44 | 3771576.00 |
| 0.01778 | 386135.82 (06010908) | 3771613.82 | 0.01926 | (06032508) | 386146.72 | 3771651.64 |
| 0.01983 | 386156.33 (06122908) | 3771690.75 | 0.01763 | (07102108) | 386164.67 | 3771730.49 |
| 0.33812 | 386716.60 (07111824) | 3772090.11 | 0.28540 | (07111924) | 386705.70 | 3772082.42 |
| 0.38293 | 386714.67 (07111824) | 3772074.72 | 0.36023 | (07111824) | 386723.00 | 3772061.90 |
| 0.38243 | 386731.99 (07111824) | 3772036.90 | 0.36896 | (06080408) | 386728.13 | 3772051.01 |
| 0.30916 | 386737.11 (07060408) | 3772022.15 | 0.38378 | (07080308) | 386699.29 | 3772099.08 |
| 0.30250 | 386690.31 (07041324) | 3772107.42 | 0.30728 | (07060408) | 386682.62 | 3772113.83 |
| 0.32482 | 386674.29 (07031908) | 3772123.44 | 0.31114 | (07041324) | 386664.67 | 3772134.34 |
| 0.42774 | 386654.42 (07031908) | 3772145.24 | 0.33377 | (07031908) | 386605.70 | 3772127.29 |
| 0.23353 | 386590.95 (06051308) | 3772133.70 | 0.31277 | (07031908) | 386579.42 | 3772139.47 |
| 0.14109 | 386560.18 (06041108) | 3772147.16 | 0.17135 | (06041108) | 386545.44 | 3772154.85 |
| 0.10827 | 386533.26 (06051308) | 3772162.54 | 0.12078 | (06041108) | 386542.88 | 3772179.85 |
| 0.12580 | 386553.13 (07031908) | 3772195.88 | 0.12203 | (06051308) | 386568.52 | 3772208.70 |
| 0.23783 | 386581.98 (07031908) | 3772192.67 | 0.17528 | (07031908) | 386595.44 | 3772181.13 |
| 0.37738 | 386609.54 (07031908) | 3772168.95 | 0.30952 | (07031908) | 386624.29 | 3772152.29 |
| 0.32292 | 386619.16 (07031908) | 3772140.11 | 0.42162 | (07031908) | 386640.31 | 3772163.83 |
| 0.23207 | 386653.77 (07041324) | 3772174.72 | 0.27276 | (07031908) | 386665.95 | 3772186.26 |
| 0.18292 | 386677.49 (07041324) | 3772197.80 | 0.20537 | (07041324) | 386688.39 | 3772208.70 |

Buried Cover CO Unmitigated

| | | | | | | |
|---------|-------------------------|------------|---------|------------|-----------|------------|
| 0.05726 | 386701.21 (06041108) | 3772222.16 | 0.15817 | (07041324) | 386448.64 | 3772217.67 |
| 0.06468 | 386456.34 (06041108) | 3772212.55 | 0.06044 | (06041108) | 386465.31 | 3772206.13 |
| 0.07370 | 386474.29 (06041108) | 3772200.37 | 0.06920 | (06041108) | 386481.34 | 3772194.60 |
| 0.08557 | 386489.03 (06041108) | 3772190.11 | 0.07784 | (06041108) | 386499.29 | 3772183.06 |
| 0.10094 | 386507.62 (06041108) | 3772177.93 | 0.09245 | (06041108) | 386514.67 | 3772171.52 |
| 0.17337 | 386576.85 (07031908) | 3772219.60 | 0.14233 | (07031908) | 386586.47 | 3772209.34 |
| 0.25582 | 386597.36 (07031908) | 3772197.80 | 0.21501 | (07031908) | 386606.98 | 3772187.54 |

*** AERMOD - VERSION 09292 ***
 *** 11/23/10 ***
 *** 09:17:55 ***

*** Elysian
 *** Buried CO

PAGE 15

**MODELOPTs: RegDFAULT CONC

ELEV
 NODRYDPLT NOWETDPLT

*** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): PAREA3 , PAREA4 ,
 *** DISCRETE CARTESIAN RECEPTOR POINTS ***
 ** CONC OF CO IN PPM

| CONC | X-COORD (M) (YYMMDDHH) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) |
|---------|---------------------------|-------------|---------|------------|-------------|-------------|
| 0.38581 | 386620.44 (06082908) | 3772178.57 | 0.29714 | (07031908) | 386742.87 | 3772003.56 |
| 0.07450 | 386386.30 (07020208) | 3771087.29 | 0.07326 | (07020208) | 386399.28 | 3771081.52 |
| 0.00378 | 386409.38 (06041108) | 3771067.10 | 0.07500 | (07020208) | 385296.78 | 3773131.99 |
| 0.00373 | 385287.93 (06041108) | 3773147.05 | 0.00375 | (06041108) | 385283.50 | 3773159.45 |
| 0.00473 | 385576.69 (06051308) | 3773089.48 | 0.00461 | (06051308) | 385597.95 | 3773060.25 |
| 0.00481 | 385609.46 (06051308) | 3773037.22 | 0.00475 | (06051308) | 385629.84 | 3772997.36 |
| 0.00523 | 385654.64 (06042708) | 3772953.07 | 0.00495 | (06042708) | 385706.01 | 3772876.89 |
| 0.00625 | 385752.07 (06041108) | 3772808.69 | 0.00557 | (06041108) | 385816.74 | 3772724.54 |
| 0.00789 | 385886.71 (06041108) | 3772645.70 | 0.00703 | (06041108) | 385952.26 | 3772579.27 |
| 0.01107 | 386020.46 (06041108) | 3772519.04 | 0.00910 | (06041108) | 386093.98 | 3772463.23 |
| 0.01939 | 386169.27 (06041108) | 3772410.97 | 0.01418 | (06041108) | 386248.11 | 3772359.60 |
| 0.04286 | 386328.71 (06041108) | 3772309.11 | 0.02805 | (06041108) | 386407.55 | 3772253.30 |
| 0.03895 | 387116.28 (07101324) | 3772187.40 | 0.04456 | (07111924) | 387141.00 | 3772141.51 |
| 0.03980 | 387201.01 (07111924) | 3772180.34 | 0.03205 | (07111924) | 387155.12 | 3772229.77 |
| 0.03283 | 386943.29 (06101508) | 3772540.45 | 0.03334 | (06101508) | 386925.64 | 3772582.82 |
| 0.05373 | 386526.69 (07122008) | 3770944.68 | 0.05466 | (06081708) | 386466.67 | 3770937.61 |
| 0.04580 | 386537.28 (06081708) | 3770884.66 | 0.04651 | (06081708) | 386480.80 | 3770881.13 |

Buried Cover CO Unmitigated

```

      387374.01  3771597.81      0.02466  (06103108)      384880.19  3771187.72
0.01068  (06103008)
      384901.45  3771161.15      0.01071  (06103008)      384909.41  3771118.65
0.01063  (07012808)
      384912.07  3771078.80      0.01036  (07012808)      384920.04  3771052.24
0.01003  (07012808)
*** AERMOD - VERSION 09292 *** *** Elysian
***      11/23/10
***
***      09:17:55

```

PAGE 16

**MODELOPTs: RegDFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

*** THE SUMMARY OF HIGHEST 1-HR RESULTS ***

```

**
**          ** CONC OF CO          IN PPM
**
**
**
**
**
**
**          DATE
NETWORK
GROUP ID          AVERAGE CONC          (YYMMDDHH)          RECEPTOR (XR, YR,
ZELEV, ZHILL, ZFLAG)  OF TYPE  GRID-ID
-----
SRCGP1  HIGH  1ST HIGH VALUE IS          0.84878  ON 06122919: AT ( 386590.95,  3772133.70,
96.54,   182.00,    0.00) DC
ALL     HIGH  1ST HIGH VALUE IS          0.84878  ON 06122919: AT ( 386590.95,  3772133.70,
96.54,   182.00,    0.00) DC

```

```

*** RECEPTOR TYPES:  GC = GRIDCART
                       GP = GRIDPOLR
                       DC = DISCCART
                       DP = DISCPOLR
*** AERMOD - VERSION 09292 *** *** Elysian
***      11/23/10
***
***      09:17:55

```

PAGE 17

**MODELOPTs: RegDFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

*** THE SUMMARY OF HIGHEST 8-HR RESULTS ***

```

**
**          ** CONC OF CO          IN PPM
**
**
**
**
**
**
**          DATE
NETWORK
GROUP ID          AVERAGE CONC          (YYMMDDHH)          RECEPTOR (XR, YR,
ZELEV, ZHILL, ZFLAG)  OF TYPE  GRID-ID
-----
SRCGP1  HIGH  1ST HIGH VALUE IS          0.42774  ON 07031908: AT ( 386605.70,  3772127.29,
95.60,   182.00,    0.00) DC
ALL     HIGH  1ST HIGH VALUE IS          0.42774  ON 07031908: AT ( 386605.70,  3772127.29,
95.60,   182.00,    0.00) DC

```

```

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

```

Buried Cover CO Unmitigated

DP = DISCPOLR
*** AERMOD - VERSION 09292 *** *** Elysian
*** 11/23/10 *** Buried CO
*** 09:17:55

PAGE 18

**MODELOPTs: RegDEFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

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

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

A Total of 0 Fatal Error Message(s)
A Total of 0 Warning Message(s)
A Total of 113 Informational Message(s)

A Total of 17520 Hours Were Processed

A Total of 0 Calm Hours Identified

A Total of 113 Missing Hours Identified (0.64 Percent)

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

***** WARNING MESSAGES *****
*** NONE ***

*** AERMOD Finishes Successfully ***

Buried Cover PM2.5 Mitigated

```
**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 6.7.1
** Lakes Environmental Software Inc.
** Date: 11/23/2010
** File: C:\Documents and Settings\jbailey\Desktop\Elysian Park AerMod\elysian\B_PM25M.ADI
**
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**
CO STARTING
  TITLEONE Elysian
  TITLETWO Buried PM25 Mitigated
  MODELOPT DFAULT CONC NODRYDPLT NOWETDPLT
  AVERTIME 24
  URBANOPT 9862049 LA
  POLLUTID PM.25
  RUNORNOT RUN
CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
  LOCATION PAREA3 AREAPOLY 386606.494 3771295.572 139.670
** DESCRSRC Reservoir
  LOCATION PAREA4 AREAPOLY 386596.536 3772117.718 96.500
** DESCRSRC Caltrans
  LOCATION AREA2 AREA 386602.251 3772074.114 96.950
  LOCATION AREA3 AREA 386514.382 3771483.886 154.350
** Source Parameters **
  SRCPARAM PAREA3 1.938E-06 5.000 18
  AREAVERT PAREA3 386606.494 3771295.572 386560.430 3771386.706
  AREAVERT PAREA3 386502.641 3771467.538 386454.064 3771523.011
  AREAVERT PAREA3 386432.288 3771547.577 386455.739 3771575.313
  AREAVERT PAREA3 386485.890 3771583.238 386543.680 3771557.879
  AREAVERT PAREA3 386593.931 3771507.954 386619.057 3771483.387
  AREAVERT PAREA3 386650.046 3771442.179 386660.096 3771427.914
  AREAVERT PAREA3 386676.847 3771408.103 386688.572 3771388.291
  AREAVERT PAREA3 386676.847 3771361.347 386655.909 3771323.308
  AREAVERT PAREA3 386640.833 3771309.044 386614.032 3771295.572
  SRCPARAM PAREA4 8.1406E-06 5.000 14
  AREAVERT PAREA4 386596.536 3772117.718 386580.846 3772089.725
  AREAVERT PAREA4 386632.070 3772053.383 386637.838 3772051.173
  AREAVERT PAREA4 386652.144 3772050.928 386668.065 3772039.387
  AREAVERT PAREA4 386682.371 3772010.903 386693.678 3771992.977
  AREAVERT PAREA4 386695.985 3771989.049 386717.213 3771999.362
  AREAVERT PAREA4 386696.677 3772048.472 386683.525 3772065.170
  AREAVERT PAREA4 386672.219 3772075.974 386651.914 3772089.234
  SRCPARAM AREA2 0.0000189363 0.000 107.950 39.380 44.060 0.000
  SRCPARAM AREA3 0.0000244149 0.000 107.950 39.380 44.060 0.000
  URBANSRC PAREA3
  URBANSRC PAREA4
  URBANSRC AREA2
  URBANSRC AREA3
  SRCGROUP SRCGP1 PAREA4 PAREA3 AREA2 AREA3
  SRCGROUP ALL
SO FINISHED
**
*****
```

Buried Cover PM2.5 Mitigated

```
** AERMOD Receptor Pathway
*****
**
**
RE STARTING
  INCLUDED B_PM25M.rou
RE FINISHED
**
*****
** AERMOD Meteorology Pathway
*****
**
**
ME STARTING
  SURFFILE "L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\cela.SFC"
  PROFFILE "L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\cela.PFL"
  SURFDATA 0 2006
  UAIRDATA 3190 2006
  PROFBASE 10 METERS
ME FINISHED
**
*****
** AERMOD Output Pathway
*****
**
**
OU STARTING
  RECTABLE ALLAVE 1ST
  RECTABLE 24 1ST
** Auto-Generated Plotfiles
  PLOTFILE 24 ALL 1ST B_PM25M.AD\24H1GALL.PLT
  PLOTFILE 24 SRCGP1 1ST B_PM25M.AD\24H1G001.PLT
OU FINISHED

*****
*** SETUP Finishes Successfully ***
*****

*** AERMOD - VERSION 09292 ***      *** Elysian
***      11/23/10
***                                     *** Buried PM25 Mitigated
***      09:06:02

PAGE 1
**MODELOPTs:  RegDFault CONC
                                                    ELEV
                                                    NODRYDPLT NOWETDPLT
***      MODEL SETUP OPTIONS SUMMARY      ***
-----
**Model Is Setup For Calculation of Average CONCentration Values.

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

**Model Uses URBAN Dispersion Algorithm for the SBL for      4 Source(s),
for Total of      1 Urban Area(s):
Urban Population =  9862049.0 ; Urban Roughness Length =  1.000 m

**Model Uses Regulatory DEFAULT Options:
1. Stack-tip Downwash.
2. Model Accounts for ELEVated Terrain Effects.
3. Use Calms Processing Routine.
4. Use Missing Data Processing Routine.
5. No Exponential Decay for URBAN/Non-SO2.
6. Urban Roughness Length of 1.0 Meter Assumed.
```

Buried Cover PM2.5 Mitigated

**Model Assumes No FLAGPOLE Receptor Heights.
 **Model Calculates 1 Short Term Average(s) of: 24-HR
 **This Run Includes: 4 Source(s); 2 Source Group(s); and 120 Receptor(s)
 **The Model Assumes A Pollutant Type of: PM.25
 **Model Set To Continue RUNning After the Setup Testing.
 **Output Options Selected:
 Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
 Model Outputs External File(s) of High Values for Plotting (PLOTFILE 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) = 10.00 ; Decay Coef. = 0.000
 ; Rot. Angle = 0.0
 Emission Units = GRAMS/SEC ; Emission Rate
 Unit Factor = 0.10000E+07
 Output Units = MICROGRAMS/M**3

**Approximate Storage Requirements of Model = 3.5 MB of RAM.

*** AERMOD - VERSION 09292 *** *** Elysian
 *** 11/23/10
 *** Buried PM25 Mitigated
 *** 09:06:02

PAGE 2

**MODELOPTs: RegDFAULT CONC ELEV
 NODRYDPLT NOWETDPLT

*** AREA SOURCE DATA ***

| ORIENT. | NUMBER INIT. | EMISSION RATE URBAN EMISSION RATE | COORD (SW CORNER) | | BASE | RELEASE | X-DIM | Y-DIM |
|---------|-----------------|--------------------------------------|-------------------|----------|----------|----------|----------|----------|
| SOURCE | PART. | (GRAMS/SEC | X | Y | ELEV. | HEIGHT | OF AREA | OF AREA |
| AREA | SZ | SCALAR VARY | | | | | | |
| (DEG.) | (METERS) | CATS. /METER**2) | (METERS) | (METERS) | (METERS) | (METERS) | (METERS) | (METERS) |
| BY | | | | | | | | |

| | | | | | | | | |
|-------|------|-------------|----------|-----------|-------|------|--------|-------|
| AREA2 | 0 | 0.18936E-04 | 386602.3 | 3772074.1 | 97.0 | 0.00 | 107.95 | 39.38 |
| 44.06 | 0.00 | YES | | | | | | |
| AREA3 | 0 | 0.24415E-04 | 386514.4 | 3771483.9 | 154.4 | 0.00 | 107.95 | 39.38 |
| 44.06 | 0.00 | YES | | | | | | |

*** AERMOD - VERSION 09292 *** *** Elysian
 *** 11/23/10
 *** Buried PM25 Mitigated
 *** 09:06:02

PAGE 3

**MODELOPTs: RegDFAULT CONC ELEV
 NODRYDPLT NOWETDPLT

*** AREAPOLY SOURCE DATA ***

| URBAN | NUMBER | EMISSION RATE | LOCATION OF AREA | | BASE | RELEASE | NUMBER | INIT. |
|---------------|--------|------------------|------------------|----------|----------|----------|-----------|----------|
| EMISSION RATE | | (GRAMS/SEC | X | Y | ELEV. | HEIGHT | OF VERTS. | SZ |
| SOURCE | PART. | SCALAR VARY | | | | | | |
| SOURCE | ID | CATS. /METER**2) | (METERS) | (METERS) | (METERS) | (METERS) | (METERS) | (METERS) |
| BY | | | | | | | | |

Buried Cover PM2.5 Mitigated

```

-----
PAREA3      0  0.19380E-05  386606.5  3771295.6  139.7   5.00   18   0.00
YES
PAREA4      0  0.81406E-05  386596.5  3772117.7   96.5   5.00   14   0.00
YES
*** AERMOD - VERSION 09292 ***   *** Elysian
***      11/23/10
***      09:06:02
*** Buried PM25 Mitigated

```

PAGE 4

**MODELOPTs: RegDEFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID SOURCE IDs

SRCGP1 PAREA3 , PAREA4 , AREA2 , AREA3 ,

ALL PAREA3 , PAREA4 , AREA2 , AREA3 ,

```

*** AERMOD - VERSION 09292 ***   *** Elysian
***      11/23/10
***      09:06:02
*** Buried PM25 Mitigated

```

PAGE 5

**MODELOPTs: RegDEFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

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

```

( 386476.8, 3771139.5, 143.3, 181.0, 0.0); ( 386470.4, 3771149.7,
144.2, 181.0, 0.0);
( 386460.2, 3771160.0, 145.3, 181.0, 0.0); ( 386449.3, 3771172.8,
146.6, 181.0, 0.0);
( 386440.3, 3771184.3, 147.6, 181.0, 0.0); ( 386434.5, 3771197.8,
148.6, 181.0, 0.0);
( 386405.0, 3771244.6, 152.9, 181.0, 0.0); ( 386409.5, 3771235.6,
151.9, 181.0, 0.0);
( 386416.6, 3771223.4, 150.9, 181.0, 0.0); ( 386421.1, 3771217.0,
150.3, 181.0, 0.0);
( 386426.2, 3771210.0, 149.6, 181.0, 0.0); ( 386274.3, 3771299.7,
168.1, 181.0, 0.0);
( 386278.8, 3771290.1, 167.4, 181.0, 0.0); ( 386287.8, 3771280.5,
166.6, 181.0, 0.0);
( 386296.1, 3771269.6, 164.9, 181.0, 0.0); ( 386303.1, 3771259.3,
163.5, 181.0, 0.0);
( 386340.3, 3771210.6, 155.9, 181.0, 0.0); ( 386331.3, 3771222.1,
157.6, 181.0, 0.0);
( 386323.0, 3771233.7, 159.3, 181.0, 0.0); ( 386312.8, 3771248.4,
161.6, 181.0, 0.0);
( 386415.3, 3771092.0, 143.8, 181.0, 0.0); ( 386380.0, 3771051.0,
142.9, 164.0, 0.0);
( 386392.2, 3771050.4, 142.2, 181.0, 0.0); ( 386374.3, 3771063.2,
144.0, 164.0, 0.0);
( 386402.5, 3771098.4, 144.8, 181.0, 0.0); ( 386419.8, 3771082.4,
142.9, 181.0, 0.0);
( 386163.4, 3771763.8, 182.0, 182.0, 0.0); ( 386081.3, 3771480.5,
178.0, 178.0, 0.0);
( 386103.8, 3771527.9, 179.8, 179.8, 0.0); ( 386120.4, 3771576.0,
181.1, 181.1, 0.0);

```

Buried Cover PM2.5 Mitigated

| | | | | |
|------------------------|--------|--------|-------|------------------------|
| (386135.8, 3771613.8, | 182.0, | 182.0, | 0.0); | (386146.7, 3771651.6, |
| 182.0, 182.0, 0.0); | | | | |
| (386156.3, 3771690.8, | 182.0, | 182.0, | 0.0); | (386164.7, 3771730.5, |
| 182.0, 182.0, 0.0); | | | | |
| (386716.6, 3772090.1, | 93.4, | 182.0, | 0.0); | (386705.7, 3772082.4, |
| 93.0, 182.0, 0.0); | | | | |
| (386714.7, 3772074.7, | 93.3, | 182.0, | 0.0); | (386723.0, 3772061.9, |
| 93.7, 182.0, 0.0); | | | | |
| (386732.0, 3772036.9, | 94.0, | 182.0, | 0.0); | (386728.1, 3772051.0, |
| 93.9, 182.0, 0.0); | | | | |
| (386737.1, 3772022.1, | 94.2, | 182.0, | 0.0); | (386699.3, 3772099.1, |
| 92.7, 182.0, 0.0); | | | | |
| (386690.3, 3772107.4, | 92.4, | 182.0, | 0.0); | (386682.6, 3772113.8, |
| 92.1, 182.0, 0.0); | | | | |
| (386674.3, 3772123.4, | 92.3, | 182.0, | 0.0); | (386664.7, 3772134.3, |
| 92.8, 182.0, 0.0); | | | | |
| (386654.4, 3772145.2, | 93.1, | 182.0, | 0.0); | (386605.7, 3772127.3, |
| 95.6, 182.0, 0.0); | | | | |
| (386591.0, 3772133.7, | 96.5, | 182.0, | 0.0); | (386579.4, 3772139.5, |
| 97.2, 182.0, 0.0); | | | | |
| (386560.2, 3772147.2, | 98.4, | 182.0, | 0.0); | (386545.4, 3772154.8, |
| 99.0, 182.0, 0.0); | | | | |
| (386533.3, 3772162.5, | 99.5, | 182.0, | 0.0); | (386542.9, 3772179.8, |
| 98.2, 182.0, 0.0); | | | | |
| (386553.1, 3772195.9, | 96.9, | 182.0, | 0.0); | (386568.5, 3772208.7, |
| 95.5, 182.0, 0.0); | | | | |
| (386582.0, 3772192.7, | 95.3, | 182.0, | 0.0); | (386595.4, 3772181.1, |
| 94.8, 182.0, 0.0); | | | | |
| (386609.5, 3772168.9, | 94.5, | 182.0, | 0.0); | (386624.3, 3772152.3, |
| 94.3, 182.0, 0.0); | | | | |
| (386619.2, 3772140.1, | 94.7, | 182.0, | 0.0); | (386640.3, 3772163.8, |
| 93.5, 182.0, 0.0); | | | | |
| (386653.8, 3772174.7, | 93.0, | 182.0, | 0.0); | (386666.0, 3772186.3, |
| 92.7, 182.0, 0.0); | | | | |
| (386677.5, 3772197.8, | 92.5, | 182.0, | 0.0); | (386688.4, 3772208.7, |
| 92.8, 182.0, 0.0); | | | | |
| (386701.2, 3772222.2, | 93.5, | 182.0, | 0.0); | (386448.6, 3772217.7, |
| 102.7, 182.0, 0.0); | | | | |
| (386456.3, 3772212.5, | 102.4, | 182.0, | 0.0); | (386465.3, 3772206.1, |
| 102.1, 182.0, 0.0); | | | | |
| (386474.3, 3772200.4, | 101.8, | 182.0, | 0.0); | (386481.3, 3772194.6, |
| 101.5, 182.0, 0.0); | | | | |
| (386489.0, 3772190.1, | 101.2, | 182.0, | 0.0); | (386499.3, 3772183.1, |
| 100.9, 182.0, 0.0); | | | | |
| (386507.6, 3772177.9, | 100.5, | 182.0, | 0.0); | (386514.7, 3772171.5, |
| 100.3, 182.0, 0.0); | | | | |
| (386576.8, 3772219.6, | 94.6, | 182.0, | 0.0); | (386586.5, 3772209.3, |
| 94.4, 182.0, 0.0); | | | | |
| (386597.4, 3772197.8, | 94.2, | 182.0, | 0.0); | (386607.0, 3772187.5, |
| 94.0, 182.0, 0.0); | | | | |
| (386620.4, 3772178.6, | 93.9, | 182.0, | 0.0); | (386742.9, 3772003.6, |
| 94.5, 182.0, 0.0); | | | | |
| (386386.3, 3771087.3, | 144.9, | 181.0, | 0.0); | (386399.3, 3771081.5, |
| 143.9, 181.0, 0.0); | | | | |
| (386409.4, 3771067.1, | 142.4, | 181.0, | 0.0); | (385296.8, 3773132.0, |
| 117.7, 182.0, 0.0); | | | | |
| (385287.9, 3773147.0, | 117.7, | 182.0, | 0.0); | (385283.5, 3773159.4, |
| 117.2, 182.0, 0.0); | | | | |
| (385576.7, 3773089.5, | 103.9, | 182.0, | 0.0); | (385598.0, 3773060.2, |
| 104.0, 182.0, 0.0); | | | | |

*** AERMOD - VERSION 09292 ***
 *** 11/23/10
 *** 09:06:02

*** Elysian
 *** Buried PM25 Mitigated

PAGE 6
 **MODELOPTs: RegDFault CONC

ELEV
 NODRYPLT NOWETDPLT

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

Buried Cover PM2.5 Mitigated

```

06 01 01 1 23 -36.1 0.645 -9.000 -9.000 -999. 1191. 673.0 0.65 1.00 1.00 5.90
82. 21.3 285.4 17.7
06 01 01 1 24 -35.3 0.633 -9.000 -9.000 -999. 1160. 649.7 0.65 1.00 1.00 5.80
84. 21.3 285.9 17.7

```

First hour of profile data

```

YR MO DY HR HEIGHT F WDIR WSPD AMB_TMP sigmaA sigmaW sigmaV
06 01 01 01 17.7 0 -999. -99.00 286.5 99.0 -99.00 -99.00
06 01 01 01 21.3 1 347. 0.70 -999.0 99.0 -99.00 -99.00

```

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

```

*** AERMOD - VERSION 09292 *** *** Elysian
*** 11/23/10
*** Buried PM25 Mitigated
*** 09:06:02

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PAGE 9

**MODELOPTs: RegDFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

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*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR
SOURCE GROUP: SRCGP1 ***
INCLUDING SOURCE(S): PAREA3 , PAREA4 , AREA2 , AREA3

```

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM.25 IN MICROGRAMS/M**3

**

| CONC | X-COORD (M) (YYMMDDHH) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) |
|----------|---------------------------|-------------|----------|------------|-------------|-------------|
| 14.02933 | 386476.85 | 3771139.46 | 13.36140 | (06013124) | 386470.44 | 3771149.72 |
| 16.11052 | 386460.18 | 3771159.97 | 15.22729 | (06121424) | 386449.29 | 3771172.79 |
| 18.30278 | 386440.31 | 3771184.33 | 17.12880 | (06011024) | 386434.54 | 3771197.79 |
| 21.32220 | 386405.05 | 3771244.59 | 21.13506 | (07112824) | 386409.54 | 3771235.61 |
| 20.52472 | 386416.59 | 3771223.43 | 20.99255 | (07112824) | 386421.08 | 3771217.02 |
| 8.09488 | 386426.21 | 3771209.97 | 19.74448 | (07112824) | 386274.28 | 3771299.72 |
| 9.24752 | 386278.77 | 3771290.10 | 8.62867 | (07012224) | 386287.75 | 3771280.49 |
| 10.20641 | 386296.08 | 3771269.59 | 9.72004 | (07012224) | 386303.13 | 3771259.33 |
| 14.69559 | 386340.31 | 3771210.61 | 15.36906 | (06010824) | 386331.34 | 3771222.15 |
| 12.10608 | 386323.00 | 3771233.69 | 13.79194 | (06010924) | 386312.75 | 3771248.43 |
| 10.03078 | 386415.31 | 3771092.02 | 11.87018 | (06121424) | 386380.05 | 3771051.00 |
| 10.76020 | 386392.23 | 3771050.36 | 10.26623 | (06121424) | 386374.29 | 3771063.18 |
| 11.60967 | 386402.49 | 3771098.43 | 12.02170 | (06011024) | 386419.80 | 3771082.41 |
| 3.85193 | 386163.39 | 3771763.82 | 2.38870 | (06122924) | 386081.33 | 3771480.49 |
| 2.72816 | 386103.77 | 3771527.92 | 2.78093 | (06020224) | 386120.44 | 3771576.00 |
| 3.44846 | 386135.82 | 3771613.82 | 2.73282 | (06010824) | 386146.72 | 3771651.64 |
| 2.35852 | 386156.33 | 3771690.75 | 2.84023 | (07021824) | 386164.67 | 3771730.49 |
| 79.14069 | 386716.60 | 3772090.11 | 63.30862 | (06101524) | 386705.70 | 3772082.42 |

Buried Cover PM2.5 Mitigated

| | | | | | |
|-----------|------------|----------|------------|-----------|------------|
| 386714.67 | 3772074.72 | 74.34027 | (06101524) | 386723.00 | 3772061.90 |
| 68.28940 | (06050424) | | | | |
| 386731.99 | 3772036.90 | 79.12067 | (06103124) | 386728.13 | 3772051.01 |
| 74.43222 | (06103124) | | | | |
| 386737.11 | 3772022.15 | 73.85200 | (07080324) | 386699.29 | 3772099.08 |
| 68.09851 | (06101524) | | | | |
| 386690.31 | 3772107.42 | 62.63576 | (06101524) | 386682.62 | 3772113.83 |
| 62.44875 | (07090224) | | | | |
| 386674.29 | 3772123.44 | 61.90566 | (07090624) | 386664.67 | 3772134.34 |
| 60.01166 | (06072524) | | | | |
| 386654.42 | 3772145.24 | 58.08677 | (06072524) | 386605.70 | 3772127.29 |
| 44.68435 | (07031824) | | | | |
| 386590.95 | 3772133.70 | 29.48118 | (06042724) | 386579.42 | 3772139.47 |
| 23.28771 | (06042724) | | | | |
| 386560.18 | 3772147.16 | 16.50470 | (06042724) | 386545.44 | 3772154.85 |
| 13.48750 | (06041124) | | | | |
| 386533.26 | 3772162.54 | 11.84199 | (06041124) | 386542.88 | 3772179.85 |
| 11.01858 | (06042724) | | | | |
| 386553.13 | 3772195.88 | 11.07341 | (06051324) | 386568.52 | 3772208.70 |
| 12.25662 | (06051324) | | | | |
| 386581.98 | 3772192.67 | 15.19463 | (07031824) | 386595.44 | 3772181.13 |
| 21.09191 | (07031824) | | | | |
| 386609.54 | 3772168.95 | 30.55262 | (07031924) | 386624.29 | 3772152.29 |
| 49.56257 | (07031924) | | | | |
| 386619.16 | 3772140.11 | 53.05325 | (07031924) | 386640.31 | 3772163.83 |
| 46.99497 | (07031924) | | | | |
| 386653.77 | 3772174.72 | 44.03816 | (06072524) | 386665.95 | 3772186.26 |
| 40.07806 | (06072524) | | | | |
| 386677.49 | 3772197.80 | 35.74425 | (06072524) | 386688.39 | 3772208.70 |
| 31.76502 | (06072524) | | | | |
| 386701.21 | 3772222.16 | 27.07513 | (06072524) | 386448.64 | 3772217.67 |
| 5.72973 | (06041124) | | | | |
| 386456.34 | 3772212.55 | 6.07261 | (06041124) | 386465.31 | 3772206.13 |
| 6.51228 | (06041124) | | | | |
| 386474.29 | 3772200.37 | 6.99129 | (06041124) | 386481.34 | 3772194.60 |
| 7.43574 | (06041124) | | | | |
| 386489.03 | 3772190.11 | 7.90447 | (06041124) | 386499.29 | 3772183.06 |
| 8.66134 | (06041124) | | | | |
| 386507.62 | 3772177.93 | 9.32460 | (06041124) | 386514.67 | 3772171.52 |
| 10.09471 | (06041124) | | | | |
| 386576.85 | 3772219.60 | 12.14847 | (07031824) | 386586.47 | 3772209.34 |
| 14.96890 | (07031824) | | | | |
| 386597.36 | 3772197.80 | 19.36366 | (07031824) | 386606.98 | 3772187.54 |
| 24.84729 | (07031924) | | | | |

*** AERMOD - VERSION 09292 ***
 *** 11/23/10
 *** 09:06:02

*** Elysian
 *** Buried PM25 Mitigated

PAGE 10

**MODELOPTs: RegDFault CONC

ELEV
 NODRYDPLT NOWETDPLT

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: SRCGP1 ***
 INCLUDING SOURCE(S): PAREA3 , PAREA4 , AREA2 , AREA3

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM.25 IN MICROGRAMS/M**3

**

| CONC | X-COORD (M) (YYMMDDHH) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) |
|----------|---------------------------|-------------|----------|------------|-------------|-------------|
| 57.34894 | 386620.44 | 3772178.57 | 35.07594 | (07031924) | 386742.87 | 3772003.56 |
| | (07080324) | | | | | |
| 11.15463 | 386386.30 | 3771087.29 | 11.82812 | (06011024) | 386399.28 | 3771081.52 |
| | (06121424) | | | | | |

Buried Cover PM2.5 Mitigated

| | | | | | | |
|--------------------------------|-------------------------|------------|---------------------------|------------|-----------|------------|
| 0.38468 | 386409.38 (06120924) | 3771067.10 | 11.01660 | (06121424) | 385296.78 | 3773131.99 |
| 0.39420 | 385287.93 (06120924) | 3773147.05 | 0.38811 | (06120924) | 385283.50 | 3773159.45 |
| 0.45632 | 385576.69 (07080524) | 3773089.48 | 0.45016 | (07080524) | 385597.95 | 3773060.25 |
| 0.45613 | 385609.46 (06120924) | 3773037.22 | 0.45379 | (07080524) | 385629.84 | 3772997.36 |
| 0.55282 | 385654.64 (06120924) | 3772953.07 | 0.49762 | (06120924) | 385706.01 | 3772876.89 |
| 0.62035 | 385752.07 (06120924) | 3772808.69 | 0.59236 | (06120924) | 385816.74 | 3772724.54 |
| 0.87190 | 385886.71 (07102124) | 3772645.70 | 0.71777 | (07102124) | 385952.26 | 3772579.27 |
| 1.29339 | 386020.46 (07102124) | 3772519.04 | 1.06993 | (07102124) | 386093.98 | 3772463.23 |
| 1.72844 | 386169.27 (06041124) | 3772410.97 | 1.42983 | (07102124) | 386248.11 | 3772359.60 |
| 4.26028 | 386328.71 (06041124) | 3772309.11 | 2.64115 | (06041124) | 386407.55 | 3772253.30 |
| 5.97066 | 387116.28 (06051624) | 3772187.40 | 5.55745 | (06101524) | 387141.00 | 3772141.51 |
| 4.62974 | 387201.01 (06101524) | 3772180.34 | 4.29195 | (07082424) | 387155.12 | 3772229.77 |
| 3.63733 | 386943.29 (06101524) | 3772540.45 | 3.63025 | (06101524) | 386925.64 | 3772582.82 |
| 6.67032 | 386526.69 (06111224) | 3770944.68 | 5.26047 | (06111224) | 386466.67 | 3770937.61 |
| 5.32854 | 386537.28 (06111224) | 3770884.66 | 4.09766 | (07092524) | 386480.80 | 3770881.13 |
| 1.18768 | 387374.01 (06103024) | 3771597.81 | 3.16056 | (07080324) | 384880.19 | 3771187.72 |
| 1.16754 | 384901.45 (07012824) | 3771161.15 | 1.16747 | (06103024) | 384909.41 | 3771118.65 |
| 1.02034 | 384912.07 (07012824) | 3771078.80 | 1.09595 | (07012824) | 384920.04 | 3771052.24 |
| *** AERMOD - VERSION 09292 *** | | | *** Elysian | | | |
| *** 11/23/10 | | | *** Buried PM25 Mitigated | | | |
| *** 09:06:02 | | | | | | |

PAGE 11

**MODELOPTs: RegDFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

SOURCE GROUP: ALL *** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR
INCLUDING SOURCE(S): PAREA3 , PAREA4 , AREA2 , AREA3

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

| ** CONC OF PM.25 IN MICROGRAMS/M**3 | | | | | | |
|-------------------------------------|-------------------------|------------|----------|------------|-----------|------------|
| CONC | (YYMMDDHH) | | | | | |
| X-COORD (M) | Y-COORD (M) | | | | | |
| (YYMMDDHH) | (YYMMDDHH) | | | | | |
| 14.02933 | 386476.85 (06121424) | 3771139.46 | 13.36140 | (06013124) | 386470.44 | 3771149.72 |
| 16.11052 | 386460.18 (06121424) | 3771159.97 | 15.22729 | (06121424) | 386449.29 | 3771172.79 |
| 18.30278 | 386440.31 (06011024) | 3771184.33 | 17.12880 | (06011024) | 386434.54 | 3771197.79 |
| 21.32220 | 386405.05 (07112824) | 3771244.59 | 21.13506 | (07112824) | 386409.54 | 3771235.61 |
| 20.52472 | 386416.59 (07112824) | 3771223.43 | 20.99255 | (07112824) | 386421.08 | 3771217.02 |
| 8.09488 | 386426.21 (07012224) | 3771209.97 | 19.74448 | (07112824) | 386274.28 | 3771299.72 |

Buried Cover PM2.5 Mitigated

| | | | | | |
|----------|----------------------------|------------|---------------------|-----------|------------|
| 9.24752 | 386278.77 (07012224) | 3771290.10 | 8.62867 (07012224) | 386287.75 | 3771280.49 |
| 10.20641 | 386296.08 (06010924) | 3771269.59 | 9.72004 (07012224) | 386303.13 | 3771259.33 |
| 14.69559 | 386340.31 (06010924) | 3771210.61 | 15.36906 (06010824) | 386331.34 | 3771222.15 |
| 12.10608 | 386323.00 (06010924) | 3771233.69 | 13.79194 (06010924) | 386312.75 | 3771248.43 |
| 10.03078 | 386415.31 (06011024) | 3771092.02 | 11.87018 (06121424) | 386380.05 | 3771051.00 |
| 10.76020 | 386392.23 (06011024) | 3771050.36 | 10.26623 (06121424) | 386374.29 | 3771063.18 |
| 11.60967 | 386402.49 (06121424) | 3771098.43 | 12.02170 (06011024) | 386419.80 | 3771082.41 |
| 3.85193 | 386163.39 (06121624) | 3771763.82 | 2.38870 (06122924) | 386081.33 | 3771480.49 |
| 2.72816 | 386103.77 (06032524) | 3771527.92 | 2.78093 (06020224) | 386120.44 | 3771576.00 |
| 3.44846 | 386135.82 (07021824) | 3771613.82 | 2.73282 (06010824) | 386146.72 | 3771651.64 |
| 2.35852 | 386156.33 (07112524) | 3771690.75 | 2.84023 (07021824) | 386164.67 | 3771730.49 |
| 79.14069 | 386716.60 (06101524) | 3772090.11 | 63.30862 (06101524) | 386705.70 | 3772082.42 |
| 68.28940 | 386714.67 (06050424) | 3772074.72 | 74.34027 (06101524) | 386723.00 | 3772061.90 |
| 74.43222 | 386731.99 (06103124) | 3772036.90 | 79.12067 (06103124) | 386728.13 | 3772051.01 |
| 68.09851 | 386737.11 (06101524) | 3772022.15 | 73.85200 (07080324) | 386699.29 | 3772099.08 |
| 62.44875 | 386690.31 (07090224) | 3772107.42 | 62.63576 (06101524) | 386682.62 | 3772113.83 |
| 60.01166 | 386674.29 (06072524) | 3772123.44 | 61.90566 (07090624) | 386664.67 | 3772134.34 |
| 44.68435 | 386654.42 (07031824) | 3772145.24 | 58.08677 (06072524) | 386605.70 | 3772127.29 |
| 23.28771 | 386590.95 (06042724) | 3772133.70 | 29.48118 (06042724) | 386579.42 | 3772139.47 |
| 13.48750 | 386560.18 (06041124) | 3772147.16 | 16.50470 (06042724) | 386545.44 | 3772154.85 |
| 11.01858 | 386533.26 (06042724) | 3772162.54 | 11.84199 (06041124) | 386542.88 | 3772179.85 |
| 12.25662 | 386553.13 (06051324) | 3772195.88 | 11.07341 (06051324) | 386568.52 | 3772208.70 |
| 21.09191 | 386581.98 (07031824) | 3772192.67 | 15.19463 (07031824) | 386595.44 | 3772181.13 |
| 49.56257 | 386609.54 (07031924) | 3772168.95 | 30.55262 (07031924) | 386624.29 | 3772152.29 |
| 46.99497 | 386619.16 (07031924) | 3772140.11 | 53.05325 (07031924) | 386640.31 | 3772163.83 |
| 40.07806 | 386653.77 (06072524) | 3772174.72 | 44.03816 (06072524) | 386665.95 | 3772186.26 |
| 31.76502 | 386677.49 (06072524) | 3772197.80 | 35.74425 (06072524) | 386688.39 | 3772208.70 |
| 5.72973 | 386701.21 (06041124) | 3772222.16 | 27.07513 (06072524) | 386448.64 | 3772217.67 |
| 6.51228 | 386456.34 (06041124) | 3772212.55 | 6.07261 (06041124) | 386465.31 | 3772206.13 |
| 7.43574 | 386474.29 (06041124) | 3772200.37 | 6.99129 (06041124) | 386481.34 | 3772194.60 |
| 8.66134 | 386489.03 (06041124) | 3772190.11 | 7.90447 (06041124) | 386499.29 | 3772183.06 |
| 10.09471 | 386507.62 (06041124) | 3772177.93 | 9.32460 (06041124) | 386514.67 | 3772171.52 |
| 14.96890 | 386576.85 (07031824) | 3772219.60 | 12.14847 (07031824) | 386586.47 | 3772209.34 |
| 24.84729 | 386597.36 (07031924) | 3772197.80 | 19.36366 (07031824) | 386606.98 | 3772187.54 |
| *** | AERMOD - VERSION 09292 *** | | *** Elysian | | |
| *** | 11/23/10 | | | | |

Buried Cover PM2.5 Mitigated

*** Buried PM25 Mitigated

*** 09:06:02

PAGE 12

**MODELOPTs: RegDFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

SOURCE GROUP: ALL *** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR
INCLUDING SOURCE(S): PAREA3 , PAREA4 , AREA2 , AREA3

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM.25 IN MICROGRAMS/M**3

**

| CONC | X-COORD (M) (YYMMDDHH) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) |
|----------|---------------------------|-------------|----------|------------|-------------|-------------|
| 57.34894 | 386620.44 (07080324) | 3772178.57 | 35.07594 | (07031924) | 386742.87 | 3772003.56 |
| 11.15463 | 386386.30 (06121424) | 3771087.29 | 11.82812 | (06011024) | 386399.28 | 3771081.52 |
| 0.38468 | 386409.38 (06120924) | 3771067.10 | 11.01660 | (06121424) | 385296.78 | 3773131.99 |
| 0.39420 | 385287.93 (06120924) | 3773147.05 | 0.38811 | (06120924) | 385283.50 | 3773159.45 |
| 0.45632 | 385576.69 (07080524) | 3773089.48 | 0.45016 | (07080524) | 385597.95 | 3773060.25 |
| 0.45613 | 385609.46 (06120924) | 3773037.22 | 0.45379 | (07080524) | 385629.84 | 3772997.36 |
| 0.55282 | 385654.64 (06120924) | 3772953.07 | 0.49762 | (06120924) | 385706.01 | 3772876.89 |
| 0.62035 | 385752.07 (06120924) | 3772808.69 | 0.59236 | (06120924) | 385816.74 | 3772724.54 |
| 0.87190 | 385886.71 (07102124) | 3772645.70 | 0.71777 | (07102124) | 385952.26 | 3772579.27 |
| 1.29339 | 386020.46 (07102124) | 3772519.04 | 1.06993 | (07102124) | 386093.98 | 3772463.23 |
| 1.72844 | 386169.27 (06041124) | 3772410.97 | 1.42983 | (07102124) | 386248.11 | 3772359.60 |
| 4.26028 | 386328.71 (06041124) | 3772309.11 | 2.64115 | (06041124) | 386407.55 | 3772253.30 |
| 5.97066 | 387116.28 (06051624) | 3772187.40 | 5.55745 | (06101524) | 387141.00 | 3772141.51 |
| 4.62974 | 387201.01 (06101524) | 3772180.34 | 4.29195 | (07082424) | 387155.12 | 3772229.77 |
| 3.63733 | 386943.29 (06101524) | 3772540.45 | 3.63025 | (06101524) | 386925.64 | 3772582.82 |
| 6.67032 | 386526.69 (06111224) | 3770944.68 | 5.26047 | (06111224) | 386466.67 | 3770937.61 |
| 5.32854 | 386537.28 (06111224) | 3770884.66 | 4.09766 | (07092524) | 386480.80 | 3770881.13 |
| 1.18768 | 387374.01 (06103024) | 3771597.81 | 3.16056 | (07080324) | 384880.19 | 3771187.72 |
| 1.16754 | 384901.45 (07012824) | 3771161.15 | 1.16747 | (06103024) | 384909.41 | 3771118.65 |
| 1.02034 | 384912.07 (07012824) | 3771078.80 | 1.09595 | (07012824) | 384920.04 | 3771052.24 |

*** AERMOD - VERSION 09292 ***
*** 11/23/10

*** Elysian
*** Buried PM25 Mitigated

*** 09:06:02

PAGE 13

**MODELOPTs: RegDFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

*** THE SUMMARY OF HIGHEST 24-HR RESULTS ***

Buried Cover PM2.5 Mitigated

```

**
** CONC OF PM.25 IN MICROGRAMS/M**3
**
NETWORK
GROUP ID AVERAGE CONC DATE RECEPTOR (XR, YR,
ZELEV, ZHILL, ZFLAG) OF TYPE GRID-ID
-----
SRCGP1 HIGH 1ST HIGH VALUE IS 79.14069 ON 06101524: AT ( 386705.70, 3772082.42,
92.99, 182.00, 0.00) DC
ALL HIGH 1ST HIGH VALUE IS 79.14069 ON 06101524: AT ( 386705.70, 3772082.42,
92.99, 182.00, 0.00) DC

```

```

*** RECEPTOR TYPES: GC = GRIDCART
                      GP = GRIDPOLR
                      DC = DISCCART
                      DP = DISCPOLR
*** AERMOD - VERSION 09292 *** *** Elysian
*** 11/23/10
*** 09:06:02
*** Buried PM25 Mitigated

```

```

PAGE 14
**MODELOPTs: RegDFAULT CONC
ELEV
NODRYDPLT NOWETDPLT

```

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

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

```

A Total of 0 Fatal Error Message(s)
A Total of 0 Warning Message(s)
A Total of 113 Informational Message(s)
A Total of 17520 Hours Were Processed
A Total of 0 Calm Hours Identified
A Total of 113 Missing Hours Identified ( 0.64 Percent)

```

```

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

```

```

***** WARNING MESSAGES *****
*** NONE ***

```

```

*****
*** AERMOD Finishes Successfully ***
*****

```

Buried Cover PM10 Mitigated

```
**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 6.7.1
** Lakes Environmental Software Inc.
** Date: 11/23/2010
** File: C:\Documents and Settings\jbailey\Desktop\Elysian Park AerMod\elysian\B_PM10M.ADI
**
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**
CO STARTING
  TITLEONE Elysian
  TITLETWO Buried PM10 Mitigated
  MODELOPT DFAULT CONC NODRYDPLT NOWETDPLT
  AVERTIME 24
  URBANOPT 9862049 LA
  POLLUTID PM.10
  RUNORNOT RUN
CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
  LOCATION PAREA3 AREAPOLY 386606.494 3771295.572 139.670
** DESCRSRC Reservoir
  LOCATION PAREA4 AREAPOLY 386596.536 3772117.718 96.500
** DESCRSRC Caltrans
  LOCATION AREA2 AREA 386602.251 3772074.114 96.950
  LOCATION AREA3 AREA 386514.382 3771483.886 154.350
** Source Parameters **
  SRCPARAM PAREA3 2.1116E-06 5.000 18
  AREAVERT PAREA3 386606.494 3771295.572 386560.430 3771386.706
  AREAVERT PAREA3 386502.641 3771467.538 386454.064 3771523.011
  AREAVERT PAREA3 386432.288 3771547.577 386455.739 3771575.313
  AREAVERT PAREA3 386485.890 3771583.238 386543.680 3771557.879
  AREAVERT PAREA3 386593.931 3771507.954 386619.057 3771483.387
  AREAVERT PAREA3 386650.046 3771442.179 386660.096 3771427.914
  AREAVERT PAREA3 386676.847 3771408.103 386688.572 3771388.291
  AREAVERT PAREA3 386676.847 3771361.347 386655.909 3771323.308
  AREAVERT PAREA3 386640.833 3771309.044 386614.032 3771295.572
  SRCPARAM PAREA4 8.842E-06 5.000 14
  AREAVERT PAREA4 386596.536 3772117.718 386580.846 3772089.725
  AREAVERT PAREA4 386632.070 3772053.383 386637.838 3772051.173
  AREAVERT PAREA4 386652.144 3772050.928 386668.065 3772039.387
  AREAVERT PAREA4 386682.371 3772010.903 386693.678 3771992.977
  AREAVERT PAREA4 386695.985 3771989.049 386717.213 3771999.362
  AREAVERT PAREA4 386696.677 3772048.472 386683.525 3772065.170
  AREAVERT PAREA4 386672.219 3772075.974 386651.914 3772089.234
  SRCPARAM AREA2 0.0000915057 0.000 107.950 39.380 44.060 0.000
  SRCPARAM AREA3 0.0001194985 0.000 107.950 39.380 44.060 0.000
  URBANSRC PAREA3
  URBANSRC PAREA4
  URBANSRC AREA2
  URBANSRC AREA3
  SRCGROUP SRCGP1 PAREA4 PAREA3 AREA2 AREA3
  SRCGROUP ALL
SO FINISHED
**
*****
```


Buried Cover PM10 Mitigated

```
** AERMOD Receptor Pathway
*****
**
**
RE STARTING
  INCLUDED B_PM10M.rou
RE FINISHED
**
*****
** AERMOD Meteorology Pathway
*****
**
**
ME STARTING
  SURFFILE "L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\cela.SFC"
  PROFFILE "L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\cela.PFL"
  SURFDATA 0 2006
  UAIRDATA 3190 2006
  PROFBASE 10 METERS
ME FINISHED
**
*****
** AERMOD Output Pathway
*****
**
**
OU STARTING
  RECTABLE ALLAVE 1ST
  RECTABLE 24 1ST
** Auto-Generated Plotfiles
  PLOTFILE 24 ALL 1ST B_PM10M.AD\24H1GALL.PLT
  PLOTFILE 24 SRCGP1 1ST B_PM10M.AD\24H1G001.PLT
OU FINISHED

*****
*** SETUP Finishes Successfully ***
*****

*** AERMOD - VERSION 09292 ***      *** Elysian
***      11/23/10
***                               *** Buried PM10 Mitigated
***      08:54:41

PAGE 1
**MODELOPTs:  RegDEFAULT CONC
                                                    ELEV
                                                    NODRYDPLT NOWETDPLT
***      MODEL SETUP OPTIONS SUMMARY      ***
-----
**Model Is Setup For Calculation of Average CONCentration Values.

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

**Model Uses URBAN Dispersion Algorithm for the SBL for      4 Source(s),
  for Total of      1 Urban Area(s):
  Urban Population =  9862049.0 ; Urban Roughness Length =  1.000 m

**Model Uses Regulatory DEFAULT Options:
  1. Stack-tip Downwash.
  2. Model Accounts for ELEVated Terrain Effects.
  3. Use Calms Processing Routine.
  4. Use Missing Data Processing Routine.
  5. No Exponential Decay for URBAN/Non-SO2.
  6. Urban Roughness Length of 1.0 Meter Assumed.
```

Buried Cover PM10 Mitigated

**Model Assumes No FLAGPOLE Receptor Heights.
 **Model Calculates 1 Short Term Average(s) of: 24-HR
 **This Run Includes: 4 Source(s); 2 Source Group(s); and 120 Receptor(s)
 **The Model Assumes A Pollutant Type of: PM.10
 **Model Set To Continue RUNning After the Setup Testing.
 **Output Options Selected:
 Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
 Model Outputs External File(s) of High Values for Plotting (PLOTFILE 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) = 10.00 ; Decay Coef. = 0.000
 ; Rot. Angle = 0.0
 Emission Units = GRAMS/SEC ; Emission Rate
 Unit Factor = 0.10000E+07
 Output Units = MICROGRAMS/M**3

**Approximate Storage Requirements of Model = 3.5 MB of RAM.

*** AERMOD - VERSION 09292 *** *** Elysian
 *** 11/23/10
 *** Buried PM10 Mitigated
 *** 08:54:41

PAGE 2

**MODELOPTs: RegDFAULT CONC ELEV
 NODRYDPLT NOWETDPLT

*** AREA SOURCE DATA ***

| ORIENT. | NUMBER INIT. | EMISSION RATE URBAN EMISSION RATE | COORD (SW CORNER) | | BASE | RELEASE | X-DIM | Y-DIM |
|---------|-----------------|--------------------------------------|-------------------|----------|----------|----------|----------|----------|
| SOURCE | PART. | (GRAMS/SEC | X | Y | ELEV. | HEIGHT | OF AREA | OF AREA |
| AREA | SZ | SOURCE SCALAR VARY | (METERS) | | (METERS) | (METERS) | (METERS) | (METERS) |
| (DEG.) | (METERS) | CATS. /METER**2) | (METERS) | (METERS) | (METERS) | (METERS) | (METERS) | (METERS) |
| BY | | | | | | | | |

| | | | | | | | | |
|-------|------|-------------|----------|-----------|-------|------|--------|-------|
| AREA2 | 0 | 0.91506E-04 | 386602.3 | 3772074.1 | 97.0 | 0.00 | 107.95 | 39.38 |
| 44.06 | 0.00 | YES | | | | | | |
| AREA3 | 0 | 0.11950E-03 | 386514.4 | 3771483.9 | 154.4 | 0.00 | 107.95 | 39.38 |
| 44.06 | 0.00 | YES | | | | | | |

*** AERMOD - VERSION 09292 *** *** Elysian
 *** 11/23/10
 *** Buried PM10 Mitigated
 *** 08:54:41

PAGE 3

**MODELOPTs: RegDFAULT CONC ELEV
 NODRYDPLT NOWETDPLT

*** AREAPOLY SOURCE DATA ***

| URBAN | NUMBER | EMISSION RATE | LOCATION OF AREA | | BASE | RELEASE | NUMBER | INIT. |
|--------------------|----------|---------------|------------------|----------|----------|----------|-----------|----------|
| SOURCE | PART. | (GRAMS/SEC | X | Y | ELEV. | HEIGHT | OF VERTS. | SZ |
| SOURCE SCALAR VARY | (METERS) | | (METERS) | (METERS) | (METERS) | (METERS) | (METERS) | (METERS) |
| ID | CATS. | /METER**2) | (METERS) | (METERS) | (METERS) | (METERS) | (METERS) | (METERS) |
| BY | | | | | | | | |

Buried Cover PM10 Mitigated

```

-----
PAREA3      0  0.21116E-05  386606.5  3771295.6  139.7    5.00    18      0.00
YES
PAREA4      0  0.88420E-05  386596.5  3772117.7   96.5    5.00    14      0.00
YES
*** AERMOD - VERSION 09292 ***    *** Elysian
***      11/23/10
***      08:54:41
*** Buried PM10 Mitigated

```

PAGE 4

**MODELOPTs: RegDEFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID SOURCE IDs

SRCGP1 PAREA3 , PAREA4 , AREA2 , AREA3 ,

```

ALL PAREA3 , PAREA4 , AREA2 , AREA3 ,
*** AERMOD - VERSION 09292 ***    *** Elysian
***      11/23/10
***      08:54:41
*** Buried PM10 Mitigated

```

PAGE 5

**MODELOPTs: RegDEFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

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

```

( 386476.8, 3771139.5, 143.3, 181.0, 0.0); ( 386470.4, 3771149.7,
144.2, 181.0, 0.0);
( 386460.2, 3771160.0, 145.3, 181.0, 0.0); ( 386449.3, 3771172.8,
146.6, 181.0, 0.0);
( 386440.3, 3771184.3, 147.6, 181.0, 0.0); ( 386434.5, 3771197.8,
148.6, 181.0, 0.0);
( 386405.0, 3771244.6, 152.9, 181.0, 0.0); ( 386409.5, 3771235.6,
151.9, 181.0, 0.0);
( 386416.6, 3771223.4, 150.9, 181.0, 0.0); ( 386421.1, 3771217.0,
150.3, 181.0, 0.0);
( 386426.2, 3771210.0, 149.6, 181.0, 0.0); ( 386274.3, 3771299.7,
168.1, 181.0, 0.0);
( 386278.8, 3771290.1, 167.4, 181.0, 0.0); ( 386287.8, 3771280.5,
166.6, 181.0, 0.0);
( 386296.1, 3771269.6, 164.9, 181.0, 0.0); ( 386303.1, 3771259.3,
163.5, 181.0, 0.0);
( 386340.3, 3771210.6, 155.9, 181.0, 0.0); ( 386331.3, 3771222.1,
157.6, 181.0, 0.0);
( 386323.0, 3771233.7, 159.3, 181.0, 0.0); ( 386312.8, 3771248.4,
161.6, 181.0, 0.0);
( 386415.3, 3771092.0, 143.8, 181.0, 0.0); ( 386380.0, 3771051.0,
142.9, 164.0, 0.0);
( 386392.2, 3771050.4, 142.2, 181.0, 0.0); ( 386374.3, 3771063.2,
144.0, 164.0, 0.0);
( 386402.5, 3771098.4, 144.8, 181.0, 0.0); ( 386419.8, 3771082.4,
142.9, 181.0, 0.0);
( 386163.4, 3771763.8, 182.0, 182.0, 0.0); ( 386081.3, 3771480.5,
178.0, 178.0, 0.0);
( 386103.8, 3771527.9, 179.8, 179.8, 0.0); ( 386120.4, 3771576.0,
181.1, 181.1, 0.0);

```

Buried Cover PM10 Mitigated

| | | | | |
|------------------------|--------|--------|-------|------------------------|
| (386135.8, 3771613.8, | 182.0, | 182.0, | 0.0); | (386146.7, 3771651.6, |
| 182.0, 182.0, 0.0); | | | | |
| (386156.3, 3771690.8, | 182.0, | 182.0, | 0.0); | (386164.7, 3771730.5, |
| 182.0, 182.0, 0.0); | | | | |
| (386716.6, 3772090.1, | 93.4, | 182.0, | 0.0); | (386705.7, 3772082.4, |
| 93.0, 182.0, 0.0); | | | | |
| (386714.7, 3772074.7, | 93.3, | 182.0, | 0.0); | (386723.0, 3772061.9, |
| 93.7, 182.0, 0.0); | | | | |
| (386732.0, 3772036.9, | 94.0, | 182.0, | 0.0); | (386728.1, 3772051.0, |
| 93.9, 182.0, 0.0); | | | | |
| (386737.1, 3772022.1, | 94.2, | 182.0, | 0.0); | (386699.3, 3772099.1, |
| 92.7, 182.0, 0.0); | | | | |
| (386690.3, 3772107.4, | 92.4, | 182.0, | 0.0); | (386682.6, 3772113.8, |
| 92.1, 182.0, 0.0); | | | | |
| (386674.3, 3772123.4, | 92.3, | 182.0, | 0.0); | (386664.7, 3772134.3, |
| 92.8, 182.0, 0.0); | | | | |
| (386654.4, 3772145.2, | 93.1, | 182.0, | 0.0); | (386605.7, 3772127.3, |
| 95.6, 182.0, 0.0); | | | | |
| (386591.0, 3772133.7, | 96.5, | 182.0, | 0.0); | (386579.4, 3772139.5, |
| 97.2, 182.0, 0.0); | | | | |
| (386560.2, 3772147.2, | 98.4, | 182.0, | 0.0); | (386545.4, 3772154.8, |
| 99.0, 182.0, 0.0); | | | | |
| (386533.3, 3772162.5, | 99.5, | 182.0, | 0.0); | (386542.9, 3772179.8, |
| 98.2, 182.0, 0.0); | | | | |
| (386553.1, 3772195.9, | 96.9, | 182.0, | 0.0); | (386568.5, 3772208.7, |
| 95.5, 182.0, 0.0); | | | | |
| (386582.0, 3772192.7, | 95.3, | 182.0, | 0.0); | (386595.4, 3772181.1, |
| 94.8, 182.0, 0.0); | | | | |
| (386609.5, 3772168.9, | 94.5, | 182.0, | 0.0); | (386624.3, 3772152.3, |
| 94.3, 182.0, 0.0); | | | | |
| (386619.2, 3772140.1, | 94.7, | 182.0, | 0.0); | (386640.3, 3772163.8, |
| 93.5, 182.0, 0.0); | | | | |
| (386653.8, 3772174.7, | 93.0, | 182.0, | 0.0); | (386666.0, 3772186.3, |
| 92.7, 182.0, 0.0); | | | | |
| (386677.5, 3772197.8, | 92.5, | 182.0, | 0.0); | (386688.4, 3772208.7, |
| 92.8, 182.0, 0.0); | | | | |
| (386701.2, 3772222.2, | 93.5, | 182.0, | 0.0); | (386448.6, 3772217.7, |
| 102.7, 182.0, 0.0); | | | | |
| (386456.3, 3772212.5, | 102.4, | 182.0, | 0.0); | (386465.3, 3772206.1, |
| 102.1, 182.0, 0.0); | | | | |
| (386474.3, 3772200.4, | 101.8, | 182.0, | 0.0); | (386481.3, 3772194.6, |
| 101.5, 182.0, 0.0); | | | | |
| (386489.0, 3772190.1, | 101.2, | 182.0, | 0.0); | (386499.3, 3772183.1, |
| 100.9, 182.0, 0.0); | | | | |
| (386507.6, 3772177.9, | 100.5, | 182.0, | 0.0); | (386514.7, 3772171.5, |
| 100.3, 182.0, 0.0); | | | | |
| (386576.8, 3772219.6, | 94.6, | 182.0, | 0.0); | (386586.5, 3772209.3, |
| 94.4, 182.0, 0.0); | | | | |
| (386597.4, 3772197.8, | 94.2, | 182.0, | 0.0); | (386607.0, 3772187.5, |
| 94.0, 182.0, 0.0); | | | | |
| (386620.4, 3772178.6, | 93.9, | 182.0, | 0.0); | (386742.9, 3772003.6, |
| 94.5, 182.0, 0.0); | | | | |
| (386386.3, 3771087.3, | 144.9, | 181.0, | 0.0); | (386399.3, 3771081.5, |
| 143.9, 181.0, 0.0); | | | | |
| (386409.4, 3771067.1, | 142.4, | 181.0, | 0.0); | (385296.8, 3773132.0, |
| 117.7, 182.0, 0.0); | | | | |
| (385287.9, 3773147.0, | 117.7, | 182.0, | 0.0); | (385283.5, 3773159.4, |
| 117.2, 182.0, 0.0); | | | | |
| (385576.7, 3773089.5, | 103.9, | 182.0, | 0.0); | (385598.0, 3773060.2, |
| 104.0, 182.0, 0.0); | | | | |

*** AERMOD - VERSION 09292 ***
 *** 11/23/10
 *** 08:54:41

*** Elysian
 *** Buried PM10 Mitigated

PAGE 6
 **MODELOPTs: RegDFault CONC

ELEV
 NODRYPLT NOWETDPLT

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

Buried Cover PM10 Mitigated

```

06 01 01 1 23 -36.1 0.645 -9.000 -9.000 -999. 1191. 673.0 0.65 1.00 1.00 5.90
82. 21.3 285.4 17.7
06 01 01 1 24 -35.3 0.633 -9.000 -9.000 -999. 1160. 649.7 0.65 1.00 1.00 5.80
84. 21.3 285.9 17.7
  
```

First hour of profile data

```

YR MO DY HR HEIGHT F WDIR WSPD AMB_TMP sigmaA sigmaW sigmaV
06 01 01 01 17.7 0 -999. -99.00 286.5 99.0 -99.00 -99.00
06 01 01 01 21.3 1 347. 0.70 -999.0 99.0 -99.00 -99.00
  
```

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

```

*** AERMOD - VERSION 09292 *** *** Elysian
*** 11/23/10
*** Buried PM10 Mitigated
*** 08:54:41
  
```

PAGE 9

**MODELOPTs: RegDFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

```

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR
SOURCE GROUP: SRCGP1 ***
INCLUDING SOURCE(S): PAREA3 , PAREA4 , AREA2 , AREA3
  
```

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM.10 IN MICROGRAMS/M**3

**

| CONC | X-COORD (M) (YYMMDDHH) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) |
|-----------|---------------------------|-------------|-----------|------------|-------------|-------------|
| 52.59619 | 386476.85 | 3771139.46 | 50.25190 | (06013124) | 386470.44 | 3771149.72 |
| 62.03363 | 386460.18 | 3771159.97 | 57.94687 | (06121424) | 386449.29 | 3771172.79 |
| 73.79807 | 386440.31 | 3771184.33 | 67.80816 | (06011024) | 386434.54 | 3771197.79 |
| 89.04541 | 386405.05 | 3771244.59 | 88.65506 | (07112824) | 386409.54 | 3771235.61 |
| 84.26823 | 386416.59 | 3771223.43 | 86.86482 | (07112824) | 386421.08 | 3771217.02 |
| 33.16802 | 386426.21 | 3771209.97 | 80.14754 | (07112824) | 386274.28 | 3771299.72 |
| 38.56016 | 386278.77 | 3771290.10 | 35.56510 | (07012224) | 386287.75 | 3771280.49 |
| 41.70170 | 386296.08 | 3771269.59 | 40.70970 | (06121224) | 386303.13 | 3771259.33 |
| 60.97245 | 386340.31 | 3771210.61 | 63.64745 | (06010824) | 386331.34 | 3771222.15 |
| 50.17819 | 386323.00 | 3771233.69 | 57.38754 | (06010924) | 386312.75 | 3771248.43 |
| 38.39367 | 386415.31 | 3771092.02 | 45.08047 | (06121424) | 386380.05 | 3771051.00 |
| 41.80193 | 386392.23 | 3771050.36 | 38.66294 | (06121424) | 386374.29 | 3771063.18 |
| 44.06344 | 386402.49 | 3771098.43 | 46.11142 | (06011024) | 386419.80 | 3771082.41 |
| 15.84315 | 386163.39 | 3771763.82 | 9.01818 | (06122924) | 386081.33 | 3771480.49 |
| 11.37586 | 386103.77 | 3771527.92 | 10.83615 | (06020224) | 386120.44 | 3771576.00 |
| 13.98098 | 386135.82 | 3771613.82 | 10.95784 | (06032524) | 386146.72 | 3771651.64 |
| 8.88638 | 386156.33 | 3771690.75 | 11.02363 | (07021824) | 386164.67 | 3771730.49 |
| 306.74079 | 386716.60 | 3772090.11 | 240.57083 | (06101524) | 386705.70 | 3772082.42 |

Buried Cover PM10 Mitigated

| | | | | | | |
|-----------|-----------|------------|-----------|------------|-----------|------------|
| 266.76851 | 386714.67 | 3772074.72 | 286.70770 | (06101524) | 386723.00 | 3772061.90 |
| 290.77118 | 386731.99 | 3772036.90 | 313.54863 | (06103124) | 386728.13 | 3772051.01 |
| 260.11191 | 386737.11 | 3772022.15 | 288.59183 | (07080324) | 386699.29 | 3772099.08 |
| 241.37879 | 386690.31 | 3772107.42 | 240.12786 | (07090224) | 386682.62 | 3772113.83 |
| 234.89584 | 386674.29 | 3772123.44 | 238.70360 | (07090624) | 386664.67 | 3772134.34 |
| 148.78294 | 386654.42 | 3772145.24 | 226.92584 | (06072524) | 386605.70 | 3772127.29 |
| 79.25920 | 386590.95 | 3772133.70 | 98.79330 | (06042724) | 386579.42 | 3772139.47 |
| 48.18705 | 386560.18 | 3772147.16 | 58.12159 | (06042724) | 386545.44 | 3772154.85 |
| 39.79272 | 386533.26 | 3772162.54 | 42.92378 | (06041124) | 386542.88 | 3772179.85 |
| 46.04462 | 386553.13 | 3772195.88 | 40.44636 | (06051324) | 386568.52 | 3772208.70 |
| 70.75012 | 386581.98 | 3772192.67 | 55.62942 | (06051324) | 386595.44 | 3772181.13 |
| 184.20861 | 386609.54 | 3772168.95 | 107.50398 | (07031824) | 386624.29 | 3772152.29 |
| 180.27838 | 386619.16 | 3772140.11 | 191.99592 | (07031924) | 386640.31 | 3772163.83 |
| 156.13534 | 386653.77 | 3772174.72 | 170.45388 | (06072524) | 386665.95 | 3772186.26 |
| 123.70556 | 386677.49 | 3772197.80 | 139.48033 | (06072524) | 386688.39 | 3772208.70 |
| 21.25424 | 386701.21 | 3772222.16 | 104.74740 | (06072524) | 386448.64 | 3772217.67 |
| 24.16336 | 386456.34 | 3772212.55 | 22.53856 | (06041124) | 386465.31 | 3772206.13 |
| 27.55024 | 386474.29 | 3772200.37 | 25.94040 | (06041124) | 386481.34 | 3772194.60 |
| 32.02031 | 386489.03 | 3772190.11 | 29.30681 | (06041124) | 386499.29 | 3772183.06 |
| 37.04790 | 386507.62 | 3772177.93 | 34.37510 | (06041124) | 386514.67 | 3772171.52 |
| 49.92329 | 386576.85 | 3772219.60 | 42.87150 | (06051324) | 386586.47 | 3772209.34 |
| 86.81565 | 386597.36 | 3772197.80 | 66.58770 | (07031824) | 386606.98 | 3772187.54 |

*** AERMOD - VERSION 09292 ***
 *** 11/23/10
 *** 08:54:41

*** Elysian
 *** Buried PM10 Mitigated

PAGE 10

**MODELOPTs: RegDFault CONC

ELEV
 NODRYDPLT NOWETDPLT

SOURCE GROUP: SRCGP1 *** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR
 INCLUDING SOURCE(S): PAREA3 , PAREA4 , AREA2 , AREA3

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM.10 IN MICROGRAMS/M**3

**

| CONC | X-COORD (M) (YYMMDDHH) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) |
|-----------|---------------------------|-------------|-----------|------------|-------------|-------------|
| 218.66245 | 386620.44 | 3772178.57 | 128.60684 | (07031924) | 386742.87 | 3772003.56 |
| 42.10633 | 386386.30 | 3771087.29 | 45.80317 | (06011024) | 386399.28 | 3771081.52 |

Buried Cover PM10 Mitigated

| | | | | | | |
|--------------------------------|------------|------------|---------------------------|------------|-----------|------------|
| 1.43243 | 386409.38 | 3771067.10 | 41.72249 | (06121424) | 385296.78 | 3773131.99 |
| | (06120924) | | | | | |
| 1.48504 | 385287.93 | 3773147.05 | 1.45312 | (06120924) | 385283.50 | 3773159.45 |
| | (06120924) | | | | | |
| 1.73302 | 385576.69 | 3773089.48 | 1.71552 | (07080524) | 385597.95 | 3773060.25 |
| | (07080524) | | | | | |
| 1.72842 | 385609.46 | 3773037.22 | 1.71140 | (07080524) | 385629.84 | 3772997.36 |
| | (06041124) | | | | | |
| 2.07967 | 385654.64 | 3772953.07 | 1.87544 | (06041124) | 385706.01 | 3772876.89 |
| | (06041124) | | | | | |
| 2.30355 | 385752.07 | 3772808.69 | 2.21873 | (06120924) | 385816.74 | 3772724.54 |
| | (06041124) | | | | | |
| 3.38341 | 385886.71 | 3772645.70 | 2.74748 | (07102124) | 385952.26 | 3772579.27 |
| | (07102124) | | | | | |
| 5.15147 | 386020.46 | 3772519.04 | 4.21681 | (07102124) | 386093.98 | 3772463.23 |
| | (07102124) | | | | | |
| 6.20967 | 386169.27 | 3772410.97 | 5.64881 | (07102124) | 386248.11 | 3772359.60 |
| | (06041124) | | | | | |
| 15.81765 | 386328.71 | 3772309.11 | 9.65969 | (06041124) | 386407.55 | 3772253.30 |
| | (06041124) | | | | | |
| 22.67582 | 387116.28 | 3772187.40 | 20.80205 | (06101524) | 387141.00 | 3772141.51 |
| | (06051624) | | | | | |
| 17.11587 | 387201.01 | 3772180.34 | 16.39891 | (07082424) | 387155.12 | 3772229.77 |
| | (06101524) | | | | | |
| 13.21824 | 386943.29 | 3772540.45 | 13.16721 | (06101524) | 386925.64 | 3772582.82 |
| | (06101524) | | | | | |
| 24.53257 | 386526.69 | 3770944.68 | 19.25867 | (06081724) | 386466.67 | 3770937.61 |
| | (06111224) | | | | | |
| 19.78800 | 386537.28 | 3770884.66 | 15.45966 | (07092524) | 386480.80 | 3770881.13 |
| | (07101824) | | | | | |
| 4.64413 | 387374.01 | 3771597.81 | 11.98010 | (07080324) | 384880.19 | 3771187.72 |
| | (06103024) | | | | | |
| 4.54177 | 384901.45 | 3771161.15 | 4.54086 | (06103024) | 384909.41 | 3771118.65 |
| | (07012824) | | | | | |
| 3.91506 | 384912.07 | 3771078.80 | 4.22055 | (07012824) | 384920.04 | 3771052.24 |
| | (07010424) | | | | | |
| *** AERMOD - VERSION 09292 *** | | | *** Elysian | | | |
| *** 11/23/10 | | | *** Buried PM10 Mitigated | | | |
| *** 08:54:41 | | | | | | |

PAGE 11

**MODELOPTs: RegDFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR
SOURCE GROUP: ALL *** INCLUDING SOURCE(S): PAREA3 , PAREA4 , AREA2 , AREA3

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM.10 IN MICROGRAMS/M**3

**

| CONC | X-COORD (M) (YYMMDDHH) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) |
|----------|---------------------------|-------------|----------|------------|-------------|-------------|
| 52.59619 | 386476.85 | 3771139.46 | 50.25190 | (06013124) | 386470.44 | 3771149.72 |
| | (06121424) | | | | | |
| 62.03363 | 386460.18 | 3771159.97 | 57.94687 | (06121424) | 386449.29 | 3771172.79 |
| | (06121424) | | | | | |
| 73.79807 | 386440.31 | 3771184.33 | 67.80816 | (06011024) | 386434.54 | 3771197.79 |
| | (06011024) | | | | | |
| 89.04541 | 386405.05 | 3771244.59 | 88.65506 | (07112824) | 386409.54 | 3771235.61 |
| | (07112824) | | | | | |
| 84.26823 | 386416.59 | 3771223.43 | 86.86482 | (07112824) | 386421.08 | 3771217.02 |
| | (07112824) | | | | | |
| 33.16802 | 386426.21 | 3771209.97 | 80.14754 | (07112824) | 386274.28 | 3771299.72 |
| | (07012224) | | | | | |

Buried Cover PM10 Mitigated

| | | | | | |
|-----------|----------------------------|------------|----------------------|-----------|------------|
| 38.56016 | 386278.77 (06121224) | 3771290.10 | 35.56510 (07012224) | 386287.75 | 3771280.49 |
| 41.70170 | 386296.08 (06010924) | 3771269.59 | 40.70970 (06121224) | 386303.13 | 3771259.33 |
| 60.97245 | 386340.31 (06010924) | 3771210.61 | 63.64745 (06010824) | 386331.34 | 3771222.15 |
| 50.17819 | 386323.00 (06010924) | 3771233.69 | 57.38754 (06010924) | 386312.75 | 3771248.43 |
| 38.39367 | 386415.31 (06011024) | 3771092.02 | 45.08047 (06121424) | 386380.05 | 3771051.00 |
| 41.80193 | 386392.23 (06011024) | 3771050.36 | 38.66294 (06121424) | 386374.29 | 3771063.18 |
| 44.06344 | 386402.49 (06121424) | 3771098.43 | 46.11142 (06011024) | 386419.80 | 3771082.41 |
| 15.84315 | 386163.39 (06121624) | 3771763.82 | 9.01818 (06122924) | 386081.33 | 3771480.49 |
| 11.37586 | 386103.77 (06032524) | 3771527.92 | 10.83615 (06020224) | 386120.44 | 3771576.00 |
| 13.98098 | 386135.82 (07021824) | 3771613.82 | 10.95784 (06032524) | 386146.72 | 3771651.64 |
| 8.88638 | 386156.33 (07112524) | 3771690.75 | 11.02363 (07021824) | 386164.67 | 3771730.49 |
| 306.74079 | 386716.60 (06101524) | 3772090.11 | 240.57083 (06101524) | 386705.70 | 3772082.42 |
| 266.76851 | 386714.67 (06050424) | 3772074.72 | 286.70770 (06101524) | 386723.00 | 3772061.90 |
| 290.77118 | 386731.99 (06103124) | 3772036.90 | 313.54863 (06103124) | 386728.13 | 3772051.01 |
| 260.11191 | 386737.11 (06101524) | 3772022.15 | 288.59183 (07080324) | 386699.29 | 3772099.08 |
| 241.37879 | 386690.31 (07090224) | 3772107.42 | 240.12786 (07090224) | 386682.62 | 3772113.83 |
| 234.89584 | 386674.29 (06072524) | 3772123.44 | 238.70360 (07090624) | 386664.67 | 3772134.34 |
| 148.78294 | 386654.42 (07031824) | 3772145.24 | 226.92584 (06072524) | 386605.70 | 3772127.29 |
| 79.25920 | 386590.95 (06042724) | 3772133.70 | 98.79330 (06042724) | 386579.42 | 3772139.47 |
| 48.18705 | 386560.18 (06041124) | 3772147.16 | 58.12159 (06042724) | 386545.44 | 3772154.85 |
| 39.79272 | 386533.26 (06042724) | 3772162.54 | 42.92378 (06041124) | 386542.88 | 3772179.85 |
| 46.04462 | 386553.13 (06051324) | 3772195.88 | 40.44636 (06051324) | 386568.52 | 3772208.70 |
| 70.75012 | 386581.98 (07031824) | 3772192.67 | 55.62942 (06051324) | 386595.44 | 3772181.13 |
| 184.20861 | 386609.54 (07031924) | 3772168.95 | 107.50398 (07031824) | 386624.29 | 3772152.29 |
| 180.27838 | 386619.16 (07031924) | 3772140.11 | 191.99592 (07031924) | 386640.31 | 3772163.83 |
| 156.13534 | 386653.77 (06072524) | 3772174.72 | 170.45388 (06072524) | 386665.95 | 3772186.26 |
| 123.70556 | 386677.49 (06072524) | 3772197.80 | 139.48033 (06072524) | 386688.39 | 3772208.70 |
| 21.25424 | 386701.21 (06041124) | 3772222.16 | 104.74740 (06072524) | 386448.64 | 3772217.67 |
| 24.16336 | 386456.34 (06041124) | 3772212.55 | 22.53856 (06041124) | 386465.31 | 3772206.13 |
| 27.55024 | 386474.29 (06041124) | 3772200.37 | 25.94040 (06041124) | 386481.34 | 3772194.60 |
| 32.02031 | 386489.03 (06041124) | 3772190.11 | 29.30681 (06041124) | 386499.29 | 3772183.06 |
| 37.04790 | 386507.62 (06041124) | 3772177.93 | 34.37510 (06041124) | 386514.67 | 3772171.52 |
| 49.92329 | 386576.85 (07031824) | 3772219.60 | 42.87150 (06051324) | 386586.47 | 3772209.34 |
| 86.81565 | 386597.36 (07031824) | 3772197.80 | 66.58770 (07031824) | 386606.98 | 3772187.54 |
| *** | AERMOD - VERSION 09292 *** | | *** Elysian | | |
| *** | 11/23/10 | | | | |

Buried Cover PM10 Mitigated

*** Buried PM10 Mitigated

*** 08:54:41

PAGE 12

**MODELOPTs: RegDFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

SOURCE GROUP: ALL *** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR
INCLUDING SOURCE(S): PAREA3 , PAREA4 , AREA2 , AREA3

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM.10 IN MICROGRAMS/M**3

**

| CONC | X-COORD (M) (YYMMDDHH) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) |
|-----------|---------------------------|-------------|-----------|------------|-------------|-------------|
| 218.66245 | 386620.44 (07080324) | 3772178.57 | 128.60684 | (07031924) | 386742.87 | 3772003.56 |
| 42.10633 | 386386.30 (06121424) | 3771087.29 | 45.80317 | (06011024) | 386399.28 | 3771081.52 |
| 1.43243 | 386409.38 (06120924) | 3771067.10 | 41.72249 | (06121424) | 385296.78 | 3773131.99 |
| 1.48504 | 385287.93 (06120924) | 3773147.05 | 1.45312 | (06120924) | 385283.50 | 3773159.45 |
| 1.73302 | 385576.69 (07080524) | 3773089.48 | 1.71552 | (07080524) | 385597.95 | 3773060.25 |
| 1.72842 | 385609.46 (06041124) | 3773037.22 | 1.71140 | (07080524) | 385629.84 | 3772997.36 |
| 2.07967 | 385654.64 (06041124) | 3772953.07 | 1.87544 | (06041124) | 385706.01 | 3772876.89 |
| 2.30355 | 385752.07 (06041124) | 3772808.69 | 2.21873 | (06120924) | 385816.74 | 3772724.54 |
| 3.38341 | 385886.71 (07102124) | 3772645.70 | 2.74748 | (07102124) | 385952.26 | 3772579.27 |
| 5.15147 | 386020.46 (07102124) | 3772519.04 | 4.21681 | (07102124) | 386093.98 | 3772463.23 |
| 6.20967 | 386169.27 (06041124) | 3772410.97 | 5.64881 | (07102124) | 386248.11 | 3772359.60 |
| 15.81765 | 386328.71 (06041124) | 3772309.11 | 9.65969 | (06041124) | 386407.55 | 3772253.30 |
| 22.67582 | 387116.28 (06051624) | 3772187.40 | 20.80205 | (06101524) | 387141.00 | 3772141.51 |
| 17.11587 | 387201.01 (06101524) | 3772180.34 | 16.39891 | (07082424) | 387155.12 | 3772229.77 |
| 13.21824 | 386943.29 (06101524) | 3772540.45 | 13.16721 | (06101524) | 386925.64 | 3772582.82 |
| 24.53257 | 386526.69 (06111224) | 3770944.68 | 19.25867 | (06081724) | 386466.67 | 3770937.61 |
| 19.78800 | 386537.28 (07101824) | 3770884.66 | 15.45966 | (07092524) | 386480.80 | 3770881.13 |
| 4.64413 | 387374.01 (06103024) | 3771597.81 | 11.98010 | (07080324) | 384880.19 | 3771187.72 |
| 4.54177 | 384901.45 (07012824) | 3771161.15 | 4.54086 | (06103024) | 384909.41 | 3771118.65 |
| 3.91506 | 384912.07 (07010424) | 3771078.80 | 4.22055 | (07012824) | 384920.04 | 3771052.24 |

*** AERMOD - VERSION 09292 ***
*** 11/23/10

*** Elysian
*** Buried PM10 Mitigated

*** 08:54:41

PAGE 13

**MODELOPTs: RegDFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

*** THE SUMMARY OF HIGHEST 24-HR RESULTS ***

Buried Cover PM10 Mitigated

** CONC OF PM.10 IN MICROGRAMS/M**3

**

| NETWORK | GROUP ID | ZELEV, ZHILL, ZFLAG) | OF TYPE | AVERAGE CONC | GRID-ID | DATE | RECEPTOR | (XR, YR, |
|---------|----------|----------------------|---------|--------------|--------------|------|------------|-------------|
| SRCGP1 | HIGH | 1ST HIGH VALUE IS | | 313.54863 | ON 06103124: | AT (| 386731.99, | 3772036.90, |
| | 94.04, | 182.00, | 0.00) | DC | | | | |
| ALL | HIGH | 1ST HIGH VALUE IS | | 313.54863 | ON 06103124: | AT (| 386731.99, | 3772036.90, |
| | 94.04, | 182.00, | 0.00) | DC | | | | |

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

*** AERMOD - VERSION 09292 *** ** Elysian
 *** 11/23/10
 *** Buried PM10 Mitigated
 *** 08:54:41

PAGE 14

**MODELOPTs: RegDFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

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

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

A Total of 0 Fatal Error Message(s)
 A Total of 0 Warning Message(s)
 A Total of 113 Informational Message(s)
 A Total of 17520 Hours Were Processed
 A Total of 0 Calm Hours Identified
 A Total of 113 Missing Hours Identified (0.64 Percent)

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

***** WARNING MESSAGES *****
 *** NONE ***

 *** AERMOD Finishes Successfully ***

Buried Cover NO2 Mitigated

```
**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 6.7.1
** Lakes Environmental Software Inc.
** Date: 11/23/2010
** File: C:\Documents and Settings\jbailey\Desktop\Elysian Park AerMod\elysian\B_NO2M.ADI
**
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**
CO STARTING
  TITLEONE Elysian
  TITLETWO Buried NO2 Mitigated
  MODELOPT DFAULT CONC NODRYDPLT NOWETDPLT
  AVERTIME 1
  URBANOPT 9862049 LA
  POLLUTID NOX
  RUNORNOT RUN
CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
  LOCATION PAREA3 AREAPOLY 386606.494 3771295.572 139.670
** DESCRSRC Reservoir
  LOCATION PAREA4 AREAPOLY 386598.189 3772118.131 96.350
** DESCRSRC Caltrans
** Source Parameters **
  SRCPARAM PAREA3 5.396E-06 5.000 18
  AREAVERT PAREA3 386606.494 3771295.572 386560.430 3771386.706
  AREAVERT PAREA3 386502.641 3771467.538 386454.064 3771523.011
  AREAVERT PAREA3 386432.288 3771547.577 386455.739 3771575.313
  AREAVERT PAREA3 386485.890 3771583.238 386543.680 3771557.879
  AREAVERT PAREA3 386593.931 3771507.954 386619.057 3771483.387
  AREAVERT PAREA3 386650.046 3771442.179 386660.096 3771427.914
  AREAVERT PAREA3 386676.847 3771408.103 386688.572 3771388.291
  AREAVERT PAREA3 386676.847 3771361.347 386655.909 3771323.308
  AREAVERT PAREA3 386640.833 3771309.044 386614.032 3771295.572
  SRCPARAM PAREA4 0.0000203238 5.000 14
  AREAVERT PAREA4 386598.189 3772118.131 386582.499 3772090.138
  AREAVERT PAREA4 386633.724 3772053.797 386639.492 3772051.587
  AREAVERT PAREA4 386653.798 3772051.341 386669.719 3772039.800
  AREAVERT PAREA4 386684.025 3772011.316 386695.331 3771993.391
  AREAVERT PAREA4 386697.639 3771989.462 386718.867 3771999.775
  AREAVERT PAREA4 386698.331 3772048.886 386685.179 3772065.583
  AREAVERT PAREA4 386673.872 3772076.387 386653.567 3772089.647
  URBANSRC PAREA3
  URBANSRC PAREA4
  CONCUNIT 531.5 GRAMS/SEC PPM
  SRCGROUP SRCGP1 PAREA4 PAREA3
  SRCGROUP ALL
SO FINISHED
**
*****
** AERMOD Receptor Pathway
*****
**
**
RE STARTING
```

Buried Cover NO2 Mitigated

```

INCLUDED B_NO2M.rou
RE FINISHED
**
*****
** AERMOD Meteorology Pathway
*****
**
**
ME STARTING
SURFFILE "L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\cela.SFC"
PROFFILE "L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\cela.PFL"
SURFDATA 0 2006
UAIRDATA 3190 2006
PROFBASE 10 METERS
ME FINISHED
**
*****
** AERMOD Output Pathway
*****
**
**
OU STARTING
RECTABLE ALLAVE 1ST
RECTABLE 1 1ST
** Auto-Generated Plotfiles
PLOTFILE 1 ALL 1ST B_NO2M.AD\01H1GALL.PLT
PLOTFILE 1 SRCGP1 1ST B_NO2M.AD\01H1G001.PLT
OU FINISHED

*****
*** SETUP Finishes Successfully ***
*****

*** AERMOD - VERSION 09292 ***      *** Elysian
***      11/23/10
***                               *** Buried NO2 Mitigated

***      08:45:20

```

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PAGE 1
**MODELOPTs:  RegDFault CONC
                                                    ELEV
                                                    NODRYDPLT NOWETDPLT

***      MODEL SETUP OPTIONS SUMMARY      ***
-----
**Model Is Setup For Calculation of Average CONCentration Values.

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

**Model Uses URBAN Dispersion Algorithm for the SBL for      2 Source(s),
for Total of      1 Urban Area(s):
Urban Population =  9862049.0 ;  Urban Roughness Length =  1.000 m

**Model Uses Regulatory DEFAULT Options:
1. Stack-tip Downwash.
2. Model Accounts for ELEVated Terrain Effects.
3. Use Calms Processing Routine.
4. Use Missing Data Processing Routine.
5. No Exponential Decay for URBAN/Non-SO2.
6. Urban Roughness Length of 1.0 Meter Assumed.

**Model Assumes No FLAGPOLE Receptor Heights.

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

**This Run Includes:      2 Source(s);      2 Source Group(s); and      120 Receptor(s)

```

Buried Cover NO2 Mitigated

**The Model Assumes A Pollutant Type of: NOX

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

**Output Options Selected:

Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
 Model Outputs External File(s) of High Values for Plotting (PLOTFILE 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) = 10.00 ; Decay Coef. = 0.000
 ; Rot. Angle = 0.0
 Emission Units = GRAMS/SEC ; Emission Rate
 Unit Factor = 531.50
 Output Units = PPM

**Approximate Storage Requirements of Model = 3.5 MB of RAM.

*** AERMOD - VERSION 09292 *** *** Elysian
 *** 11/23/10
 *** Buried NO2 Mitigated
 *** 08:45:20

PAGE 2

**MODELOPTs: RegDFAULT CONC ELEV
 NODRYDPLT NOWETDPLT

*** AREAPOLY SOURCE DATA ***

| URBAN | EMISSION RATE | NUMBER | EMISSION RATE | LOCATION OF AREA | BASE | RELEASE | NUMBER | INIT. |
|--------------------|-------------------|--------|---------------|------------------|----------|----------|----------|----------|
| SOURCE | PART. (USER UNITS | X | Y | ELEV. | HEIGHT | OF | VERTS. | SZ |
| SOURCE SCALAR VARY | ID | CATS. | /METER**2) | (METERS) | (METERS) | (METERS) | (METERS) | (METERS) |

| | | | | | | | | |
|--------|---|-------------|----------|-----------|-------|------|----|------|
| PAREA3 | 0 | 0.53960E-05 | 386606.5 | 3771295.6 | 139.7 | 5.00 | 18 | 0.00 |
| YES | | | | | | | | |
| PAREA4 | 0 | 0.20324E-04 | 386598.2 | 3772118.1 | 96.3 | 5.00 | 14 | 0.00 |
| YES | | | | | | | | |

*** AERMOD - VERSION 09292 *** *** Elysian
 *** 11/23/10
 *** Buried NO2 Mitigated
 *** 08:45:20

PAGE 3

**MODELOPTs: RegDFAULT CONC ELEV
 NODRYDPLT NOWETDPLT

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID SOURCE IDs

SRCGP1 PAREA3 , PAREA4 ,

ALL PAREA3 , PAREA4 ,
 *** AERMOD - VERSION 09292 *** *** Elysian
 *** 11/23/10
 *** Buried NO2 Mitigated
 *** 08:45:20

Buried Cover NO2 Mitigated

PAGE 4

**MODELOPTs: RegDFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

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

| | | | | |
|------------------------|--------|--------|-------|------------------------|
| (386476.8, 3771139.5, | 143.3, | 181.0, | 0.0); | (386470.4, 3771149.7, |
| 144.2, 181.0, 0.0); | | | | |
| (386460.2, 3771160.0, | 145.3, | 181.0, | 0.0); | (386449.3, 3771172.8, |
| 146.6, 181.0, 0.0); | | | | |
| (386440.3, 3771184.3, | 147.6, | 181.0, | 0.0); | (386434.5, 3771197.8, |
| 148.6, 181.0, 0.0); | | | | |
| (386405.0, 3771244.6, | 152.9, | 181.0, | 0.0); | (386409.5, 3771235.6, |
| 151.9, 181.0, 0.0); | | | | |
| (386416.6, 3771223.4, | 150.9, | 181.0, | 0.0); | (386421.1, 3771217.0, |
| 150.3, 181.0, 0.0); | | | | |
| (386426.2, 3771210.0, | 149.6, | 181.0, | 0.0); | (386274.3, 3771299.7, |
| 168.1, 181.0, 0.0); | | | | |
| (386278.8, 3771290.1, | 167.4, | 181.0, | 0.0); | (386287.8, 3771280.5, |
| 166.6, 181.0, 0.0); | | | | |
| (386296.1, 3771269.6, | 164.9, | 181.0, | 0.0); | (386303.1, 3771259.3, |
| 163.5, 181.0, 0.0); | | | | |
| (386340.3, 3771210.6, | 155.9, | 181.0, | 0.0); | (386331.3, 3771222.1, |
| 157.6, 181.0, 0.0); | | | | |
| (386323.0, 3771233.7, | 159.3, | 181.0, | 0.0); | (386312.8, 3771248.4, |
| 161.6, 181.0, 0.0); | | | | |
| (386415.3, 3771092.0, | 143.8, | 181.0, | 0.0); | (386380.0, 3771051.0, |
| 142.9, 164.0, 0.0); | | | | |
| (386392.2, 3771050.4, | 142.2, | 181.0, | 0.0); | (386374.3, 3771063.2, |
| 144.0, 164.0, 0.0); | | | | |
| (386402.5, 3771098.4, | 144.8, | 181.0, | 0.0); | (386419.8, 3771082.4, |
| 142.9, 181.0, 0.0); | | | | |
| (386163.4, 3771763.8, | 182.0, | 182.0, | 0.0); | (386081.3, 3771480.5, |
| 178.0, 178.0, 0.0); | | | | |
| (386103.8, 3771527.9, | 179.8, | 179.8, | 0.0); | (386120.4, 3771576.0, |
| 181.1, 181.1, 0.0); | | | | |
| (386135.8, 3771613.8, | 182.0, | 182.0, | 0.0); | (386146.7, 3771651.6, |
| 182.0, 182.0, 0.0); | | | | |
| (386156.3, 3771690.8, | 182.0, | 182.0, | 0.0); | (386164.7, 3771730.5, |
| 182.0, 182.0, 0.0); | | | | |
| (386716.6, 3772090.1, | 93.4, | 182.0, | 0.0); | (386705.7, 3772082.4, |
| 93.0, 182.0, 0.0); | | | | |
| (386714.7, 3772074.7, | 93.3, | 182.0, | 0.0); | (386723.0, 3772061.9, |
| 93.7, 182.0, 0.0); | | | | |
| (386732.0, 3772036.9, | 94.0, | 182.0, | 0.0); | (386728.1, 3772051.0, |
| 93.9, 182.0, 0.0); | | | | |
| (386737.1, 3772022.1, | 94.2, | 182.0, | 0.0); | (386699.3, 3772099.1, |
| 92.7, 182.0, 0.0); | | | | |
| (386690.3, 3772107.4, | 92.4, | 182.0, | 0.0); | (386682.6, 3772113.8, |
| 92.1, 182.0, 0.0); | | | | |
| (386674.3, 3772123.4, | 92.3, | 182.0, | 0.0); | (386664.7, 3772134.3, |
| 92.8, 182.0, 0.0); | | | | |
| (386654.4, 3772145.2, | 93.1, | 182.0, | 0.0); | (386605.7, 3772127.3, |
| 95.6, 182.0, 0.0); | | | | |
| (386591.0, 3772133.7, | 96.5, | 182.0, | 0.0); | (386579.4, 3772139.5, |
| 97.2, 182.0, 0.0); | | | | |
| (386560.2, 3772147.2, | 98.4, | 182.0, | 0.0); | (386545.4, 3772154.8, |
| 99.0, 182.0, 0.0); | | | | |
| (386533.3, 3772162.5, | 99.5, | 182.0, | 0.0); | (386542.9, 3772179.8, |
| 98.2, 182.0, 0.0); | | | | |
| (386553.1, 3772195.9, | 96.9, | 182.0, | 0.0); | (386568.5, 3772208.7, |
| 95.5, 182.0, 0.0); | | | | |
| (386582.0, 3772192.7, | 95.3, | 182.0, | 0.0); | (386595.4, 3772181.1, |
| 94.8, 182.0, 0.0); | | | | |
| (386609.5, 3772168.9, | 94.5, | 182.0, | 0.0); | (386624.3, 3772152.3, |
| 94.3, 182.0, 0.0); | | | | |
| (386619.2, 3772140.1, | 94.7, | 182.0, | 0.0); | (386640.3, 3772163.8, |
| 93.5, 182.0, 0.0); | | | | |

Buried Cover NO2 Mitigated

| | | | | |
|--------------------------------|--------------------------|--------|-------|------------------------|
| (386653.8, 3772174.7, | 93.0, | 182.0, | 0.0); | (386666.0, 3772186.3, |
| 92.7, 182.0, 0.0); | | | | |
| (386677.5, 3772197.8, | 92.5, | 182.0, | 0.0); | (386688.4, 3772208.7, |
| 92.8, 182.0, 0.0); | | | | |
| (386701.2, 3772222.2, | 93.5, | 182.0, | 0.0); | (386448.6, 3772217.7, |
| 102.7, 182.0, 0.0); | | | | |
| (386456.3, 3772212.5, | 102.4, | 182.0, | 0.0); | (386465.3, 3772206.1, |
| 102.1, 182.0, 0.0); | | | | |
| (386474.3, 3772200.4, | 101.8, | 182.0, | 0.0); | (386481.3, 3772194.6, |
| 101.5, 182.0, 0.0); | | | | |
| (386489.0, 3772190.1, | 101.2, | 182.0, | 0.0); | (386499.3, 3772183.1, |
| 100.9, 182.0, 0.0); | | | | |
| (386507.6, 3772177.9, | 100.5, | 182.0, | 0.0); | (386514.7, 3772171.5, |
| 100.3, 182.0, 0.0); | | | | |
| (386576.8, 3772219.6, | 94.6, | 182.0, | 0.0); | (386586.5, 3772209.3, |
| 94.4, 182.0, 0.0); | | | | |
| (386597.4, 3772197.8, | 94.2, | 182.0, | 0.0); | (386607.0, 3772187.5, |
| 94.0, 182.0, 0.0); | | | | |
| (386620.4, 3772178.6, | 93.9, | 182.0, | 0.0); | (386742.9, 3772003.6, |
| 94.5, 182.0, 0.0); | | | | |
| (386386.3, 3771087.3, | 144.9, | 181.0, | 0.0); | (386399.3, 3771081.5, |
| 143.9, 181.0, 0.0); | | | | |
| (386409.4, 3771067.1, | 142.4, | 181.0, | 0.0); | (385296.8, 3773132.0, |
| 117.7, 182.0, 0.0); | | | | |
| (385287.9, 3773147.0, | 117.7, | 182.0, | 0.0); | (385283.5, 3773159.4, |
| 117.2, 182.0, 0.0); | | | | |
| (385576.7, 3773089.5, | 103.9, | 182.0, | 0.0); | (385598.0, 3773060.2, |
| 104.0, 182.0, 0.0); | | | | |
| *** AERMOD - VERSION 09292 *** | *** Elysian | | | |
| *** 11/23/10 | *** Buried NO2 Mitigated | | | |
| *** 08:45:20 | | | | |

PAGE 5

**MODELOPTs: RegDFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

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

| | | | | |
|------------------------|--------|--------|-------|------------------------|
| (385609.5, 3773037.2, | 104.5, | 182.0, | 0.0); | (385629.8, 3772997.4, |
| 105.3, 182.0, 0.0); | | | | |
| (385654.6, 3772953.1, | 106.0, | 182.0, | 0.0); | (385706.0, 3772876.9, |
| 106.7, 182.0, 0.0); | | | | |
| (385752.1, 3772808.7, | 107.3, | 182.0, | 0.0); | (385816.7, 3772724.5, |
| 108.9, 182.0, 0.0); | | | | |
| (385886.7, 3772645.7, | 110.4, | 182.0, | 0.0); | (385952.3, 3772579.3, |
| 111.3, 182.0, 0.0); | | | | |
| (386020.5, 3772519.0, | 111.7, | 182.0, | 0.0); | (386094.0, 3772463.2, |
| 111.1, 182.0, 0.0); | | | | |
| (386169.3, 3772411.0, | 110.4, | 182.0, | 0.0); | (386248.1, 3772359.6, |
| 108.8, 182.0, 0.0); | | | | |
| (386328.7, 3772309.1, | 105.9, | 182.0, | 0.0); | (386407.5, 3772253.3, |
| 103.3, 182.0, 0.0); | | | | |
| (387116.3, 3772187.4, | 108.2, | 182.0, | 0.0); | (387141.0, 3772141.5, |
| 108.9, 108.9, 0.0); | | | | |
| (387201.0, 3772180.3, | 110.6, | 182.0, | 0.0); | (387155.1, 3772229.8, |
| 110.0, 182.0, 0.0); | | | | |
| (386943.3, 3772540.4, | 102.9, | 243.0, | 0.0); | (386925.6, 3772582.8, |
| 102.9, 243.0, 0.0); | | | | |
| (386526.7, 3770944.7, | 129.0, | 131.0, | 0.0); | (386466.7, 3770937.6, |
| 131.1, 131.1, 0.0); | | | | |
| (386537.3, 3770884.7, | 123.8, | 123.8, | 0.0); | (386480.8, 3770881.1, |
| 125.8, 125.8, 0.0); | | | | |
| (387374.0, 3771597.8, | 112.1, | 112.1, | 0.0); | (384880.2, 3771187.7, |
| 166.9, 166.9, 0.0); | | | | |
| (384901.5, 3771161.1, | 167.0, | 167.0, | 0.0); | (384909.4, 3771118.6, |
| 165.9, 165.9, 0.0); | | | | |
| (384912.1, 3771078.8, | 164.8, | 164.8, | 0.0); | (384920.0, 3771052.2, |
| 164.2, 164.2, 0.0); | | | | |

Buried Cover NO2 Mitigated

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*** AERMOD - VERSION 09292 *** *** Elysian
*** 11/23/10
*** 08:45:20 *** Buried NO2 Mitigated
    
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PAGE 6
**MODELOPTs: RegDFAULT CONC
    
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ELEV
NODRYDPLT NOWETDPLT

*** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
(1=YES; 0=NO)

```

1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
    
```

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES

(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

```

*** AERMOD - VERSION 09292 *** *** Elysian
*** 11/23/10
*** 08:45:20 *** Buried NO2 Mitigated
    
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PAGE 7
**MODELOPTs: RegDFAULT CONC
    
```

ELEV
NODRYDPLT NOWETDPLT

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

```

Surface file: L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met
Data\cela.SFC Met Version: 06341
Profile file: L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met
Data\cela.PFL
Surface format: FREE
Profile format: FREE
Surface station no.: 0 Upper air station no.: 3190
Name: UNKNOWN Name: UNKNOWN
Year: 2006 Year: 2006
    
```

| First 24 hours of scalar data | | | | | | | | | | | | | | | | | |
|-------------------------------|------|-------|------|----|------|-------|--------|--------|-------|-------|------|------|------|-------|--------|------|----|
| YR | MO | DY | JDY | HR | H0 | U* | W* | DT/DZ | ZICNV | ZIMCH | M-O | LEN | Z0 | BOWEN | ALBEDO | REF | WS |
| WD | HT | REF | TA | HT | | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 01 | -0.9 | 0.040 | -9.000 | -9.000 | -999. | 18. | 6.3 | 0.65 | 1.00 | 1.00 | | 0.70 | |
| 347. | 21.3 | 286.4 | 17.7 | | | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 02 | -3.0 | 0.086 | -9.000 | -9.000 | -999. | 58. | 19.1 | 0.65 | 1.00 | 1.00 | | 1.50 | |
| 82. | 21.3 | 286.4 | 17.7 | | | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 03 | -1.3 | 0.057 | -9.000 | -9.000 | -999. | 31. | 12.7 | 0.65 | 1.00 | 1.00 | | 1.00 | |
| 66. | 21.3 | 286.4 | 17.7 | | | | | | | | | | | | | | |

Buried Cover NO2 Mitigated

| | | | | | | | | | | | | | | | |
|------|------|-------|---|------|-------|-------|--------|--------|-------|-------|---------|------|------|------|------|
| 06 | 01 | 01 | 1 | 04 | -1.9 | 0.069 | -9.000 | -9.000 | -999. | 41. | 15.2 | 0.65 | 1.00 | 1.00 | 1.20 |
| 23. | 21.3 | 285.9 | | 17.7 | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 05 | -3.5 | 0.080 | -9.000 | -9.000 | -999. | 52. | 13.1 | 0.65 | 1.00 | 1.00 | 1.40 |
| 61. | 21.3 | 285.4 | | 17.7 | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 06 | -3.0 | 0.086 | -9.000 | -9.000 | -999. | 58. | 19.0 | 0.65 | 1.00 | 1.00 | 1.50 |
| 83. | 21.3 | 285.4 | | 17.7 | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 07 | -6.1 | 0.103 | -9.000 | -9.000 | -999. | 76. | 16.2 | 0.65 | 1.00 | 1.00 | 1.80 |
| 64. | 21.3 | 285.4 | | 17.7 | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 08 | -3.3 | 0.080 | -9.000 | -9.000 | -999. | 52. | 14.1 | 0.65 | 1.00 | 0.55 | 1.40 |
| 46. | 21.3 | 285.4 | | 17.7 | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 09 | 26.6 | 0.304 | 0.644 | 0.005 | 362. | 385. | -95.4 | 0.65 | 1.00 | 0.32 | 2.30 |
| 87. | 21.3 | 286.4 | | 17.7 | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 10 | 21.0 | 0.227 | 0.732 | 0.005 | 675. | 250. | -50.2 | 0.65 | 1.00 | 0.24 | 1.60 |
| 76. | 21.3 | 286.4 | | 17.7 | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 11 | 35.8 | 0.197 | 0.912 | 0.005 | 766. | 201. | -19.2 | 0.65 | 1.00 | 0.21 | 1.20 |
| 66. | 21.3 | 287.5 | | 17.7 | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 12 | 14.9 | 0.281 | 0.686 | 0.005 | 785. | 343. | -135.5 | 0.65 | 1.00 | 0.20 | 2.20 |
| 79. | 21.3 | 287.5 | | 17.7 | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 13 | 26.4 | 0.376 | 0.842 | 0.009 | 818. | 530. | -181.6 | 0.65 | 1.00 | 0.20 | 3.00 |
| 76. | 21.3 | 287.5 | | 17.7 | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 14 | 39.0 | 0.385 | 0.979 | 0.014 | 867. | 549. | -131.8 | 0.65 | 1.00 | 0.21 | 3.00 |
| 80. | 21.3 | 288.1 | | 17.7 | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 15 | 11.4 | 0.277 | 0.653 | 0.014 | 881. | 341. | -168.4 | 0.65 | 1.00 | 0.25 | 2.20 |
| 86. | 21.3 | 287.5 | | 17.7 | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 16 | 0.1 | 0.343 | 0.135 | 0.014 | 881. | 462. | -8888.0 | 0.65 | 1.00 | 0.33 | 3.00 |
| 75. | 21.3 | 287.0 | | 17.7 | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 17 | -13.7 | 0.266 | -9.000 | -9.000 | -999. | 319. | 125.0 | 0.65 | 1.00 | 0.60 | 2.90 |
| 82. | 21.3 | 286.4 | | 17.7 | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 18 | -10.2 | 0.183 | -9.000 | -9.000 | -999. | 183. | 54.5 | 0.65 | 1.00 | 1.00 | 2.50 |
| 101. | 21.3 | 286.4 | | 17.7 | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 19 | -16.1 | 0.289 | -9.000 | -9.000 | -999. | 358. | 135.6 | 0.65 | 1.00 | 1.00 | 3.10 |
| 97. | 21.3 | 285.9 | | 17.7 | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 20 | -25.2 | 0.450 | -9.000 | -9.000 | -999. | 693. | 326.1 | 0.65 | 1.00 | 1.00 | 4.30 |
| 92. | 21.3 | 284.9 | | 17.7 | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 21 | -27.3 | 0.487 | -9.000 | -9.000 | -999. | 781. | 381.9 | 0.65 | 1.00 | 1.00 | 4.60 |
| 88. | 21.3 | 284.2 | | 17.7 | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 22 | -28.0 | 0.499 | -9.000 | -9.000 | -999. | 812. | 402.5 | 0.65 | 1.00 | 1.00 | 4.70 |
| 91. | 21.3 | 284.9 | | 17.7 | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 23 | -36.1 | 0.645 | -9.000 | -9.000 | -999. | 1191. | 673.0 | 0.65 | 1.00 | 1.00 | 5.90 |
| 82. | 21.3 | 285.4 | | 17.7 | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 24 | -35.3 | 0.633 | -9.000 | -9.000 | -999. | 1160. | 649.7 | 0.65 | 1.00 | 1.00 | 5.80 |
| 84. | 21.3 | 285.9 | | 17.7 | | | | | | | | | | | |

First hour of profile data

| YR | MO | DY | HR | HEIGHT | F | WDIR | WSPD | AMB_TMP | sigmaA | sigmaW | sigmaV |
|----|----|----|----|--------|---|-------|--------|---------|--------|--------|--------|
| 06 | 01 | 01 | 01 | 17.7 | 0 | -999. | -99.00 | 286.5 | 99.0 | -99.00 | -99.00 |
| 06 | 01 | 01 | 01 | 21.3 | 1 | 347. | 0.70 | -999.0 | 99.0 | -99.00 | -99.00 |

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

*** AERMOD - VERSION 09292 *** *** Elysian
 *** 11/23/10
 *** Buried NO2 Mitigated
 *** 08:45:20

PAGE 8

**MODELOPTs: RegDFAULT CONC

ELEV
 NODRYDPLT NOWETDPLT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: SRCGP1 ***
 INCLUDING SOURCE(S): PAREA3 , PAREA4 ,
 *** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF NOX IN PPM

X-COORD (M) Y-COORD (M) CONC (YYMDDHH) X-COORD (M) Y-COORD (M)
 CONC (YYMDDHH)

Buried Cover NO2 Mitigated

| | | | | | | |
|---------|-------------------------|------------|---------|------------|-----------|------------|
| 0.02015 | 386476.85 (06110221) | 3771139.46 | 0.02045 | (06110221) | 386470.44 | 3771149.72 |
| 0.01878 | 386460.18 (07082906) | 3771159.97 | 0.01948 | (06110221) | 386449.29 | 3771172.79 |
| 0.01783 | 386440.31 (07082906) | 3771184.33 | 0.01822 | (07082906) | 386434.54 | 3771197.79 |
| 0.01554 | 386405.05 (06091823) | 3771244.59 | 0.01514 | (07110406) | 386409.54 | 3771235.61 |
| 0.01660 | 386416.59 (07082906) | 3771223.43 | 0.01610 | (07082906) | 386421.08 | 3771217.02 |
| 0.00898 | 386426.21 (07120322) | 3771209.97 | 0.01711 | (07082906) | 386274.28 | 3771299.72 |
| 0.00949 | 386278.77 (07110406) | 3771290.10 | 0.00917 | (07110406) | 386287.75 | 3771280.49 |
| 0.01036 | 386296.08 (07110406) | 3771269.59 | 0.00995 | (07110406) | 386303.13 | 3771259.33 |
| 0.01199 | 386340.31 (07110406) | 3771210.61 | 0.01240 | (07110406) | 386331.34 | 3771222.15 |
| 0.01090 | 386323.00 (07110406) | 3771233.69 | 0.01153 | (07110406) | 386312.75 | 3771248.43 |
| 0.01407 | 386415.31 (06091823) | 3771092.02 | 0.01618 | (07082906) | 386380.05 | 3771051.00 |
| 0.01393 | 386392.23 (06091823) | 3771050.36 | 0.01475 | (07082906) | 386374.29 | 3771063.18 |
| 0.01638 | 386402.49 (07082906) | 3771098.43 | 0.01545 | (07082906) | 386419.80 | 3771082.41 |
| 0.00812 | 386163.39 (07050824) | 3771763.82 | 0.00909 | (07061204) | 386081.33 | 3771480.49 |
| 0.00926 | 386103.77 (06083124) | 3771527.92 | 0.00787 | (07050824) | 386120.44 | 3771576.00 |
| 0.01018 | 386135.82 (06030702) | 3771613.82 | 0.00943 | (06083124) | 386146.72 | 3771651.64 |
| 0.00908 | 386156.33 (07061204) | 3771690.75 | 0.01008 | (06030702) | 386164.67 | 3771730.49 |
| 0.06417 | 386716.60 (07071406) | 3772090.11 | 0.05692 | (07063006) | 386705.70 | 3772082.42 |
| 0.06975 | 386714.67 (07071406) | 3772074.72 | 0.06860 | (07071406) | 386723.00 | 3772061.90 |
| 0.08218 | 386731.99 (07030522) | 3772036.90 | 0.08691 | (07030522) | 386728.13 | 3772051.01 |
| 0.05428 | 386737.11 (07063006) | 3772022.15 | 0.08397 | (06111820) | 386699.29 | 3772099.08 |
| 0.05286 | 386690.31 (07020104) | 3772107.42 | 0.05191 | (07020104) | 386682.62 | 3772113.83 |
| 0.05331 | 386674.29 (07020103) | 3772123.44 | 0.05304 | (07020103) | 386664.67 | 3772134.34 |
| 0.08591 | 386654.42 (07070805) | 3772145.24 | 0.05358 | (07020103) | 386605.70 | 3772127.29 |
| 0.09227 | 386590.95 (06122919) | 3772133.70 | 0.09421 | (06122919) | 386579.42 | 3772139.47 |
| 0.06021 | 386560.18 (06122919) | 3772147.16 | 0.07570 | (06122919) | 386545.44 | 3772154.85 |
| 0.05609 | 386533.26 (06122919) | 3772162.54 | 0.04990 | (06122919) | 386542.88 | 3772179.85 |
| 0.04570 | 386553.13 (07121620) | 3772195.88 | 0.04530 | (07121620) | 386568.52 | 3772208.70 |
| 0.05100 | 386581.98 (07121620) | 3772192.67 | 0.05041 | (07121620) | 386595.44 | 3772181.13 |
| 0.05713 | 386609.54 (07020103) | 3772168.95 | 0.05251 | (07111522) | 386624.29 | 3772152.29 |
| 0.05236 | 386619.16 (07020103) | 3772140.11 | 0.06629 | (07081406) | 386640.31 | 3772163.83 |
| 0.04408 | 386653.77 (07020104) | 3772174.72 | 0.04799 | (07020103) | 386665.95 | 3772186.26 |
| 0.03787 | 386677.49 (07082624) | 3772197.80 | 0.04011 | (07020104) | 386688.39 | 3772208.70 |
| 0.02307 | 386701.21 (07061204) | 3772222.16 | 0.03561 | (07082624) | 386448.64 | 3772217.67 |

Buried Cover NO2 Mitigated

| | | | | | | |
|---------|-------------------------|------------|---------|------------|-----------|------------|
| 0.02578 | 386456.34 (07061204) | 3772212.55 | 0.02423 | (07061204) | 386465.31 | 3772206.13 |
| 0.02907 | 386474.29 (07061204) | 3772200.37 | 0.02742 | (07061204) | 386481.34 | 3772194.60 |
| 0.03237 | 386489.03 (07061204) | 3772190.11 | 0.02963 | (07061204) | 386499.29 | 3772183.06 |
| 0.03772 | 386507.62 (07061204) | 3772177.93 | 0.03478 | (07041701) | 386514.67 | 3772171.52 |
| 0.03951 | 386576.85 (07121620) | 3772219.60 | 0.03885 | (07121620) | 386586.47 | 3772209.34 |
| 0.04497 | 386597.36 (07111522) | 3772197.80 | 0.04151 | (07081406) | 386606.98 | 3772187.54 |

*** AERMOD - VERSION 09292 *** *** Elysian
 *** 11/23/10
 *** 08:45:20 *** Buried NO2 Mitigated

PAGE 9

**MODELOPTs: RegDFAULT CONC

ELEV
 NODRYDPLT NOWETDPLT

SOURCE GROUP: SRCGP1 ***
 *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 INCLUDING SOURCE(S): PAREA3 , PAREA4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

| | | ** CONC OF NOX | | IN PPM | | |
|---------|---------------------------|----------------|---------|------------|-------------|-------------|
| CONC | X-COORD (M) (YYMMDDHH) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) |
| 0.08627 | 386620.44 (06110320) | 3772178.57 | 0.04848 | (07020103) | 386742.87 | 3772003.56 |
| 0.01521 | 386386.30 (07082906) | 3771087.29 | 0.01448 | (06091823) | 386399.28 | 3771081.52 |
| 0.00202 | 386409.38 (07060324) | 3771067.10 | 0.01574 | (07082906) | 385296.78 | 3773131.99 |
| 0.00199 | 385287.93 (07101501) | 3773147.05 | 0.00200 | (07060324) | 385283.50 | 3773159.45 |
| 0.00253 | 385576.69 (07041701) | 3773089.48 | 0.00247 | (07041701) | 385597.95 | 3773060.25 |
| 0.00264 | 385609.46 (07041701) | 3773037.22 | 0.00258 | (07041701) | 385629.84 | 3772997.36 |
| 0.00288 | 385654.64 (07121620) | 3772953.07 | 0.00268 | (07041701) | 385706.01 | 3772876.89 |
| 0.00350 | 385752.07 (07121620) | 3772808.69 | 0.00310 | (07121620) | 385816.74 | 3772724.54 |
| 0.00465 | 385886.71 (07061204) | 3772645.70 | 0.00399 | (07061204) | 385952.26 | 3772579.27 |
| 0.00634 | 386020.46 (07061204) | 3772519.04 | 0.00539 | (07061204) | 386093.98 | 3772463.23 |
| 0.00952 | 386169.27 (07061204) | 3772410.97 | 0.00763 | (07061204) | 386248.11 | 3772359.60 |
| 0.01760 | 386328.71 (07061204) | 3772309.11 | 0.01240 | (07061204) | 386407.55 | 3772253.30 |
| 0.01271 | 387116.28 (06062804) | 3772187.40 | 0.01272 | (07070102) | 387141.00 | 3772141.51 |
| 0.01075 | 387201.01 (07070102) | 3772180.34 | 0.00985 | (06062804) | 387155.12 | 3772229.77 |
| 0.01125 | 386943.29 (07010320) | 3772540.45 | 0.01087 | (07010320) | 386925.64 | 3772582.82 |
| 0.01495 | 386526.69 (06090305) | 3770944.68 | 0.01734 | (06090305) | 386466.67 | 3770937.61 |
| 0.01472 | 386537.28 (06090305) | 3770884.66 | 0.01486 | (06090305) | 386480.80 | 3770881.13 |
| 0.00339 | 387374.01 (07032307) | 3771597.81 | 0.00686 | (07070124) | 384880.19 | 3771187.72 |

Buried Cover NO2 Mitigated

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384901.45 3771161.15 0.00327 (07081506) 384909.41 3771118.65
0.00352 (07081506)
384912.07 3771078.80 0.00352 (07081506) 384920.04 3771052.24
0.00341 (07081506)
*** AERMOD - VERSION 09292 *** *** Elysian
*** 11/23/10 ***
*** Buried NO2 Mitigated
*** 08:45:20

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PAGE 10

**MODELOPTs: RegDFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

SOURCE GROUP: ALL *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
INCLUDING SOURCE(S): PAREA3 , PAREA4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

| | | ** CONC OF NOX | | IN PPM | |
|---------|---------------------------|----------------|---------|------------|----------------------------|
| CONC | X-COORD (M) (YYMMDDHH) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) Y-COORD (M) |
| 0.02015 | 386476.85 | 3771139.46 | 0.02045 | (06110221) | 386470.44 3771149.72 |
| | (06110221) | | | | |
| 0.01878 | 386460.18 | 3771159.97 | 0.01948 | (06110221) | 386449.29 3771172.79 |
| | (07082906) | | | | |
| 0.01783 | 386440.31 | 3771184.33 | 0.01822 | (07082906) | 386434.54 3771197.79 |
| | (07082906) | | | | |
| 0.01554 | 386405.05 | 3771244.59 | 0.01514 | (07110406) | 386409.54 3771235.61 |
| | (06091823) | | | | |
| 0.01660 | 386416.59 | 3771223.43 | 0.01610 | (07082906) | 386421.08 3771217.02 |
| | (07082906) | | | | |
| 0.00898 | 386426.21 | 3771209.97 | 0.01711 | (07082906) | 386274.28 3771299.72 |
| | (07120322) | | | | |
| 0.00949 | 386278.77 | 3771290.10 | 0.00917 | (07110406) | 386287.75 3771280.49 |
| | (07110406) | | | | |
| 0.01036 | 386296.08 | 3771269.59 | 0.00995 | (07110406) | 386303.13 3771259.33 |
| | (07110406) | | | | |
| 0.01199 | 386340.31 | 3771210.61 | 0.01240 | (07110406) | 386331.34 3771222.15 |
| | (07110406) | | | | |
| 0.01090 | 386323.00 | 3771233.69 | 0.01153 | (07110406) | 386312.75 3771248.43 |
| | (07110406) | | | | |
| 0.01407 | 386415.31 | 3771092.02 | 0.01618 | (07082906) | 386380.05 3771051.00 |
| | (06091823) | | | | |
| 0.01393 | 386392.23 | 3771050.36 | 0.01475 | (07082906) | 386374.29 3771063.18 |
| | (06091823) | | | | |
| 0.01638 | 386402.49 | 3771098.43 | 0.01545 | (07082906) | 386419.80 3771082.41 |
| | (07082906) | | | | |
| 0.00812 | 386163.39 | 3771763.82 | 0.00909 | (07061204) | 386081.33 3771480.49 |
| | (07050824) | | | | |
| 0.00926 | 386103.77 | 3771527.92 | 0.00787 | (07050824) | 386120.44 3771576.00 |
| | (06083124) | | | | |
| 0.01018 | 386135.82 | 3771613.82 | 0.00943 | (06083124) | 386146.72 3771651.64 |
| | (06030702) | | | | |
| 0.00908 | 386156.33 | 3771690.75 | 0.01008 | (06030702) | 386164.67 3771730.49 |
| | (07061204) | | | | |
| 0.06417 | 386716.60 | 3772090.11 | 0.05692 | (07063006) | 386705.70 3772082.42 |
| | (07071406) | | | | |
| 0.06975 | 386714.67 | 3772074.72 | 0.06860 | (07071406) | 386723.00 3772061.90 |
| | (07071406) | | | | |
| 0.08218 | 386731.99 | 3772036.90 | 0.08691 | (07030522) | 386728.13 3772051.01 |
| | (07030522) | | | | |
| 0.05428 | 386737.11 | 3772022.15 | 0.08397 | (06111820) | 386699.29 3772099.08 |
| | (07063006) | | | | |
| 0.05286 | 386690.31 | 3772107.42 | 0.05191 | (07020104) | 386682.62 3772113.83 |
| | (07020104) | | | | |

Buried Cover NO2 Mitigated

| | | | | | | |
|---------|-------------------------|------------|---------|------------|-----------|------------|
| 0.05331 | 386674.29 (07020103) | 3772123.44 | 0.05304 | (07020103) | 386664.67 | 3772134.34 |
| 0.08591 | 386654.42 (07070805) | 3772145.24 | 0.05358 | (07020103) | 386605.70 | 3772127.29 |
| 0.09227 | 386590.95 (06122919) | 3772133.70 | 0.09421 | (06122919) | 386579.42 | 3772139.47 |
| 0.06021 | 386560.18 (06122919) | 3772147.16 | 0.07570 | (06122919) | 386545.44 | 3772154.85 |
| 0.05609 | 386533.26 (06122919) | 3772162.54 | 0.04990 | (06122919) | 386542.88 | 3772179.85 |
| 0.04570 | 386553.13 (07121620) | 3772195.88 | 0.04530 | (07121620) | 386568.52 | 3772208.70 |
| 0.05100 | 386581.98 (07121620) | 3772192.67 | 0.05041 | (07121620) | 386595.44 | 3772181.13 |
| 0.05713 | 386609.54 (07020103) | 3772168.95 | 0.05251 | (07111522) | 386624.29 | 3772152.29 |
| 0.05236 | 386619.16 (07020103) | 3772140.11 | 0.06629 | (07081406) | 386640.31 | 3772163.83 |
| 0.04408 | 386653.77 (07020104) | 3772174.72 | 0.04799 | (07020103) | 386665.95 | 3772186.26 |
| 0.03787 | 386677.49 (07082624) | 3772197.80 | 0.04011 | (07020104) | 386688.39 | 3772208.70 |
| 0.02307 | 386701.21 (07061204) | 3772222.16 | 0.03561 | (07082624) | 386448.64 | 3772217.67 |
| 0.02578 | 386456.34 (07061204) | 3772212.55 | 0.02423 | (07061204) | 386465.31 | 3772206.13 |
| 0.02907 | 386474.29 (07061204) | 3772200.37 | 0.02742 | (07061204) | 386481.34 | 3772194.60 |
| 0.03237 | 386489.03 (07061204) | 3772190.11 | 0.02963 | (07061204) | 386499.29 | 3772183.06 |
| 0.03772 | 386507.62 (07061204) | 3772177.93 | 0.03478 | (07041701) | 386514.67 | 3772171.52 |
| 0.03951 | 386576.85 (07121620) | 3772219.60 | 0.03885 | (07121620) | 386586.47 | 3772209.34 |
| 0.04497 | 386597.36 (07111522) | 3772197.80 | 0.04151 | (07081406) | 386606.98 | 3772187.54 |

*** AERMOD - VERSION 09292 *** *** Elysian
 *** 11/23/10
 *** 08:45:20 *** Buried NO2 Mitigated

PAGE 11

**MODELOPTs: RegDFAULT CONC ELEV
 NODRYDPLT NOWETDPLT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): PAREA3 , PAREA4 ,
 *** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF NOX IN PPM

| CONC | X-COORD (M) (YYMMDDHH) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) |
|---------|---------------------------|-------------|---------|------------|-------------|-------------|
| 0.08627 | 386620.44 (06110320) | 3772178.57 | 0.04848 | (07020103) | 386742.87 | 3772003.56 |
| 0.01521 | 386386.30 (07082906) | 3771087.29 | 0.01448 | (06091823) | 386399.28 | 3771081.52 |
| 0.00202 | 386409.38 (07060324) | 3771067.10 | 0.01574 | (07082906) | 385296.78 | 3773131.99 |
| 0.00199 | 385287.93 (07101501) | 3773147.05 | 0.00200 | (07060324) | 385283.50 | 3773159.45 |
| 0.00253 | 385576.69 (07041701) | 3773089.48 | 0.00247 | (07041701) | 385597.95 | 3773060.25 |
| 0.00264 | 385609.46 (07041701) | 3773037.22 | 0.00258 | (07041701) | 385629.84 | 3772997.36 |

Buried Cover NO2 Mitigated

| | | | | | | |
|---------|-------------------------|------------|---------|------------|-----------|------------|
| 0.00288 | 385654.64 (07121620) | 3772953.07 | 0.00268 | (07041701) | 385706.01 | 3772876.89 |
| 0.00350 | 385752.07 (07121620) | 3772808.69 | 0.00310 | (07121620) | 385816.74 | 3772724.54 |
| 0.00465 | 385886.71 (07061204) | 3772645.70 | 0.00399 | (07061204) | 385952.26 | 3772579.27 |
| 0.00634 | 386020.46 (07061204) | 3772519.04 | 0.00539 | (07061204) | 386093.98 | 3772463.23 |
| 0.00952 | 386169.27 (07061204) | 3772410.97 | 0.00763 | (07061204) | 386248.11 | 3772359.60 |
| 0.01760 | 386328.71 (07061204) | 3772309.11 | 0.01240 | (07061204) | 386407.55 | 3772253.30 |
| 0.01271 | 387116.28 (06062804) | 3772187.40 | 0.01272 | (07070102) | 387141.00 | 3772141.51 |
| 0.01075 | 387201.01 (07070102) | 3772180.34 | 0.00985 | (06062804) | 387155.12 | 3772229.77 |
| 0.01125 | 386943.29 (07010320) | 3772540.45 | 0.01087 | (07010320) | 386925.64 | 3772582.82 |
| 0.01495 | 386526.69 (06090305) | 3770944.68 | 0.01734 | (06090305) | 386466.67 | 3770937.61 |
| 0.01472 | 386537.28 (06090305) | 3770884.66 | 0.01486 | (06090305) | 386480.80 | 3770881.13 |
| 0.00339 | 387374.01 (07032307) | 3771597.81 | 0.00686 | (07070124) | 384880.19 | 3771187.72 |
| 0.00352 | 384901.45 (07081506) | 3771161.15 | 0.00327 | (07081506) | 384909.41 | 3771118.65 |
| 0.00341 | 384912.07 (07081506) | 3771078.80 | 0.00352 | (07081506) | 384920.04 | 3771052.24 |

*** AERMOD - VERSION 09292 *** *** Elysian
 *** 11/23/10
 *** 08:45:20 *** Buried NO2 Mitigated

PAGE 12

**MODELOPTs: RegDFAULT CONC

ELEV
 NODRYDPLT NOWETDPLT

*** THE SUMMARY OF HIGHEST 1-HR RESULTS ***

** CONC OF NOX IN PPM

**

| NETWORK | GROUP ID | ZELEV, ZHILL, ZFLAG) | OF TYPE | AVERAGE CONC | DATE | RECEPTOR | (XR, YR, |
|---------|------------------------|----------------------|---------|--------------|-------------------|------------------------|----------|
| | | | | GRID-ID | (YYMMDDHH) | | |
| SRCGP1 | HIGH 1ST HIGH VALUE IS | 96.54, 182.00, 0.00) | DC | 0.09421 | ON 06122919: AT (| 386590.95, 3772133.70, | |
| ALL | HIGH 1ST HIGH VALUE IS | 96.54, 182.00, 0.00) | DC | 0.09421 | ON 06122919: AT (| 386590.95, 3772133.70, | |

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

*** AERMOD - VERSION 09292 *** *** Elysian
 *** 11/23/10
 *** 08:45:20 *** Buried NO2 Mitigated

PAGE 13

**MODELOPTs: RegDFAULT CONC

ELEV
 NODRYDPLT NOWETDPLT

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

Buried Cover NO2 Mitigated

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

A Total of 0 Fatal Error Message(s)
A Total of 0 Warning Message(s)
A Total of 113 Informational Message(s)

A Total of 17520 Hours Were Processed

A Total of 0 Calm Hours Identified

A Total of 113 Missing Hours Identified (0.64 Percent)

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

***** WARNING MESSAGES *****
*** NONE ***

*** AERMOD Finishes Successfully ***

Buried Cover CO Mitigated

```
**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 6.7.1
** Lakes Environmental Software Inc.
** Date: 11/23/2010
** File: C:\Documents and Settings\jbailey\Desktop\Elysian Park AerMod\elysian\B_COM.ADI
**
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**
CO STARTING
  TITLEONE Elysian
  TITLETWO Buried CO Mitigated
  MODELOPT DFAULT CONC NODRYDPLT NOWETDPLT
  AVERTIME 1 8
  URBANOPT 9862049 LA
  POLLUTID CO
  RUNORNOT RUN
CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
  LOCATION PAREA3 AREAPOLY 386606.494 3771295.572 139.670
** DESCRSRC Reservoir
  LOCATION PAREA4 AREAPOLY 386598.189 3772118.131 96.350
** DESCRSRC Caltrans
** Source Parameters **
  SRCPARAM PAREA3 0.0000248465 5.000 18
  AREAVERT PAREA3 386606.494 3771295.572 386560.430 3771386.706
  AREAVERT PAREA3 386502.641 3771467.538 386454.064 3771523.011
  AREAVERT PAREA3 386432.288 3771547.577 386455.739 3771575.313
  AREAVERT PAREA3 386485.890 3771583.238 386543.680 3771557.879
  AREAVERT PAREA3 386593.931 3771507.954 386619.057 3771483.387
  AREAVERT PAREA3 386650.046 3771442.179 386660.096 3771427.914
  AREAVERT PAREA3 386676.847 3771408.103 386688.572 3771388.291
  AREAVERT PAREA3 386676.847 3771361.347 386655.909 3771323.308
  AREAVERT PAREA3 386640.833 3771309.044 386614.032 3771295.572
  SRCPARAM PAREA4 0.000105883 5.000 14
  AREAVERT PAREA4 386598.189 3772118.131 386582.499 3772090.138
  AREAVERT PAREA4 386633.724 3772053.797 386639.492 3772051.587
  AREAVERT PAREA4 386653.798 3772051.341 386669.719 3772039.800
  AREAVERT PAREA4 386684.025 3772011.316 386695.331 3771993.391
  AREAVERT PAREA4 386697.639 3771989.462 386718.867 3771999.775
  AREAVERT PAREA4 386698.331 3772048.886 386685.179 3772065.583
  AREAVERT PAREA4 386673.872 3772076.387 386653.567 3772089.647
  URBANSRC PAREA3
  URBANSRC PAREA4
  CONCUNIT 873.2 GRAMS/SEC PPM
  SRCGROUP SRCGP1 PAREA4 PAREA3
  SRCGROUP ALL
SO FINISHED
**
*****
** AERMOD Receptor Pathway
*****
**
**
RE STARTING
```

Buried Cover CO Mitigated

```

INCLUDED B_COM.rou
RE FINISHED
**
*****
** AERMOD Meteorology Pathway
*****
**
**
ME STARTING
SURFFILE "L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\cela.SFC"
PROFFILE "L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\cela.PFL"
SURFDATA 0 2006
UAIRDATA 3190 2006
PROFBASE 10 METERS
ME FINISHED
**
*****
** AERMOD Output Pathway
*****
**
**
OU STARTING
RECTABLE ALLAVE 1ST
RECTABLE 1 1ST
RECTABLE 8 1ST
** Auto-Generated Plotfiles
PLOTFILE 1 ALL 1ST B_COM.AD\01H1GALL.PLT
PLOTFILE 8 ALL 1ST B_COM.AD\08H1GALL.PLT
PLOTFILE 1 SRCGP1 1ST B_COM.AD\01H1G001.PLT
PLOTFILE 8 SRCGP1 1ST B_COM.AD\08H1G001.PLT
OU FINISHED

*****
*** SETUP Finishes Successfully ***
*****

*** AERMOD - VERSION 09292 ***      *** Elysian
***      11/23/10
***                                     *** Buried CO Mitigated
***      08:35:40

PAGE 1
**MODELOPTs:  RegDFault CONC
                                                    ELEV
                                                    NODRYDPLT NOWETDPLT

***      MODEL SETUP OPTIONS SUMMARY      ***
-----

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

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

**Model Uses URBAN Dispersion Algorithm for the SBL for      2 Source(s),
for Total of      1 Urban Area(s):
Urban Population = 9862049.0 ; Urban Roughness Length = 1.000 m

**Model Uses Regulatory DEFAULT Options:
1. Stack-tip Downwash.
2. Model Accounts for ELEVated Terrain Effects.
3. Use Calms Processing Routine.
4. Use Missing Data Processing Routine.
5. No Exponential Decay for URBAN/Non-SO2.
6. Urban Roughness Length of 1.0 Meter Assumed.

**Model Assumes No FLAGPOLE Receptor Heights.

```

Buried Cover CO Mitigated

**Model Calculates 2 Short Term Average(s) of: 1-HR 8-HR
 **This Run Includes: 2 Source(s); 2 Source Group(s); and 120 Receptor(s)
 **The Model Assumes A Pollutant Type of: CO
 **Model Set To Continue RUNNING After the Setup Testing.

**Output Options Selected:
 Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
 Model Outputs External File(s) of High Values for Plotting (PLOTFILE 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) = 10.00 ; Decay Coef. = 0.000
 ; Rot. Angle = 0.0
 Emission Units = GRAMS/SEC ; Emission Rate
 Unit Factor = 873.20
 Output Units = PPM

**Approximate Storage Requirements of Model = 3.5 MB of RAM.

*** AERMOD - VERSION 09292 *** *** Elysian
 *** 11/23/10
 *** Buried CO Mitigated
 *** 08:35:40

PAGE 2

**MODELOPTs: RegDEFAULT CONC ELEV
 NODRYDPLT NOWETDPLT

*** AREAPOLY SOURCE DATA ***

| URBAN | EMISSION RATE | NUMBER | EMISSION RATE | LOCATION OF AREA | BASE | RELEASE | NUMBER | INIT. |
|--------------------|-------------------|----------|---------------|------------------|----------|---------|----------|----------|
| SOURCE | PART. (USER UNITS | X | Y | ELEV. | HEIGHT | OF | VERTS. | SZ |
| SOURCE SCALAR VARY | | (METERS) | (METERS) | (METERS) | (METERS) | | (METERS) | (METERS) |
| ID | CATS. /METER**2) | (METERS) | (METERS) | (METERS) | (METERS) | | (METERS) | (METERS) |

BY

| | | | | | | | | |
|--------|---|-------------|----------|-----------|-------|------|----|------|
| PAREA3 | 0 | 0.24847E-04 | 386606.5 | 3771295.6 | 139.7 | 5.00 | 18 | 0.00 |
| YES | | | | | | | | |
| PAREA4 | 0 | 0.10588E-03 | 386598.2 | 3772118.1 | 96.3 | 5.00 | 14 | 0.00 |
| YES | | | | | | | | |

*** AERMOD - VERSION 09292 *** *** Elysian
 *** 11/23/10
 *** Buried CO Mitigated
 *** 08:35:40

PAGE 3

**MODELOPTs: RegDEFAULT CONC ELEV
 NODRYDPLT NOWETDPLT

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID SOURCE IDs

SRCGP1 PAREA3 , PAREA4 ,

ALL PAREA3 , PAREA4 ,

Buried Cover CO Mitigated

*** AERMOD - VERSION 09292 *** *** Elysian
 *** 11/23/10
 *** 08:35:40 *** Buried CO Mitigated

PAGE 4
 **MODELOPTs: RegDFAULT CONC

ELEV
 NODRYDPLT NOWETDPLT

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

| | | | | |
|-----------------------------------|--------|--------|-------|------------------------|
| (386476.8, 3771139.5, | 143.3, | 181.0, | 0.0); | (386470.4, 3771149.7, |
| 144.2, 181.0, 0.0); | | | | |
| (386460.2, 3771160.0, | 145.3, | 181.0, | 0.0); | (386449.3, 3771172.8, |
| 146.6, 181.0, 0.0); | | | | |
| (386440.3, 3771184.3, | 147.6, | 181.0, | 0.0); | (386434.5, 3771197.8, |
| 148.6, 181.0, 0.0); | | | | |
| (386405.0, 3771244.6, | 152.9, | 181.0, | 0.0); | (386409.5, 3771235.6, |
| 151.9, 181.0, 0.0); | | | | |
| (386416.6, 3771223.4, | 150.9, | 181.0, | 0.0); | (386421.1, 3771217.0, |
| 150.3, 181.0, 0.0); | | | | |
| (386426.2, 3771210.0, | 149.6, | 181.0, | 0.0); | (386274.3, 3771299.7, |
| 168.1, 181.0, 0.0); | | | | |
| (386278.8, 3771290.1, | 167.4, | 181.0, | 0.0); | (386287.8, 3771280.5, |
| 166.6, 181.0, 0.0); | | | | |
| (386296.1, 3771269.6, | 164.9, | 181.0, | 0.0); | (386303.1, 3771259.3, |
| 163.5, 181.0, 0.0); | | | | |
| (386340.3, 3771210.6, | 155.9, | 181.0, | 0.0); | (386331.3, 3771222.1, |
| 157.6, 181.0, 0.0); | | | | |
| (386323.0, 3771233.7, | 159.3, | 181.0, | 0.0); | (386312.8, 3771248.4, |
| 161.6, 181.0, 0.0); | | | | |
| (386415.3, 3771092.0, | 143.8, | 181.0, | 0.0); | (386380.0, 3771051.0, |
| 142.9, 164.0, 0.0); | | | | |
| (386392.2, 3771050.4, | 142.2, | 181.0, | 0.0); | (386374.3, 3771063.2, |
| 144.0, 164.0, 0.0); | | | | |
| (386402.5, 3771098.4, | 144.8, | 181.0, | 0.0); | (386419.8, 3771082.4, |
| 142.9, 181.0, 0.0); | | | | |
| (386163.4, 3771763.8, | 182.0, | 182.0, | 0.0); | (386081.3, 3771480.5, |
| 178.0, 178.0, 0.0); | | | | |
| (386103.8, 3771527.9, | 179.8, | 179.8, | 0.0); | (386120.4, 3771576.0, |
| 181.1, 181.1, 0.0); | | | | |
| (386135.8, 3771613.8, | 182.0, | 182.0, | 0.0); | (386146.7, 3771651.6, |
| 182.0, 182.0, 0.0); | | | | |
| (386156.3, 3771690.8, | 182.0, | 182.0, | 0.0); | (386164.7, 3771730.5, |
| 182.0, 182.0, 0.0); | | | | |
| (386716.6, 3772090.1, | 93.4, | 182.0, | 0.0); | (386705.7, 3772082.4, |
| 93.0, 182.0, 0.0); | | | | |
| (386714.7, 3772074.7, | 93.3, | 182.0, | 0.0); | (386723.0, 3772061.9, |
| 93.7, 182.0, 0.0); | | | | |
| (386732.0, 3772036.9, | 94.0, | 182.0, | 0.0); | (386728.1, 3772051.0, |
| 93.9, 182.0, 0.0); | | | | |
| (386737.1, 3772022.1, | 94.2, | 182.0, | 0.0); | (386699.3, 3772099.1, |
| 92.7, 182.0, 0.0); | | | | |
| (386690.3, 3772107.4, | 92.4, | 182.0, | 0.0); | (386682.6, 3772113.8, |
| 92.1, 182.0, 0.0); | | | | |
| (386674.3, 3772123.4, | 92.3, | 182.0, | 0.0); | (386664.7, 3772134.3, |
| 92.8, 182.0, 0.0); | | | | |
| (386654.4, 3772145.2, | 93.1, | 182.0, | 0.0); | (386605.7, 3772127.3, |
| 95.6, 182.0, 0.0); | | | | |
| (386591.0, 3772133.7, | 96.5, | 182.0, | 0.0); | (386579.4, 3772139.5, |
| 97.2, 182.0, 0.0); | | | | |
| (386560.2, 3772147.2, | 98.4, | 182.0, | 0.0); | (386545.4, 3772154.8, |
| 99.0, 182.0, 0.0); | | | | |
| (386533.3, 3772162.5, | 99.5, | 182.0, | 0.0); | (386542.9, 3772179.8, |
| 98.2, 182.0, 0.0); | | | | |
| (386553.1, 3772195.9, | 96.9, | 182.0, | 0.0); | (386568.5, 3772208.7, |
| 95.5, 182.0, 0.0); | | | | |
| (386582.0, 3772192.7, | 95.3, | 182.0, | 0.0); | (386595.4, 3772181.1, |
| 94.8, 182.0, 0.0); | | | | |

Buried Cover CO Mitigated

| | | | | |
|------------------------|--------|--------|-------|------------------------|
| (386609.5, 3772168.9, | 94.5, | 182.0, | 0.0); | (386624.3, 3772152.3, |
| 94.3, 182.0, 0.0); | | | | |
| (386619.2, 3772140.1, | 94.7, | 182.0, | 0.0); | (386640.3, 3772163.8, |
| 93.5, 182.0, 0.0); | | | | |
| (386653.8, 3772174.7, | 93.0, | 182.0, | 0.0); | (386666.0, 3772186.3, |
| 92.7, 182.0, 0.0); | | | | |
| (386677.5, 3772197.8, | 92.5, | 182.0, | 0.0); | (386688.4, 3772208.7, |
| 92.8, 182.0, 0.0); | | | | |
| (386701.2, 3772222.2, | 93.5, | 182.0, | 0.0); | (386448.6, 3772217.7, |
| 102.7, 182.0, 0.0); | | | | |
| (386456.3, 3772212.5, | 102.4, | 182.0, | 0.0); | (386465.3, 3772206.1, |
| 102.1, 182.0, 0.0); | | | | |
| (386474.3, 3772200.4, | 101.8, | 182.0, | 0.0); | (386481.3, 3772194.6, |
| 101.5, 182.0, 0.0); | | | | |
| (386489.0, 3772190.1, | 101.2, | 182.0, | 0.0); | (386499.3, 3772183.1, |
| 100.9, 182.0, 0.0); | | | | |
| (386507.6, 3772177.9, | 100.5, | 182.0, | 0.0); | (386514.7, 3772171.5, |
| 100.3, 182.0, 0.0); | | | | |
| (386576.8, 3772219.6, | 94.6, | 182.0, | 0.0); | (386586.5, 3772209.3, |
| 94.4, 182.0, 0.0); | | | | |
| (386597.4, 3772197.8, | 94.2, | 182.0, | 0.0); | (386607.0, 3772187.5, |
| 94.0, 182.0, 0.0); | | | | |
| (386620.4, 3772178.6, | 93.9, | 182.0, | 0.0); | (386742.9, 3772003.6, |
| 94.5, 182.0, 0.0); | | | | |
| (386386.3, 3771087.3, | 144.9, | 181.0, | 0.0); | (386399.3, 3771081.5, |
| 143.9, 181.0, 0.0); | | | | |
| (386409.4, 3771067.1, | 142.4, | 181.0, | 0.0); | (385296.8, 3773132.0, |
| 117.7, 182.0, 0.0); | | | | |
| (385287.9, 3773147.0, | 117.7, | 182.0, | 0.0); | (385283.5, 3773159.4, |
| 117.2, 182.0, 0.0); | | | | |
| (385576.7, 3773089.5, | 103.9, | 182.0, | 0.0); | (385598.0, 3773060.2, |
| 104.0, 182.0, 0.0); | | | | |

*** AERMOD - VERSION 09292 *** *** Elysian
 *** 11/23/10
 *** 08:35:40 *** Buried CO Mitigated

PAGE 5
 **MODELOPTs: RegDFAULT CONC

ELEV
 NODRYDPLT NOWETDPLT

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

| | | | | |
|------------------------|--------|--------|-------|------------------------|
| (385609.5, 3773037.2, | 104.5, | 182.0, | 0.0); | (385629.8, 3772997.4, |
| 105.3, 182.0, 0.0); | | | | |
| (385654.6, 3772953.1, | 106.0, | 182.0, | 0.0); | (385706.0, 3772876.9, |
| 106.7, 182.0, 0.0); | | | | |
| (385752.1, 3772808.7, | 107.3, | 182.0, | 0.0); | (385816.7, 3772724.5, |
| 108.9, 182.0, 0.0); | | | | |
| (385886.7, 3772645.7, | 110.4, | 182.0, | 0.0); | (385952.3, 3772579.3, |
| 111.3, 182.0, 0.0); | | | | |
| (386020.5, 3772519.0, | 111.7, | 182.0, | 0.0); | (386094.0, 3772463.2, |
| 111.1, 182.0, 0.0); | | | | |
| (386169.3, 3772411.0, | 110.4, | 182.0, | 0.0); | (386248.1, 3772359.6, |
| 108.8, 182.0, 0.0); | | | | |
| (386328.7, 3772309.1, | 105.9, | 182.0, | 0.0); | (386407.5, 3772253.3, |
| 103.3, 182.0, 0.0); | | | | |
| (387116.3, 3772187.4, | 108.2, | 182.0, | 0.0); | (387141.0, 3772141.5, |
| 108.9, 108.9, 0.0); | | | | |
| (387201.0, 3772180.3, | 110.6, | 182.0, | 0.0); | (387155.1, 3772229.8, |
| 110.0, 182.0, 0.0); | | | | |
| (386943.3, 3772540.4, | 102.9, | 243.0, | 0.0); | (386925.6, 3772582.8, |
| 102.9, 243.0, 0.0); | | | | |
| (386526.7, 3770944.7, | 129.0, | 131.0, | 0.0); | (386466.7, 3770937.6, |
| 131.1, 131.1, 0.0); | | | | |
| (386537.3, 3770884.7, | 123.8, | 123.8, | 0.0); | (386480.8, 3770881.1, |
| 125.8, 125.8, 0.0); | | | | |
| (387374.0, 3771597.8, | 112.1, | 112.1, | 0.0); | (384880.2, 3771187.7, |
| 166.9, 166.9, 0.0); | | | | |

Buried Cover CO Mitigated

| | | | | | | | | | | | | | | | |
|------|------|-------|------|----|-------|-------|--------|--------|-------|-------|---------|------|------|------|------|
| 06 | 01 | 01 | 1 | 02 | -3.0 | 0.086 | -9.000 | -9.000 | -999. | 58. | 19.1 | 0.65 | 1.00 | 1.00 | 1.50 |
| 82. | 21.3 | 286.4 | 17.7 | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 03 | -1.3 | 0.057 | -9.000 | -9.000 | -999. | 31. | 12.7 | 0.65 | 1.00 | 1.00 | 1.00 |
| 66. | 21.3 | 286.4 | 17.7 | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 04 | -1.9 | 0.069 | -9.000 | -9.000 | -999. | 41. | 15.2 | 0.65 | 1.00 | 1.00 | 1.20 |
| 23. | 21.3 | 285.9 | 17.7 | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 05 | -3.5 | 0.080 | -9.000 | -9.000 | -999. | 52. | 13.1 | 0.65 | 1.00 | 1.00 | 1.40 |
| 61. | 21.3 | 285.4 | 17.7 | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 06 | -3.0 | 0.086 | -9.000 | -9.000 | -999. | 58. | 19.0 | 0.65 | 1.00 | 1.00 | 1.50 |
| 83. | 21.3 | 285.4 | 17.7 | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 07 | -6.1 | 0.103 | -9.000 | -9.000 | -999. | 76. | 16.2 | 0.65 | 1.00 | 1.00 | 1.80 |
| 64. | 21.3 | 285.4 | 17.7 | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 08 | -3.3 | 0.080 | -9.000 | -9.000 | -999. | 52. | 14.1 | 0.65 | 1.00 | 0.55 | 1.40 |
| 46. | 21.3 | 285.4 | 17.7 | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 09 | 26.6 | 0.304 | 0.644 | 0.005 | 362. | 385. | -95.4 | 0.65 | 1.00 | 0.32 | 2.30 |
| 87. | 21.3 | 286.4 | 17.7 | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 10 | 21.0 | 0.227 | 0.732 | 0.005 | 675. | 250. | -50.2 | 0.65 | 1.00 | 0.24 | 1.60 |
| 76. | 21.3 | 286.4 | 17.7 | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 11 | 35.8 | 0.197 | 0.912 | 0.005 | 766. | 201. | -19.2 | 0.65 | 1.00 | 0.21 | 1.20 |
| 66. | 21.3 | 287.5 | 17.7 | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 12 | 14.9 | 0.281 | 0.686 | 0.005 | 785. | 343. | -135.5 | 0.65 | 1.00 | 0.20 | 2.20 |
| 79. | 21.3 | 287.5 | 17.7 | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 13 | 26.4 | 0.376 | 0.842 | 0.009 | 818. | 530. | -181.6 | 0.65 | 1.00 | 0.20 | 3.00 |
| 76. | 21.3 | 287.5 | 17.7 | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 14 | 39.0 | 0.385 | 0.979 | 0.014 | 867. | 549. | -131.8 | 0.65 | 1.00 | 0.21 | 3.00 |
| 80. | 21.3 | 288.1 | 17.7 | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 15 | 11.4 | 0.277 | 0.653 | 0.014 | 881. | 341. | -168.4 | 0.65 | 1.00 | 0.25 | 2.20 |
| 86. | 21.3 | 287.5 | 17.7 | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 16 | 0.1 | 0.343 | 0.135 | 0.014 | 881. | 462. | -8888.0 | 0.65 | 1.00 | 0.33 | 3.00 |
| 75. | 21.3 | 287.0 | 17.7 | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 17 | -13.7 | 0.266 | -9.000 | -9.000 | -999. | 319. | 125.0 | 0.65 | 1.00 | 0.60 | 2.90 |
| 82. | 21.3 | 286.4 | 17.7 | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 18 | -10.2 | 0.183 | -9.000 | -9.000 | -999. | 183. | 54.5 | 0.65 | 1.00 | 1.00 | 2.50 |
| 101. | 21.3 | 286.4 | 17.7 | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 19 | -16.1 | 0.289 | -9.000 | -9.000 | -999. | 358. | 135.6 | 0.65 | 1.00 | 1.00 | 3.10 |
| 97. | 21.3 | 285.9 | 17.7 | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 20 | -25.2 | 0.450 | -9.000 | -9.000 | -999. | 693. | 326.1 | 0.65 | 1.00 | 1.00 | 4.30 |
| 92. | 21.3 | 284.9 | 17.7 | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 21 | -27.3 | 0.487 | -9.000 | -9.000 | -999. | 781. | 381.9 | 0.65 | 1.00 | 1.00 | 4.60 |
| 88. | 21.3 | 284.2 | 17.7 | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 22 | -28.0 | 0.499 | -9.000 | -9.000 | -999. | 812. | 402.5 | 0.65 | 1.00 | 1.00 | 4.70 |
| 91. | 21.3 | 284.9 | 17.7 | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 23 | -36.1 | 0.645 | -9.000 | -9.000 | -999. | 1191. | 673.0 | 0.65 | 1.00 | 1.00 | 5.90 |
| 82. | 21.3 | 285.4 | 17.7 | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 24 | -35.3 | 0.633 | -9.000 | -9.000 | -999. | 1160. | 649.7 | 0.65 | 1.00 | 1.00 | 5.80 |
| 84. | 21.3 | 285.9 | 17.7 | | | | | | | | | | | | |

First hour of profile data

| YR | MO | DY | HR | HEIGHT | F | WDIR | WSPD | AMB_TMP | sigmaA | sigmaW | sigmaV |
|----|----|----|----|--------|---|-------|--------|---------|--------|--------|--------|
| 06 | 01 | 01 | 01 | 17.7 | 0 | -999. | -99.00 | 286.5 | 99.0 | -99.00 | -99.00 |
| 06 | 01 | 01 | 01 | 21.3 | 1 | 347. | 0.70 | -999.0 | 99.0 | -99.00 | -99.00 |

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

*** AERMOD - VERSION 09292 *** *** Elysian

*** 11/23/10

*** Buried CO Mitigated

*** 08:35:40

PAGE 8

**MODELOPTs: RegDFault CONC

ELEV
NODRYDPLT NOWETDPLT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
SOURCE GROUP: SRCGP1 ***
INCLUDING SOURCE(S): PAREA3 , PAREA4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF CO IN PPM

**

Buried Cover CO Mitigated

| CONC | X-COORD (M) (YYMMDDHH) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) |
|---------|---------------------------|-------------|---------|------------|-------------|-------------|
| 0.15605 | 386476.85 (06110221) | 3771139.46 | 0.15811 | (06110221) | 386470.44 | 3771149.72 |
| 0.14562 | 386460.18 (06110221) | 3771159.97 | 0.15122 | (06110221) | 386449.29 | 3771172.79 |
| 0.13876 | 386440.31 (07082906) | 3771184.33 | 0.14155 | (07082906) | 386434.54 | 3771197.79 |
| 0.12047 | 386405.05 (06091823) | 3771244.59 | 0.11713 | (06091823) | 386409.54 | 3771235.61 |
| 0.12976 | 386416.59 (07082906) | 3771223.43 | 0.12604 | (07082906) | 386421.08 | 3771217.02 |
| 0.06793 | 386426.21 (07120322) | 3771209.97 | 0.13354 | (07082906) | 386274.28 | 3771299.72 |
| 0.07179 | 386278.77 (07110406) | 3771290.10 | 0.06933 | (07110406) | 386287.75 | 3771280.49 |
| 0.07839 | 386296.08 (07110406) | 3771269.59 | 0.07524 | (07110406) | 386303.13 | 3771259.33 |
| 0.09070 | 386340.31 (07110406) | 3771210.61 | 0.09382 | (07110406) | 386331.34 | 3771222.15 |
| 0.08247 | 386323.00 (07110406) | 3771233.69 | 0.08720 | (07110406) | 386312.75 | 3771248.43 |
| 0.10997 | 386415.31 (07082906) | 3771092.02 | 0.12595 | (07082906) | 386380.05 | 3771051.00 |
| 0.10753 | 386392.23 (06091823) | 3771050.36 | 0.11521 | (07082906) | 386374.29 | 3771063.18 |
| 0.12729 | 386402.49 (07082906) | 3771098.43 | 0.12060 | (07082906) | 386419.80 | 3771082.41 |
| 0.06139 | 386163.39 (07050824) | 3771763.82 | 0.06874 | (07061204) | 386081.33 | 3771480.49 |
| 0.07002 | 386103.77 (06083124) | 3771527.92 | 0.05955 | (07050824) | 386120.44 | 3771576.00 |
| 0.07703 | 386135.82 (06030702) | 3771613.82 | 0.07137 | (06083124) | 386146.72 | 3771651.64 |
| 0.06868 | 386156.33 (07061204) | 3771690.75 | 0.07628 | (06030702) | 386164.67 | 3771730.49 |
| 0.54926 | 386716.60 (07071406) | 3772090.11 | 0.48716 | (07063006) | 386705.70 | 3772082.42 |
| 0.59699 | 386714.67 (07071406) | 3772074.72 | 0.58712 | (07071406) | 386723.00 | 3772061.90 |
| 0.70335 | 386731.99 (07030522) | 3772036.90 | 0.74385 | (07030522) | 386728.13 | 3772051.01 |
| 0.46462 | 386737.11 (07063006) | 3772022.15 | 0.71872 | (06111820) | 386699.29 | 3772099.08 |
| 0.44580 | 386690.31 (07020104) | 3772107.42 | 0.43790 | (07020104) | 386682.62 | 3772113.83 |
| 0.44993 | 386674.29 (07020103) | 3772123.44 | 0.44788 | (07020103) | 386664.67 | 3772134.34 |
| 0.73532 | 386654.42 (07070805) | 3772145.24 | 0.45190 | (07020103) | 386605.70 | 3772127.29 |
| 0.78973 | 386590.95 (06122919) | 3772133.70 | 0.80633 | (06122919) | 386579.42 | 3772139.47 |
| 0.51538 | 386560.18 (06122919) | 3772147.16 | 0.64796 | (06122919) | 386545.44 | 3772154.85 |
| 0.48008 | 386533.26 (06122919) | 3772162.54 | 0.42708 | (06122919) | 386542.88 | 3772179.85 |
| 0.39116 | 386553.13 (07121620) | 3772195.88 | 0.38774 | (07121620) | 386568.52 | 3772208.70 |
| 0.43654 | 386581.98 (07121620) | 3772192.67 | 0.43147 | (07121620) | 386595.44 | 3772181.13 |
| 0.48696 | 386609.54 (07111522) | 3772168.95 | 0.44805 | (07111522) | 386624.29 | 3772152.29 |
| 0.44129 | 386619.16 (07020103) | 3772140.11 | 0.56731 | (07081406) | 386640.31 | 3772163.83 |
| 0.37063 | 386653.77 (07020104) | 3772174.72 | 0.40423 | (07020103) | 386665.95 | 3772186.26 |
| 0.31820 | 386677.49 (07082624) | 3772197.80 | 0.33703 | (07020104) | 386688.39 | 3772208.70 |

Buried Cover CO Mitigated

| | | | | | | |
|---------|-------------------------|------------|---------|------------|-----------|------------|
| 0.19744 | 386701.21 (07061204) | 3772222.16 | 0.29870 | (07082624) | 386448.64 | 3772217.67 |
| 0.22065 | 386456.34 (07061204) | 3772212.55 | 0.20736 | (07061204) | 386465.31 | 3772206.13 |
| 0.24878 | 386474.29 (07061204) | 3772200.37 | 0.23465 | (07061204) | 386481.34 | 3772194.60 |
| 0.27710 | 386489.03 (07061204) | 3772190.11 | 0.25361 | (07061204) | 386499.29 | 3772183.06 |
| 0.32285 | 386507.62 (07061204) | 3772177.93 | 0.29769 | (07041701) | 386514.67 | 3772171.52 |
| 0.33818 | 386576.85 (07121620) | 3772219.60 | 0.33251 | (07121620) | 386586.47 | 3772209.34 |
| 0.38353 | 386597.36 (07111522) | 3772197.80 | 0.35519 | (07081406) | 386606.98 | 3772187.54 |

*** AERMOD - VERSION 09292 ***
 *** 11/23/10
 *** 08:35:40

*** Elysian
 *** Buried CO Mitigated

PAGE 9

**MODELOPTs: RegDFAULT CONC

ELEV
 NODRYDPLT NOWETDPLT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: SRCGP1 ***
 INCLUDING SOURCE(S): PAREA3 , PAREA4 ,
 *** DISCRETE CARTESIAN RECEPTOR POINTS ***
 ** CONC OF CO IN PPM

| CONC | X-COORD (M) (YYMMDDHH) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) |
|---------|---------------------------|-------------|---------|------------|-------------|-------------|
| 0.73842 | 386620.44 (06110320) | 3772178.57 | 0.40782 | (07020103) | 386742.87 | 3772003.56 |
| 0.11875 | 386386.30 (07082906) | 3771087.29 | 0.11276 | (07082906) | 386399.28 | 3771081.52 |
| 0.01707 | 386409.38 (07060324) | 3771067.10 | 0.12253 | (07082906) | 385296.78 | 3773131.99 |
| 0.01668 | 385287.93 (07101501) | 3773147.05 | 0.01688 | (07060324) | 385283.50 | 3773159.45 |
| 0.02148 | 385576.69 (07041701) | 3773089.48 | 0.02092 | (07041701) | 385597.95 | 3773060.25 |
| 0.02232 | 385609.46 (07041701) | 3773037.22 | 0.02183 | (07041701) | 385629.84 | 3772997.36 |
| 0.02314 | 385654.64 (07041701) | 3772953.07 | 0.02267 | (07041701) | 385706.01 | 3772876.89 |
| 0.02851 | 385752.07 (07060324) | 3772808.69 | 0.02503 | (07101501) | 385816.74 | 3772724.54 |
| 0.03980 | 385886.71 (07061204) | 3772645.70 | 0.03418 | (07061204) | 385952.26 | 3772579.27 |
| 0.05423 | 386020.46 (07061204) | 3772519.04 | 0.04611 | (07061204) | 386093.98 | 3772463.23 |
| 0.08149 | 386169.27 (07061204) | 3772410.97 | 0.06531 | (07061204) | 386248.11 | 3772359.60 |
| 0.15065 | 386328.71 (07061204) | 3772309.11 | 0.10610 | (07061204) | 386407.55 | 3772253.30 |
| 0.10879 | 387116.28 (06062804) | 3772187.40 | 0.10888 | (07070102) | 387141.00 | 3772141.51 |
| 0.09201 | 387201.01 (07070102) | 3772180.34 | 0.08434 | (06062804) | 387155.12 | 3772229.77 |
| 0.09425 | 386943.29 (07010320) | 3772540.45 | 0.09032 | (07010320) | 386925.64 | 3772582.82 |
| 0.11700 | 386526.69 (06090305) | 3770944.68 | 0.13527 | (06090305) | 386466.67 | 3770937.61 |
| 0.11541 | 386537.28 (06090305) | 3770884.66 | 0.11627 | (06090305) | 386480.80 | 3770881.13 |

Buried Cover CO Mitigated

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387374.01 3771597.81 0.05872 (07070124) 384880.19 3771187.72
0.02562 (07032307)
384901.45 3771161.15 0.02474 (07081506) 384909.41 3771118.65
0.02660 (07081506)
384912.07 3771078.80 0.02662 (07081506) 384920.04 3771052.24
0.02577 (07081506)
*** AERMOD - VERSION 09292 *** *** Elysian
*** 11/23/10 ***
*** 08:35:40 *** Buried CO Mitigated

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PAGE 10

**MODELOPTs: RegDFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

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*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
SOURCE GROUP: ALL *** INCLUDING SOURCE(S): PAREA3 , PAREA4 ,
*** DISCRETE CARTESIAN RECEPTOR POINTS ***
** CONC OF CO IN PPM

```

| CONC | X-COORD (M) (YYMMDDHH) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) |
|---------|---------------------------|-------------|---------|------------|-------------|-------------|
| 0.15605 | 386476.85 | 3771139.46 | 0.15811 | (06110221) | 386470.44 | 3771149.72 |
| 0.14562 | 386460.18 | 3771159.97 | 0.15122 | (06110221) | 386449.29 | 3771172.79 |
| 0.13876 | 386440.31 | 3771184.33 | 0.14155 | (07082906) | 386434.54 | 3771197.79 |
| 0.12047 | 386405.05 | 3771244.59 | 0.11713 | (06091823) | 386409.54 | 3771235.61 |
| 0.12976 | 386416.59 | 3771223.43 | 0.12604 | (07082906) | 386421.08 | 3771217.02 |
| 0.06793 | 386426.21 | 3771209.97 | 0.13354 | (07082906) | 386274.28 | 3771299.72 |
| 0.07179 | 386278.77 | 3771290.10 | 0.06933 | (07110406) | 386287.75 | 3771280.49 |
| 0.07839 | 386296.08 | 3771269.59 | 0.07524 | (07110406) | 386303.13 | 3771259.33 |
| 0.09070 | 386340.31 | 3771210.61 | 0.09382 | (07110406) | 386331.34 | 3771222.15 |
| 0.08247 | 386323.00 | 3771233.69 | 0.08720 | (07110406) | 386312.75 | 3771248.43 |
| 0.10997 | 386415.31 | 3771092.02 | 0.12595 | (07082906) | 386380.05 | 3771051.00 |
| 0.10753 | 386392.23 | 3771050.36 | 0.11521 | (07082906) | 386374.29 | 3771063.18 |
| 0.12729 | 386402.49 | 3771098.43 | 0.12060 | (07082906) | 386419.80 | 3771082.41 |
| 0.06139 | 386163.39 | 3771763.82 | 0.06874 | (07061204) | 386081.33 | 3771480.49 |
| 0.07002 | 386103.77 | 3771527.92 | 0.05955 | (07050824) | 386120.44 | 3771576.00 |
| 0.07703 | 386135.82 | 3771613.82 | 0.07137 | (06083124) | 386146.72 | 3771651.64 |
| 0.06868 | 386156.33 | 3771690.75 | 0.07628 | (06030702) | 386164.67 | 3771730.49 |
| 0.54926 | 386716.60 | 3772090.11 | 0.48716 | (07063006) | 386705.70 | 3772082.42 |
| 0.59699 | 386714.67 | 3772074.72 | 0.58712 | (07071406) | 386723.00 | 3772061.90 |
| 0.70335 | 386731.99 | 3772036.90 | 0.74385 | (07030522) | 386728.13 | 3772051.01 |
| 0.46462 | 386737.11 | 3772022.15 | 0.71872 | (06111820) | 386699.29 | 3772099.08 |

Buried Cover CO Mitigated

| | | | | | | |
|--------------------------------|-------------------------|------------|-------------------------|------------|-----------|------------|
| 0.44580 | 386690.31 (07020104) | 3772107.42 | 0.43790 | (07020104) | 386682.62 | 3772113.83 |
| 0.44993 | 386674.29 (07020103) | 3772123.44 | 0.44788 | (07020103) | 386664.67 | 3772134.34 |
| 0.73532 | 386654.42 (07070805) | 3772145.24 | 0.45190 | (07020103) | 386605.70 | 3772127.29 |
| 0.78973 | 386590.95 (06122919) | 3772133.70 | 0.80633 | (06122919) | 386579.42 | 3772139.47 |
| 0.51538 | 386560.18 (06122919) | 3772147.16 | 0.64796 | (06122919) | 386545.44 | 3772154.85 |
| 0.48008 | 386533.26 (06122919) | 3772162.54 | 0.42708 | (06122919) | 386542.88 | 3772179.85 |
| 0.39116 | 386553.13 (07121620) | 3772195.88 | 0.38774 | (07121620) | 386568.52 | 3772208.70 |
| 0.43654 | 386581.98 (07121620) | 3772192.67 | 0.43147 | (07121620) | 386595.44 | 3772181.13 |
| 0.48696 | 386609.54 (07111522) | 3772168.95 | 0.44805 | (07111522) | 386624.29 | 3772152.29 |
| 0.44129 | 386619.16 (07020103) | 3772140.11 | 0.56731 | (07081406) | 386640.31 | 3772163.83 |
| 0.37063 | 386653.77 (07020104) | 3772174.72 | 0.40423 | (07020103) | 386665.95 | 3772186.26 |
| 0.31820 | 386677.49 (07082624) | 3772197.80 | 0.33703 | (07020104) | 386688.39 | 3772208.70 |
| 0.19744 | 386701.21 (07061204) | 3772222.16 | 0.29870 | (07082624) | 386448.64 | 3772217.67 |
| 0.22065 | 386456.34 (07061204) | 3772212.55 | 0.20736 | (07061204) | 386465.31 | 3772206.13 |
| 0.24878 | 386474.29 (07061204) | 3772200.37 | 0.23465 | (07061204) | 386481.34 | 3772194.60 |
| 0.27710 | 386489.03 (07061204) | 3772190.11 | 0.25361 | (07061204) | 386499.29 | 3772183.06 |
| 0.32285 | 386507.62 (07061204) | 3772177.93 | 0.29769 | (07041701) | 386514.67 | 3772171.52 |
| 0.33818 | 386576.85 (07121620) | 3772219.60 | 0.33251 | (07121620) | 386586.47 | 3772209.34 |
| 0.38353 | 386597.36 (07111522) | 3772197.80 | 0.35519 | (07081406) | 386606.98 | 3772187.54 |
| *** AERMOD - VERSION 09292 *** | | | *** Elysian | | | |
| *** 11/23/10 | | | *** Buried CO Mitigated | | | |
| *** 08:35:40 | | | | | | |

PAGE 11

**MODELOPTs: RegDFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

SOURCE GROUP: ALL *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
INCLUDING SOURCE(S): PAREA3 , PAREA4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF CO IN PPM

**

| CONC | X-COORD (M) (YYMMDDHH) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) |
|---------|---------------------------|-------------|---------|------------|-------------|-------------|
| 0.73842 | 386620.44 (06110320) | 3772178.57 | 0.40782 | (07020103) | 386742.87 | 3772003.56 |
| 0.11875 | 386386.30 (07082906) | 3771087.29 | 0.11276 | (07082906) | 386399.28 | 3771081.52 |
| 0.01707 | 386409.38 (07060324) | 3771067.10 | 0.12253 | (07082906) | 385296.78 | 3773131.99 |
| 0.01668 | 385287.93 (07101501) | 3773147.05 | 0.01688 | (07060324) | 385283.50 | 3773159.45 |
| 0.02148 | 385576.69 (07041701) | 3773089.48 | 0.02092 | (07041701) | 385597.95 | 3773060.25 |

Buried Cover CO Mitigated

| | | | | | | |
|---------|-------------------------|------------|---------|------------|-----------|------------|
| 0.02232 | 385609.46 (07041701) | 3773037.22 | 0.02183 | (07041701) | 385629.84 | 3772997.36 |
| 0.02314 | 385654.64 (07041701) | 3772953.07 | 0.02267 | (07041701) | 385706.01 | 3772876.89 |
| 0.02851 | 385752.07 (07060324) | 3772808.69 | 0.02503 | (07101501) | 385816.74 | 3772724.54 |
| 0.03980 | 385886.71 (07061204) | 3772645.70 | 0.03418 | (07061204) | 385952.26 | 3772579.27 |
| 0.05423 | 386020.46 (07061204) | 3772519.04 | 0.04611 | (07061204) | 386093.98 | 3772463.23 |
| 0.08149 | 386169.27 (07061204) | 3772410.97 | 0.06531 | (07061204) | 386248.11 | 3772359.60 |
| 0.15065 | 386328.71 (07061204) | 3772309.11 | 0.10610 | (07061204) | 386407.55 | 3772253.30 |
| 0.10879 | 387116.28 (06062804) | 3772187.40 | 0.10888 | (07070102) | 387141.00 | 3772141.51 |
| 0.09201 | 387201.01 (07070102) | 3772180.34 | 0.08434 | (06062804) | 387155.12 | 3772229.77 |
| 0.09425 | 386943.29 (07010320) | 3772540.45 | 0.09032 | (07010320) | 386925.64 | 3772582.82 |
| 0.11700 | 386526.69 (06090305) | 3770944.68 | 0.13527 | (06090305) | 386466.67 | 3770937.61 |
| 0.11541 | 386537.28 (06090305) | 3770884.66 | 0.11627 | (06090305) | 386480.80 | 3770881.13 |
| 0.02562 | 387374.01 (07032307) | 3771597.81 | 0.05872 | (07070124) | 384880.19 | 3771187.72 |
| 0.02660 | 384901.45 (07081506) | 3771161.15 | 0.02474 | (07081506) | 384909.41 | 3771118.65 |
| 0.02577 | 384912.07 (07081506) | 3771078.80 | 0.02662 | (07081506) | 384920.04 | 3771052.24 |

*** AERMOD - VERSION 09292 ***
 *** 11/23/10 ***
 *** 08:35:40 ***

*** Elysian
 *** Buried CO Mitigated

PAGE 12

**MODELOPTs: RegDFAULT CONC

ELEV
 NODRYDPLT NOWETDPLT

*** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: SRCGP1 ***
 INCLUDING SOURCE(S): PAREA3 , PAREA4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF CO IN PPM

**

| CONC | X-COORD (M) (YYMMDDHH) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) |
|---------|---------------------------|-------------|---------|------------|-------------|-------------|
| 0.09850 | 386476.85 (07122008) | 3771139.46 | 0.09783 | (07122008) | 386470.44 | 3771149.72 |
| 0.09466 | 386460.18 (07122008) | 3771159.97 | 0.09739 | (07122008) | 386449.29 | 3771172.79 |
| 0.09743 | 386440.31 (06020208) | 3771184.33 | 0.09551 | (06020208) | 386434.54 | 3771197.79 |
| 0.09228 | 386405.05 (06020208) | 3771244.59 | 0.08986 | (06020208) | 386409.54 | 3771235.61 |
| 0.09595 | 386416.59 (06020208) | 3771223.43 | 0.09474 | (06020208) | 386421.08 | 3771217.02 |
| 0.03579 | 386426.21 (07010408) | 3771209.97 | 0.09696 | (06020208) | 386274.28 | 3771299.72 |
| 0.03972 | 386278.77 (06020208) | 3771290.10 | 0.03689 | (06020508) | 386287.75 | 3771280.49 |
| 0.04836 | 386296.08 (06020208) | 3771269.59 | 0.04421 | (06020208) | 386303.13 | 3771259.33 |
| 0.06483 | 386340.31 (06020208) | 3771210.61 | 0.06952 | (06020208) | 386331.34 | 3771222.15 |

Buried Cover CO Mitigated

| | | | | | | |
|---------|----------------------------|------------|---------|---------------------|-----------|------------|
| 0.05370 | 386323.00 (06020208) | 3771233.69 | 0.06003 | (06020208) | 386312.75 | 3771248.43 |
| 0.06464 | 386415.31 (07020208) | 3771092.02 | 0.07510 | (07020208) | 386380.05 | 3771051.00 |
| 0.06428 | 386392.23 (07020208) | 3771050.36 | 0.06672 | (07020208) | 386374.29 | 3771063.18 |
| 0.07483 | 386402.49 (07020208) | 3771098.43 | 0.07424 | (07020208) | 386419.80 | 3771082.41 |
| 0.02433 | 386163.39 (06121608) | 3771763.82 | 0.01901 | (06122908) | 386081.33 | 3771480.49 |
| 0.01835 | 386103.77 (06010908) | 3771527.92 | 0.02042 | (06121608) | 386120.44 | 3771576.00 |
| 0.01689 | 386135.82 (06010908) | 3771613.82 | 0.01830 | (06032508) | 386146.72 | 3771651.64 |
| 0.01883 | 386156.33 (06122908) | 3771690.75 | 0.01674 | (07102108) | 386164.67 | 3771730.49 |
| 0.32121 | 386716.60 (07111824) | 3772090.11 | 0.27113 | (07111924) | 386705.70 | 3772082.42 |
| 0.36378 | 386714.67 (07111824) | 3772074.72 | 0.34221 | (07111824) | 386723.00 | 3772061.90 |
| 0.36330 | 386731.99 (07111824) | 3772036.90 | 0.35051 | (06080408) | 386728.13 | 3772051.01 |
| 0.29370 | 386737.11 (07060408) | 3772022.15 | 0.36458 | (07080308) | 386699.29 | 3772099.08 |
| 0.28737 | 386690.31 (07041324) | 3772107.42 | 0.29191 | (07060408) | 386682.62 | 3772113.83 |
| 0.30857 | 386674.29 (07031908) | 3772123.44 | 0.29558 | (07041324) | 386664.67 | 3772134.34 |
| 0.40634 | 386654.42 (07031908) | 3772145.24 | 0.31707 | (07031908) | 386605.70 | 3772127.29 |
| 0.22185 | 386590.95 (06051308) | 3772133.70 | 0.29713 | (07031908) | 386579.42 | 3772139.47 |
| 0.13403 | 386560.18 (06041108) | 3772147.16 | 0.16278 | (06041108) | 386545.44 | 3772154.85 |
| 0.10285 | 386533.26 (06051308) | 3772162.54 | 0.11474 | (06041108) | 386542.88 | 3772179.85 |
| 0.11951 | 386553.13 (07031908) | 3772195.88 | 0.11593 | (06051308) | 386568.52 | 3772208.70 |
| 0.22594 | 386581.98 (07031908) | 3772192.67 | 0.16651 | (07031908) | 386595.44 | 3772181.13 |
| 0.35850 | 386609.54 (07031908) | 3772168.95 | 0.29404 | (07031908) | 386624.29 | 3772152.29 |
| 0.30677 | 386619.16 (07031908) | 3772140.11 | 0.40053 | (07031908) | 386640.31 | 3772163.83 |
| 0.22046 | 386653.77 (07041324) | 3772174.72 | 0.25912 | (07031908) | 386665.95 | 3772186.26 |
| 0.17378 | 386677.49 (07041324) | 3772197.80 | 0.19510 | (07041324) | 386688.39 | 3772208.70 |
| 0.05440 | 386701.21 (06041108) | 3772222.16 | 0.15026 | (07041324) | 386448.64 | 3772217.67 |
| 0.06144 | 386456.34 (06041108) | 3772212.55 | 0.05742 | (06041108) | 386465.31 | 3772206.13 |
| 0.07001 | 386474.29 (06041108) | 3772200.37 | 0.06574 | (06041108) | 386481.34 | 3772194.60 |
| 0.08129 | 386489.03 (06041108) | 3772190.11 | 0.07395 | (06041108) | 386499.29 | 3772183.06 |
| 0.09589 | 386507.62 (06041108) | 3772177.93 | 0.08783 | (06041108) | 386514.67 | 3772171.52 |
| 0.16470 | 386576.85 (07031908) | 3772219.60 | 0.13521 | (07031908) | 386586.47 | 3772209.34 |
| 0.24303 | 386597.36 (07031908) | 3772197.80 | 0.20425 | (07031908) | 386606.98 | 3772187.54 |
| *** | AERMOD - VERSION 09292 *** | | *** | Elysian | | |
| *** | 11/23/10 | | *** | Buried CO Mitigated | | |
| *** | 08:35:40 | | | | | |

PAGE 13

**MODELOPTs: RegDEFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

Buried Cover CO Mitigated

SOURCE GROUP: SRCGP1 *** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR
 INCLUDING SOURCE(S): PAREA3 , PAREA4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF CO IN PPM

**

| CONC | X-COORD (M) (YYMMDDHH) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) |
|---------|---------------------------|-------------|---------|------------|-------------|-------------|
| 0.36651 | 386620.44 (06082908) | 3772178.57 | 0.28228 | (07031908) | 386742.87 | 3772003.56 |
| 0.07078 | 386386.30 (07020208) | 3771087.29 | 0.06960 | (07020208) | 386399.28 | 3771081.52 |
| 0.00359 | 386409.38 (06041108) | 3771067.10 | 0.07125 | (07020208) | 385296.78 | 3773131.99 |
| 0.00354 | 385287.93 (06041108) | 3773147.05 | 0.00356 | (06041108) | 385283.50 | 3773159.45 |
| 0.00449 | 385576.69 (06051308) | 3773089.48 | 0.00438 | (06051308) | 385597.95 | 3773060.25 |
| 0.00457 | 385609.46 (06051308) | 3773037.22 | 0.00452 | (06051308) | 385629.84 | 3772997.36 |
| 0.00497 | 385654.64 (06042708) | 3772953.07 | 0.00470 | (06042708) | 385706.01 | 3772876.89 |
| 0.00594 | 385752.07 (06041108) | 3772808.69 | 0.00529 | (06041108) | 385816.74 | 3772724.54 |
| 0.00750 | 385886.71 (06041108) | 3772645.70 | 0.00667 | (06041108) | 385952.26 | 3772579.27 |
| 0.01052 | 386020.46 (06041108) | 3772519.04 | 0.00864 | (06041108) | 386093.98 | 3772463.23 |
| 0.01842 | 386169.27 (06041108) | 3772410.97 | 0.01347 | (06041108) | 386248.11 | 3772359.60 |
| 0.04072 | 386328.71 (06041108) | 3772309.11 | 0.02665 | (06041108) | 386407.55 | 3772253.30 |
| 0.03700 | 387116.28 (07101324) | 3772187.40 | 0.04233 | (07111924) | 387141.00 | 3772141.51 |
| 0.03781 | 387201.01 (07111924) | 3772180.34 | 0.03044 | (07111924) | 387155.12 | 3772229.77 |
| 0.03119 | 386943.29 (06101508) | 3772540.45 | 0.03167 | (06101508) | 386925.64 | 3772582.82 |
| 0.05104 | 386526.69 (07122008) | 3770944.68 | 0.05193 | (06081708) | 386466.67 | 3770937.61 |
| 0.04351 | 386537.28 (06081708) | 3770884.66 | 0.04418 | (06081708) | 386480.80 | 3770881.13 |
| 0.01014 | 387374.01 (06103008) | 3771597.81 | 0.02343 | (06103108) | 384880.19 | 3771187.72 |
| 0.01010 | 384901.45 (07012808) | 3771161.15 | 0.01017 | (06103008) | 384909.41 | 3771118.65 |
| 0.00953 | 384912.07 (07012808) | 3771078.80 | 0.00984 | (07012808) | 384920.04 | 3771052.24 |

*** AERMOD - VERSION 09292 ***
 *** 11/23/10

*** Elysian
 *** Buried CO Mitigated

*** 08:35:40

PAGE 14

**MODELOPTs: RegDFAULT CONC

ELEV
 NODRYDPLT NOWETDPLT

SOURCE GROUP: ALL *** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR
 INCLUDING SOURCE(S): PAREA3 , PAREA4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF CO IN PPM

**

Buried Cover CO Mitigated

| CONC | X-COORD (M) (YYMMDDHH) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) |
|---------|---------------------------|-------------|---------|------------|-------------|-------------|
| 0.09850 | 386476.85 (07122008) | 3771139.46 | 0.09783 | (07122008) | 386470.44 | 3771149.72 |
| 0.09466 | 386460.18 (07122008) | 3771159.97 | 0.09739 | (07122008) | 386449.29 | 3771172.79 |
| 0.09743 | 386440.31 (06020208) | 3771184.33 | 0.09551 | (06020208) | 386434.54 | 3771197.79 |
| 0.09228 | 386405.05 (06020208) | 3771244.59 | 0.08986 | (06020208) | 386409.54 | 3771235.61 |
| 0.09595 | 386416.59 (06020208) | 3771223.43 | 0.09474 | (06020208) | 386421.08 | 3771217.02 |
| 0.03579 | 386426.21 (07010408) | 3771209.97 | 0.09696 | (06020208) | 386274.28 | 3771299.72 |
| 0.03972 | 386278.77 (06020208) | 3771290.10 | 0.03689 | (06020508) | 386287.75 | 3771280.49 |
| 0.04836 | 386296.08 (06020208) | 3771269.59 | 0.04421 | (06020208) | 386303.13 | 3771259.33 |
| 0.06483 | 386340.31 (06020208) | 3771210.61 | 0.06952 | (06020208) | 386331.34 | 3771222.15 |
| 0.05370 | 386323.00 (06020208) | 3771233.69 | 0.06003 | (06020208) | 386312.75 | 3771248.43 |
| 0.06464 | 386415.31 (07020208) | 3771092.02 | 0.07510 | (07020208) | 386380.05 | 3771051.00 |
| 0.06428 | 386392.23 (07020208) | 3771050.36 | 0.06672 | (07020208) | 386374.29 | 3771063.18 |
| 0.07483 | 386402.49 (07020208) | 3771098.43 | 0.07424 | (07020208) | 386419.80 | 3771082.41 |
| 0.02433 | 386163.39 (06121608) | 3771763.82 | 0.01901 | (06122908) | 386081.33 | 3771480.49 |
| 0.01835 | 386103.77 (06010908) | 3771527.92 | 0.02042 | (06121608) | 386120.44 | 3771576.00 |
| 0.01689 | 386135.82 (06010908) | 3771613.82 | 0.01830 | (06032508) | 386146.72 | 3771651.64 |
| 0.01883 | 386156.33 (06122908) | 3771690.75 | 0.01674 | (07102108) | 386164.67 | 3771730.49 |
| 0.32121 | 386716.60 (07111824) | 3772090.11 | 0.27113 | (07111924) | 386705.70 | 3772082.42 |
| 0.36378 | 386714.67 (07111824) | 3772074.72 | 0.34221 | (07111824) | 386723.00 | 3772061.90 |
| 0.36330 | 386731.99 (07111824) | 3772036.90 | 0.35051 | (06080408) | 386728.13 | 3772051.01 |
| 0.29370 | 386737.11 (07060408) | 3772022.15 | 0.36458 | (07080308) | 386699.29 | 3772099.08 |
| 0.28737 | 386690.31 (07041324) | 3772107.42 | 0.29191 | (07060408) | 386682.62 | 3772113.83 |
| 0.30857 | 386674.29 (07031908) | 3772123.44 | 0.29558 | (07041324) | 386664.67 | 3772134.34 |
| 0.40634 | 386654.42 (07031908) | 3772145.24 | 0.31707 | (07031908) | 386605.70 | 3772127.29 |
| 0.22185 | 386590.95 (06051308) | 3772133.70 | 0.29713 | (07031908) | 386579.42 | 3772139.47 |
| 0.13403 | 386560.18 (06041108) | 3772147.16 | 0.16278 | (06041108) | 386545.44 | 3772154.85 |
| 0.10285 | 386533.26 (06051308) | 3772162.54 | 0.11474 | (06041108) | 386542.88 | 3772179.85 |
| 0.11951 | 386553.13 (07031908) | 3772195.88 | 0.11593 | (06051308) | 386568.52 | 3772208.70 |
| 0.22594 | 386581.98 (07031908) | 3772192.67 | 0.16651 | (07031908) | 386595.44 | 3772181.13 |
| 0.35850 | 386609.54 (07031908) | 3772168.95 | 0.29404 | (07031908) | 386624.29 | 3772152.29 |
| 0.30677 | 386619.16 (07031908) | 3772140.11 | 0.40053 | (07031908) | 386640.31 | 3772163.83 |
| 0.22046 | 386653.77 (07041324) | 3772174.72 | 0.25912 | (07031908) | 386665.95 | 3772186.26 |
| 0.17378 | 386677.49 (07041324) | 3772197.80 | 0.19510 | (07041324) | 386688.39 | 3772208.70 |

Buried Cover CO Mitigated

| | | | | | | |
|---------|-------------------------|------------|---------|------------|-----------|------------|
| 0.05440 | 386701.21 (06041108) | 3772222.16 | 0.15026 | (07041324) | 386448.64 | 3772217.67 |
| 0.06144 | 386456.34 (06041108) | 3772212.55 | 0.05742 | (06041108) | 386465.31 | 3772206.13 |
| 0.07001 | 386474.29 (06041108) | 3772200.37 | 0.06574 | (06041108) | 386481.34 | 3772194.60 |
| 0.08129 | 386489.03 (06041108) | 3772190.11 | 0.07395 | (06041108) | 386499.29 | 3772183.06 |
| 0.09589 | 386507.62 (06041108) | 3772177.93 | 0.08783 | (06041108) | 386514.67 | 3772171.52 |
| 0.16470 | 386576.85 (07031908) | 3772219.60 | 0.13521 | (07031908) | 386586.47 | 3772209.34 |
| 0.24303 | 386597.36 (07031908) | 3772197.80 | 0.20425 | (07031908) | 386606.98 | 3772187.54 |

*** AERMOD - VERSION 09292 ***
 *** 11/23/10 ***
 *** 08:35:40 ***

*** Elysian
 *** Buried CO Mitigated

PAGE 15

**MODELOPTs: RegDFAULT CONC

ELEV
 NODRYDPLT NOWETDPLT

*** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): PAREA3 , PAREA4 ,
 *** DISCRETE CARTESIAN RECEPTOR POINTS ***
 ** CONC OF CO IN PPM

| CONC | X-COORD (M) (YYMMDDHH) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) |
|---------|---------------------------|-------------|---------|------------|-------------|-------------|
| 0.36651 | 386620.44 (06082908) | 3772178.57 | 0.28228 | (07031908) | 386742.87 | 3772003.56 |
| 0.07078 | 386386.30 (07020208) | 3771087.29 | 0.06960 | (07020208) | 386399.28 | 3771081.52 |
| 0.00359 | 386409.38 (06041108) | 3771067.10 | 0.07125 | (07020208) | 385296.78 | 3773131.99 |
| 0.00354 | 385287.93 (06041108) | 3773147.05 | 0.00356 | (06041108) | 385283.50 | 3773159.45 |
| 0.00449 | 385576.69 (06051308) | 3773089.48 | 0.00438 | (06051308) | 385597.95 | 3773060.25 |
| 0.00457 | 385609.46 (06051308) | 3773037.22 | 0.00452 | (06051308) | 385629.84 | 3772997.36 |
| 0.00497 | 385654.64 (06042708) | 3772953.07 | 0.00470 | (06042708) | 385706.01 | 3772876.89 |
| 0.00594 | 385752.07 (06041108) | 3772808.69 | 0.00529 | (06041108) | 385816.74 | 3772724.54 |
| 0.00750 | 385886.71 (06041108) | 3772645.70 | 0.00667 | (06041108) | 385952.26 | 3772579.27 |
| 0.01052 | 386020.46 (06041108) | 3772519.04 | 0.00864 | (06041108) | 386093.98 | 3772463.23 |
| 0.01842 | 386169.27 (06041108) | 3772410.97 | 0.01347 | (06041108) | 386248.11 | 3772359.60 |
| 0.04072 | 386328.71 (06041108) | 3772309.11 | 0.02665 | (06041108) | 386407.55 | 3772253.30 |
| 0.03700 | 387116.28 (07101324) | 3772187.40 | 0.04233 | (07111924) | 387141.00 | 3772141.51 |
| 0.03781 | 387201.01 (07111924) | 3772180.34 | 0.03044 | (07111924) | 387155.12 | 3772229.77 |
| 0.03119 | 386943.29 (06101508) | 3772540.45 | 0.03167 | (06101508) | 386925.64 | 3772582.82 |
| 0.05104 | 386526.69 (07122008) | 3770944.68 | 0.05193 | (06081708) | 386466.67 | 3770937.61 |
| 0.04351 | 386537.28 (06081708) | 3770884.66 | 0.04418 | (06081708) | 386480.80 | 3770881.13 |

Buried Cover CO Mitigated

DP = DISCPOLR
*** AERMOD - VERSION 09292 *** *** Elysian
*** 11/23/10 *** Buried CO Mitigated
*** 08:35:40

PAGE 18

**MODELOPTs: RegDEFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

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

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

A Total of 0 Fatal Error Message(s)
A Total of 0 Warning Message(s)
A Total of 113 Informational Message(s)

A Total of 17520 Hours Were Processed

A Total of 0 Calm Hours Identified

A Total of 113 Missing Hours Identified (0.64 Percent)

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

***** WARNING MESSAGES *****
*** NONE ***

*** AERMOD Finishes Successfully ***

Buried Cover PM2.5 Unmitigated

```
**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 6.7.1
** Lakes Environmental Software Inc.
** Date: 11/23/2010
** File: C:\Documents and Settings\jbailey\Desktop\Elysian Park AerMod\elysian\Bur_PM25.ADI
**
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**
CO STARTING
  TITLEONE Elysian
  TITLETWO Buried PM25
  MODELOPT DFAULT CONC NODRYDPLT NOWETDPLT
  AVERTIME 24
  URBANOPT 9862049 LA
  POLLUTID PM.25
  RUNORNOT RUN
CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
  LOCATION PAREA3 AREAPOLY 386606.494 3771295.572 139.670
** DESCRSRC Reservoir
  LOCATION PAREA4 AREAPOLY 386596.536 3772117.718 96.500
** DESCRSRC Caltrans
  LOCATION AREA2 AREA 386602.251 3772074.114 96.950
  LOCATION AREA3 AREA 386514.382 3771483.886 154.350
** Source Parameters **
  SRCPARAM PAREA3 2.0393E-06 5.000 18
  AREAVERT PAREA3 386606.494 3771295.572 386560.430 3771386.706
  AREAVERT PAREA3 386502.641 3771467.538 386454.064 3771523.011
  AREAVERT PAREA3 386432.288 3771547.577 386455.739 3771575.313
  AREAVERT PAREA3 386485.890 3771583.238 386543.680 3771557.879
  AREAVERT PAREA3 386593.931 3771507.954 386619.057 3771483.387
  AREAVERT PAREA3 386650.046 3771442.179 386660.096 3771427.914
  AREAVERT PAREA3 386676.847 3771408.103 386688.572 3771388.291
  AREAVERT PAREA3 386676.847 3771361.347 386655.909 3771323.308
  AREAVERT PAREA3 386640.833 3771309.044 386614.032 3771295.572
  SRCPARAM PAREA4 8.565E-06 5.000 14
  AREAVERT PAREA4 386596.536 3772117.718 386580.846 3772089.725
  AREAVERT PAREA4 386632.070 3772053.383 386637.838 3772051.173
  AREAVERT PAREA4 386652.144 3772050.928 386668.065 3772039.387
  AREAVERT PAREA4 386682.371 3772010.903 386693.678 3771992.977
  AREAVERT PAREA4 386695.985 3771989.049 386717.213 3771999.362
  AREAVERT PAREA4 386696.677 3772048.472 386683.525 3772065.170
  AREAVERT PAREA4 386672.219 3772075.974 386651.914 3772089.234
  SRCPARAM AREA2 0.0000189363 0.000 107.950 39.380 44.060 0.000
  SRCPARAM AREA3 0.0000244643 0.000 107.950 39.380 44.060 0.000
  URBANSRC PAREA3
  URBANSRC PAREA4
  URBANSRC AREA2
  URBANSRC AREA3
  SRCGROUP SRCGP1 PAREA4 PAREA3 AREA2 AREA3
  SRCGROUP ALL
SO FINISHED
**
*****
```

Buried Cover PM2.5 Unmitigated

```
** AERMOD Receptor Pathway
*****
**
**
RE STARTING
  INCLUDED Bur_PM25.rou
RE FINISHED
**
*****
** AERMOD Meteorology Pathway
*****
**
**
ME STARTING
  SURFFILE "L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\cela.SFC"
  PROFFILE "L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\cela.PFL"
  SURFDATA 0 2006
  UAIRDATA 3190 2006
  PROFBASE 10 METERS
ME FINISHED
**
*****
** AERMOD Output Pathway
*****
**
**
OU STARTING
  RECTABLE ALLAVE 1ST
  RECTABLE 24 1ST
** Auto-Generated Plotfiles
  PLOTFILE 24 ALL 1ST BUR_PM25.AD\24H1GALL.PLT
  PLOTFILE 24 SRCGP1 1ST BUR_PM25.AD\24H1G001.PLT
OU FINISHED

*****
*** SETUP Finishes Successfully ***
*****

*** AERMOD - VERSION 09292 ***      *** Elysian
***      11/23/10
***                                     *** Buried PM25
***      09:56:00

PAGE 1
**MODELOPTs:  RegDFault CONC
                                                    ELEV
                                                    NODRYDPLT NOWETDPLT
***      MODEL SETUP OPTIONS SUMMARY      ***
-----
**Model Is Setup For Calculation of Average CONCentration Values.

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

**Model Uses URBAN Dispersion Algorithm for the SBL for      4 Source(s),
for Total of      1 Urban Area(s):
Urban Population =  9862049.0 ; Urban Roughness Length =  1.000 m

**Model Uses Regulatory DEFAULT Options:
1. Stack-tip Downwash.
2. Model Accounts for ELEVated Terrain Effects.
3. Use Calms Processing Routine.
4. Use Missing Data Processing Routine.
5. No Exponential Decay for URBAN/Non-SO2.
6. Urban Roughness Length of 1.0 Meter Assumed.
```

Buried Cover PM2.5 Unmitigated

**Model Assumes No FLAGPOLE Receptor Heights.
 **Model Calculates 1 Short Term Average(s) of: 24-HR
 **This Run Includes: 4 Source(s); 2 Source Group(s); and 120 Receptor(s)
 **The Model Assumes A Pollutant Type of: PM.25
 **Model Set To Continue RUNning After the Setup Testing.
 **Output Options Selected:
 Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
 Model Outputs External File(s) of High Values for Plotting (PLOTFILE 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) = 10.00 ; Decay Coef. = 0.000
 ; Rot. Angle = 0.0
 Emission Units = GRAMS/SEC ; Emission Rate
 Unit Factor = 0.10000E+07
 Output Units = MICROGRAMS/M**3

**Approximate Storage Requirements of Model = 3.5 MB of RAM.

*** AERMOD - VERSION 09292 *** *** Elysian
 *** 11/23/10
 *** Buried PM25
 *** 09:56:00

PAGE 2

**MODELOPTs: RegDFAULT CONC ELEV
 NODRYDPLT NOWETDPLT

*** AREA SOURCE DATA ***

| ORIENT. | NUMBER INIT. | EMISSION RATE URBAN EMISSION RATE | COORD (SW CORNER) | | BASE | RELEASE | X-DIM | Y-DIM |
|---------|-----------------|--------------------------------------|-------------------|----------|----------|----------|----------|----------|
| SOURCE | PART. | (GRAMS/SEC | X | Y | ELEV. | HEIGHT | OF AREA | OF AREA |
| AREA | SZ | SOURCE SCALAR VARY | (METERS) | | (METERS) | (METERS) | (METERS) | (METERS) |
| (DEG.) | (METERS) | CATS. /METER**2) | (METERS) | (METERS) | (METERS) | (METERS) | (METERS) | (METERS) |
| BY | | | | | | | | |

| | | | | | | | | |
|-------|------|-------------|----------|-----------|-------|------|--------|-------|
| AREA2 | 0 | 0.18936E-04 | 386602.3 | 3772074.1 | 97.0 | 0.00 | 107.95 | 39.38 |
| 44.06 | 0.00 | YES | | | | | | |
| AREA3 | 0 | 0.24464E-04 | 386514.4 | 3771483.9 | 154.4 | 0.00 | 107.95 | 39.38 |
| 44.06 | 0.00 | YES | | | | | | |

*** AERMOD - VERSION 09292 *** *** Elysian
 *** 11/23/10
 *** Buried PM25
 *** 09:56:00

PAGE 3

**MODELOPTs: RegDFAULT CONC ELEV
 NODRYDPLT NOWETDPLT

*** AREAPOLY SOURCE DATA ***

| URBAN | NUMBER | EMISSION RATE | LOCATION OF AREA | | BASE | RELEASE | NUMBER | INIT. |
|--------|---------------|---------------|------------------|----------|----------|----------|-----------|----------|
| SOURCE | EMISSION RATE | (GRAMS/SEC | X | Y | ELEV. | HEIGHT | OF VERTS. | SZ |
| SOURCE | SCALAR VARY | /METER**2) | (METERS) | (METERS) | (METERS) | (METERS) | (METERS) | (METERS) |
| BY | ID | CATS. | (METERS) | (METERS) | (METERS) | (METERS) | (METERS) | (METERS) |

Buried Cover PM2.5 Unmitigated

```

-----
PAREA3      0  0.20393E-05  386606.5  3771295.6  139.7  5.00  18  0.00
YES
PAREA4      0  0.85650E-05  386596.5  3772117.7  96.5  5.00  14  0.00
YES
*** AERMOD - VERSION 09292 ***   *** Elysian
***      11/23/10
***      09:56:00
***      Buried PM25

```

PAGE 4

**MODELOPTs: RegDEFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID SOURCE IDs

SRCGP1 PAREA3 , PAREA4 , AREA2 , AREA3 ,

```

ALL PAREA3 , PAREA4 , AREA2 , AREA3 ,
*** AERMOD - VERSION 09292 ***   *** Elysian
***      11/23/10
***      09:56:00
***      Buried PM25

```

PAGE 5

**MODELOPTs: RegDEFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

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

```

( 386476.8, 3771139.5, 143.3, 181.0, 0.0); ( 386470.4, 3771149.7,
144.2, 181.0, 0.0);
( 386460.2, 3771160.0, 145.3, 181.0, 0.0); ( 386449.3, 3771172.8,
146.6, 181.0, 0.0);
( 386440.3, 3771184.3, 147.6, 181.0, 0.0); ( 386434.5, 3771197.8,
148.6, 181.0, 0.0);
( 386405.0, 3771244.6, 152.9, 181.0, 0.0); ( 386409.5, 3771235.6,
151.9, 181.0, 0.0);
( 386416.6, 3771223.4, 150.9, 181.0, 0.0); ( 386421.1, 3771217.0,
150.3, 181.0, 0.0);
( 386426.2, 3771210.0, 149.6, 181.0, 0.0); ( 386274.3, 3771299.7,
168.1, 181.0, 0.0);
( 386278.8, 3771290.1, 167.4, 181.0, 0.0); ( 386287.8, 3771280.5,
166.6, 181.0, 0.0);
( 386296.1, 3771269.6, 164.9, 181.0, 0.0); ( 386303.1, 3771259.3,
163.5, 181.0, 0.0);
( 386340.3, 3771210.6, 155.9, 181.0, 0.0); ( 386331.3, 3771222.1,
157.6, 181.0, 0.0);
( 386323.0, 3771233.7, 159.3, 181.0, 0.0); ( 386312.8, 3771248.4,
161.6, 181.0, 0.0);
( 386415.3, 3771092.0, 143.8, 181.0, 0.0); ( 386380.0, 3771051.0,
142.9, 164.0, 0.0);
( 386392.2, 3771050.4, 142.2, 181.0, 0.0); ( 386374.3, 3771063.2,
144.0, 164.0, 0.0);
( 386402.5, 3771098.4, 144.8, 181.0, 0.0); ( 386419.8, 3771082.4,
142.9, 181.0, 0.0);
( 386163.4, 3771763.8, 182.0, 182.0, 0.0); ( 386081.3, 3771480.5,
178.0, 178.0, 0.0);
( 386103.8, 3771527.9, 179.8, 179.8, 0.0); ( 386120.4, 3771576.0,
181.1, 181.1, 0.0);

```

Buried Cover PM2.5 Unmitigated

| | | | | |
|------------------------|--------|--------|-------|------------------------|
| (386135.8, 3771613.8, | 182.0, | 182.0, | 0.0); | (386146.7, 3771651.6, |
| 182.0, 182.0, 0.0); | | | | |
| (386156.3, 3771690.8, | 182.0, | 182.0, | 0.0); | (386164.7, 3771730.5, |
| 182.0, 182.0, 0.0); | | | | |
| (386716.6, 3772090.1, | 93.4, | 182.0, | 0.0); | (386705.7, 3772082.4, |
| 93.0, 182.0, 0.0); | | | | |
| (386714.7, 3772074.7, | 93.3, | 182.0, | 0.0); | (386723.0, 3772061.9, |
| 93.7, 182.0, 0.0); | | | | |
| (386732.0, 3772036.9, | 94.0, | 182.0, | 0.0); | (386728.1, 3772051.0, |
| 93.9, 182.0, 0.0); | | | | |
| (386737.1, 3772022.1, | 94.2, | 182.0, | 0.0); | (386699.3, 3772099.1, |
| 92.7, 182.0, 0.0); | | | | |
| (386690.3, 3772107.4, | 92.4, | 182.0, | 0.0); | (386682.6, 3772113.8, |
| 92.1, 182.0, 0.0); | | | | |
| (386674.3, 3772123.4, | 92.3, | 182.0, | 0.0); | (386664.7, 3772134.3, |
| 92.8, 182.0, 0.0); | | | | |
| (386654.4, 3772145.2, | 93.1, | 182.0, | 0.0); | (386605.7, 3772127.3, |
| 95.6, 182.0, 0.0); | | | | |
| (386591.0, 3772133.7, | 96.5, | 182.0, | 0.0); | (386579.4, 3772139.5, |
| 97.2, 182.0, 0.0); | | | | |
| (386560.2, 3772147.2, | 98.4, | 182.0, | 0.0); | (386545.4, 3772154.8, |
| 99.0, 182.0, 0.0); | | | | |
| (386533.3, 3772162.5, | 99.5, | 182.0, | 0.0); | (386542.9, 3772179.8, |
| 98.2, 182.0, 0.0); | | | | |
| (386553.1, 3772195.9, | 96.9, | 182.0, | 0.0); | (386568.5, 3772208.7, |
| 95.5, 182.0, 0.0); | | | | |
| (386582.0, 3772192.7, | 95.3, | 182.0, | 0.0); | (386595.4, 3772181.1, |
| 94.8, 182.0, 0.0); | | | | |
| (386609.5, 3772168.9, | 94.5, | 182.0, | 0.0); | (386624.3, 3772152.3, |
| 94.3, 182.0, 0.0); | | | | |
| (386619.2, 3772140.1, | 94.7, | 182.0, | 0.0); | (386640.3, 3772163.8, |
| 93.5, 182.0, 0.0); | | | | |
| (386653.8, 3772174.7, | 93.0, | 182.0, | 0.0); | (386666.0, 3772186.3, |
| 92.7, 182.0, 0.0); | | | | |
| (386677.5, 3772197.8, | 92.5, | 182.0, | 0.0); | (386688.4, 3772208.7, |
| 92.8, 182.0, 0.0); | | | | |
| (386701.2, 3772222.2, | 93.5, | 182.0, | 0.0); | (386448.6, 3772217.7, |
| 102.7, 182.0, 0.0); | | | | |
| (386456.3, 3772212.5, | 102.4, | 182.0, | 0.0); | (386465.3, 3772206.1, |
| 102.1, 182.0, 0.0); | | | | |
| (386474.3, 3772200.4, | 101.8, | 182.0, | 0.0); | (386481.3, 3772194.6, |
| 101.5, 182.0, 0.0); | | | | |
| (386489.0, 3772190.1, | 101.2, | 182.0, | 0.0); | (386499.3, 3772183.1, |
| 100.9, 182.0, 0.0); | | | | |
| (386507.6, 3772177.9, | 100.5, | 182.0, | 0.0); | (386514.7, 3772171.5, |
| 100.3, 182.0, 0.0); | | | | |
| (386576.8, 3772219.6, | 94.6, | 182.0, | 0.0); | (386586.5, 3772209.3, |
| 94.4, 182.0, 0.0); | | | | |
| (386597.4, 3772197.8, | 94.2, | 182.0, | 0.0); | (386607.0, 3772187.5, |
| 94.0, 182.0, 0.0); | | | | |
| (386620.4, 3772178.6, | 93.9, | 182.0, | 0.0); | (386742.9, 3772003.6, |
| 94.5, 182.0, 0.0); | | | | |
| (386386.3, 3771087.3, | 144.9, | 181.0, | 0.0); | (386399.3, 3771081.5, |
| 143.9, 181.0, 0.0); | | | | |
| (386409.4, 3771067.1, | 142.4, | 181.0, | 0.0); | (385296.8, 3773132.0, |
| 117.7, 182.0, 0.0); | | | | |
| (385287.9, 3773147.0, | 117.7, | 182.0, | 0.0); | (385283.5, 3773159.4, |
| 117.2, 182.0, 0.0); | | | | |
| (385576.7, 3773089.5, | 103.9, | 182.0, | 0.0); | (385598.0, 3773060.2, |
| 104.0, 182.0, 0.0); | | | | |

*** AERMOD - VERSION 09292 ***
 *** 11/23/10
 *** 09:56:00

*** Elysian
 *** Buried PM25

PAGE 6
 **MODELOPTs: RegDFault CONC

ELEV
 NODRYDPLT NOWETDPLT

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

Buried Cover PM2.5 Unmitigated

```

06 01 01 1 23 -36.1 0.645 -9.000 -9.000 -999. 1191. 673.0 0.65 1.00 1.00 5.90
82. 21.3 285.4 17.7
06 01 01 1 24 -35.3 0.633 -9.000 -9.000 -999. 1160. 649.7 0.65 1.00 1.00 5.80
84. 21.3 285.9 17.7

```

First hour of profile data

```

YR MO DY HR HEIGHT F WDIR WSPD AMB_TMP sigmaA sigmaW sigmaV
06 01 01 01 17.7 0 -999. -99.00 286.5 99.0 -99.00 -99.00
06 01 01 01 21.3 1 347. 0.70 -999.0 99.0 -99.00 -99.00

```

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

```

*** AERMOD - VERSION 09292 *** *** Elysian
*** 11/23/10
*** Buried PM25
*** 09:56:00

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PAGE 9

**MODELOPTs: RegDFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

```

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR
SOURCE GROUP: SRCGP1 ***
INCLUDING SOURCE(S): PAREA3 , PAREA4 , AREA2 , AREA3

```

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM.25 IN MICROGRAMS/M**3

**

| CONC | X-COORD (M) (YYMMDDHH) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) |
|----------|---------------------------|-------------|----------|------------|-------------|-------------|
| 14.26916 | 386476.85 | 3771139.46 | 13.58545 | (06013124) | 386470.44 | 3771149.72 |
| 16.36374 | 386460.18 | 3771159.97 | 15.47601 | (06121424) | 386449.29 | 3771172.79 |
| 18.54777 | 386440.31 | 3771184.33 | 17.37459 | (06011024) | 386434.54 | 3771197.79 |
| 21.56745 | 386405.05 | 3771244.59 | 21.37294 | (07112824) | 386409.54 | 3771235.61 |
| 20.77996 | 386416.59 | 3771223.43 | 21.24467 | (07112824) | 386421.08 | 3771217.02 |
| 8.19436 | 386426.21 | 3771209.97 | 20.00215 | (07112824) | 386274.28 | 3771299.72 |
| 9.35678 | 386278.77 | 3771290.10 | 8.73223 | (07012224) | 386287.75 | 3771280.49 |
| 10.33535 | 386296.08 | 3771269.59 | 9.83626 | (07012224) | 386303.13 | 3771259.33 |
| 14.86963 | 386340.31 | 3771210.61 | 15.55230 | (06010824) | 386331.34 | 3771222.15 |
| 12.24986 | 386323.00 | 3771233.69 | 13.95302 | (06010924) | 386312.75 | 3771248.43 |
| 10.19206 | 386415.31 | 3771092.02 | 12.06434 | (06121424) | 386380.05 | 3771051.00 |
| 10.92510 | 386392.23 | 3771050.36 | 10.43791 | (06121424) | 386374.29 | 3771063.18 |
| 11.80011 | 386402.49 | 3771098.43 | 12.21373 | (06011024) | 386419.80 | 3771082.41 |
| 3.89936 | 386163.39 | 3771763.82 | 2.42610 | (06122924) | 386081.33 | 3771480.49 |
| 2.75882 | 386103.77 | 3771527.92 | 2.82008 | (06020224) | 386120.44 | 3771576.00 |
| 3.49292 | 386135.82 | 3771613.82 | 2.77572 | (06010824) | 386146.72 | 3771651.64 |
| 2.39557 | 386156.33 | 3771690.75 | 2.88289 | (07021824) | 386164.67 | 3771730.49 |
| 80.19774 | 386716.60 | 3772090.11 | 64.22194 | (06101524) | 386705.70 | 3772082.42 |

Buried Cover PM2.5 Unmitigated

| | | | | | |
|-----------|------------|-----------|------------|-----------|------------|
| 386714.67 | 3772074.72 | 75.35358 | (06101524) | 386723.00 | 3772061.90 |
| 69.16933 | (06050424) | 386731.99 | 3772036.90 | 80.07794 | (06103124) |
| 75.39118 | (06103124) | 386737.11 | 3772022.15 | 74.80265 | (07080324) |
| 69.06154 | (06101524) | 386690.31 | 3772107.42 | 63.55342 | (06101524) |
| 63.29786 | (07090224) | 386674.29 | 3772123.44 | 62.75346 | (07090624) |
| 60.78907 | (06072524) | 386654.42 | 3772145.24 | 58.84523 | (06072524) |
| 45.62350 | (07031824) | 386590.95 | 3772133.70 | 30.09101 | (06042724) |
| 23.75282 | (06042724) | 386560.18 | 3772147.16 | 16.80769 | (06042724) |
| 13.72611 | (06041124) | 386533.26 | 3772162.54 | 12.04324 | (06041124) |
| 11.20744 | (06042724) | 386553.13 | 3772195.88 | 11.25523 | (06051324) |
| 12.44010 | (06051324) | 386581.98 | 3772192.67 | 15.53548 | (07031824) |
| 21.53004 | (07031824) | 386609.54 | 3772168.95 | 31.15753 | (07031924) |
| 50.33773 | (07031924) | 386619.16 | 3772140.11 | 53.95509 | (07031924) |
| 47.65153 | (07031924) | 386653.77 | 3772174.72 | 44.63706 | (06072524) |
| 40.60992 | (06072524) | 386677.49 | 3772197.80 | 36.21634 | (06072524) |
| 32.18884 | (06072524) | 386701.21 | 3772222.16 | 27.44707 | (06072524) |
| 5.82092 | (06041124) | 386456.34 | 3772212.55 | 6.16909 | (06041124) |
| 6.61584 | (06041124) | 386474.29 | 3772200.37 | 7.10243 | (06041124) |
| 7.55444 | (06041124) | 386489.03 | 3772190.11 | 8.03031 | (06041124) |
| 8.80039 | (06041124) | 386507.62 | 3772177.93 | 9.47552 | (06041124) |
| 10.26025 | (06041124) | 386576.85 | 3772219.60 | 12.41715 | (07031824) |
| 15.28493 | (07031824) | 386597.36 | 3772197.80 | 19.74334 | (07031824) |
| 25.33379 | (07031924) | | | | |

*** AERMOD - VERSION 09292 ***
 *** 11/23/10
 *** 09:56:00

*** Elysian
 *** Buried PM25

PAGE 10

**MODELOPTs: RegDFault CONC

ELEV
 NODRYDPLT NOWETDPLT

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: SRCGP1 *** INCLUDING SOURCE(S): PAREA3 , PAREA4 , AREA2 , AREA3

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM.25 IN MICROGRAMS/M**3

**

| CONC | X-COORD (M) (YYMMDDHH) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) |
|----------|---------------------------|-------------|----------|------------|-------------|-------------|
| 58.16295 | 386620.44 | 3772178.57 | 35.65052 | (07031924) | 386742.87 | 3772003.56 |
| 11.33995 | 386386.30 | 3771087.29 | 12.01135 | (06011024) | 386399.28 | 3771081.52 |

Buried Cover PM2.5 Unmitigated

| | | | | | | |
|--------------------------------|-------------------------|------------|-----------------|------------|-----------|------------|
| 0.39099 | 386409.38 (06120924) | 3771067.10 | 11.19825 | (06121424) | 385296.78 | 3773131.99 |
| 0.40043 | 385287.93 (06120924) | 3773147.05 | 0.39437 | (06120924) | 385283.50 | 3773159.45 |
| 0.46289 | 385576.69 (07080524) | 3773089.48 | 0.45657 | (07080524) | 385597.95 | 3773060.25 |
| 0.46370 | 385609.46 (06120924) | 3773037.22 | 0.46049 | (07080524) | 385629.84 | 3772997.36 |
| 0.56148 | 385654.64 (06120924) | 3772953.07 | 0.50559 | (06120924) | 385706.01 | 3772876.89 |
| 0.63058 | 385752.07 (06120924) | 3772808.69 | 0.60170 | (06120924) | 385816.74 | 3772724.54 |
| 0.88404 | 385886.71 (07102124) | 3772645.70 | 0.72817 | (07102124) | 385952.26 | 3772579.27 |
| 1.30988 | 386020.46 (07102124) | 3772519.04 | 1.08411 | (07102124) | 386093.98 | 3772463.23 |
| 1.75836 | 386169.27 (06041124) | 3772410.97 | 1.44846 | (07102124) | 386248.11 | 3772359.60 |
| 4.32773 | 386328.71 (06041124) | 3772309.11 | 2.68467 | (06041124) | 386407.55 | 3772253.30 |
| 6.05709 | 387116.28 (06051624) | 3772187.40 | 5.64338 | (06101524) | 387141.00 | 3772141.51 |
| 4.70439 | 387201.01 (06101524) | 3772180.34 | 4.35354 | (07082424) | 387155.12 | 3772229.77 |
| 3.69983 | 386943.29 (06101524) | 3772540.45 | 3.69321 | (06101524) | 386925.64 | 3772582.82 |
| 6.78856 | 386526.69 (06111224) | 3770944.68 | 5.36919 | (06111224) | 386466.67 | 3770937.61 |
| 5.42771 | 386537.28 (06111224) | 3770884.66 | 4.16468 | (07092524) | 386480.80 | 3770881.13 |
| 1.20545 | 387374.01 (06103024) | 3771597.81 | 3.20959 | (07080324) | 384880.19 | 3771187.72 |
| 1.18539 | 384901.45 (07012824) | 3771161.15 | 1.18520 | (06103024) | 384909.41 | 3771118.65 |
| 1.03704 | 384912.07 (07012824) | 3771078.80 | 1.11327 | (07012824) | 384920.04 | 3771052.24 |
| *** AERMOD - VERSION 09292 *** | | | *** Elysian | | | |
| *** 11/23/10 | | | *** Buried PM25 | | | |
| *** 09:56:00 | | | | | | |

PAGE 11

**MODELOPTs: RegDFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

SOURCE GROUP: ALL *** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR
INCLUDING SOURCE(S): PAREA3 , PAREA4 , AREA2 , AREA3

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM.25 IN MICROGRAMS/M**3

**

| CONC | X-COORD (M) (YYMMDDHH) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) |
|----------|---------------------------|-------------|----------|------------|-------------|-------------|
| 14.26916 | 386476.85 (06121424) | 3771139.46 | 13.58545 | (06013124) | 386470.44 | 3771149.72 |
| 16.36374 | 386460.18 (06121424) | 3771159.97 | 15.47601 | (06121424) | 386449.29 | 3771172.79 |
| 18.54777 | 386440.31 (06011024) | 3771184.33 | 17.37459 | (06011024) | 386434.54 | 3771197.79 |
| 21.56745 | 386405.05 (07112824) | 3771244.59 | 21.37294 | (07112824) | 386409.54 | 3771235.61 |
| 20.77996 | 386416.59 (07112824) | 3771223.43 | 21.24467 | (07112824) | 386421.08 | 3771217.02 |
| 8.19436 | 386426.21 (07012224) | 3771209.97 | 20.00215 | (07112824) | 386274.28 | 3771299.72 |

Buried Cover PM2.5 Unmitigated

| | | | | | |
|--------------------------------|------------|-------------|------------|-----------|------------|
| 386278.77 | 3771290.10 | 8.73223 | (07012224) | 386287.75 | 3771280.49 |
| 9.35678 | (07012224) | | | | |
| 386296.08 | 3771269.59 | 9.83626 | (07012224) | 386303.13 | 3771259.33 |
| 10.33535 | (06010924) | | | | |
| 386340.31 | 3771210.61 | 15.55230 | (06010824) | 386331.34 | 3771222.15 |
| 14.86963 | (06010924) | | | | |
| 386323.00 | 3771233.69 | 13.95302 | (06010924) | 386312.75 | 3771248.43 |
| 12.24986 | (06010924) | | | | |
| 386415.31 | 3771092.02 | 12.06434 | (06121424) | 386380.05 | 3771051.00 |
| 10.19206 | (06011024) | | | | |
| 386392.23 | 3771050.36 | 10.43791 | (06121424) | 386374.29 | 3771063.18 |
| 10.92510 | (06011024) | | | | |
| 386402.49 | 3771098.43 | 12.21373 | (06011024) | 386419.80 | 3771082.41 |
| 11.80011 | (06121424) | | | | |
| 386163.39 | 3771763.82 | 2.42610 | (06122924) | 386081.33 | 3771480.49 |
| 3.89936 | (06121624) | | | | |
| 386103.77 | 3771527.92 | 2.82008 | (06020224) | 386120.44 | 3771576.00 |
| 2.75882 | (06032524) | | | | |
| 386135.82 | 3771613.82 | 2.77572 | (06010824) | 386146.72 | 3771651.64 |
| 3.49292 | (07021824) | | | | |
| 386156.33 | 3771690.75 | 2.88289 | (07021824) | 386164.67 | 3771730.49 |
| 2.39557 | (07112524) | | | | |
| 386716.60 | 3772090.11 | 64.22194 | (06101524) | 386705.70 | 3772082.42 |
| 80.19774 | (06101524) | | | | |
| 386714.67 | 3772074.72 | 75.35358 | (06101524) | 386723.00 | 3772061.90 |
| 69.16933 | (06050424) | | | | |
| 386731.99 | 3772036.90 | 80.07794 | (06103124) | 386728.13 | 3772051.01 |
| 75.39118 | (06103124) | | | | |
| 386737.11 | 3772022.15 | 74.80265 | (07080324) | 386699.29 | 3772099.08 |
| 69.06154 | (06101524) | | | | |
| 386690.31 | 3772107.42 | 63.55342 | (06101524) | 386682.62 | 3772113.83 |
| 63.29786 | (07090224) | | | | |
| 386674.29 | 3772123.44 | 62.75346 | (07090624) | 386664.67 | 3772134.34 |
| 60.78907 | (06072524) | | | | |
| 386654.42 | 3772145.24 | 58.84523 | (06072524) | 386605.70 | 3772127.29 |
| 45.62350 | (07031824) | | | | |
| 386590.95 | 3772133.70 | 30.09101 | (06042724) | 386579.42 | 3772139.47 |
| 23.75282 | (06042724) | | | | |
| 386560.18 | 3772147.16 | 16.80769 | (06042724) | 386545.44 | 3772154.85 |
| 13.72611 | (06041124) | | | | |
| 386533.26 | 3772162.54 | 12.04324 | (06041124) | 386542.88 | 3772179.85 |
| 11.20744 | (06042724) | | | | |
| 386553.13 | 3772195.88 | 11.25523 | (06051324) | 386568.52 | 3772208.70 |
| 12.44010 | (06051324) | | | | |
| 386581.98 | 3772192.67 | 15.53548 | (07031824) | 386595.44 | 3772181.13 |
| 21.53004 | (07031824) | | | | |
| 386609.54 | 3772168.95 | 31.15753 | (07031924) | 386624.29 | 3772152.29 |
| 50.33773 | (07031924) | | | | |
| 386619.16 | 3772140.11 | 53.95509 | (07031924) | 386640.31 | 3772163.83 |
| 47.65153 | (07031924) | | | | |
| 386653.77 | 3772174.72 | 44.63706 | (06072524) | 386665.95 | 3772186.26 |
| 40.60992 | (06072524) | | | | |
| 386677.49 | 3772197.80 | 36.21634 | (06072524) | 386688.39 | 3772208.70 |
| 32.18884 | (06072524) | | | | |
| 386701.21 | 3772222.16 | 27.44707 | (06072524) | 386448.64 | 3772217.67 |
| 5.82092 | (06041124) | | | | |
| 386456.34 | 3772212.55 | 6.16909 | (06041124) | 386465.31 | 3772206.13 |
| 6.61584 | (06041124) | | | | |
| 386474.29 | 3772200.37 | 7.10243 | (06041124) | 386481.34 | 3772194.60 |
| 7.55444 | (06041124) | | | | |
| 386489.03 | 3772190.11 | 8.03031 | (06041124) | 386499.29 | 3772183.06 |
| 8.80039 | (06041124) | | | | |
| 386507.62 | 3772177.93 | 9.47552 | (06041124) | 386514.67 | 3772171.52 |
| 10.26025 | (06041124) | | | | |
| 386576.85 | 3772219.60 | 12.41715 | (07031824) | 386586.47 | 3772209.34 |
| 15.28493 | (07031824) | | | | |
| 386597.36 | 3772197.80 | 19.74334 | (07031824) | 386606.98 | 3772187.54 |
| 25.33379 | (07031924) | | | | |
| *** AERMOD - VERSION 09292 *** | | *** Elysian | | | |
| *** | 11/23/10 | | | | |

Buried Cover PM2.5 Unmitigated

*** Buried PM25

*** 09:56:00

PAGE 12

**MODELOPTs: RegDFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

SOURCE GROUP: ALL *** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR
INCLUDING SOURCE(S): PAREA3 , PAREA4 , AREA2 , AREA3

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM.25 IN MICROGRAMS/M**3

**

| CONC | X-COORD (M) (YYMMDDHH) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) |
|----------|---------------------------|-------------|----------|------------|-------------|-------------|
| 58.16295 | 386620.44 (07080324) | 3772178.57 | 35.65052 | (07031924) | 386742.87 | 3772003.56 |
| 11.33995 | 386386.30 (06121424) | 3771087.29 | 12.01135 | (06011024) | 386399.28 | 3771081.52 |
| 0.39099 | 386409.38 (06120924) | 3771067.10 | 11.19825 | (06121424) | 385296.78 | 3773131.99 |
| 0.40043 | 385287.93 (06120924) | 3773147.05 | 0.39437 | (06120924) | 385283.50 | 3773159.45 |
| 0.46289 | 385576.69 (07080524) | 3773089.48 | 0.45657 | (07080524) | 385597.95 | 3773060.25 |
| 0.46370 | 385609.46 (06120924) | 3773037.22 | 0.46049 | (07080524) | 385629.84 | 3772997.36 |
| 0.56148 | 385654.64 (06120924) | 3772953.07 | 0.50559 | (06120924) | 385706.01 | 3772876.89 |
| 0.63058 | 385752.07 (06120924) | 3772808.69 | 0.60170 | (06120924) | 385816.74 | 3772724.54 |
| 0.88404 | 385886.71 (07102124) | 3772645.70 | 0.72817 | (07102124) | 385952.26 | 3772579.27 |
| 1.30988 | 386020.46 (07102124) | 3772519.04 | 1.08411 | (07102124) | 386093.98 | 3772463.23 |
| 1.75836 | 386169.27 (06041124) | 3772410.97 | 1.44846 | (07102124) | 386248.11 | 3772359.60 |
| 4.32773 | 386328.71 (06041124) | 3772309.11 | 2.68467 | (06041124) | 386407.55 | 3772253.30 |
| 6.05709 | 387116.28 (06051624) | 3772187.40 | 5.64338 | (06101524) | 387141.00 | 3772141.51 |
| 4.70439 | 387201.01 (06101524) | 3772180.34 | 4.35354 | (07082424) | 387155.12 | 3772229.77 |
| 3.69983 | 386943.29 (06101524) | 3772540.45 | 3.69321 | (06101524) | 386925.64 | 3772582.82 |
| 6.78856 | 386526.69 (06111224) | 3770944.68 | 5.36919 | (06111224) | 386466.67 | 3770937.61 |
| 5.42771 | 386537.28 (06111224) | 3770884.66 | 4.16468 | (07092524) | 386480.80 | 3770881.13 |
| 1.20545 | 387374.01 (06103024) | 3771597.81 | 3.20959 | (07080324) | 384880.19 | 3771187.72 |
| 1.18539 | 384901.45 (07012824) | 3771161.15 | 1.18520 | (06103024) | 384909.41 | 3771118.65 |
| 1.03704 | 384912.07 (07012824) | 3771078.80 | 1.11327 | (07012824) | 384920.04 | 3771052.24 |

*** AERMOD - VERSION 09292 ***
*** 11/23/10

*** Elysian

*** Buried PM25

*** 09:56:00

PAGE 13

**MODELOPTs: RegDFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

*** THE SUMMARY OF HIGHEST 24-HR RESULTS ***

Buried Cover PM2.5 Unmitigated

```

**
** CONC OF PM.25 IN MICROGRAMS/M**3
**
NETWORK
GROUP ID AVERAGE CONC DATE RECEPTOR (XR, YR,
ZELEV, ZHILL, ZFLAG) OF TYPE GRID-ID
-----
SRCGP1 HIGH 1ST HIGH VALUE IS 80.19774 ON 06101524: AT ( 386705.70, 3772082.42,
92.99, 182.00, 0.00) DC
ALL HIGH 1ST HIGH VALUE IS 80.19774 ON 06101524: AT ( 386705.70, 3772082.42,
92.99, 182.00, 0.00) DC

```

```

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

```

```

*** AERMOD - VERSION 09292 *** *** Elysian
*** 11/23/10
*** Buried PM25
*** 09:56:00

```

PAGE 14

**MODELOPTs: RegDFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

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

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

```

A Total of 0 Fatal Error Message(s)
A Total of 0 Warning Message(s)
A Total of 113 Informational Message(s)
A Total of 17520 Hours Were Processed
A Total of 0 Calm Hours Identified
A Total of 113 Missing Hours Identified ( 0.64 Percent)

```

```

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

```

```

***** WARNING MESSAGES *****
*** NONE ***

```

```

*****
*** AERMOD Finishes Successfully ***
*****

```


Floating Cover PM10 Unmitigated

```
**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 6.7.1
** Lakes Environmental Software Inc.
** Date: 11/23/2010
** File: C:\Documents and Settings\jbailey\Desktop\Elysian Park AerMod\elysian\Flt_PM10.ADI
**
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**
CO STARTING
  TITLEONE Elysian
  TITLETWO Floating PM10
  MODELOPT DFAULT CONC NODRYDPLT NOWETDPLT
  AVERTIME 24
  URBANOPT 9862049 LA
  POLLUTID PM.10
  RUNORNOT RUN
CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
  LOCATION PAREA3 AREAPOLY 386606.494 3771295.572 139.670
** DESCRSRC Reservoir
  LOCATION PAREA4 AREAPOLY 386596.536 3772117.718 96.500
** DESCRSRC Caltrans
  LOCATION AREA2 AREA 386602.251 3772074.114 96.950
  LOCATION AREA3 AREA 386514.382 3771483.886 154.350
** Source Parameters **
  SRCPARAM PAREA3 2.5319E-06 5.000 18
  AREAVERT PAREA3 386606.494 3771295.572 386560.430 3771386.706
  AREAVERT PAREA3 386502.641 3771467.538 386454.064 3771523.011
  AREAVERT PAREA3 386432.288 3771547.577 386455.739 3771575.313
  AREAVERT PAREA3 386485.890 3771583.238 386543.680 3771557.879
  AREAVERT PAREA3 386593.931 3771507.954 386619.057 3771483.387
  AREAVERT PAREA3 386650.046 3771442.179 386660.096 3771427.914
  AREAVERT PAREA3 386676.847 3771408.103 386688.572 3771388.291
  AREAVERT PAREA3 386676.847 3771361.347 386655.909 3771323.308
  AREAVERT PAREA3 386640.833 3771309.044 386614.032 3771295.572
  SRCPARAM PAREA4 9.304E-06 5.000 14
  AREAVERT PAREA4 386596.536 3772117.718 386580.846 3772089.725
  AREAVERT PAREA4 386632.070 3772053.383 386637.838 3772051.173
  AREAVERT PAREA4 386652.144 3772050.928 386668.065 3772039.387
  AREAVERT PAREA4 386682.371 3772010.903 386693.678 3771992.977
  AREAVERT PAREA4 386695.985 3771989.049 386717.213 3771999.362
  AREAVERT PAREA4 386696.677 3772048.472 386683.525 3772065.170
  AREAVERT PAREA4 386672.219 3772075.974 386651.914 3772089.234
  SRCPARAM AREA2 0.0000915057 0.000 107.950 39.380 44.060 0.000
  SRCPARAM AREA3 0.0001115006 0.000 107.950 39.380 44.060 0.000
  URBANSRC PAREA3
  URBANSRC PAREA4
  URBANSRC AREA2
  URBANSRC AREA3
  SRCGROUP SRCGP1 PAREA4 PAREA3 AREA2 AREA3
  SRCGROUP ALL
SO FINISHED
**
*****
```

Floating Cover PM10 Unmitigated

```
** AERMOD Receptor Pathway
*****
**
**
RE STARTING
  INCLUDED Flt_PM10.rou
RE FINISHED
**
*****
** AERMOD Meteorology Pathway
*****
**
**
ME STARTING
  SURFFILE "L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\cela.SFC"
  PROFFILE "L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\cela.PFL"
  SURFDATA 0 2006
  UAIRDATA 3190 2006
  PROFBASE 10 METERS
ME FINISHED
**
*****
** AERMOD Output Pathway
*****
**
**
OU STARTING
  RECTABLE ALLAVE 1ST
  RECTABLE 24 1ST
** Auto-Generated Plotfiles
  PLOTFILE 24 ALL 1ST FLT_PM10.AD\24H1GALL.PLT
  PLOTFILE 24 SRCGP1 1ST FLT_PM10.AD\24H1G001.PLT
OU FINISHED

*****
*** SETUP Finishes Successfully ***
*****

*** AERMOD - VERSION 09292 ***      *** Elysian
***      11/23/10
***                                     *** Floating PM10
***      11:01:29

PAGE 1
**MODELOPTs:  RegDFault CONC
                                                    ELEV
                                                    NODRYDPLT NOWETDPLT
***      MODEL SETUP OPTIONS SUMMARY      ***
-----
**Model Is Setup For Calculation of Average CONCentration Values.

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

**Model Uses URBAN Dispersion Algorithm for the SBL for      4 Source(s),
for Total of      1 Urban Area(s):
Urban Population =  9862049.0 ; Urban Roughness Length =  1.000 m

**Model Uses Regulatory DEFAULT Options:
1. Stack-tip Downwash.
2. Model Accounts for ELEVated Terrain Effects.
3. Use Calms Processing Routine.
4. Use Missing Data Processing Routine.
5. No Exponential Decay for URBAN/Non-SO2.
6. Urban Roughness Length of 1.0 Meter Assumed.
```

Floating Cover PM10 Unmitigated

**Model Assumes No FLAGPOLE Receptor Heights.
 **Model Calculates 1 Short Term Average(s) of: 24-HR
 **This Run Includes: 4 Source(s); 2 Source Group(s); and 120 Receptor(s)
 **The Model Assumes A Pollutant Type of: PM.10
 **Model Set To Continue RUNning After the Setup Testing.
 **Output Options Selected:
 Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
 Model Outputs External File(s) of High Values for Plotting (PLOTFILE 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) = 10.00 ; Decay Coef. = 0.000
 ; Rot. Angle = 0.0
 Emission Units = GRAMS/SEC ; Emission Rate
 Unit Factor = 0.10000E+07
 Output Units = MICROGRAMS/M**3

**Approximate Storage Requirements of Model = 3.5 MB of RAM.

*** AERMOD - VERSION 09292 *** *** Elysian
 *** 11/23/10 *** Floating PM10
 *** 11:01:29

PAGE 2

**MODELOPTs: RegDFAULT CONC ELEV
 NODRYDPLT NOWETDPLT

*** AREA SOURCE DATA ***

| ORIENT. | INIT. | NUMBER URBAN EMISSION RATE | COORD (SW CORNER) | BASE | RELEASE | X-DIM | Y-DIM |
|---------|----------|----------------------------|-------------------|----------|----------|----------|----------|
| SOURCE | PART. | (GRAMS/SEC | X | Y | ELEV. | HEIGHT | OF AREA |
| AREA | SZ | SOURCE SCALAR VARY | (METERS) | (METERS) | (METERS) | (METERS) | OF AREA |
| (DEG.) | (METERS) | CATS. /METER**2) | (METERS) | (METERS) | (METERS) | (METERS) | (METERS) |
| BY | | | | | | | |

| | | | | | | | | |
|-------|------|-------------|----------|-----------|-------|------|--------|-------|
| AREA2 | 0 | 0.91506E-04 | 386602.3 | 3772074.1 | 97.0 | 0.00 | 107.95 | 39.38 |
| 44.06 | 0.00 | YES | | | | | | |
| AREA3 | 0 | 0.11150E-03 | 386514.4 | 3771483.9 | 154.4 | 0.00 | 107.95 | 39.38 |
| 44.06 | 0.00 | YES | | | | | | |

*** AERMOD - VERSION 09292 *** *** Elysian
 *** 11/23/10 *** Floating PM10
 *** 11:01:29

PAGE 3

**MODELOPTs: RegDFAULT CONC ELEV
 NODRYDPLT NOWETDPLT

*** AREAPOLY SOURCE DATA ***

| URBAN EMISSION RATE | NUMBER EMISSION RATE | LOCATION OF AREA | BASE | RELEASE | NUMBER | INIT. |
|---------------------|----------------------|------------------|----------|----------|----------|-----------|
| SOURCE | PART. | (GRAMS/SEC | X | Y | ELEV. | HEIGHT |
| SOURCE SCALAR VARY | (METERS) | (METERS) | (METERS) | (METERS) | (METERS) | OF VERTS. |
| ID | CATS. /METER**2) | (METERS) | (METERS) | (METERS) | (METERS) | SZ |
| BY | | | | | | |

Floating Cover PM10 Unmitigated

```

-----
PAREA3      0  0.25319E-05  386606.5  3771295.6  139.7   5.00   18   0.00
YES
PAREA4      0  0.93040E-05  386596.5  3772117.7   96.5   5.00   14   0.00
YES
*** AERMOD - VERSION 09292 ***   *** Elysian
***      11/23/10
***      11:01:29
*** Floating PM10

```

PAGE 4

**MODELOPTs: RegDEFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID SOURCE IDs

SRCGP1 PAREA3 , PAREA4 , AREA2 , AREA3 ,

ALL PAREA3 , PAREA4 , AREA2 , AREA3 ,

```

*** AERMOD - VERSION 09292 ***   *** Elysian
***      11/23/10
***      11:01:29
*** Floating PM10

```

PAGE 5

**MODELOPTs: RegDEFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

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

```

( 386476.8, 3771139.5, 143.3, 181.0, 0.0); ( 386470.4, 3771149.7,
144.2, 181.0, 0.0);
( 386460.2, 3771160.0, 145.3, 181.0, 0.0); ( 386449.3, 3771172.8,
146.6, 181.0, 0.0);
( 386440.3, 3771184.3, 147.6, 181.0, 0.0); ( 386434.5, 3771197.8,
148.6, 181.0, 0.0);
( 386405.0, 3771244.6, 152.9, 181.0, 0.0); ( 386409.5, 3771235.6,
151.9, 181.0, 0.0);
( 386416.6, 3771223.4, 150.9, 181.0, 0.0); ( 386421.1, 3771217.0,
150.3, 181.0, 0.0);
( 386426.2, 3771210.0, 149.6, 181.0, 0.0); ( 386274.3, 3771299.7,
168.1, 181.0, 0.0);
( 386278.8, 3771290.1, 167.4, 181.0, 0.0); ( 386287.8, 3771280.5,
166.6, 181.0, 0.0);
( 386296.1, 3771269.6, 164.9, 181.0, 0.0); ( 386303.1, 3771259.3,
163.5, 181.0, 0.0);
( 386340.3, 3771210.6, 155.9, 181.0, 0.0); ( 386331.3, 3771222.1,
157.6, 181.0, 0.0);
( 386323.0, 3771233.7, 159.3, 181.0, 0.0); ( 386312.8, 3771248.4,
161.6, 181.0, 0.0);
( 386415.3, 3771092.0, 143.8, 181.0, 0.0); ( 386380.0, 3771051.0,
142.9, 164.0, 0.0);
( 386392.2, 3771050.4, 142.2, 181.0, 0.0); ( 386374.3, 3771063.2,
144.0, 164.0, 0.0);
( 386402.5, 3771098.4, 144.8, 181.0, 0.0); ( 386419.8, 3771082.4,
142.9, 181.0, 0.0);
( 386163.4, 3771763.8, 182.0, 182.0, 0.0); ( 386081.3, 3771480.5,
178.0, 178.0, 0.0);
( 386103.8, 3771527.9, 179.8, 179.8, 0.0); ( 386120.4, 3771576.0,
181.1, 181.1, 0.0);

```

Floating Cover PM10 Unmitigated

| | | | | |
|------------------------|--------|--------|-------|------------------------|
| (386135.8, 3771613.8, | 182.0, | 182.0, | 0.0); | (386146.7, 3771651.6, |
| 182.0, 182.0, 0.0); | | | | |
| (386156.3, 3771690.8, | 182.0, | 182.0, | 0.0); | (386164.7, 3771730.5, |
| 182.0, 182.0, 0.0); | | | | |
| (386716.6, 3772090.1, | 93.4, | 182.0, | 0.0); | (386705.7, 3772082.4, |
| 93.0, 182.0, 0.0); | | | | |
| (386714.7, 3772074.7, | 93.3, | 182.0, | 0.0); | (386723.0, 3772061.9, |
| 93.7, 182.0, 0.0); | | | | |
| (386732.0, 3772036.9, | 94.0, | 182.0, | 0.0); | (386728.1, 3772051.0, |
| 93.9, 182.0, 0.0); | | | | |
| (386737.1, 3772022.1, | 94.2, | 182.0, | 0.0); | (386699.3, 3772099.1, |
| 92.7, 182.0, 0.0); | | | | |
| (386690.3, 3772107.4, | 92.4, | 182.0, | 0.0); | (386682.6, 3772113.8, |
| 92.1, 182.0, 0.0); | | | | |
| (386674.3, 3772123.4, | 92.3, | 182.0, | 0.0); | (386664.7, 3772134.3, |
| 92.8, 182.0, 0.0); | | | | |
| (386654.4, 3772145.2, | 93.1, | 182.0, | 0.0); | (386605.7, 3772127.3, |
| 95.6, 182.0, 0.0); | | | | |
| (386591.0, 3772133.7, | 96.5, | 182.0, | 0.0); | (386579.4, 3772139.5, |
| 97.2, 182.0, 0.0); | | | | |
| (386560.2, 3772147.2, | 98.4, | 182.0, | 0.0); | (386545.4, 3772154.8, |
| 99.0, 182.0, 0.0); | | | | |
| (386533.3, 3772162.5, | 99.5, | 182.0, | 0.0); | (386542.9, 3772179.8, |
| 98.2, 182.0, 0.0); | | | | |
| (386553.1, 3772195.9, | 96.9, | 182.0, | 0.0); | (386568.5, 3772208.7, |
| 95.5, 182.0, 0.0); | | | | |
| (386582.0, 3772192.7, | 95.3, | 182.0, | 0.0); | (386595.4, 3772181.1, |
| 94.8, 182.0, 0.0); | | | | |
| (386609.5, 3772168.9, | 94.5, | 182.0, | 0.0); | (386624.3, 3772152.3, |
| 94.3, 182.0, 0.0); | | | | |
| (386619.2, 3772140.1, | 94.7, | 182.0, | 0.0); | (386640.3, 3772163.8, |
| 93.5, 182.0, 0.0); | | | | |
| (386653.8, 3772174.7, | 93.0, | 182.0, | 0.0); | (386666.0, 3772186.3, |
| 92.7, 182.0, 0.0); | | | | |
| (386677.5, 3772197.8, | 92.5, | 182.0, | 0.0); | (386688.4, 3772208.7, |
| 92.8, 182.0, 0.0); | | | | |
| (386701.2, 3772222.2, | 93.5, | 182.0, | 0.0); | (386448.6, 3772217.7, |
| 102.7, 182.0, 0.0); | | | | |
| (386456.3, 3772212.5, | 102.4, | 182.0, | 0.0); | (386465.3, 3772206.1, |
| 102.1, 182.0, 0.0); | | | | |
| (386474.3, 3772200.4, | 101.8, | 182.0, | 0.0); | (386481.3, 3772194.6, |
| 101.5, 182.0, 0.0); | | | | |
| (386489.0, 3772190.1, | 101.2, | 182.0, | 0.0); | (386499.3, 3772183.1, |
| 100.9, 182.0, 0.0); | | | | |
| (386507.6, 3772177.9, | 100.5, | 182.0, | 0.0); | (386514.7, 3772171.5, |
| 100.3, 182.0, 0.0); | | | | |
| (386576.8, 3772219.6, | 94.6, | 182.0, | 0.0); | (386586.5, 3772209.3, |
| 94.4, 182.0, 0.0); | | | | |
| (386597.4, 3772197.8, | 94.2, | 182.0, | 0.0); | (386607.0, 3772187.5, |
| 94.0, 182.0, 0.0); | | | | |
| (386620.4, 3772178.6, | 93.9, | 182.0, | 0.0); | (386742.9, 3772003.6, |
| 94.5, 182.0, 0.0); | | | | |
| (386386.3, 3771087.3, | 144.9, | 181.0, | 0.0); | (386399.3, 3771081.5, |
| 143.9, 181.0, 0.0); | | | | |
| (386409.4, 3771067.1, | 142.4, | 181.0, | 0.0); | (385296.8, 3773132.0, |
| 117.7, 182.0, 0.0); | | | | |
| (385287.9, 3773147.0, | 117.7, | 182.0, | 0.0); | (385283.5, 3773159.4, |
| 117.2, 182.0, 0.0); | | | | |
| (385576.7, 3773089.5, | 103.9, | 182.0, | 0.0); | (385598.0, 3773060.2, |
| 104.0, 182.0, 0.0); | | | | |

*** AERMOD - VERSION 09292 ***
 *** 11/23/10
 *** 11:01:29

*** Elysian
 *** Floating PM10

PAGE 6
 **MODELOPTs: RegDFault CONC

ELEV
 NODRYPLT NOWETDPLT

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

Floating Cover PM10 Unmitigated

```

06 01 01 1 23 -36.1 0.645 -9.000 -9.000 -999. 1191. 673.0 0.65 1.00 1.00 5.90
82. 21.3 285.4 17.7
06 01 01 1 24 -35.3 0.633 -9.000 -9.000 -999. 1160. 649.7 0.65 1.00 1.00 5.80
84. 21.3 285.9 17.7

```

First hour of profile data

```

YR MO DY HR HEIGHT F WDIR WSPD AMB_TMP sigmaA sigmaW sigmaV
06 01 01 01 17.7 0 -999. -99.00 286.5 99.0 -99.00 -99.00
06 01 01 01 21.3 1 347. 0.70 -999.0 99.0 -99.00 -99.00

```

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

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*** AERMOD - VERSION 09292 *** *** Elysian
*** 11/23/10
*** Floating PM10
*** 11:01:29

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PAGE 9

**MODELOPTs: RegDFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

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*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR
SOURCE GROUP: SRCGP1 ***
INCLUDING SOURCE(S): PAREA3 , PAREA4 , AREA2 , AREA3

```

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM.10 IN MICROGRAMS/M**3

**

| CONC | X-COORD (M) (YYMMDDHH) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) |
|-----------|---------------------------|-------------|-----------|------------|-------------|-------------|
| 50.34071 | 386476.85 | 3771139.46 | 48.30216 | (06013124) | 386470.44 | 3771149.72 |
| 59.26964 | 386460.18 | 3771159.97 | 55.39934 | (06121424) | 386449.29 | 3771172.79 |
| 70.08392 | 386440.31 | 3771184.33 | 64.52030 | (06011024) | 386434.54 | 3771197.79 |
| 84.25156 | 386405.05 | 3771244.59 | 83.84994 | (07112824) | 386409.54 | 3771235.61 |
| 79.85721 | 386416.59 | 3771223.43 | 82.25756 | (07112824) | 386421.08 | 3771217.02 |
| 31.63221 | 386426.21 | 3771209.97 | 76.03468 | (07112824) | 386274.28 | 3771299.72 |
| 36.55607 | 386278.77 | 3771290.10 | 33.87001 | (07012224) | 386287.75 | 3771280.49 |
| 39.58581 | 386296.08 | 3771269.59 | 38.60750 | (06121224) | 386303.13 | 3771259.33 |
| 57.74230 | 386340.31 | 3771210.61 | 60.33142 | (06010824) | 386331.34 | 3771222.15 |
| 47.54427 | 386323.00 | 3771233.69 | 54.33898 | (06010924) | 386312.75 | 3771248.43 |
| 36.64798 | 386415.31 | 3771092.02 | 43.19065 | (06121424) | 386380.05 | 3771051.00 |
| 39.83880 | 386392.23 | 3771050.36 | 37.12478 | (06121424) | 386374.29 | 3771063.18 |
| 42.20061 | 386402.49 | 3771098.43 | 44.00909 | (06011024) | 386419.80 | 3771082.41 |
| 15.01879 | 386163.39 | 3771763.82 | 8.85186 | (06122924) | 386081.33 | 3771480.49 |
| 10.84842 | 386103.77 | 3771527.92 | 10.58744 | (06020224) | 386120.44 | 3771576.00 |
| 13.32128 | 386135.82 | 3771613.82 | 10.48264 | (06032524) | 386146.72 | 3771651.64 |
| 8.72231 | 386156.33 | 3771690.75 | 10.59601 | (07021824) | 386164.67 | 3771730.49 |
| 307.57915 | 386716.60 | 3772090.11 | 241.24219 | (06101524) | 386705.70 | 3772082.42 |

Floating Cover PM10 Unmitigated

| | | | | | |
|-----------|------------|-----------|------------|-----------|------------|
| 386714.67 | 3772074.72 | 287.47094 | (06101524) | 386723.00 | 3772061.90 |
| 267.72417 | (06050424) | | | | |
| 386731.99 | 3772036.90 | 314.59132 | (06103124) | 386728.13 | 3772051.01 |
| 291.81559 | (06103124) | | | | |
| 386737.11 | 3772022.15 | 289.59105 | (07080324) | 386699.29 | 3772099.08 |
| 260.88075 | (06101524) | | | | |
| 386690.31 | 3772107.42 | 240.27926 | (07090224) | 386682.62 | 3772113.83 |
| 241.49197 | (07090224) | | | | |
| 386674.29 | 3772123.44 | 239.01720 | (07090624) | 386664.67 | 3772134.34 |
| 234.72572 | (06072524) | | | | |
| 386654.42 | 3772145.24 | 226.77934 | (06072524) | 386605.70 | 3772127.29 |
| 149.38992 | (07031824) | | | | |
| 386590.95 | 3772133.70 | 99.26881 | (06042724) | 386579.42 | 3772139.47 |
| 79.58373 | (06042724) | | | | |
| 386560.18 | 3772147.16 | 58.28458 | (06042724) | 386545.44 | 3772154.85 |
| 48.24278 | (06041124) | | | | |
| 386533.26 | 3772162.54 | 42.93274 | (06041124) | 386542.88 | 3772179.85 |
| 39.85762 | (06042724) | | | | |
| 386553.13 | 3772195.88 | 40.65570 | (06051324) | 386568.52 | 3772208.70 |
| 46.25435 | (06051324) | | | | |
| 386581.98 | 3772192.67 | 55.87907 | (06051324) | 386595.44 | 3772181.13 |
| 70.84696 | (07031824) | | | | |
| 386609.54 | 3772168.95 | 107.73663 | (07031824) | 386624.29 | 3772152.29 |
| 184.55592 | (07031924) | | | | |
| 386619.16 | 3772140.11 | 192.45154 | (07031924) | 386640.31 | 3772163.83 |
| 180.55888 | (07031924) | | | | |
| 386653.77 | 3772174.72 | 170.20327 | (06072524) | 386665.95 | 3772186.26 |
| 155.80771 | (06072524) | | | | |
| 386677.49 | 3772197.80 | 139.09704 | (06072524) | 386688.39 | 3772208.70 |
| 123.28817 | (06072524) | | | | |
| 386701.21 | 3772222.16 | 104.30651 | (06072524) | 386448.64 | 3772217.67 |
| 21.20365 | (06041124) | | | | |
| 386456.34 | 3772212.55 | 22.48277 | (06041124) | 386465.31 | 3772206.13 |
| 24.10318 | (06041124) | | | | |
| 386474.29 | 3772200.37 | 25.87764 | (06041124) | 386481.34 | 3772194.60 |
| 27.48782 | (06041124) | | | | |
| 386489.03 | 3772190.11 | 29.24523 | (06041124) | 386499.29 | 3772183.06 |
| 31.96561 | (06041124) | | | | |
| 386507.62 | 3772177.93 | 34.32937 | (06041124) | 386514.67 | 3772171.52 |
| 37.01525 | (06041124) | | | | |
| 386576.85 | 3772219.60 | 43.06316 | (06051324) | 386586.47 | 3772209.34 |
| 49.90461 | (07031824) | | | | |
| 386597.36 | 3772197.80 | 66.63548 | (07031824) | 386606.98 | 3772187.54 |
| 86.93549 | (07031824) | | | | |

*** AERMOD - VERSION 09292 ***
 *** 11/23/10
 *** 11:01:29

*** Elysian
 *** Floating PM10

PAGE 10

**MODELOPTs: RegDFault CONC

ELEV
 NODRYDPLT NOWETDPLT

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: SRCGP1 ***
 INCLUDING SOURCE(S): PAREA3 , PAREA4 , AREA2 , AREA3

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM.10 IN MICROGRAMS/M**3

**

| CONC | X-COORD (M) (YYMMDDHH) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) |
|-----------|---------------------------|-------------|-----------|------------|-------------|-------------|
| 219.51420 | 386620.44 | 3772178.57 | 128.74812 | (07031924) | 386742.87 | 3772003.56 |
| 40.41573 | 386386.30 | 3771087.29 | 43.66733 | (06011024) | 386399.28 | 3771081.52 |

Floating Cover PM10 Unmitigated

| | | | | | | |
|--------------------------------|-------------------------|------------|-------------------|------------|-----------|------------|
| 1.40576 | 386409.38 (06120924) | 3771067.10 | 39.99016 | (06121424) | 385296.78 | 3773131.99 |
| 1.45769 | 385287.93 (06120924) | 3773147.05 | 1.42632 | (06120924) | 385283.50 | 3773159.45 |
| 1.74315 | 385576.69 (07080524) | 3773089.48 | 1.72540 | (07080524) | 385597.95 | 3773060.25 |
| 1.73628 | 385609.46 (06041124) | 3773037.22 | 1.72179 | (07080524) | 385629.84 | 3772997.36 |
| 2.08912 | 385654.64 (06041124) | 3772953.07 | 1.88391 | (06041124) | 385706.01 | 3772876.89 |
| 2.31518 | 385752.07 (06041124) | 3772808.69 | 2.20987 | (06041124) | 385816.74 | 3772724.54 |
| 3.34575 | 385886.71 (07102124) | 3772645.70 | 2.73088 | (07102124) | 385952.26 | 3772579.27 |
| 5.05461 | 386020.46 (07102124) | 3772519.04 | 4.14747 | (07102124) | 386093.98 | 3772463.23 |
| 6.24451 | 386169.27 (06041124) | 3772410.97 | 5.56754 | (07102124) | 386248.11 | 3772359.60 |
| 15.80135 | 386328.71 (06041124) | 3772309.11 | 9.69160 | (06041124) | 386407.55 | 3772253.30 |
| 22.74418 | 387116.28 (06051624) | 3772187.40 | 20.76612 | (06101524) | 387141.00 | 3772141.51 |
| 17.08236 | 387201.01 (06101524) | 3772180.34 | 16.35308 | (07082424) | 387155.12 | 3772229.77 |
| 13.13357 | 386943.29 (06101524) | 3772540.45 | 13.06207 | (06101524) | 386925.64 | 3772582.82 |
| 23.71155 | 386526.69 (06111224) | 3770944.68 | 18.65780 | (06081724) | 386466.67 | 3770937.61 |
| 19.18147 | 386537.28 (07101824) | 3770884.66 | 14.94655 | (07092524) | 386480.80 | 3770881.13 |
| 4.42629 | 387374.01 (06103024) | 3771597.81 | 11.74730 | (07080324) | 384880.19 | 3771187.72 |
| 4.32707 | 384901.45 (07012824) | 3771161.15 | 4.33608 | (06103024) | 384909.41 | 3771118.65 |
| 3.78321 | 384912.07 (07010424) | 3771078.80 | 4.02504 | (07012824) | 384920.04 | 3771052.24 |
| *** AERMOD - VERSION 09292 *** | | | *** Elysian | | | |
| *** 11/23/10 | | | *** Floating PM10 | | | |
| *** 11:01:29 | | | | | | |

PAGE 11

**MODELOPTs: RegDFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

SOURCE GROUP: ALL *** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR
INCLUDING SOURCE(S): PAREA3 , PAREA4 , AREA2 , AREA3

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

| ** CONC OF PM.10 IN MICROGRAMS/M**3 | |
|-------------------------------------|-------------|
| CONC | (YYMMDDHH) |
| X-COORD (M) | Y-COORD (M) |
| CONC | (YYMMDDHH) |
| 48.30216 | (06013124) |
| 55.39934 | (06121424) |
| 64.52030 | (06011024) |
| 83.84994 | (07112824) |
| 82.25756 | (07112824) |
| 76.03468 | (07112824) |

Floating Cover PM10 Unmitigated

| | | | | | | |
|-----------|------------------------|------------|-----------|------------|-----------|------------|
| 36.55607 | 386278.77 | 3771290.10 | 33.87001 | (07012224) | 386287.75 | 3771280.49 |
| 39.58581 | 386296.08 | 3771269.59 | 38.60750 | (06121224) | 386303.13 | 3771259.33 |
| 57.74230 | 386340.31 | 3771210.61 | 60.33142 | (06010824) | 386331.34 | 3771222.15 |
| 47.54427 | 386323.00 | 3771233.69 | 54.33898 | (06010924) | 386312.75 | 3771248.43 |
| 36.64798 | 386415.31 | 3771092.02 | 43.19065 | (06121424) | 386380.05 | 3771051.00 |
| 39.83880 | 386392.23 | 3771050.36 | 37.12478 | (06121424) | 386374.29 | 3771063.18 |
| 42.20061 | 386402.49 | 3771098.43 | 44.00909 | (06011024) | 386419.80 | 3771082.41 |
| 15.01879 | 386163.39 | 3771763.82 | 8.85186 | (06122924) | 386081.33 | 3771480.49 |
| 10.84842 | 386103.77 | 3771527.92 | 10.58744 | (06020224) | 386120.44 | 3771576.00 |
| 13.32128 | 386135.82 | 3771613.82 | 10.48264 | (06032524) | 386146.72 | 3771651.64 |
| 8.72231 | 386156.33 | 3771690.75 | 10.59601 | (07021824) | 386164.67 | 3771730.49 |
| 307.57915 | 386716.60 | 3772090.11 | 241.24219 | (06101524) | 386705.70 | 3772082.42 |
| 267.72417 | 386714.67 | 3772074.72 | 287.47094 | (06101524) | 386723.00 | 3772061.90 |
| 291.81559 | 386731.99 | 3772036.90 | 314.59132 | (06103124) | 386728.13 | 3772051.01 |
| 260.88075 | 386737.11 | 3772022.15 | 289.59105 | (07080324) | 386699.29 | 3772099.08 |
| 241.49197 | 386690.31 | 3772107.42 | 240.27926 | (07090224) | 386682.62 | 3772113.83 |
| 234.72572 | 386674.29 | 3772123.44 | 239.01720 | (07090624) | 386664.67 | 3772134.34 |
| 149.38992 | 386654.42 | 3772145.24 | 226.77934 | (06072524) | 386605.70 | 3772127.29 |
| 79.58373 | 386590.95 | 3772133.70 | 99.26881 | (06042724) | 386579.42 | 3772139.47 |
| 48.24278 | 386560.18 | 3772147.16 | 58.28458 | (06042724) | 386545.44 | 3772154.85 |
| 39.85762 | 386533.26 | 3772162.54 | 42.93274 | (06041124) | 386542.88 | 3772179.85 |
| 46.25435 | 386553.13 | 3772195.88 | 40.65570 | (06051324) | 386568.52 | 3772208.70 |
| 70.84696 | 386581.98 | 3772192.67 | 55.87907 | (06051324) | 386595.44 | 3772181.13 |
| 184.55592 | 386609.54 | 3772168.95 | 107.73663 | (07031824) | 386624.29 | 3772152.29 |
| 180.55888 | 386619.16 | 3772140.11 | 192.45154 | (07031924) | 386640.31 | 3772163.83 |
| 155.80771 | 386653.77 | 3772174.72 | 170.20327 | (06072524) | 386665.95 | 3772186.26 |
| 123.28817 | 386677.49 | 3772197.80 | 139.09704 | (06072524) | 386688.39 | 3772208.70 |
| 21.20365 | 386701.21 | 3772222.16 | 104.30651 | (06072524) | 386448.64 | 3772217.67 |
| 24.10318 | 386456.34 | 3772212.55 | 22.48277 | (06041124) | 386465.31 | 3772206.13 |
| 27.48782 | 386474.29 | 3772200.37 | 25.87764 | (06041124) | 386481.34 | 3772194.60 |
| 31.96561 | 386489.03 | 3772190.11 | 29.24523 | (06041124) | 386499.29 | 3772183.06 |
| 37.01525 | 386507.62 | 3772177.93 | 34.32937 | (06041124) | 386514.67 | 3772171.52 |
| 49.90461 | 386576.85 | 3772219.60 | 43.06316 | (06051324) | 386586.47 | 3772209.34 |
| 86.93549 | 386597.36 | 3772197.80 | 66.63548 | (07031824) | 386606.98 | 3772187.54 |
| *** | AERMOD - VERSION 09292 | *** | *** | Elysian | | |
| *** | 11/23/10 | | | | | |

Floating Cover PM10 Unmitigated

*** Floating PM10

*** 11:01:29

PAGE 12

**MODELOPTs: RegDFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR
SOURCE GROUP: ALL *** INCLUDING SOURCE(S): PAREA3 , PAREA4 , AREA2 , AREA3

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM.10 IN MICROGRAMS/M**3

**

| CONC | X-COORD (M) (YYMMDDHH) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) |
|-----------|---------------------------|-------------|-----------|------------|-------------|-------------|
| 219.51420 | 386620.44 (07080324) | 3772178.57 | 128.74812 | (07031924) | 386742.87 | 3772003.56 |
| 40.41573 | 386386.30 (06121424) | 3771087.29 | 43.66733 | (06011024) | 386399.28 | 3771081.52 |
| 1.40576 | 386409.38 (06120924) | 3771067.10 | 39.99016 | (06121424) | 385296.78 | 3773131.99 |
| 1.45769 | 385287.93 (06120924) | 3773147.05 | 1.42632 | (06120924) | 385283.50 | 3773159.45 |
| 1.74315 | 385576.69 (07080524) | 3773089.48 | 1.72540 | (07080524) | 385597.95 | 3773060.25 |
| 1.73628 | 385609.46 (06041124) | 3773037.22 | 1.72179 | (07080524) | 385629.84 | 3772997.36 |
| 2.08912 | 385654.64 (06041124) | 3772953.07 | 1.88391 | (06041124) | 385706.01 | 3772876.89 |
| 2.31518 | 385752.07 (06041124) | 3772808.69 | 2.20987 | (06041124) | 385816.74 | 3772724.54 |
| 3.34575 | 385886.71 (07102124) | 3772645.70 | 2.73088 | (07102124) | 385952.26 | 3772579.27 |
| 5.05461 | 386020.46 (07102124) | 3772519.04 | 4.14747 | (07102124) | 386093.98 | 3772463.23 |
| 6.24451 | 386169.27 (06041124) | 3772410.97 | 5.56754 | (07102124) | 386248.11 | 3772359.60 |
| 15.80135 | 386328.71 (06041124) | 3772309.11 | 9.69160 | (06041124) | 386407.55 | 3772253.30 |
| 22.74418 | 387116.28 (06051624) | 3772187.40 | 20.76612 | (06101524) | 387141.00 | 3772141.51 |
| 17.08236 | 387201.01 (06101524) | 3772180.34 | 16.35308 | (07082424) | 387155.12 | 3772229.77 |
| 13.13357 | 386943.29 (06101524) | 3772540.45 | 13.06207 | (06101524) | 386925.64 | 3772582.82 |
| 23.71155 | 386526.69 (06111224) | 3770944.68 | 18.65780 | (06081724) | 386466.67 | 3770937.61 |
| 19.18147 | 386537.28 (07101824) | 3770884.66 | 14.94655 | (07092524) | 386480.80 | 3770881.13 |
| 4.42629 | 387374.01 (06103024) | 3771597.81 | 11.74730 | (07080324) | 384880.19 | 3771187.72 |
| 4.32707 | 384901.45 (07012824) | 3771161.15 | 4.33608 | (06103024) | 384909.41 | 3771118.65 |
| 3.78321 | 384912.07 (07010424) | 3771078.80 | 4.02504 | (07012824) | 384920.04 | 3771052.24 |

*** AERMOD - VERSION 09292 ***
*** 11/23/10

*** Elysian
*** Floating PM10

*** 11:01:29

PAGE 13

**MODELOPTs: RegDFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

*** THE SUMMARY OF HIGHEST 24-HR RESULTS ***

Floating Cover PM10 Unmitigated

```

**
** CONC OF PM.10 IN MICROGRAMS/M**3
**
NETWORK
GROUP ID AVERAGE CONC DATE RECEPTOR (XR, YR,
ZELEV, ZHILL, ZFLAG) OF TYPE GRID-ID
-----
SRCGP1 HIGH 1ST HIGH VALUE IS 314.59132 ON 06103124: AT ( 386731.99, 3772036.90,
94.04, 182.00, 0.00) DC
ALL HIGH 1ST HIGH VALUE IS 314.59132 ON 06103124: AT ( 386731.99, 3772036.90,
94.04, 182.00, 0.00) DC

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR
*** AERMOD - VERSION 09292 *** *** Elysian
*** 11/23/10
*** Floating PM10
*** 11:01:29

PAGE 14
**MODELOPTs: RegDFAULT CONC ELEV
NODRYDPLT NOWETDPLT

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

----- Summary of Total Messages -----
A Total of 0 Fatal Error Message(s)
A Total of 0 Warning Message(s)
A Total of 113 Informational Message(s)

A Total of 17520 Hours Were Processed

A Total of 0 Calm Hours Identified

A Total of 113 Missing Hours Identified ( 0.64 Percent)

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

***** WARNING MESSAGES *****
*** NONE ***

*****
*** AERMOD Finishes Successfully ***
*****

```

Floating Cover NO2 Unmitigated

```
**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 6.7.1
** Lakes Environmental Software Inc.
** Date: 11/23/2010
** File: C:\Documents and Settings\jbailey\Desktop\Elysian Park AerMod\elysian\Flt_NO2.ADI
**
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**
CO STARTING
  TITLEONE Elysian
  TITLETWO Floating NO2
  MODELOPT DFAULT CONC NODRYDPLT NOWETDPLT
  AVERTIME 1
  URBANOPT 9862049 LA
  POLLUTID NOX
  RUNORNOT RUN
CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
  LOCATION PAREA3 AREAPOLY 386606.494 3771295.572 139.670
** DESCRSRC Reservoir
  LOCATION PAREA4 AREAPOLY 386598.189 3772118.131 96.350
** DESCRSRC Caltrans
** Source Parameters **
  SRCPARAM PAREA3 6.141E-06 5.000 18
  AREAVERT PAREA3 386606.494 3771295.572 386560.430 3771386.706
  AREAVERT PAREA3 386502.641 3771467.538 386454.064 3771523.011
  AREAVERT PAREA3 386432.288 3771547.577 386455.739 3771575.313
  AREAVERT PAREA3 386485.890 3771583.238 386543.680 3771557.879
  AREAVERT PAREA3 386593.931 3771507.954 386619.057 3771483.387
  AREAVERT PAREA3 386650.046 3771442.179 386660.096 3771427.914
  AREAVERT PAREA3 386676.847 3771408.103 386688.572 3771388.291
  AREAVERT PAREA3 386676.847 3771361.347 386655.909 3771323.308
  AREAVERT PAREA3 386640.833 3771309.044 386614.032 3771295.572
  SRCPARAM PAREA4 0.0000213944 5.000 14
  AREAVERT PAREA4 386598.189 3772118.131 386582.499 3772090.138
  AREAVERT PAREA4 386633.724 3772053.797 386639.492 3772051.587
  AREAVERT PAREA4 386653.798 3772051.341 386669.719 3772039.800
  AREAVERT PAREA4 386684.025 3772011.316 386695.331 3771993.391
  AREAVERT PAREA4 386697.639 3771989.462 386718.867 3771999.775
  AREAVERT PAREA4 386698.331 3772048.886 386685.179 3772065.583
  AREAVERT PAREA4 386673.872 3772076.387 386653.567 3772089.647
  URBANSRC PAREA3
  URBANSRC PAREA4
  CONCUNIT 531.5 GRAMS/SEC PPM
  SRCGROUP SRCGP1 PAREA4 PAREA3
  SRCGROUP ALL
SO FINISHED
**
*****
** AERMOD Receptor Pathway
*****
**
**
RE STARTING
```

Floating Cover NO2 Unmitigated

```
INCLUDED Flt_NO2.rou
RE FINISHED
**
*****
** AERMOD Meteorology Pathway
*****
**
**
ME STARTING
SURFFILE "L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\cela.SFC"
PROFFILE "L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\cela.PFL"
SURFDATA 0 2006
UAIRDATA 3190 2006
PROFBASE 10 METERS
ME FINISHED
**
*****
** AERMOD Output Pathway
*****
**
**
OU STARTING
RECTABLE ALLAVE 1ST
RECTABLE 1 1ST
** Auto-Generated Plotfiles
PLOTFILE 1 ALL 1ST FLT_NO2.AD\01H1GALL.PLT
PLOTFILE 1 SRCGP1 1ST FLT_NO2.AD\01H1G001.PLT
OU FINISHED

*****
*** SETUP Finishes Successfully ***
*****

*** AERMOD - VERSION 09292 ***      *** Elysian
***      11/23/10
***                               *** Floating NO2
***      10:52:58

PAGE      1
**MODELOPTs:  RegDFault CONC
                                           ELEV
                                           NODRYDPLT NOWETDPLT

***      MODEL SETUP OPTIONS SUMMARY      ***
-----
**Model Is Setup For Calculation of Average CONCentration Values.

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

**Model Uses URBAN Dispersion Algorithm for the SBL for      2 Source(s),
for Total of      1 Urban Area(s):
Urban Population = 9862049.0 ; Urban Roughness Length = 1.000 m

**Model Uses Regulatory DEFAULT Options:
1. Stack-tip Downwash.
2. Model Accounts for ELEVated Terrain Effects.
3. Use Calms Processing Routine.
4. Use Missing Data Processing Routine.
5. No Exponential Decay for URBAN/Non-SO2.
6. Urban Roughness Length of 1.0 Meter Assumed.

**Model Assumes No FLAGPOLE Receptor Heights.

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

**This Run Includes:      2 Source(s);      2 Source Group(s); and      120 Receptor(s)
```

Floating Cover NO2 Unmitigated

**The Model Assumes A Pollutant Type of: NOX

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

**Output Options Selected:

Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
 Model Outputs External File(s) of High Values for Plotting (PLOTFILE 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) = 10.00 ; Decay Coef. = 0.000
 ; Rot. Angle = 0.0

Emission Units = GRAMS/SEC ; Emission Rate
 Unit Factor = 531.50
 Output Units = PPM

**Approximate Storage Requirements of Model = 3.5 MB of RAM.

*** AERMOD - VERSION 09292 *** *** Elysian
 *** 11/23/10
 *** Floating NO2
 *** 10:52:58

PAGE 2

**MODELOPTs: RegDFAULT CONC

ELEV
 NODRYDPLT NOWETDPLT

*** AREAPOLY SOURCE DATA ***

| URBAN SOURCE | EMISSION RATE | NUMBER | EMISSION RATE | LOCATION OF AREA | BASE | RELEASE | NUMBER | INIT. |
|---------------|---------------|--------|---------------|-------------------|----------|----------|-----------|----------|
| SOURCE SCALAR | PART. VARY | SCALAR | (USER UNITS) | X Y | ELEV. | HEIGHT | OF VERTS. | SZ |
| ID | CATS. | | /METER**2) | (METERS) (METERS) | (METERS) | (METERS) | | (METERS) |

| | | | | | | | | |
|------------|---|-------------|----------|-----------|-------|------|----|------|
| PAREA3 | 0 | 0.61410E-05 | 386606.5 | 3771295.6 | 139.7 | 5.00 | 18 | 0.00 |
| YES PAREA4 | 0 | 0.21394E-04 | 386598.2 | 3772118.1 | 96.3 | 5.00 | 14 | 0.00 |

YES
 *** AERMOD - VERSION 09292 *** *** Elysian
 *** 11/23/10
 *** Floating NO2
 *** 10:52:58

PAGE 3

**MODELOPTs: RegDFAULT CONC

ELEV
 NODRYDPLT NOWETDPLT

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID SOURCE IDs

SRCGP1 PAREA3 , PAREA4 ,

ALL PAREA3 , PAREA4 ,
 *** AERMOD - VERSION 09292 *** *** Elysian
 *** 11/23/10
 *** Floating NO2
 *** 10:52:58

Floating Cover NO2 Unmitigated

PAGE 4

**MODELOPTs: RegDFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

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

| | | | | |
|------------------------|--------|--------|-------|------------------------|
| (386476.8, 3771139.5, | 143.3, | 181.0, | 0.0); | (386470.4, 3771149.7, |
| 144.2, 181.0, 0.0); | | | | |
| (386460.2, 3771160.0, | 145.3, | 181.0, | 0.0); | (386449.3, 3771172.8, |
| 146.6, 181.0, 0.0); | | | | |
| (386440.3, 3771184.3, | 147.6, | 181.0, | 0.0); | (386434.5, 3771197.8, |
| 148.6, 181.0, 0.0); | | | | |
| (386405.0, 3771244.6, | 152.9, | 181.0, | 0.0); | (386409.5, 3771235.6, |
| 151.9, 181.0, 0.0); | | | | |
| (386416.6, 3771223.4, | 150.9, | 181.0, | 0.0); | (386421.1, 3771217.0, |
| 150.3, 181.0, 0.0); | | | | |
| (386426.2, 3771210.0, | 149.6, | 181.0, | 0.0); | (386274.3, 3771299.7, |
| 168.1, 181.0, 0.0); | | | | |
| (386278.8, 3771290.1, | 167.4, | 181.0, | 0.0); | (386287.8, 3771280.5, |
| 166.6, 181.0, 0.0); | | | | |
| (386296.1, 3771269.6, | 164.9, | 181.0, | 0.0); | (386303.1, 3771259.3, |
| 163.5, 181.0, 0.0); | | | | |
| (386340.3, 3771210.6, | 155.9, | 181.0, | 0.0); | (386331.3, 3771222.1, |
| 157.6, 181.0, 0.0); | | | | |
| (386323.0, 3771233.7, | 159.3, | 181.0, | 0.0); | (386312.8, 3771248.4, |
| 161.6, 181.0, 0.0); | | | | |
| (386415.3, 3771092.0, | 143.8, | 181.0, | 0.0); | (386380.0, 3771051.0, |
| 142.9, 164.0, 0.0); | | | | |
| (386392.2, 3771050.4, | 142.2, | 181.0, | 0.0); | (386374.3, 3771063.2, |
| 144.0, 164.0, 0.0); | | | | |
| (386402.5, 3771098.4, | 144.8, | 181.0, | 0.0); | (386419.8, 3771082.4, |
| 142.9, 181.0, 0.0); | | | | |
| (386163.4, 3771763.8, | 182.0, | 182.0, | 0.0); | (386081.3, 3771480.5, |
| 178.0, 178.0, 0.0); | | | | |
| (386103.8, 3771527.9, | 179.8, | 179.8, | 0.0); | (386120.4, 3771576.0, |
| 181.1, 181.1, 0.0); | | | | |
| (386135.8, 3771613.8, | 182.0, | 182.0, | 0.0); | (386146.7, 3771651.6, |
| 182.0, 182.0, 0.0); | | | | |
| (386156.3, 3771690.8, | 182.0, | 182.0, | 0.0); | (386164.7, 3771730.5, |
| 182.0, 182.0, 0.0); | | | | |
| (386716.6, 3772090.1, | 93.4, | 182.0, | 0.0); | (386705.7, 3772082.4, |
| 93.0, 182.0, 0.0); | | | | |
| (386714.7, 3772074.7, | 93.3, | 182.0, | 0.0); | (386723.0, 3772061.9, |
| 93.7, 182.0, 0.0); | | | | |
| (386732.0, 3772036.9, | 94.0, | 182.0, | 0.0); | (386728.1, 3772051.0, |
| 93.9, 182.0, 0.0); | | | | |
| (386737.1, 3772022.1, | 94.2, | 182.0, | 0.0); | (386699.3, 3772099.1, |
| 92.7, 182.0, 0.0); | | | | |
| (386690.3, 3772107.4, | 92.4, | 182.0, | 0.0); | (386682.6, 3772113.8, |
| 92.1, 182.0, 0.0); | | | | |
| (386674.3, 3772123.4, | 92.3, | 182.0, | 0.0); | (386664.7, 3772134.3, |
| 92.8, 182.0, 0.0); | | | | |
| (386654.4, 3772145.2, | 93.1, | 182.0, | 0.0); | (386605.7, 3772127.3, |
| 95.6, 182.0, 0.0); | | | | |
| (386591.0, 3772133.7, | 96.5, | 182.0, | 0.0); | (386579.4, 3772139.5, |
| 97.2, 182.0, 0.0); | | | | |
| (386560.2, 3772147.2, | 98.4, | 182.0, | 0.0); | (386545.4, 3772154.8, |
| 99.0, 182.0, 0.0); | | | | |
| (386533.3, 3772162.5, | 99.5, | 182.0, | 0.0); | (386542.9, 3772179.8, |
| 98.2, 182.0, 0.0); | | | | |
| (386553.1, 3772195.9, | 96.9, | 182.0, | 0.0); | (386568.5, 3772208.7, |
| 95.5, 182.0, 0.0); | | | | |
| (386582.0, 3772192.7, | 95.3, | 182.0, | 0.0); | (386595.4, 3772181.1, |
| 94.8, 182.0, 0.0); | | | | |
| (386609.5, 3772168.9, | 94.5, | 182.0, | 0.0); | (386624.3, 3772152.3, |
| 94.3, 182.0, 0.0); | | | | |
| (386619.2, 3772140.1, | 94.7, | 182.0, | 0.0); | (386640.3, 3772163.8, |
| 93.5, 182.0, 0.0); | | | | |

Floating Cover NO2 Unmitigated

| | | | | |
|--------------------------------|------------------|--------|-------|------------------------|
| (386653.8, 3772174.7, | 93.0, | 182.0, | 0.0); | (386666.0, 3772186.3, |
| 92.7, 182.0, 0.0); | | | | |
| (386677.5, 3772197.8, | 92.5, | 182.0, | 0.0); | (386688.4, 3772208.7, |
| 92.8, 182.0, 0.0); | | | | |
| (386701.2, 3772222.2, | 93.5, | 182.0, | 0.0); | (386448.6, 3772217.7, |
| 102.7, 182.0, 0.0); | | | | |
| (386456.3, 3772212.5, | 102.4, | 182.0, | 0.0); | (386465.3, 3772206.1, |
| 102.1, 182.0, 0.0); | | | | |
| (386474.3, 3772200.4, | 101.8, | 182.0, | 0.0); | (386481.3, 3772194.6, |
| 101.5, 182.0, 0.0); | | | | |
| (386489.0, 3772190.1, | 101.2, | 182.0, | 0.0); | (386499.3, 3772183.1, |
| 100.9, 182.0, 0.0); | | | | |
| (386507.6, 3772177.9, | 100.5, | 182.0, | 0.0); | (386514.7, 3772171.5, |
| 100.3, 182.0, 0.0); | | | | |
| (386576.8, 3772219.6, | 94.6, | 182.0, | 0.0); | (386586.5, 3772209.3, |
| 94.4, 182.0, 0.0); | | | | |
| (386597.4, 3772197.8, | 94.2, | 182.0, | 0.0); | (386607.0, 3772187.5, |
| 94.0, 182.0, 0.0); | | | | |
| (386620.4, 3772178.6, | 93.9, | 182.0, | 0.0); | (386742.9, 3772003.6, |
| 94.5, 182.0, 0.0); | | | | |
| (386386.3, 3771087.3, | 144.9, | 181.0, | 0.0); | (386399.3, 3771081.5, |
| 143.9, 181.0, 0.0); | | | | |
| (386409.4, 3771067.1, | 142.4, | 181.0, | 0.0); | (385296.8, 3773132.0, |
| 117.7, 182.0, 0.0); | | | | |
| (385287.9, 3773147.0, | 117.7, | 182.0, | 0.0); | (385283.5, 3773159.4, |
| 117.2, 182.0, 0.0); | | | | |
| (385576.7, 3773089.5, | 103.9, | 182.0, | 0.0); | (385598.0, 3773060.2, |
| 104.0, 182.0, 0.0); | | | | |
| *** AERMOD - VERSION 09292 *** | *** Elysian | | | |
| *** 11/23/10 | *** Floating NO2 | | | |
| *** 10:52:58 | | | | |

PAGE 5

**MODELOPTs: RegDFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

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

| | | | | |
|------------------------|--------|--------|-------|------------------------|
| (385609.5, 3773037.2, | 104.5, | 182.0, | 0.0); | (385629.8, 3772997.4, |
| 105.3, 182.0, 0.0); | | | | |
| (385654.6, 3772953.1, | 106.0, | 182.0, | 0.0); | (385706.0, 3772876.9, |
| 106.7, 182.0, 0.0); | | | | |
| (385752.1, 3772808.7, | 107.3, | 182.0, | 0.0); | (385816.7, 3772724.5, |
| 108.9, 182.0, 0.0); | | | | |
| (385886.7, 3772645.7, | 110.4, | 182.0, | 0.0); | (385952.3, 3772579.3, |
| 111.3, 182.0, 0.0); | | | | |
| (386020.5, 3772519.0, | 111.7, | 182.0, | 0.0); | (386094.0, 3772463.2, |
| 111.1, 182.0, 0.0); | | | | |
| (386169.3, 3772411.0, | 110.4, | 182.0, | 0.0); | (386248.1, 3772359.6, |
| 108.8, 182.0, 0.0); | | | | |
| (386328.7, 3772309.1, | 105.9, | 182.0, | 0.0); | (386407.5, 3772253.3, |
| 103.3, 182.0, 0.0); | | | | |
| (387116.3, 3772187.4, | 108.2, | 182.0, | 0.0); | (387141.0, 3772141.5, |
| 108.9, 108.9, 0.0); | | | | |
| (387201.0, 3772180.3, | 110.6, | 182.0, | 0.0); | (387155.1, 3772229.8, |
| 110.0, 182.0, 0.0); | | | | |
| (386943.3, 3772540.4, | 102.9, | 243.0, | 0.0); | (386925.6, 3772582.8, |
| 102.9, 243.0, 0.0); | | | | |
| (386526.7, 3770944.7, | 129.0, | 131.0, | 0.0); | (386466.7, 3770937.6, |
| 131.1, 131.1, 0.0); | | | | |
| (386537.3, 3770884.7, | 123.8, | 123.8, | 0.0); | (386480.8, 3770881.1, |
| 125.8, 125.8, 0.0); | | | | |
| (387374.0, 3771597.8, | 112.1, | 112.1, | 0.0); | (384880.2, 3771187.7, |
| 166.9, 166.9, 0.0); | | | | |
| (384901.5, 3771161.1, | 167.0, | 167.0, | 0.0); | (384909.4, 3771118.6, |
| 165.9, 165.9, 0.0); | | | | |
| (384912.1, 3771078.8, | 164.8, | 164.8, | 0.0); | (384920.0, 3771052.2, |
| 164.2, 164.2, 0.0); | | | | |

Floating Cover NO2 Unmitigated

| | | | | | | | | | | | | | | | |
|------|------|-------|---|------|-------|-------|--------|--------|-------|-------|---------|------|------|------|------|
| 06 | 01 | 01 | 1 | 04 | -1.9 | 0.069 | -9.000 | -9.000 | -999. | 41. | 15.2 | 0.65 | 1.00 | 1.00 | 1.20 |
| 23. | 21.3 | 285.9 | | 17.7 | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 05 | -3.5 | 0.080 | -9.000 | -9.000 | -999. | 52. | 13.1 | 0.65 | 1.00 | 1.00 | 1.40 |
| 61. | 21.3 | 285.4 | | 17.7 | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 06 | -3.0 | 0.086 | -9.000 | -9.000 | -999. | 58. | 19.0 | 0.65 | 1.00 | 1.00 | 1.50 |
| 83. | 21.3 | 285.4 | | 17.7 | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 07 | -6.1 | 0.103 | -9.000 | -9.000 | -999. | 76. | 16.2 | 0.65 | 1.00 | 1.00 | 1.80 |
| 64. | 21.3 | 285.4 | | 17.7 | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 08 | -3.3 | 0.080 | -9.000 | -9.000 | -999. | 52. | 14.1 | 0.65 | 1.00 | 0.55 | 1.40 |
| 46. | 21.3 | 285.4 | | 17.7 | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 09 | 26.6 | 0.304 | 0.644 | 0.005 | 362. | 385. | -95.4 | 0.65 | 1.00 | 0.32 | 2.30 |
| 87. | 21.3 | 286.4 | | 17.7 | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 10 | 21.0 | 0.227 | 0.732 | 0.005 | 675. | 250. | -50.2 | 0.65 | 1.00 | 0.24 | 1.60 |
| 76. | 21.3 | 286.4 | | 17.7 | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 11 | 35.8 | 0.197 | 0.912 | 0.005 | 766. | 201. | -19.2 | 0.65 | 1.00 | 0.21 | 1.20 |
| 66. | 21.3 | 287.5 | | 17.7 | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 12 | 14.9 | 0.281 | 0.686 | 0.005 | 785. | 343. | -135.5 | 0.65 | 1.00 | 0.20 | 2.20 |
| 79. | 21.3 | 287.5 | | 17.7 | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 13 | 26.4 | 0.376 | 0.842 | 0.009 | 818. | 530. | -181.6 | 0.65 | 1.00 | 0.20 | 3.00 |
| 76. | 21.3 | 287.5 | | 17.7 | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 14 | 39.0 | 0.385 | 0.979 | 0.014 | 867. | 549. | -131.8 | 0.65 | 1.00 | 0.21 | 3.00 |
| 80. | 21.3 | 288.1 | | 17.7 | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 15 | 11.4 | 0.277 | 0.653 | 0.014 | 881. | 341. | -168.4 | 0.65 | 1.00 | 0.25 | 2.20 |
| 86. | 21.3 | 287.5 | | 17.7 | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 16 | 0.1 | 0.343 | 0.135 | 0.014 | 881. | 462. | -8888.0 | 0.65 | 1.00 | 0.33 | 3.00 |
| 75. | 21.3 | 287.0 | | 17.7 | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 17 | -13.7 | 0.266 | -9.000 | -9.000 | -999. | 319. | 125.0 | 0.65 | 1.00 | 0.60 | 2.90 |
| 82. | 21.3 | 286.4 | | 17.7 | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 18 | -10.2 | 0.183 | -9.000 | -9.000 | -999. | 183. | 54.5 | 0.65 | 1.00 | 1.00 | 2.50 |
| 101. | 21.3 | 286.4 | | 17.7 | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 19 | -16.1 | 0.289 | -9.000 | -9.000 | -999. | 358. | 135.6 | 0.65 | 1.00 | 1.00 | 3.10 |
| 97. | 21.3 | 285.9 | | 17.7 | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 20 | -25.2 | 0.450 | -9.000 | -9.000 | -999. | 693. | 326.1 | 0.65 | 1.00 | 1.00 | 4.30 |
| 92. | 21.3 | 284.9 | | 17.7 | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 21 | -27.3 | 0.487 | -9.000 | -9.000 | -999. | 781. | 381.9 | 0.65 | 1.00 | 1.00 | 4.60 |
| 88. | 21.3 | 284.2 | | 17.7 | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 22 | -28.0 | 0.499 | -9.000 | -9.000 | -999. | 812. | 402.5 | 0.65 | 1.00 | 1.00 | 4.70 |
| 91. | 21.3 | 284.9 | | 17.7 | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 23 | -36.1 | 0.645 | -9.000 | -9.000 | -999. | 1191. | 673.0 | 0.65 | 1.00 | 1.00 | 5.90 |
| 82. | 21.3 | 285.4 | | 17.7 | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 24 | -35.3 | 0.633 | -9.000 | -9.000 | -999. | 1160. | 649.7 | 0.65 | 1.00 | 1.00 | 5.80 |
| 84. | 21.3 | 285.9 | | 17.7 | | | | | | | | | | | |

First hour of profile data

| YR | MO | DY | HR | HEIGHT | F | WDIR | WSPD | AMB_TMP | sigmaA | sigmaW | sigmaV |
|----|----|----|----|--------|---|-------|--------|---------|--------|--------|--------|
| 06 | 01 | 01 | 01 | 17.7 | 0 | -999. | -99.00 | 286.5 | 99.0 | -99.00 | -99.00 |
| 06 | 01 | 01 | 01 | 21.3 | 1 | 347. | 0.70 | -999.0 | 99.0 | -99.00 | -99.00 |

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

*** AERMOD - VERSION 09292 *** *** Elysian
 *** 11/23/10 *** Floating NO2
 *** 10:52:58

PAGE 8

**MODELOPTs: RegDFAULT CONC

ELEV
 NODRYDPLT NOWETDPLT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: SRCGP1 ***
 INCLUDING SOURCE(S): PAREA3 , PAREA4 ,
 *** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF NOX IN PPM

X-COORD (M) Y-COORD (M) CONC (YYMMDDHH) X-COORD (M) Y-COORD (M)
 CONC (YYMMDDHH)

Floating Cover NO2 Unmitigated

| | | | | | | |
|---------|-------------------------|------------|---------|------------|-----------|------------|
| 0.02262 | 386476.85 (06110221) | 3771139.46 | 0.02297 | (06110221) | 386470.44 | 3771149.72 |
| 0.02107 | 386460.18 (07082906) | 3771159.97 | 0.02183 | (06110221) | 386449.29 | 3771172.79 |
| 0.01995 | 386440.31 (07082906) | 3771184.33 | 0.02041 | (07082906) | 386434.54 | 3771197.79 |
| 0.01744 | 386405.05 (06091823) | 3771244.59 | 0.01723 | (07110406) | 386409.54 | 3771235.61 |
| 0.01854 | 386416.59 (07082906) | 3771223.43 | 0.01804 | (06091823) | 386421.08 | 3771217.02 |
| 0.01022 | 386426.21 (07120322) | 3771209.97 | 0.01913 | (07082906) | 386274.28 | 3771299.72 |
| 0.01080 | 386278.77 (07110406) | 3771290.10 | 0.01043 | (07110406) | 386287.75 | 3771280.49 |
| 0.01179 | 386296.08 (07110406) | 3771269.59 | 0.01132 | (07110406) | 386303.13 | 3771259.33 |
| 0.01365 | 386340.31 (07110406) | 3771210.61 | 0.01411 | (07110406) | 386331.34 | 3771222.15 |
| 0.01241 | 386323.00 (07110406) | 3771233.69 | 0.01312 | (07110406) | 386312.75 | 3771248.43 |
| 0.01585 | 386415.31 (06091823) | 3771092.02 | 0.01811 | (07082906) | 386380.05 | 3771051.00 |
| 0.01567 | 386392.23 (06091823) | 3771050.36 | 0.01647 | (07082906) | 386374.29 | 3771063.18 |
| 0.01834 | 386402.49 (07082906) | 3771098.43 | 0.01726 | (07082906) | 386419.80 | 3771082.41 |
| 0.00924 | 386163.39 (07050824) | 3771763.82 | 0.01034 | (07061204) | 386081.33 | 3771480.49 |
| 0.01053 | 386103.77 (06083124) | 3771527.92 | 0.00896 | (07050824) | 386120.44 | 3771576.00 |
| 0.01159 | 386135.82 (06030702) | 3771613.82 | 0.01074 | (06083124) | 386146.72 | 3771651.64 |
| 0.01033 | 386156.33 (07061204) | 3771690.75 | 0.01147 | (06030702) | 386164.67 | 3771730.49 |
| 0.06755 | 386716.60 (07071406) | 3772090.11 | 0.05991 | (07063006) | 386705.70 | 3772082.42 |
| 0.07342 | 386714.67 (07071406) | 3772074.72 | 0.07221 | (07071406) | 386723.00 | 3772061.90 |
| 0.08650 | 386731.99 (07030522) | 3772036.90 | 0.09149 | (07030522) | 386728.13 | 3772051.01 |
| 0.05714 | 386737.11 (07063006) | 3772022.15 | 0.08839 | (06111820) | 386699.29 | 3772099.08 |
| 0.05622 | 386690.31 (07020104) | 3772107.42 | 0.05520 | (07020104) | 386682.62 | 3772113.83 |
| 0.05667 | 386674.29 (07020103) | 3772123.44 | 0.05636 | (07020103) | 386664.67 | 3772134.34 |
| 0.09044 | 386654.42 (07070805) | 3772145.24 | 0.05697 | (07020103) | 386605.70 | 3772127.29 |
| 0.09713 | 386590.95 (06122919) | 3772133.70 | 0.09917 | (06122919) | 386579.42 | 3772139.47 |
| 0.06339 | 386560.18 (06122919) | 3772147.16 | 0.07969 | (06122919) | 386545.44 | 3772154.85 |
| 0.05904 | 386533.26 (06122919) | 3772162.54 | 0.05253 | (06122919) | 386542.88 | 3772179.85 |
| 0.04811 | 386553.13 (07121620) | 3772195.88 | 0.04769 | (07121620) | 386568.52 | 3772208.70 |
| 0.05369 | 386581.98 (07121620) | 3772192.67 | 0.05307 | (07121620) | 386595.44 | 3772181.13 |
| 0.06076 | 386609.54 (07020103) | 3772168.95 | 0.05540 | (07111522) | 386624.29 | 3772152.29 |
| 0.05571 | 386619.16 (07020103) | 3772140.11 | 0.06979 | (07081406) | 386640.31 | 3772163.83 |
| 0.04697 | 386653.77 (07020104) | 3772174.72 | 0.05107 | (07020103) | 386665.95 | 3772186.26 |
| 0.04038 | 386677.49 (07082624) | 3772197.80 | 0.04277 | (07020104) | 386688.39 | 3772208.70 |
| 0.02428 | 386701.21 (07061204) | 3772222.16 | 0.03800 | (07082624) | 386448.64 | 3772217.67 |

Floating Cover NO2 Unmitigated

| | | | | | | |
|---------|-------------------------|------------|---------|------------|-----------|------------|
| 0.02714 | 386456.34 (07061204) | 3772212.55 | 0.02550 | (07061204) | 386465.31 | 3772206.13 |
| 0.03060 | 386474.29 (07061204) | 3772200.37 | 0.02886 | (07061204) | 386481.34 | 3772194.60 |
| 0.03408 | 386489.03 (07061204) | 3772190.11 | 0.03119 | (07061204) | 386499.29 | 3772183.06 |
| 0.03971 | 386507.62 (07061204) | 3772177.93 | 0.03661 | (07041701) | 386514.67 | 3772171.52 |
| 0.04159 | 386576.85 (07121620) | 3772219.60 | 0.04089 | (07121620) | 386586.47 | 3772209.34 |
| 0.04746 | 386597.36 (07111522) | 3772197.80 | 0.04371 | (07081406) | 386606.98 | 3772187.54 |

*** AERMOD - VERSION 09292 *** *** Elysian
 *** 11/23/10 *** Floating NO2
 *** 10:52:58

PAGE 9

**MODELOPTs: RegDFAULT CONC

ELEV
 NODRYDPLT NOWETDPLT

SOURCE GROUP: SRCGP1 *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 INCLUDING SOURCE(S): PAREA3 , PAREA4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

| | | ** CONC OF NOX | | IN PPM | | |
|---------|---------------------------|----------------|---------|------------|-------------|-------------|
| CONC | X-COORD (M) (YYMMDDHH) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) |
| 0.09082 | 386620.44 (06110320) | 3772178.57 | 0.05164 | (07020103) | 386742.87 | 3772003.56 |
| 0.01699 | 386386.30 (07082906) | 3771087.29 | 0.01631 | (06091823) | 386399.28 | 3771081.52 |
| 0.00214 | 386409.38 (07060324) | 3771067.10 | 0.01761 | (07082906) | 385296.78 | 3773131.99 |
| 0.00212 | 385287.93 (07101501) | 3773147.05 | 0.00213 | (07101501) | 385283.50 | 3773159.45 |
| 0.00279 | 385576.69 (07121620) | 3773089.48 | 0.00271 | (07121620) | 385597.95 | 3773060.25 |
| 0.00291 | 385609.46 (07121620) | 3773037.22 | 0.00283 | (07121620) | 385629.84 | 3772997.36 |
| 0.00327 | 385654.64 (07121620) | 3772953.07 | 0.00301 | (07121620) | 385706.01 | 3772876.89 |
| 0.00399 | 385752.07 (07121620) | 3772808.69 | 0.00353 | (07121620) | 385816.74 | 3772724.54 |
| 0.00495 | 385886.71 (07121620) | 3772645.70 | 0.00452 | (07121620) | 385952.26 | 3772579.27 |
| 0.00667 | 386020.46 (07061204) | 3772519.04 | 0.00567 | (07061204) | 386093.98 | 3772463.23 |
| 0.01002 | 386169.27 (07061204) | 3772410.97 | 0.00803 | (07061204) | 386248.11 | 3772359.60 |
| 0.01853 | 386328.71 (07061204) | 3772309.11 | 0.01305 | (07061204) | 386407.55 | 3772253.30 |
| 0.01338 | 387116.28 (06062804) | 3772187.40 | 0.01339 | (07070102) | 387141.00 | 3772141.51 |
| 0.01132 | 387201.01 (07070102) | 3772180.34 | 0.01037 | (06062804) | 387155.12 | 3772229.77 |
| 0.01202 | 386943.29 (07010320) | 3772540.45 | 0.01167 | (07010320) | 386925.64 | 3772582.82 |
| 0.01667 | 386526.69 (06090305) | 3770944.68 | 0.01938 | (06090305) | 386466.67 | 3770937.61 |
| 0.01640 | 386537.28 (06090305) | 3770884.66 | 0.01659 | (06090305) | 386480.80 | 3770881.13 |
| 0.00385 | 387374.01 (07032307) | 3771597.81 | 0.00722 | (07070124) | 384880.19 | 3771187.72 |

Floating Cover NO2 Unmitigated

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384901.45  3771161.15      0.00372 (07081506)      384909.41  3771118.65
0.00400 (07081506)
384912.07  3771078.80      0.00400 (07081506)      384920.04  3771052.24
0.00388 (07081506)
*** AERMOD - VERSION 09292 ***   *** Elysian
***      11/23/10
***
***      10:52:58

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PAGE 10

**MODELOPTs: RegDFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

SOURCE GROUP: ALL *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
INCLUDING SOURCE(S): PAREA3 , PAREA4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

| | | ** CONC OF NOX | | IN PPM | |
|---------|---------------------------|----------------|---------|------------|----------------------------|
| CONC | X-COORD (M) (YYMMDDHH) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) Y-COORD (M) |
| 0.02262 | 386476.85 (06110221) | 3771139.46 | 0.02297 | (06110221) | 386470.44 3771149.72 |
| 0.02107 | 386460.18 (07082906) | 3771159.97 | 0.02183 | (06110221) | 386449.29 3771172.79 |
| 0.01995 | 386440.31 (07082906) | 3771184.33 | 0.02041 | (07082906) | 386434.54 3771197.79 |
| 0.01744 | 386405.05 (06091823) | 3771244.59 | 0.01723 | (07110406) | 386409.54 3771235.61 |
| 0.01854 | 386416.59 (07082906) | 3771223.43 | 0.01804 | (06091823) | 386421.08 3771217.02 |
| 0.01022 | 386426.21 (07120322) | 3771209.97 | 0.01913 | (07082906) | 386274.28 3771299.72 |
| 0.01080 | 386278.77 (07110406) | 3771290.10 | 0.01043 | (07110406) | 386287.75 3771280.49 |
| 0.01179 | 386296.08 (07110406) | 3771269.59 | 0.01132 | (07110406) | 386303.13 3771259.33 |
| 0.01365 | 386340.31 (07110406) | 3771210.61 | 0.01411 | (07110406) | 386331.34 3771222.15 |
| 0.01241 | 386323.00 (07110406) | 3771233.69 | 0.01312 | (07110406) | 386312.75 3771248.43 |
| 0.01585 | 386415.31 (06091823) | 3771092.02 | 0.01811 | (07082906) | 386380.05 3771051.00 |
| 0.01567 | 386392.23 (06091823) | 3771050.36 | 0.01647 | (07082906) | 386374.29 3771063.18 |
| 0.01834 | 386402.49 (07082906) | 3771098.43 | 0.01726 | (07082906) | 386419.80 3771082.41 |
| 0.00924 | 386163.39 (07050824) | 3771763.82 | 0.01034 | (07061204) | 386081.33 3771480.49 |
| 0.01053 | 386103.77 (06083124) | 3771527.92 | 0.00896 | (07050824) | 386120.44 3771576.00 |
| 0.01159 | 386135.82 (06030702) | 3771613.82 | 0.01074 | (06083124) | 386146.72 3771651.64 |
| 0.01033 | 386156.33 (07061204) | 3771690.75 | 0.01147 | (06030702) | 386164.67 3771730.49 |
| 0.06755 | 386716.60 (07071406) | 3772090.11 | 0.05991 | (07063006) | 386705.70 3772082.42 |
| 0.07342 | 386714.67 (07071406) | 3772074.72 | 0.07221 | (07071406) | 386723.00 3772061.90 |
| 0.08650 | 386731.99 (07030522) | 3772036.90 | 0.09149 | (07030522) | 386728.13 3772051.01 |
| 0.05714 | 386737.11 (07063006) | 3772022.15 | 0.08839 | (06111820) | 386699.29 3772099.08 |
| 0.05622 | 386690.31 (07020104) | 3772107.42 | 0.05520 | (07020104) | 386682.62 3772113.83 |

Floating Cover NO2 Unmitigated

| | | | | | | |
|--------------------------------|-------------------------|------------|------------------|------------|-----------|------------|
| 0.05667 | 386674.29 (07020103) | 3772123.44 | 0.05636 | (07020103) | 386664.67 | 3772134.34 |
| 0.09044 | 386654.42 (07070805) | 3772145.24 | 0.05697 | (07020103) | 386605.70 | 3772127.29 |
| 0.09713 | 386590.95 (06122919) | 3772133.70 | 0.09917 | (06122919) | 386579.42 | 3772139.47 |
| 0.06339 | 386560.18 (06122919) | 3772147.16 | 0.07969 | (06122919) | 386545.44 | 3772154.85 |
| 0.05904 | 386533.26 (06122919) | 3772162.54 | 0.05253 | (06122919) | 386542.88 | 3772179.85 |
| 0.04811 | 386553.13 (07121620) | 3772195.88 | 0.04769 | (07121620) | 386568.52 | 3772208.70 |
| 0.05369 | 386581.98 (07121620) | 3772192.67 | 0.05307 | (07121620) | 386595.44 | 3772181.13 |
| 0.06076 | 386609.54 (07020103) | 3772168.95 | 0.05540 | (07111522) | 386624.29 | 3772152.29 |
| 0.05571 | 386619.16 (07020103) | 3772140.11 | 0.06979 | (07081406) | 386640.31 | 3772163.83 |
| 0.04697 | 386653.77 (07020104) | 3772174.72 | 0.05107 | (07020103) | 386665.95 | 3772186.26 |
| 0.04038 | 386677.49 (07082624) | 3772197.80 | 0.04277 | (07020104) | 386688.39 | 3772208.70 |
| 0.02428 | 386701.21 (07061204) | 3772222.16 | 0.03800 | (07082624) | 386448.64 | 3772217.67 |
| 0.02714 | 386456.34 (07061204) | 3772212.55 | 0.02550 | (07061204) | 386465.31 | 3772206.13 |
| 0.03060 | 386474.29 (07061204) | 3772200.37 | 0.02886 | (07061204) | 386481.34 | 3772194.60 |
| 0.03408 | 386489.03 (07061204) | 3772190.11 | 0.03119 | (07061204) | 386499.29 | 3772183.06 |
| 0.03971 | 386507.62 (07061204) | 3772177.93 | 0.03661 | (07041701) | 386514.67 | 3772171.52 |
| 0.04159 | 386576.85 (07121620) | 3772219.60 | 0.04089 | (07121620) | 386586.47 | 3772209.34 |
| 0.04746 | 386597.36 (07111522) | 3772197.80 | 0.04371 | (07081406) | 386606.98 | 3772187.54 |
| *** AERMOD - VERSION 09292 *** | | | *** Elysian | | | |
| *** 11/23/10 | | | *** Floating NO2 | | | |
| *** 10:52:58 | | | | | | |

PAGE 11

**MODELOPTs: RegDFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

SOURCE GROUP: ALL *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
INCLUDING SOURCE(S): PAREA3 , PAREA4 ,
*** DISCRETE CARTESIAN RECEPTOR POINTS ***

| | | ** CONC OF NOX | | IN PPM | |
|---------|---------------------------|----------------|---------|------------|----------------------------|
| CONC | X-COORD (M) (YYMMDDHH) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) Y-COORD (M) |
| 0.09082 | 386620.44 (06110320) | 3772178.57 | 0.05164 | (07020103) | 386742.87 3772003.56 |
| 0.01699 | 386386.30 (07082906) | 3771087.29 | 0.01631 | (06091823) | 386399.28 3771081.52 |
| 0.00214 | 386409.38 (07060324) | 3771067.10 | 0.01761 | (07082906) | 385296.78 3773131.99 |
| 0.00212 | 385287.93 (07101501) | 3773147.05 | 0.00213 | (07101501) | 385283.50 3773159.45 |
| 0.00279 | 385576.69 (07121620) | 3773089.48 | 0.00271 | (07121620) | 385597.95 3773060.25 |
| 0.00291 | 385609.46 (07121620) | 3773037.22 | 0.00283 | (07121620) | 385629.84 3772997.36 |

Floating Cover NO2 Unmitigated

| | | | | | | |
|---------|-------------------------|------------|---------|------------|-----------|------------|
| 0.00327 | 385654.64 (07121620) | 3772953.07 | 0.00301 | (07121620) | 385706.01 | 3772876.89 |
| 0.00399 | 385752.07 (07121620) | 3772808.69 | 0.00353 | (07121620) | 385816.74 | 3772724.54 |
| 0.00495 | 385886.71 (07121620) | 3772645.70 | 0.00452 | (07121620) | 385952.26 | 3772579.27 |
| 0.00667 | 386020.46 (07061204) | 3772519.04 | 0.00567 | (07061204) | 386093.98 | 3772463.23 |
| 0.01002 | 386169.27 (07061204) | 3772410.97 | 0.00803 | (07061204) | 386248.11 | 3772359.60 |
| 0.01853 | 386328.71 (07061204) | 3772309.11 | 0.01305 | (07061204) | 386407.55 | 3772253.30 |
| 0.01338 | 387116.28 (06062804) | 3772187.40 | 0.01339 | (07070102) | 387141.00 | 3772141.51 |
| 0.01132 | 387201.01 (07070102) | 3772180.34 | 0.01037 | (06062804) | 387155.12 | 3772229.77 |
| 0.01202 | 386943.29 (07010320) | 3772540.45 | 0.01167 | (07010320) | 386925.64 | 3772582.82 |
| 0.01667 | 386526.69 (06090305) | 3770944.68 | 0.01938 | (06090305) | 386466.67 | 3770937.61 |
| 0.01640 | 386537.28 (06090305) | 3770884.66 | 0.01659 | (06090305) | 386480.80 | 3770881.13 |
| 0.00385 | 387374.01 (07032307) | 3771597.81 | 0.00722 | (07070124) | 384880.19 | 3771187.72 |
| 0.00400 | 384901.45 (07081506) | 3771161.15 | 0.00372 | (07081506) | 384909.41 | 3771118.65 |
| 0.00388 | 384912.07 (07081506) | 3771078.80 | 0.00400 | (07081506) | 384920.04 | 3771052.24 |

*** AERMOD - VERSION 09292 *** *** Elysian
 *** 11/23/10
 *** 10:52:58 *** Floating NO2

PAGE 12

**MODELOPTs: RegDFAULT CONC

ELEV
 NODRYDPLT NOWETDPLT

*** THE SUMMARY OF HIGHEST 1-HR RESULTS ***

** CONC OF NOX IN PPM

**

| NETWORK | GROUP ID | ZELEV, ZHILL, ZFLAG) | OF TYPE | AVERAGE CONC | DATE | RECEPTOR | (XR, YR, |
|---------|----------|----------------------|---------|--------------|--------------|-----------------|-------------|
| | | | | GRID-ID | (YYMMDDHH) | | |
| SRCGP1 | HIGH | 1ST HIGH VALUE IS | | 0.09917 | ON 06122919: | AT (386590.95, | 3772133.70, |
| 96.54, | 182.00, | 0.00) DC | | | | | |
| ALL | HIGH | 1ST HIGH VALUE IS | | 0.09917 | ON 06122919: | AT (386590.95, | 3772133.70, |
| 96.54, | 182.00, | 0.00) DC | | | | | |

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

*** AERMOD - VERSION 09292 *** *** Elysian
 *** 11/23/10
 *** 10:52:58 *** Floating NO2

PAGE 13

**MODELOPTs: RegDFAULT CONC

ELEV
 NODRYDPLT NOWETDPLT

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

Floating Cover NO2 Unmitigated

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

A Total of 0 Fatal Error Message(s)
A Total of 0 Warning Message(s)
A Total of 113 Informational Message(s)

A Total of 17520 Hours Were Processed

A Total of 0 Calm Hours Identified

A Total of 113 Missing Hours Identified (0.64 Percent)

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

***** WARNING MESSAGES *****
*** NONE ***

*** AERMOD Finishes Successfully ***

Floating Cover CO Unmitigated

```
**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 6.7.1
** Lakes Environmental Software Inc.
** Date: 11/23/2010
** File: C:\Documents and Settings\jbailey\Desktop\Elysian Park AerMod\elysian\Flt_CO.ADI
**
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**
CO STARTING
  TITLEONE Elysian
  TITLETWO Floating CO
  MODELOPT DFAULT CONC NODRYDPLT NOWETDPLT
  AVERTIME 1 8
  URBANOPT 9862049 LA
  POLLUTID CO
  RUNORNOT RUN
CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
  LOCATION PAREA3 AREAPOLY 386606.494 3771295.572 139.670
** DESCRSRC Reservoir
  LOCATION PAREA4 AREAPOLY 386598.189 3772118.131 96.350
** DESCRSRC Caltrans
** Source Parameters **
  SRCPARAM PAREA3 0.00003092 5.000 18
  AREAVERT PAREA3 386606.494 3771295.572 386560.430 3771386.706
  AREAVERT PAREA3 386502.641 3771467.538 386454.064 3771523.011
  AREAVERT PAREA3 386432.288 3771547.577 386455.739 3771575.313
  AREAVERT PAREA3 386485.890 3771583.238 386543.680 3771557.879
  AREAVERT PAREA3 386593.931 3771507.954 386619.057 3771483.387
  AREAVERT PAREA3 386650.046 3771442.179 386660.096 3771427.914
  AREAVERT PAREA3 386676.847 3771408.103 386688.572 3771388.291
  AREAVERT PAREA3 386676.847 3771361.347 386655.909 3771323.308
  AREAVERT PAREA3 386640.833 3771309.044 386614.032 3771295.572
  SRCPARAM PAREA4 0.0001115 5.000 14
  AREAVERT PAREA4 386598.189 3772118.131 386582.499 3772090.138
  AREAVERT PAREA4 386633.724 3772053.797 386639.492 3772051.587
  AREAVERT PAREA4 386653.798 3772051.341 386669.719 3772039.800
  AREAVERT PAREA4 386684.025 3772011.316 386695.331 3771993.391
  AREAVERT PAREA4 386697.639 3771989.462 386718.867 3771999.775
  AREAVERT PAREA4 386698.331 3772048.886 386685.179 3772065.583
  AREAVERT PAREA4 386673.872 3772076.387 386653.567 3772089.647
  URBANSRC PAREA3
  URBANSRC PAREA4
  CONCUNIT 873.2 GRAMS/SEC PPM
  SRCGROUP SRCGP1 PAREA4 PAREA3
  SRCGROUP ALL
SO FINISHED
**
*****
** AERMOD Receptor Pathway
*****
**
**
RE STARTING
```

Floating Cover CO Unmitigated

```
INCLUDED Flt_CO.rou
RE FINISHED
**
*****
** AERMOD Meteorology Pathway
*****
**
**
ME STARTING
SURFFILE "L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\cela.SFC"
PROFFILE "L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\cela.PFL"
SURFDATA 0 2006
UAIRDATA 3190 2006
PROFBASE 10 METERS
ME FINISHED
**
*****
** AERMOD Output Pathway
*****
**
**
OU STARTING
RECTABLE ALLAVE 1ST
RECTABLE 1 1ST
RECTABLE 8 1ST
** Auto-Generated Plotfiles
PLOTFILE 1 ALL 1ST FLT_CO.AD\01H1GALL.PLT
PLOTFILE 8 ALL 1ST FLT_CO.AD\08H1GALL.PLT
PLOTFILE 1 SRCGP1 1ST FLT_CO.AD\01H1G001.PLT
PLOTFILE 8 SRCGP1 1ST FLT_CO.AD\08H1G001.PLT
OU FINISHED

*****
*** SETUP Finishes Successfully ***
*****

*** AERMOD - VERSION 09292 ***      *** Elysian
***      11/23/10
***                                     *** Floating CO
***      10:44:12

PAGE 1
**MODELOPTs:  RegDFault CONC                                ELEV
                                                         NODRYDPLT NOWETDPLT
***      MODEL SETUP OPTIONS SUMMARY      ***
-----
**Model Is Setup For Calculation of Average CONCentration Values.

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

**Model Uses URBAN Dispersion Algorithm for the SBL for      2 Source(s),
for Total of      1 Urban Area(s):
Urban Population =  9862049.0 ; Urban Roughness Length =  1.000 m

**Model Uses Regulatory DEFAULT Options:
1. Stack-tip Downwash.
2. Model Accounts for ELEVated Terrain Effects.
3. Use Calms Processing Routine.
4. Use Missing Data Processing Routine.
5. No Exponential Decay for URBAN/Non-SO2.
6. Urban Roughness Length of 1.0 Meter Assumed.

**Model Assumes No FLAGPOLE Receptor Heights.
```

Floating Cover CO Unmitigated

**Model Calculates 2 Short Term Average(s) of: 1-HR 8-HR
 **This Run Includes: 2 Source(s); 2 Source Group(s); and 120 Receptor(s)
 **The Model Assumes A Pollutant Type of: CO
 **Model Set To Continue RUNNING After the Setup Testing.

**Output Options Selected:
 Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
 Model Outputs External File(s) of High Values for Plotting (PLOTFILE 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) = 10.00 ; Decay Coef. = 0.000
 ; Rot. Angle = 0.0
 Emission Units = GRAMS/SEC ; Emission Rate
 Unit Factor = 873.20
 Output Units = PPM

**Approximate Storage Requirements of Model = 3.5 MB of RAM.

*** AERMOD - VERSION 09292 *** *** Elysian
 *** 11/23/10
 *** Floating CO
 *** 10:44:12

PAGE 2

**MODELOPTs: RegDEFAULT CONC ELEV
 NODRYDPLT NOWETDPLT

*** AREAPOLY SOURCE DATA ***

| URBAN | EMISSION RATE | NUMBER | EMISSION RATE | LOCATION OF AREA | BASE | RELEASE | NUMBER | INIT. |
|--------|---------------|-------------|---------------|------------------|-----------|----------|----------|-----------|
| SOURCE | PART. | (USER UNITS | | X | Y | ELEV. | HEIGHT | OF VERTS. |
| SOURCE | SCALAR | VARY | | (METERS) | (METERS) | (METERS) | (METERS) | SZ |
| ID | CATS. | /METER**2) | | (METERS) | (METERS) | (METERS) | (METERS) | (METERS) |
| PAREA3 | 0 | 0.30920E-04 | | 386606.5 | 3771295.6 | 139.7 | 5.00 | 18 |
| YES | | | | | | | | 0.00 |
| PAREA4 | 0 | 0.11150E-03 | | 386598.2 | 3772118.1 | 96.3 | 5.00 | 14 |
| YES | | | | | | | | 0.00 |

*** AERMOD - VERSION 09292 *** *** Elysian
 *** 11/23/10
 *** Floating CO
 *** 10:44:12

PAGE 3

**MODELOPTs: RegDEFAULT CONC ELEV
 NODRYDPLT NOWETDPLT

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID SOURCE IDs

SRCGP1 PAREA3 , PAREA4 ,

ALL PAREA3 , PAREA4 ,

Floating Cover CO Unmitigated

*** AERMOD - VERSION 09292 *** *** Elysian
 *** 11/23/10
 *** 10:44:12 *** Floating CO

PAGE 4
 **MODELOPTs: RegDFAULT CONC

ELEV
 NODRYDPLT NOWETDPLT

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

| | | | | |
|---------------------------|--------|--------|-------|------------------------|
| (386476.8, 3771139.5, | 143.3, | 181.0, | 0.0); | (386470.4, 3771149.7, |
| 144.2, 181.0, 0.0); | | | | |
| (386460.2, 3771160.0, | 145.3, | 181.0, | 0.0); | (386449.3, 3771172.8, |
| 146.6, 181.0, 0.0); | | | | |
| (386440.3, 3771184.3, | 147.6, | 181.0, | 0.0); | (386434.5, 3771197.8, |
| 148.6, 181.0, 0.0); | | | | |
| (386405.0, 3771244.6, | 152.9, | 181.0, | 0.0); | (386409.5, 3771235.6, |
| 151.9, 181.0, 0.0); | | | | |
| (386416.6, 3771223.4, | 150.9, | 181.0, | 0.0); | (386421.1, 3771217.0, |
| 150.3, 181.0, 0.0); | | | | |
| (386426.2, 3771210.0, | 149.6, | 181.0, | 0.0); | (386274.3, 3771299.7, |
| 168.1, 181.0, 0.0); | | | | |
| (386278.8, 3771290.1, | 167.4, | 181.0, | 0.0); | (386287.8, 3771280.5, |
| 166.6, 181.0, 0.0); | | | | |
| (386296.1, 3771269.6, | 164.9, | 181.0, | 0.0); | (386303.1, 3771259.3, |
| 163.5, 181.0, 0.0); | | | | |
| (386340.3, 3771210.6, | 155.9, | 181.0, | 0.0); | (386331.3, 3771222.1, |
| 157.6, 181.0, 0.0); | | | | |
| (386323.0, 3771233.7, | 159.3, | 181.0, | 0.0); | (386312.8, 3771248.4, |
| 161.6, 181.0, 0.0); | | | | |
| (386415.3, 3771092.0, | 143.8, | 181.0, | 0.0); | (386380.0, 3771051.0, |
| 142.9, 164.0, 0.0); | | | | |
| (386392.2, 3771050.4, | 142.2, | 181.0, | 0.0); | (386374.3, 3771063.2, |
| 144.0, 164.0, 0.0); | | | | |
| (386402.5, 3771098.4, | 144.8, | 181.0, | 0.0); | (386419.8, 3771082.4, |
| 142.9, 181.0, 0.0); | | | | |
| (386163.4, 3771763.8, | 182.0, | 182.0, | 0.0); | (386081.3, 3771480.5, |
| 178.0, 178.0, 0.0); | | | | |
| (386103.8, 3771527.9, | 179.8, | 179.8, | 0.0); | (386120.4, 3771576.0, |
| 181.1, 181.1, 0.0); | | | | |
| (386135.8, 3771613.8, | 182.0, | 182.0, | 0.0); | (386146.7, 3771651.6, |
| 182.0, 182.0, 0.0); | | | | |
| (386156.3, 3771690.8, | 182.0, | 182.0, | 0.0); | (386164.7, 3771730.5, |
| 182.0, 182.0, 0.0); | | | | |
| (386716.6, 3772090.1, | 93.4, | 182.0, | 0.0); | (386705.7, 3772082.4, |
| 93.0, 182.0, 0.0); | | | | |
| (386714.7, 3772074.7, | 93.3, | 182.0, | 0.0); | (386723.0, 3772061.9, |
| 93.7, 182.0, 0.0); | | | | |
| (386732.0, 3772036.9, | 94.0, | 182.0, | 0.0); | (386728.1, 3772051.0, |
| 93.9, 182.0, 0.0); | | | | |
| (386737.1, 3772022.1, | 94.2, | 182.0, | 0.0); | (386699.3, 3772099.1, |
| 92.7, 182.0, 0.0); | | | | |
| (386690.3, 3772107.4, | 92.4, | 182.0, | 0.0); | (386682.6, 3772113.8, |
| 92.1, 182.0, 0.0); | | | | |
| (386674.3, 3772123.4, | 92.3, | 182.0, | 0.0); | (386664.7, 3772134.3, |
| 92.8, 182.0, 0.0); | | | | |
| (386654.4, 3772145.2, | 93.1, | 182.0, | 0.0); | (386605.7, 3772127.3, |
| 95.6, 182.0, 0.0); | | | | |
| (386591.0, 3772133.7, | 96.5, | 182.0, | 0.0); | (386579.4, 3772139.5, |
| 97.2, 182.0, 0.0); | | | | |
| (386560.2, 3772147.2, | 98.4, | 182.0, | 0.0); | (386545.4, 3772154.8, |
| 99.0, 182.0, 0.0); | | | | |
| (386533.3, 3772162.5, | 99.5, | 182.0, | 0.0); | (386542.9, 3772179.8, |
| 98.2, 182.0, 0.0); | | | | |
| (386553.1, 3772195.9, | 96.9, | 182.0, | 0.0); | (386568.5, 3772208.7, |
| 95.5, 182.0, 0.0); | | | | |
| (386582.0, 3772192.7, | 95.3, | 182.0, | 0.0); | (386595.4, 3772181.1, |
| 94.8, 182.0, 0.0); | | | | |

Floating Cover CO Unmitigated

| | | | | |
|--------------------------------|-----------------|--------|-------|------------------------|
| (386609.5, 3772168.9, | 94.5, | 182.0, | 0.0); | (386624.3, 3772152.3, |
| 94.3, 182.0, 0.0); | | | | |
| (386619.2, 3772140.1, | 94.7, | 182.0, | 0.0); | (386640.3, 3772163.8, |
| 93.5, 182.0, 0.0); | | | | |
| (386653.8, 3772174.7, | 93.0, | 182.0, | 0.0); | (386666.0, 3772186.3, |
| 92.7, 182.0, 0.0); | | | | |
| (386677.5, 3772197.8, | 92.5, | 182.0, | 0.0); | (386688.4, 3772208.7, |
| 92.8, 182.0, 0.0); | | | | |
| (386701.2, 3772222.2, | 93.5, | 182.0, | 0.0); | (386448.6, 3772217.7, |
| 102.7, 182.0, 0.0); | | | | |
| (386456.3, 3772212.5, | 102.4, | 182.0, | 0.0); | (386465.3, 3772206.1, |
| 102.1, 182.0, 0.0); | | | | |
| (386474.3, 3772200.4, | 101.8, | 182.0, | 0.0); | (386481.3, 3772194.6, |
| 101.5, 182.0, 0.0); | | | | |
| (386489.0, 3772190.1, | 101.2, | 182.0, | 0.0); | (386499.3, 3772183.1, |
| 100.9, 182.0, 0.0); | | | | |
| (386507.6, 3772177.9, | 100.5, | 182.0, | 0.0); | (386514.7, 3772171.5, |
| 100.3, 182.0, 0.0); | | | | |
| (386576.8, 3772219.6, | 94.6, | 182.0, | 0.0); | (386586.5, 3772209.3, |
| 94.4, 182.0, 0.0); | | | | |
| (386597.4, 3772197.8, | 94.2, | 182.0, | 0.0); | (386607.0, 3772187.5, |
| 94.0, 182.0, 0.0); | | | | |
| (386620.4, 3772178.6, | 93.9, | 182.0, | 0.0); | (386742.9, 3772003.6, |
| 94.5, 182.0, 0.0); | | | | |
| (386386.3, 3771087.3, | 144.9, | 181.0, | 0.0); | (386399.3, 3771081.5, |
| 143.9, 181.0, 0.0); | | | | |
| (386409.4, 3771067.1, | 142.4, | 181.0, | 0.0); | (385296.8, 3773132.0, |
| 117.7, 182.0, 0.0); | | | | |
| (385287.9, 3773147.0, | 117.7, | 182.0, | 0.0); | (385283.5, 3773159.4, |
| 117.2, 182.0, 0.0); | | | | |
| (385576.7, 3773089.5, | 103.9, | 182.0, | 0.0); | (385598.0, 3773060.2, |
| 104.0, 182.0, 0.0); | | | | |
| *** AERMOD - VERSION 09292 *** | *** Elysian | | | |
| *** 11/23/10 | *** Floating CO | | | |
| *** 10:44:12 | | | | |

PAGE 5

**MODELOPTs: RegDFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

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

| | | | | |
|------------------------|--------|--------|-------|------------------------|
| (385609.5, 3773037.2, | 104.5, | 182.0, | 0.0); | (385629.8, 3772997.4, |
| 105.3, 182.0, 0.0); | | | | |
| (385654.6, 3772953.1, | 106.0, | 182.0, | 0.0); | (385706.0, 3772876.9, |
| 106.7, 182.0, 0.0); | | | | |
| (385752.1, 3772808.7, | 107.3, | 182.0, | 0.0); | (385816.7, 3772724.5, |
| 108.9, 182.0, 0.0); | | | | |
| (385886.7, 3772645.7, | 110.4, | 182.0, | 0.0); | (385952.3, 3772579.3, |
| 111.3, 182.0, 0.0); | | | | |
| (386020.5, 3772519.0, | 111.7, | 182.0, | 0.0); | (386094.0, 3772463.2, |
| 111.1, 182.0, 0.0); | | | | |
| (386169.3, 3772411.0, | 110.4, | 182.0, | 0.0); | (386248.1, 3772359.6, |
| 108.8, 182.0, 0.0); | | | | |
| (386328.7, 3772309.1, | 105.9, | 182.0, | 0.0); | (386407.5, 3772253.3, |
| 103.3, 182.0, 0.0); | | | | |
| (387116.3, 3772187.4, | 108.2, | 182.0, | 0.0); | (387141.0, 3772141.5, |
| 108.9, 108.9, 0.0); | | | | |
| (387201.0, 3772180.3, | 110.6, | 182.0, | 0.0); | (387155.1, 3772229.8, |
| 110.0, 182.0, 0.0); | | | | |
| (386943.3, 3772540.4, | 102.9, | 243.0, | 0.0); | (386925.6, 3772582.8, |
| 102.9, 243.0, 0.0); | | | | |
| (386526.7, 3770944.7, | 129.0, | 131.0, | 0.0); | (386466.7, 3770937.6, |
| 131.1, 131.1, 0.0); | | | | |
| (386537.3, 3770884.7, | 123.8, | 123.8, | 0.0); | (386480.8, 3770881.1, |
| 125.8, 125.8, 0.0); | | | | |
| (387374.0, 3771597.8, | 112.1, | 112.1, | 0.0); | (384880.2, 3771187.7, |
| 166.9, 166.9, 0.0); | | | | |

Floating Cover CO Unmitigated

```
( 384901.5, 3771161.1, 167.0, 167.0, 0.0); ( 384909.4, 3771118.6,
165.9, 165.9, 0.0);
( 384912.1, 3771078.8, 164.8, 164.8, 0.0); ( 384920.0, 3771052.2,
164.2, 164.2, 0.0);
*** AERMOD - VERSION 09292 *** *** Elysian
*** 11/23/10 *** Floating CO
*** 10:44:12
```

```
PAGE 6
**MODELOPTs: RegDFAULT CONC ELEV
NODRYDPLT NOWETDPLT
*** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
(1=YES; 0=NO)
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
```

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

```
*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES
(METERS/SEC)
1.54, 3.09, 5.14, 8.23, 10.80,
*** AERMOD - VERSION 09292 *** *** Elysian
*** 11/23/10 *** Floating CO
*** 10:44:12
```

```
PAGE 7
**MODELOPTs: RegDFAULT CONC ELEV
NODRYDPLT NOWETDPLT
*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***
Surface file: L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met
Data\cela.SFC Met Version: 06341
Profile file: L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met
Data\cela.PFL
Surface format: FREE
Profile format: FREE
Surface station no.: 0 Upper air station no.: 3190
Name: UNKNOWN Name: UNKNOWN
Year: 2006 Year: 2006
```

```
First 24 hours of scalar data
YR MO DY JDY HR H0 U* W* DT/DZ ZICNV ZIMCH M-O LEN Z0 BOWEN ALBEDO REF WS
WD HT REF TA HT
-----
06 01 01 1 01 -0.9 0.040 -9.000 -9.000 -999. 18. 6.3 0.65 1.00 1.00 0.70
347. 21.3 286.4 17.7
```


Floating Cover CO Unmitigated

| | | | | | | | | | | | | | | | |
|------|------|-------|------|----|-------|-------|--------|--------|-------|-------|---------|------|------|------|------|
| 06 | 01 | 01 | 1 | 02 | -3.0 | 0.086 | -9.000 | -9.000 | -999. | 58. | 19.1 | 0.65 | 1.00 | 1.00 | 1.50 |
| 82. | 21.3 | 286.4 | 17.7 | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 03 | -1.3 | 0.057 | -9.000 | -9.000 | -999. | 31. | 12.7 | 0.65 | 1.00 | 1.00 | 1.00 |
| 66. | 21.3 | 286.4 | 17.7 | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 04 | -1.9 | 0.069 | -9.000 | -9.000 | -999. | 41. | 15.2 | 0.65 | 1.00 | 1.00 | 1.20 |
| 23. | 21.3 | 285.9 | 17.7 | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 05 | -3.5 | 0.080 | -9.000 | -9.000 | -999. | 52. | 13.1 | 0.65 | 1.00 | 1.00 | 1.40 |
| 61. | 21.3 | 285.4 | 17.7 | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 06 | -3.0 | 0.086 | -9.000 | -9.000 | -999. | 58. | 19.0 | 0.65 | 1.00 | 1.00 | 1.50 |
| 83. | 21.3 | 285.4 | 17.7 | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 07 | -6.1 | 0.103 | -9.000 | -9.000 | -999. | 76. | 16.2 | 0.65 | 1.00 | 1.00 | 1.80 |
| 64. | 21.3 | 285.4 | 17.7 | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 08 | -3.3 | 0.080 | -9.000 | -9.000 | -999. | 52. | 14.1 | 0.65 | 1.00 | 0.55 | 1.40 |
| 46. | 21.3 | 285.4 | 17.7 | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 09 | 26.6 | 0.304 | 0.644 | 0.005 | 362. | 385. | -95.4 | 0.65 | 1.00 | 0.32 | 2.30 |
| 87. | 21.3 | 286.4 | 17.7 | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 10 | 21.0 | 0.227 | 0.732 | 0.005 | 675. | 250. | -50.2 | 0.65 | 1.00 | 0.24 | 1.60 |
| 76. | 21.3 | 286.4 | 17.7 | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 11 | 35.8 | 0.197 | 0.912 | 0.005 | 766. | 201. | -19.2 | 0.65 | 1.00 | 0.21 | 1.20 |
| 66. | 21.3 | 287.5 | 17.7 | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 12 | 14.9 | 0.281 | 0.686 | 0.005 | 785. | 343. | -135.5 | 0.65 | 1.00 | 0.20 | 2.20 |
| 79. | 21.3 | 287.5 | 17.7 | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 13 | 26.4 | 0.376 | 0.842 | 0.009 | 818. | 530. | -181.6 | 0.65 | 1.00 | 0.20 | 3.00 |
| 76. | 21.3 | 287.5 | 17.7 | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 14 | 39.0 | 0.385 | 0.979 | 0.014 | 867. | 549. | -131.8 | 0.65 | 1.00 | 0.21 | 3.00 |
| 80. | 21.3 | 288.1 | 17.7 | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 15 | 11.4 | 0.277 | 0.653 | 0.014 | 881. | 341. | -168.4 | 0.65 | 1.00 | 0.25 | 2.20 |
| 86. | 21.3 | 287.5 | 17.7 | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 16 | 0.1 | 0.343 | 0.135 | 0.014 | 881. | 462. | -8888.0 | 0.65 | 1.00 | 0.33 | 3.00 |
| 75. | 21.3 | 287.0 | 17.7 | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 17 | -13.7 | 0.266 | -9.000 | -9.000 | -999. | 319. | 125.0 | 0.65 | 1.00 | 0.60 | 2.90 |
| 82. | 21.3 | 286.4 | 17.7 | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 18 | -10.2 | 0.183 | -9.000 | -9.000 | -999. | 183. | 54.5 | 0.65 | 1.00 | 1.00 | 2.50 |
| 101. | 21.3 | 286.4 | 17.7 | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 19 | -16.1 | 0.289 | -9.000 | -9.000 | -999. | 358. | 135.6 | 0.65 | 1.00 | 1.00 | 3.10 |
| 97. | 21.3 | 285.9 | 17.7 | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 20 | -25.2 | 0.450 | -9.000 | -9.000 | -999. | 693. | 326.1 | 0.65 | 1.00 | 1.00 | 4.30 |
| 92. | 21.3 | 284.9 | 17.7 | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 21 | -27.3 | 0.487 | -9.000 | -9.000 | -999. | 781. | 381.9 | 0.65 | 1.00 | 1.00 | 4.60 |
| 88. | 21.3 | 284.2 | 17.7 | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 22 | -28.0 | 0.499 | -9.000 | -9.000 | -999. | 812. | 402.5 | 0.65 | 1.00 | 1.00 | 4.70 |
| 91. | 21.3 | 284.9 | 17.7 | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 23 | -36.1 | 0.645 | -9.000 | -9.000 | -999. | 1191. | 673.0 | 0.65 | 1.00 | 1.00 | 5.90 |
| 82. | 21.3 | 285.4 | 17.7 | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 24 | -35.3 | 0.633 | -9.000 | -9.000 | -999. | 1160. | 649.7 | 0.65 | 1.00 | 1.00 | 5.80 |
| 84. | 21.3 | 285.9 | 17.7 | | | | | | | | | | | | |

First hour of profile data

| YR | MO | DY | HR | HEIGHT | F | WDIR | WSPD | AMB_TMP | sigmaA | sigmaW | sigmaV |
|----|----|----|----|--------|---|-------|--------|---------|--------|--------|--------|
| 06 | 01 | 01 | 01 | 17.7 | 0 | -999. | -99.00 | 286.5 | 99.0 | -99.00 | -99.00 |
| 06 | 01 | 01 | 01 | 21.3 | 1 | 347. | 0.70 | -999.0 | 99.0 | -99.00 | -99.00 |

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

*** AERMOD - VERSION 09292 *** *** Elysian
 *** 11/23/10 *** Floating CO
 *** 10:44:12

PAGE 8

**MODELOPTs: RegDFault CONC

ELEV
 NODRYDPLT NOWETDPLT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: SRCGP1 ***
 INCLUDING SOURCE(S): PAREA3 , PAREA4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF CO IN PPM

**

Floating Cover CO Unmitigated

| CONC | X-COORD (M) (YYMMDDHH) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) |
|---------|---------------------------|-------------|---------|------------|-------------|-------------|
| 0.18820 | 386476.85 (06110221) | 3771139.46 | 0.19109 | (06110221) | 386470.44 | 3771149.72 |
| 0.17538 | 386460.18 (07082906) | 3771159.97 | 0.18180 | (06110221) | 386449.29 | 3771172.79 |
| 0.16624 | 386440.31 (07082906) | 3771184.33 | 0.17001 | (07082906) | 386434.54 | 3771197.79 |
| 0.14512 | 386405.05 (06091823) | 3771244.59 | 0.14253 | (07110406) | 386409.54 | 3771235.61 |
| 0.15463 | 386416.59 (07082906) | 3771223.43 | 0.15000 | (06091823) | 386421.08 | 3771217.02 |
| 0.08453 | 386426.21 (07120322) | 3771209.97 | 0.15946 | (07082906) | 386274.28 | 3771299.72 |
| 0.08933 | 386278.77 (07110406) | 3771290.10 | 0.08628 | (07110406) | 386287.75 | 3771280.49 |
| 0.09755 | 386296.08 (07110406) | 3771269.59 | 0.09363 | (07110406) | 386303.13 | 3771259.33 |
| 0.11287 | 386340.31 (07110406) | 3771210.61 | 0.11676 | (07110406) | 386331.34 | 3771222.15 |
| 0.10263 | 386323.00 (07110406) | 3771233.69 | 0.10851 | (07110406) | 386312.75 | 3771248.43 |
| 0.13167 | 386415.31 (06091823) | 3771092.02 | 0.15089 | (07082906) | 386380.05 | 3771051.00 |
| 0.13029 | 386392.23 (06091823) | 3771050.36 | 0.13738 | (07082906) | 386374.29 | 3771063.18 |
| 0.15278 | 386402.49 (07082906) | 3771098.43 | 0.14391 | (07082906) | 386419.80 | 3771082.41 |
| 0.07640 | 386163.39 (07050824) | 3771763.82 | 0.08555 | (07061204) | 386081.33 | 3771480.49 |
| 0.08714 | 386103.77 (06083124) | 3771527.92 | 0.07411 | (07050824) | 386120.44 | 3771576.00 |
| 0.09586 | 386135.82 (06030702) | 3771613.82 | 0.08882 | (06083124) | 386146.72 | 3771651.64 |
| 0.08547 | 386156.33 (07061204) | 3771690.75 | 0.09492 | (06030702) | 386164.67 | 3771730.49 |
| 0.57839 | 386716.60 (07071406) | 3772090.11 | 0.51300 | (07063006) | 386705.70 | 3772082.42 |
| 0.62866 | 386714.67 (07071406) | 3772074.72 | 0.61827 | (07071406) | 386723.00 | 3772061.90 |
| 0.74067 | 386731.99 (07030522) | 3772036.90 | 0.78332 | (07030522) | 386728.13 | 3772051.01 |
| 0.48927 | 386737.11 (07063006) | 3772022.15 | 0.75685 | (06111820) | 386699.29 | 3772099.08 |
| 0.47912 | 386690.31 (07020104) | 3772107.42 | 0.47046 | (07020104) | 386682.62 | 3772113.83 |
| 0.48312 | 386674.29 (07020103) | 3772123.44 | 0.48053 | (07020103) | 386664.67 | 3772134.34 |
| 0.77435 | 386654.42 (07070805) | 3772145.24 | 0.48559 | (07020103) | 386605.70 | 3772127.29 |
| 0.83163 | 386590.95 (06122919) | 3772133.70 | 0.84911 | (06122919) | 386579.42 | 3772139.47 |
| 0.54272 | 386560.18 (06122919) | 3772147.16 | 0.68234 | (06122919) | 386545.44 | 3772154.85 |
| 0.50555 | 386533.26 (06122919) | 3772162.54 | 0.44974 | (06122919) | 386542.88 | 3772179.85 |
| 0.41192 | 386553.13 (07121620) | 3772195.88 | 0.40832 | (07121620) | 386568.52 | 3772208.70 |
| 0.45970 | 386581.98 (07121620) | 3772192.67 | 0.45437 | (07121620) | 386595.44 | 3772181.13 |
| 0.51784 | 386609.54 (07020103) | 3772168.95 | 0.47389 | (07111522) | 386624.29 | 3772152.29 |
| 0.47475 | 386619.16 (07020103) | 3772140.11 | 0.59754 | (07081406) | 386640.31 | 3772163.83 |
| 0.39994 | 386653.77 (07020104) | 3772174.72 | 0.43511 | (07020103) | 386665.95 | 3772186.26 |
| 0.34379 | 386677.49 (07082624) | 3772197.80 | 0.36408 | (07020104) | 386688.39 | 3772208.70 |

Floating Cover CO Unmitigated

| | | | | | | |
|---------|-------------------------|------------|---------|------------|-----------|------------|
| 0.20792 | 386701.21 (07061204) | 3772222.16 | 0.32337 | (07082624) | 386448.64 | 3772217.67 |
| 0.23235 | 386456.34 (07061204) | 3772212.55 | 0.21836 | (07061204) | 386465.31 | 3772206.13 |
| 0.26198 | 386474.29 (07061204) | 3772200.37 | 0.24710 | (07061204) | 386481.34 | 3772194.60 |
| 0.29180 | 386489.03 (07061204) | 3772190.11 | 0.26706 | (07061204) | 386499.29 | 3772183.06 |
| 0.33998 | 386507.62 (07061204) | 3772177.93 | 0.31349 | (07041701) | 386514.67 | 3772171.52 |
| 0.35612 | 386576.85 (07121620) | 3772219.60 | 0.35015 | (07121620) | 386586.47 | 3772209.34 |
| 0.40593 | 386597.36 (07111522) | 3772197.80 | 0.37422 | (07081406) | 386606.98 | 3772187.54 |

*** AERMOD - VERSION 09292 ***
 *** 11/23/10 ***
 *** 10:44:12 ***

*** Elysian
 *** Floating CO

PAGE 9

**MODELOPTs: RegDFAULT CONC

ELEV
 NODRYDPLT NOWETDPLT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: SRCGP1 ***
 INCLUDING SOURCE(S): PAREA3 , PAREA4 ,
 *** DISCRETE CARTESIAN RECEPTOR POINTS ***
 ** CONC OF CO IN PPM

| CONC | X-COORD (M) (YYMMDDHH) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) |
|---------|---------------------------|-------------|---------|------------|-------------|-------------|
| 0.77759 | 386620.44 (06110320) | 3772178.57 | 0.43982 | (07020103) | 386742.87 | 3772003.56 |
| 0.14168 | 386386.30 (07082906) | 3771087.29 | 0.13552 | (06091823) | 386399.28 | 3771081.52 |
| 0.01828 | 386409.38 (07060324) | 3771067.10 | 0.14673 | (07082906) | 385296.78 | 3773131.99 |
| 0.01805 | 385287.93 (07101501) | 3773147.05 | 0.01810 | (07101501) | 385283.50 | 3773159.45 |
| 0.02310 | 385576.69 (07121620) | 3773089.48 | 0.02238 | (07121620) | 385597.95 | 3773060.25 |
| 0.02407 | 385609.46 (07121620) | 3773037.22 | 0.02343 | (07121620) | 385629.84 | 3772997.36 |
| 0.02707 | 385654.64 (07121620) | 3772953.07 | 0.02493 | (07121620) | 385706.01 | 3772876.89 |
| 0.03297 | 385752.07 (07121620) | 3772808.69 | 0.02923 | (07121620) | 385816.74 | 3772724.54 |
| 0.04193 | 385886.71 (07061204) | 3772645.70 | 0.03736 | (07121620) | 385952.26 | 3772579.27 |
| 0.05711 | 386020.46 (07061204) | 3772519.04 | 0.04857 | (07061204) | 386093.98 | 3772463.23 |
| 0.08582 | 386169.27 (07061204) | 3772410.97 | 0.06878 | (07061204) | 386248.11 | 3772359.60 |
| 0.15864 | 386328.71 (07061204) | 3772309.11 | 0.11173 | (07061204) | 386407.55 | 3772253.30 |
| 0.11456 | 387116.28 (06062804) | 3772187.40 | 0.11466 | (07070102) | 387141.00 | 3772141.51 |
| 0.09689 | 387201.01 (07070102) | 3772180.34 | 0.08882 | (06062804) | 387155.12 | 3772229.77 |
| 0.10224 | 386943.29 (07010320) | 3772540.45 | 0.09905 | (07010320) | 386925.64 | 3772582.82 |
| 0.13912 | 386526.69 (06090305) | 3770944.68 | 0.16159 | (06090305) | 386466.67 | 3770937.61 |
| 0.13692 | 386537.28 (06090305) | 3770884.66 | 0.13839 | (06090305) | 386480.80 | 3770881.13 |

Floating Cover CO Unmitigated

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387374.01 3771597.81 0.06184 (07070124) 384880.19 3771187.72
0.03188 (07032307)
384901.45 3771161.15 0.03078 (07081506) 384909.41 3771118.65
0.03309 (07081506)
384912.07 3771078.80 0.03312 (07081506) 384920.04 3771052.24
0.03207 (07081506)
*** AERMOD - VERSION 09292 *** *** Elysian
*** 11/23/10 ***
*** 10:44:12 *** Floating CO

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PAGE 10

**MODELOPTs: RegDFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

```

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): PAREA3 , PAREA4 ,
*** DISCRETE CARTESIAN RECEPTOR POINTS ***
** CONC OF CO IN PPM

```

| CONC | X-COORD (M) (YYMMDDHH) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) |
|---------|---------------------------|-------------|---------|------------|-------------|-------------|
| 0.18820 | 386476.85 | 3771139.46 | 0.19109 | (06110221) | 386470.44 | 3771149.72 |
| 0.17538 | 386460.18 | 3771159.97 | 0.18180 | (06110221) | 386449.29 | 3771172.79 |
| 0.16624 | 386440.31 | 3771184.33 | 0.17001 | (07082906) | 386434.54 | 3771197.79 |
| 0.14512 | 386405.05 | 3771244.59 | 0.14253 | (07110406) | 386409.54 | 3771235.61 |
| 0.15463 | 386416.59 | 3771223.43 | 0.15000 | (06091823) | 386421.08 | 3771217.02 |
| 0.08453 | 386426.21 | 3771209.97 | 0.15946 | (07082906) | 386274.28 | 3771299.72 |
| 0.08933 | 386278.77 | 3771290.10 | 0.08628 | (07110406) | 386287.75 | 3771280.49 |
| 0.09755 | 386296.08 | 3771269.59 | 0.09363 | (07110406) | 386303.13 | 3771259.33 |
| 0.11287 | 386340.31 | 3771210.61 | 0.11676 | (07110406) | 386331.34 | 3771222.15 |
| 0.10263 | 386323.00 | 3771233.69 | 0.10851 | (07110406) | 386312.75 | 3771248.43 |
| 0.13167 | 386415.31 | 3771092.02 | 0.15089 | (07082906) | 386380.05 | 3771051.00 |
| 0.13029 | 386392.23 | 3771050.36 | 0.13738 | (07082906) | 386374.29 | 3771063.18 |
| 0.15278 | 386402.49 | 3771098.43 | 0.14391 | (07082906) | 386419.80 | 3771082.41 |
| 0.07640 | 386163.39 | 3771763.82 | 0.08555 | (07061204) | 386081.33 | 3771480.49 |
| 0.08714 | 386103.77 | 3771527.92 | 0.07411 | (07050824) | 386120.44 | 3771576.00 |
| 0.09586 | 386135.82 | 3771613.82 | 0.08882 | (06083124) | 386146.72 | 3771651.64 |
| 0.08547 | 386156.33 | 3771690.75 | 0.09492 | (06030702) | 386164.67 | 3771730.49 |
| 0.57839 | 386716.60 | 3772090.11 | 0.51300 | (07063006) | 386705.70 | 3772082.42 |
| 0.62866 | 386714.67 | 3772074.72 | 0.61827 | (07071406) | 386723.00 | 3772061.90 |
| 0.74067 | 386731.99 | 3772036.90 | 0.78332 | (07030522) | 386728.13 | 3772051.01 |
| 0.48927 | 386737.11 | 3772022.15 | 0.75685 | (06111820) | 386699.29 | 3772099.08 |

Floating Cover CO Unmitigated

| | | | | | | |
|--------------------------------|-------------------------|------------|-----------------|------------|-----------|------------|
| 0.47912 | 386690.31 (07020104) | 3772107.42 | 0.47046 | (07020104) | 386682.62 | 3772113.83 |
| 0.48312 | 386674.29 (07020103) | 3772123.44 | 0.48053 | (07020103) | 386664.67 | 3772134.34 |
| 0.77435 | 386654.42 (07070805) | 3772145.24 | 0.48559 | (07020103) | 386605.70 | 3772127.29 |
| 0.83163 | 386590.95 (06122919) | 3772133.70 | 0.84911 | (06122919) | 386579.42 | 3772139.47 |
| 0.54272 | 386560.18 (06122919) | 3772147.16 | 0.68234 | (06122919) | 386545.44 | 3772154.85 |
| 0.50555 | 386533.26 (06122919) | 3772162.54 | 0.44974 | (06122919) | 386542.88 | 3772179.85 |
| 0.41192 | 386553.13 (07121620) | 3772195.88 | 0.40832 | (07121620) | 386568.52 | 3772208.70 |
| 0.45970 | 386581.98 (07121620) | 3772192.67 | 0.45437 | (07121620) | 386595.44 | 3772181.13 |
| 0.51784 | 386609.54 (07020103) | 3772168.95 | 0.47389 | (07111522) | 386624.29 | 3772152.29 |
| 0.47475 | 386619.16 (07020103) | 3772140.11 | 0.59754 | (07081406) | 386640.31 | 3772163.83 |
| 0.39994 | 386653.77 (07020104) | 3772174.72 | 0.43511 | (07020103) | 386665.95 | 3772186.26 |
| 0.34379 | 386677.49 (07082624) | 3772197.80 | 0.36408 | (07020104) | 386688.39 | 3772208.70 |
| 0.20792 | 386701.21 (07061204) | 3772222.16 | 0.32337 | (07082624) | 386448.64 | 3772217.67 |
| 0.23235 | 386456.34 (07061204) | 3772212.55 | 0.21836 | (07061204) | 386465.31 | 3772206.13 |
| 0.26198 | 386474.29 (07061204) | 3772200.37 | 0.24710 | (07061204) | 386481.34 | 3772194.60 |
| 0.29180 | 386489.03 (07061204) | 3772190.11 | 0.26706 | (07061204) | 386499.29 | 3772183.06 |
| 0.33998 | 386507.62 (07061204) | 3772177.93 | 0.31349 | (07041701) | 386514.67 | 3772171.52 |
| 0.35612 | 386576.85 (07121620) | 3772219.60 | 0.35015 | (07121620) | 386586.47 | 3772209.34 |
| 0.40593 | 386597.36 (07111522) | 3772197.80 | 0.37422 | (07081406) | 386606.98 | 3772187.54 |
| *** AERMOD - VERSION 09292 *** | | | *** Elysian | | | |
| *** 11/23/10 | | | *** Floating CO | | | |
| *** 10:44:12 | | | | | | |

PAGE 11

**MODELOPTs: RegDFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): PAREA3 , PAREA4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF CO IN PPM

**

| CONC | X-COORD (M) (YYMMDDHH) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) |
|---------|---------------------------|-------------|---------|------------|-------------|-------------|
| 0.77759 | 386620.44 (06110320) | 3772178.57 | 0.43982 | (07020103) | 386742.87 | 3772003.56 |
| 0.14168 | 386386.30 (07082906) | 3771087.29 | 0.13552 | (06091823) | 386399.28 | 3771081.52 |
| 0.01828 | 386409.38 (07060324) | 3771067.10 | 0.14673 | (07082906) | 385296.78 | 3773131.99 |
| 0.01805 | 385287.93 (07101501) | 3773147.05 | 0.01810 | (07101501) | 385283.50 | 3773159.45 |
| 0.02310 | 385576.69 (07121620) | 3773089.48 | 0.02238 | (07121620) | 385597.95 | 3773060.25 |

Floating Cover CO Unmitigated

| | | | | | | |
|--------------------------------|-------------------------|------------|-----------------|------------|-----------|------------|
| 0.02407 | 385609.46 (07121620) | 3773037.22 | 0.02343 | (07121620) | 385629.84 | 3772997.36 |
| 0.02707 | 385654.64 (07121620) | 3772953.07 | 0.02493 | (07121620) | 385706.01 | 3772876.89 |
| 0.03297 | 385752.07 (07121620) | 3772808.69 | 0.02923 | (07121620) | 385816.74 | 3772724.54 |
| 0.04193 | 385886.71 (07061204) | 3772645.70 | 0.03736 | (07121620) | 385952.26 | 3772579.27 |
| 0.05711 | 386020.46 (07061204) | 3772519.04 | 0.04857 | (07061204) | 386093.98 | 3772463.23 |
| 0.08582 | 386169.27 (07061204) | 3772410.97 | 0.06878 | (07061204) | 386248.11 | 3772359.60 |
| 0.15864 | 386328.71 (07061204) | 3772309.11 | 0.11173 | (07061204) | 386407.55 | 3772253.30 |
| 0.11456 | 387116.28 (06062804) | 3772187.40 | 0.11466 | (07070102) | 387141.00 | 3772141.51 |
| 0.09689 | 387201.01 (07070102) | 3772180.34 | 0.08882 | (06062804) | 387155.12 | 3772229.77 |
| 0.10224 | 386943.29 (07010320) | 3772540.45 | 0.09905 | (07010320) | 386925.64 | 3772582.82 |
| 0.13912 | 386526.69 (06090305) | 3770944.68 | 0.16159 | (06090305) | 386466.67 | 3770937.61 |
| 0.13692 | 386537.28 (06090305) | 3770884.66 | 0.13839 | (06090305) | 386480.80 | 3770881.13 |
| 0.03188 | 387374.01 (07032307) | 3771597.81 | 0.06184 | (07070124) | 384880.19 | 3771187.72 |
| 0.03309 | 384901.45 (07081506) | 3771161.15 | 0.03078 | (07081506) | 384909.41 | 3771118.65 |
| 0.03207 | 384912.07 (07081506) | 3771078.80 | 0.03312 | (07081506) | 384920.04 | 3771052.24 |
| *** AERMOD - VERSION 09292 *** | | | *** Elysian | | | |
| *** 11/23/10 | | | *** Floating CO | | | |
| *** 10:44:12 | | | | | | |

PAGE 12

**MODELOPTs: RegDFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

SOURCE GROUP: SRCGP1 *** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR
INCLUDING SOURCE(S): PAREA3 , PAREA4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF CO IN PPM

**

| CONC | X-COORD (M) (YYMMDDHH) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) |
|---------|---------------------------|-------------|---------|------------|-------------|-------------|
| 0.12065 | 386476.85 (07122008) | 3771139.46 | 0.11982 | (07122008) | 386470.44 | 3771149.72 |
| 0.11597 | 386460.18 (07020208) | 3771159.97 | 0.11929 | (07122008) | 386449.29 | 3771172.79 |
| 0.12083 | 386440.31 (06020208) | 3771184.33 | 0.11848 | (06020208) | 386434.54 | 3771197.79 |
| 0.11422 | 386405.05 (06020208) | 3771244.59 | 0.11116 | (06020208) | 386409.54 | 3771235.61 |
| 0.11889 | 386416.59 (06020208) | 3771223.43 | 0.11735 | (06020208) | 386421.08 | 3771217.02 |
| 0.04428 | 386426.21 (07010408) | 3771209.97 | 0.12019 | (06020208) | 386274.28 | 3771299.72 |
| 0.04821 | 386278.77 (06020208) | 3771290.10 | 0.04441 | (06020508) | 386287.75 | 3771280.49 |
| 0.05906 | 386296.08 (06020208) | 3771269.59 | 0.05385 | (06020208) | 386303.13 | 3771259.33 |
| 0.07974 | 386340.31 (06020208) | 3771210.61 | 0.08563 | (06020208) | 386331.34 | 3771222.15 |

Floating Cover CO Unmitigated

| | | | | | | |
|---------|----------------------------|------------|---------|-------------|-----------|------------|
| 0.06577 | 386323.00 (06020208) | 3771233.69 | 0.07371 | (06020208) | 386312.75 | 3771248.43 |
| 0.07882 | 386415.31 (07020208) | 3771092.02 | 0.09186 | (07020208) | 386380.05 | 3771051.00 |
| 0.07835 | 386392.23 (07020208) | 3771050.36 | 0.08143 | (07020208) | 386374.29 | 3771063.18 |
| 0.09155 | 386402.49 (07020208) | 3771098.43 | 0.09076 | (07020208) | 386419.80 | 3771082.41 |
| 0.03028 | 386163.39 (06121608) | 3771763.82 | 0.02112 | (06122908) | 386081.33 | 3771480.49 |
| 0.02038 | 386103.77 (06032508) | 3771527.92 | 0.02541 | (06121608) | 386120.44 | 3771576.00 |
| 0.01931 | 386135.82 (06032508) | 3771613.82 | 0.02172 | (06032508) | 386146.72 | 3771651.64 |
| 0.02086 | 386156.33 (06122908) | 3771690.75 | 0.01855 | (07102108) | 386164.67 | 3771730.49 |
| 0.33883 | 386716.60 (07111824) | 3772090.11 | 0.28597 | (07060408) | 386705.70 | 3772082.42 |
| 0.38377 | 386714.67 (07111824) | 3772074.72 | 0.36099 | (07111824) | 386723.00 | 3772061.90 |
| 0.38331 | 386731.99 (07111824) | 3772036.90 | 0.36928 | (06080408) | 386728.13 | 3772051.01 |
| 0.31029 | 386737.11 (07060408) | 3772022.15 | 0.38404 | (07080308) | 386699.29 | 3772099.08 |
| 0.30743 | 386690.31 (07041324) | 3772107.42 | 0.30833 | (07060408) | 386682.62 | 3772113.83 |
| 0.32865 | 386674.29 (07031908) | 3772123.44 | 0.31611 | (07041324) | 386664.67 | 3772134.34 |
| 0.43276 | 386654.42 (07031908) | 3772145.24 | 0.33775 | (07031908) | 386605.70 | 3772127.29 |
| 0.23410 | 386590.95 (06051308) | 3772133.70 | 0.31792 | (07031908) | 386579.42 | 3772139.47 |
| 0.14265 | 386560.18 (06041108) | 3772147.16 | 0.17289 | (06041108) | 386545.44 | 3772154.85 |
| 0.10884 | 386533.26 (06051308) | 3772162.54 | 0.12233 | (06041108) | 386542.88 | 3772179.85 |
| 0.13046 | 386553.13 (07031908) | 3772195.88 | 0.12254 | (06051308) | 386568.52 | 3772208.70 |
| 0.24248 | 386581.98 (07031908) | 3772192.67 | 0.17997 | (07031908) | 386595.44 | 3772181.13 |
| 0.38188 | 386609.54 (07031908) | 3772168.95 | 0.31411 | (07031908) | 386624.29 | 3772152.29 |
| 0.32705 | 386619.16 (07031908) | 3772140.11 | 0.42631 | (07031908) | 386640.31 | 3772163.83 |
| 0.23664 | 386653.77 (07041324) | 3772174.72 | 0.27657 | (07031908) | 386665.95 | 3772186.26 |
| 0.18719 | 386677.49 (07041324) | 3772197.80 | 0.20978 | (07041324) | 386688.39 | 3772208.70 |
| 0.05859 | 386701.21 (06041108) | 3772222.16 | 0.16226 | (07041324) | 386448.64 | 3772217.67 |
| 0.06608 | 386456.34 (06041108) | 3772212.55 | 0.06180 | (06041108) | 386465.31 | 3772206.13 |
| 0.07516 | 386474.29 (06041108) | 3772200.37 | 0.07063 | (06041108) | 386481.34 | 3772194.60 |
| 0.08708 | 386489.03 (06041108) | 3772190.11 | 0.07932 | (06041108) | 386499.29 | 3772183.06 |
| 0.10248 | 386507.62 (06041108) | 3772177.93 | 0.09398 | (06041108) | 386514.67 | 3772171.52 |
| 0.17788 | 386576.85 (07031908) | 3772219.60 | 0.14684 | (07031908) | 386586.47 | 3772209.34 |
| 0.26028 | 386597.36 (07031908) | 3772197.80 | 0.21950 | (07031908) | 386606.98 | 3772187.54 |
| *** | AERMOD - VERSION 09292 *** | | *** | Elysian | | |
| *** | 11/23/10 | | *** | Floating CO | | |
| *** | 10:44:12 | | | | | |

PAGE 13

**MODELOPTs: RegDEFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

Floating Cover CO Unmitigated

SOURCE GROUP: SRCGP1 *** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR
 INCLUDING SOURCE(S): PAREA3 , PAREA4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF CO IN PPM

**

| CONC | X-COORD (M) (YYMMDDHH) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) |
|---------|---------------------------|-------------|---------|------------|-------------|-------------|
| 0.38607 | 386620.44 (06082908) | 3772178.57 | 0.30149 | (07031908) | 386742.87 | 3772003.56 |
| 0.08646 | 386386.30 (07020208) | 3771087.29 | 0.08496 | (07020208) | 386399.28 | 3771081.52 |
| 0.00406 | 386409.38 (06120908) | 3771067.10 | 0.08709 | (07020208) | 385296.78 | 3773131.99 |
| 0.00402 | 385287.93 (06120908) | 3773147.05 | 0.00403 | (06120908) | 385283.50 | 3773159.45 |
| 0.00540 | 385576.69 (06051308) | 3773089.48 | 0.00527 | (06051308) | 385597.95 | 3773060.25 |
| 0.00553 | 385609.46 (06051308) | 3773037.22 | 0.00544 | (06051308) | 385629.84 | 3772997.36 |
| 0.00601 | 385654.64 (06051308) | 3772953.07 | 0.00565 | (06051308) | 385706.01 | 3772876.89 |
| 0.00702 | 385752.07 (06051308) | 3772808.69 | 0.00638 | (06051308) | 385816.74 | 3772724.54 |
| 0.00886 | 385886.71 (06051308) | 3772645.70 | 0.00790 | (06051308) | 385952.26 | 3772579.27 |
| 0.01136 | 386020.46 (07021824) | 3772519.04 | 0.00998 | (06051308) | 386093.98 | 3772463.23 |
| 0.01981 | 386169.27 (06041108) | 3772410.97 | 0.01441 | (06041108) | 386248.11 | 3772359.60 |
| 0.04398 | 386328.71 (06041108) | 3772309.11 | 0.02878 | (06041108) | 386407.55 | 3772253.30 |
| 0.03900 | 387116.28 (07101324) | 3772187.40 | 0.04460 | (07111924) | 387141.00 | 3772141.51 |
| 0.03984 | 387201.01 (07111924) | 3772180.34 | 0.03212 | (07111924) | 387155.12 | 3772229.77 |
| 0.03434 | 386943.29 (06101508) | 3772540.45 | 0.03499 | (06101508) | 386925.64 | 3772582.82 |
| 0.06178 | 386526.69 (07122008) | 3770944.68 | 0.06246 | (06081708) | 386466.67 | 3770937.61 |
| 0.05203 | 386537.28 (06081708) | 3770884.66 | 0.05294 | (06081708) | 386480.80 | 3770881.13 |
| 0.01249 | 387374.01 (06103008) | 3771597.81 | 0.02763 | (06103108) | 384880.19 | 3771187.72 |
| 0.01256 | 384901.45 (07012808) | 3771161.15 | 0.01251 | (06103008) | 384909.41 | 3771118.65 |
| 0.01185 | 384912.07 (07012808) | 3771078.80 | 0.01224 | (07012808) | 384920.04 | 3771052.24 |

*** AERMOD - VERSION 09292 ***
 *** 11/23/10 ***
 *** 10:44:12 ***

*** Elysian
 *** Floating CO

PAGE 14

**MODELOPTs: RegDFAULT CONC

ELEV
 NODRYDPLT NOWETDPLT

SOURCE GROUP: ALL *** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR
 INCLUDING SOURCE(S): PAREA3 , PAREA4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF CO IN PPM

**

Floating Cover CO Unmitigated

| CONC | X-COORD (M) (YYMMDDHH) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) |
|---------|---------------------------|-------------|---------|------------|-------------|-------------|
| 0.12065 | 386476.85 (07122008) | 3771139.46 | 0.11982 | (07122008) | 386470.44 | 3771149.72 |
| 0.11597 | 386460.18 (07020208) | 3771159.97 | 0.11929 | (07122008) | 386449.29 | 3771172.79 |
| 0.12083 | 386440.31 (06020208) | 3771184.33 | 0.11848 | (06020208) | 386434.54 | 3771197.79 |
| 0.11422 | 386405.05 (06020208) | 3771244.59 | 0.11116 | (06020208) | 386409.54 | 3771235.61 |
| 0.11889 | 386416.59 (06020208) | 3771223.43 | 0.11735 | (06020208) | 386421.08 | 3771217.02 |
| 0.04428 | 386426.21 (07010408) | 3771209.97 | 0.12019 | (06020208) | 386274.28 | 3771299.72 |
| 0.04821 | 386278.77 (06020208) | 3771290.10 | 0.04441 | (06020508) | 386287.75 | 3771280.49 |
| 0.05906 | 386296.08 (06020208) | 3771269.59 | 0.05385 | (06020208) | 386303.13 | 3771259.33 |
| 0.07974 | 386340.31 (06020208) | 3771210.61 | 0.08563 | (06020208) | 386331.34 | 3771222.15 |
| 0.06577 | 386323.00 (06020208) | 3771233.69 | 0.07371 | (06020208) | 386312.75 | 3771248.43 |
| 0.07882 | 386415.31 (07020208) | 3771092.02 | 0.09186 | (07020208) | 386380.05 | 3771051.00 |
| 0.07835 | 386392.23 (07020208) | 3771050.36 | 0.08143 | (07020208) | 386374.29 | 3771063.18 |
| 0.09155 | 386402.49 (07020208) | 3771098.43 | 0.09076 | (07020208) | 386419.80 | 3771082.41 |
| 0.03028 | 386163.39 (06121608) | 3771763.82 | 0.02112 | (06122908) | 386081.33 | 3771480.49 |
| 0.02038 | 386103.77 (06032508) | 3771527.92 | 0.02541 | (06121608) | 386120.44 | 3771576.00 |
| 0.01931 | 386135.82 (06032508) | 3771613.82 | 0.02172 | (06032508) | 386146.72 | 3771651.64 |
| 0.02086 | 386156.33 (06122908) | 3771690.75 | 0.01855 | (07102108) | 386164.67 | 3771730.49 |
| 0.33883 | 386716.60 (07111824) | 3772090.11 | 0.28597 | (07060408) | 386705.70 | 3772082.42 |
| 0.38377 | 386714.67 (07111824) | 3772074.72 | 0.36099 | (07111824) | 386723.00 | 3772061.90 |
| 0.38331 | 386731.99 (07111824) | 3772036.90 | 0.36928 | (06080408) | 386728.13 | 3772051.01 |
| 0.31029 | 386737.11 (07060408) | 3772022.15 | 0.38404 | (07080308) | 386699.29 | 3772099.08 |
| 0.30743 | 386690.31 (07041324) | 3772107.42 | 0.30833 | (07060408) | 386682.62 | 3772113.83 |
| 0.32865 | 386674.29 (07031908) | 3772123.44 | 0.31611 | (07041324) | 386664.67 | 3772134.34 |
| 0.43276 | 386654.42 (07031908) | 3772145.24 | 0.33775 | (07031908) | 386605.70 | 3772127.29 |
| 0.23410 | 386590.95 (06051308) | 3772133.70 | 0.31792 | (07031908) | 386579.42 | 3772139.47 |
| 0.14265 | 386560.18 (06041108) | 3772147.16 | 0.17289 | (06041108) | 386545.44 | 3772154.85 |
| 0.10884 | 386533.26 (06051308) | 3772162.54 | 0.12233 | (06041108) | 386542.88 | 3772179.85 |
| 0.13046 | 386553.13 (07031908) | 3772195.88 | 0.12254 | (06051308) | 386568.52 | 3772208.70 |
| 0.24248 | 386581.98 (07031908) | 3772192.67 | 0.17997 | (07031908) | 386595.44 | 3772181.13 |
| 0.38188 | 386609.54 (07031908) | 3772168.95 | 0.31411 | (07031908) | 386624.29 | 3772152.29 |
| 0.32705 | 386619.16 (07031908) | 3772140.11 | 0.42631 | (07031908) | 386640.31 | 3772163.83 |
| 0.23664 | 386653.77 (07041324) | 3772174.72 | 0.27657 | (07031908) | 386665.95 | 3772186.26 |
| 0.18719 | 386677.49 (07041324) | 3772197.80 | 0.20978 | (07041324) | 386688.39 | 3772208.70 |

Floating Cover CO Unmitigated

| | | | | | | |
|--------------------------------|-------------------------|------------|-----------------|------------|-----------|------------|
| 0.05859 | 386701.21 (06041108) | 3772222.16 | 0.16226 | (07041324) | 386448.64 | 3772217.67 |
| 0.06608 | 386456.34 (06041108) | 3772212.55 | 0.06180 | (06041108) | 386465.31 | 3772206.13 |
| 0.07516 | 386474.29 (06041108) | 3772200.37 | 0.07063 | (06041108) | 386481.34 | 3772194.60 |
| 0.08708 | 386489.03 (06041108) | 3772190.11 | 0.07932 | (06041108) | 386499.29 | 3772183.06 |
| 0.10248 | 386507.62 (06041108) | 3772177.93 | 0.09398 | (06041108) | 386514.67 | 3772171.52 |
| 0.17788 | 386576.85 (07031908) | 3772219.60 | 0.14684 | (07031908) | 386586.47 | 3772209.34 |
| 0.26028 | 386597.36 (07031908) | 3772197.80 | 0.21950 | (07031908) | 386606.98 | 3772187.54 |
| *** AERMOD - VERSION 09292 *** | | | *** Elysian | | | |
| *** 11/23/10 | | | *** Floating CO | | | |
| *** 10:44:12 | | | | | | |

PAGE 15

**MODELOPTs: RegDFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

SOURCE GROUP: ALL *** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR
INCLUDING SOURCE(S): PAREA3 , PAREA4 ,
*** DISCRETE CARTESIAN RECEPTOR POINTS ***
** CONC OF CO IN PPM

| CONC | X-COORD (M) (YYMMDDHH) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) |
|---------|---------------------------|-------------|---------|------------|-------------|-------------|
| 0.38607 | 386620.44 (06082908) | 3772178.57 | 0.30149 | (07031908) | 386742.87 | 3772003.56 |
| 0.08646 | 386386.30 (07020208) | 3771087.29 | 0.08496 | (07020208) | 386399.28 | 3771081.52 |
| 0.00406 | 386409.38 (06120908) | 3771067.10 | 0.08709 | (07020208) | 385296.78 | 3773131.99 |
| 0.00402 | 385287.93 (06120908) | 3773147.05 | 0.00403 | (06120908) | 385283.50 | 3773159.45 |
| 0.00540 | 385576.69 (06051308) | 3773089.48 | 0.00527 | (06051308) | 385597.95 | 3773060.25 |
| 0.00553 | 385609.46 (06051308) | 3773037.22 | 0.00544 | (06051308) | 385629.84 | 3772997.36 |
| 0.00601 | 385654.64 (06051308) | 3772953.07 | 0.00565 | (06051308) | 385706.01 | 3772876.89 |
| 0.00702 | 385752.07 (06051308) | 3772808.69 | 0.00638 | (06051308) | 385816.74 | 3772724.54 |
| 0.00886 | 385886.71 (06051308) | 3772645.70 | 0.00790 | (06051308) | 385952.26 | 3772579.27 |
| 0.01136 | 386020.46 (07021824) | 3772519.04 | 0.00998 | (06051308) | 386093.98 | 3772463.23 |
| 0.01981 | 386169.27 (06041108) | 3772410.97 | 0.01441 | (06041108) | 386248.11 | 3772359.60 |
| 0.04398 | 386328.71 (06041108) | 3772309.11 | 0.02878 | (06041108) | 386407.55 | 3772253.30 |
| 0.03900 | 387116.28 (07101324) | 3772187.40 | 0.04460 | (07111924) | 387141.00 | 3772141.51 |
| 0.03984 | 387201.01 (07111924) | 3772180.34 | 0.03212 | (07111924) | 387155.12 | 3772229.77 |
| 0.03434 | 386943.29 (06101508) | 3772540.45 | 0.03499 | (06101508) | 386925.64 | 3772582.82 |
| 0.06178 | 386526.69 (07122008) | 3770944.68 | 0.06246 | (06081708) | 386466.67 | 3770937.61 |
| 0.05203 | 386537.28 (06081708) | 3770884.66 | 0.05294 | (06081708) | 386480.80 | 3770881.13 |

Floating Cover CO Unmitigated

DP = DISCPOLR
*** AERMOD - VERSION 09292 *** *** Elysian
*** 11/23/10
*** Floating CO
*** 10:44:12

PAGE 18

**MODELOPTs: RegDFault CONC

ELEV
NODRYDPLT NOWETDPLT

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

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

A Total of 0 Fatal Error Message(s)
A Total of 0 Warning Message(s)
A Total of 113 Informational Message(s)

A Total of 17520 Hours Were Processed

A Total of 0 Calm Hours Identified

A Total of 113 Missing Hours Identified (0.64 Percent)

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

***** WARNING MESSAGES *****
*** NONE ***

*** AERMOD Finishes Successfully ***

Floating Cover PM2.5 Mitigated

```
**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 6.7.1
** Lakes Environmental Software Inc.
** Date: 11/23/2010
** File: C:\Documents and Settings\jbailey\Desktop\Elysian Park AerMod\elysian\F_PM25M.ADI
**
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**
CO STARTING
  TITLEONE Elysian
  TITLETWO Floating PM25 Mitigated
  MODELOPT DFAULT CONC NODRYDPLT NOWETDPLT
  AVERTIME 24
  URBANOPT 9862049 LA
  POLLUTID PM.25
  RUNORNOT RUN
CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
  LOCATION PAREA3 AREAPOLY 386606.494 3771295.572 139.670
** DESCRSRC Reservoir
  LOCATION PAREA4 AREAPOLY 386596.536 3772117.718 96.500
** DESCRSRC Caltrans
  LOCATION AREA2 AREA 386602.251 3772074.114 96.950
  LOCATION AREA3 AREA 386514.382 3771483.886 154.350
** Source Parameters **
  SRCPARAM PAREA3 2.2134E-06 5.000 18
  AREAVERT PAREA3 386606.494 3771295.572 386560.430 3771386.706
  AREAVERT PAREA3 386502.641 3771467.538 386454.064 3771523.011
  AREAVERT PAREA3 386432.288 3771547.577 386455.739 3771575.313
  AREAVERT PAREA3 386485.890 3771583.238 386543.680 3771557.879
  AREAVERT PAREA3 386593.931 3771507.954 386619.057 3771483.387
  AREAVERT PAREA3 386650.046 3771442.179 386660.096 3771427.914
  AREAVERT PAREA3 386676.847 3771408.103 386688.572 3771388.291
  AREAVERT PAREA3 386676.847 3771361.347 386655.909 3771323.308
  AREAVERT PAREA3 386640.833 3771309.044 386614.032 3771295.572
  SRCPARAM PAREA4 8.1406E-06 5.000 14
  AREAVERT PAREA4 386596.536 3772117.718 386580.846 3772089.725
  AREAVERT PAREA4 386632.070 3772053.383 386637.838 3772051.173
  AREAVERT PAREA4 386652.144 3772050.928 386668.065 3772039.387
  AREAVERT PAREA4 386682.371 3772010.903 386693.678 3771992.977
  AREAVERT PAREA4 386695.985 3771989.049 386717.213 3771999.362
  AREAVERT PAREA4 386696.677 3772048.472 386683.525 3772065.170
  AREAVERT PAREA4 386672.219 3772075.974 386651.914 3772089.234
  SRCPARAM AREA2 0.0000189363 0.000 107.950 39.380 44.060 0.000
  SRCPARAM AREA3 0.0000244643 0.000 107.950 39.380 44.060 0.000
  URBANSRC PAREA3
  URBANSRC PAREA4
  URBANSRC AREA2
  URBANSRC AREA3
  SRCGROUP SRCGP1 PAREA4 PAREA3 AREA2 AREA3
  SRCGROUP ALL
SO FINISHED
**
*****
```

Floating Cover PM2.5 Mitigated

```
** AERMOD Receptor Pathway
*****
**
**
RE STARTING
  INCLUDED F_PM25M.rou
RE FINISHED
**
*****
** AERMOD Meteorology Pathway
*****
**
**
ME STARTING
  SURFFILE "L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\cela.SFC"
  PROFFILE "L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\cela.PFL"
  SURFDATA 0 2006
  UAIRDATA 3190 2006
  PROFBASE 10 METERS
ME FINISHED
**
*****
** AERMOD Output Pathway
*****
**
**
OU STARTING
  RECTABLE ALLAVE 1ST
  RECTABLE 24 1ST
** Auto-Generated Plotfiles
  PLOTFILE 24 ALL 1ST F_PM25M.AD\24H1GALL.PLT
  PLOTFILE 24 SRCGP1 1ST F_PM25M.AD\24H1G001.PLT
OU FINISHED

*****
*** SETUP Finishes Successfully ***
*****

*** AERMOD - VERSION 09292 ***      *** Elysian
***      11/23/10
***                                     *** Floating PM25 Mitigated
***      10:33:37

PAGE 1
**MODELOPTs:  RegDFault CONC
                                                    ELEV
                                                    NODRYDPLT NOWETDPLT
***      MODEL SETUP OPTIONS SUMMARY      ***
-----
**Model Is Setup For Calculation of Average CONCentration Values.

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

**Model Uses URBAN Dispersion Algorithm for the SBL for      4 Source(s),
for Total of      1 Urban Area(s):
Urban Population =  9862049.0 ; Urban Roughness Length =  1.000 m

**Model Uses Regulatory DEFAULT Options:
1. Stack-tip Downwash.
2. Model Accounts for ELEVated Terrain Effects.
3. Use Calms Processing Routine.
4. Use Missing Data Processing Routine.
5. No Exponential Decay for URBAN/Non-SO2.
6. Urban Roughness Length of 1.0 Meter Assumed.
```

Floating Cover PM2.5 Mitigated

**Model Assumes No FLAGPOLE Receptor Heights.
 **Model Calculates 1 Short Term Average(s) of: 24-HR
 **This Run Includes: 4 Source(s); 2 Source Group(s); and 120 Receptor(s)
 **The Model Assumes A Pollutant Type of: PM.25
 **Model Set To Continue RUNning After the Setup Testing.
 **Output Options Selected:
 Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
 Model Outputs External File(s) of High Values for Plotting (PLOTFILE 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) = 10.00 ; Decay Coef. = 0.000
 ; Rot. Angle = 0.0
 Emission Units = GRAMS/SEC ; Emission Rate
 Unit Factor = 0.10000E+07
 Output Units = MICROGRAMS/M**3

**Approximate Storage Requirements of Model = 3.5 MB of RAM.

*** AERMOD - VERSION 09292 *** *** Elysian
 *** 11/23/10
 *** Floating PM25 Mitigated
 *** 10:33:37

PAGE 2

**MODELOPTs: RegDFAULT CONC ELEV
 NODRYDPLT NOWETDPLT

*** AREA SOURCE DATA ***

| ORIENT. | INIT. | NUMBER URBAN EMISSION RATE | COORD (SW CORNER) | BASE | RELEASE | X-DIM | Y-DIM | |
|---------|----------|----------------------------|-------------------|----------|----------|----------|----------|----------|
| SOURCE | PART. | (GRAMS/SEC | X | Y | ELEV. | HEIGHT | OF AREA | OF AREA |
| AREA | SZ | SCALAR VARY | (METERS) | (METERS) | (METERS) | (METERS) | (METERS) | (METERS) |
| (DEG.) | (METERS) | BY | | | | | | |

| | | | | | | | | |
|-------|------|-------------|----------|-----------|-------|------|--------|-------|
| AREA2 | 0 | 0.18936E-04 | 386602.3 | 3772074.1 | 97.0 | 0.00 | 107.95 | 39.38 |
| 44.06 | 0.00 | YES | | | | | | |
| AREA3 | 0 | 0.24464E-04 | 386514.4 | 3771483.9 | 154.4 | 0.00 | 107.95 | 39.38 |
| 44.06 | 0.00 | YES | | | | | | |

*** AERMOD - VERSION 09292 *** *** Elysian
 *** 11/23/10
 *** Floating PM25 Mitigated
 *** 10:33:37

PAGE 3

**MODELOPTs: RegDFAULT CONC ELEV
 NODRYDPLT NOWETDPLT

*** AREAPOLY SOURCE DATA ***

| URBAN EMISSION RATE | NUMBER EMISSION RATE | LOCATION OF AREA | BASE | RELEASE | NUMBER | INIT. | | |
|---------------------|----------------------|------------------|----------|----------|----------|----------|-----------|----------|
| SOURCE | PART. | (GRAMS/SEC | X | Y | ELEV. | HEIGHT | OF VERTS. | SZ |
| SOURCE | SCALAR VARY | (METER**2) | (METERS) | (METERS) | (METERS) | (METERS) | (METERS) | (METERS) |
| ID | CATS. | BY | | | | | | |

Floating Cover PM2.5 Mitigated

```

-----
PAREA3      0  0.22134E-05  386606.5  3771295.6  139.7   5.00   18   0.00
YES
PAREA4      0  0.81406E-05  386596.5  3772117.7   96.5   5.00   14   0.00
YES
*** AERMOD - VERSION 09292 ***   *** Elysian
***      11/23/10
***      10:33:37
*** Floating PM25 Mitigated

```

PAGE 4

**MODELOPTs: RegDEFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID SOURCE IDs

SRCGP1 PAREA3 , PAREA4 , AREA2 , AREA3 ,

ALL PAREA3 , PAREA4 , AREA2 , AREA3 ,

```

*** AERMOD - VERSION 09292 ***   *** Elysian
***      11/23/10
***      10:33:37
*** Floating PM25 Mitigated

```

PAGE 5

**MODELOPTs: RegDEFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

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

```

( 386476.8, 3771139.5, 143.3, 181.0, 0.0); ( 386470.4, 3771149.7,
144.2, 181.0, 0.0);
( 386460.2, 3771160.0, 145.3, 181.0, 0.0); ( 386449.3, 3771172.8,
146.6, 181.0, 0.0);
( 386440.3, 3771184.3, 147.6, 181.0, 0.0); ( 386434.5, 3771197.8,
148.6, 181.0, 0.0);
( 386405.0, 3771244.6, 152.9, 181.0, 0.0); ( 386409.5, 3771235.6,
151.9, 181.0, 0.0);
( 386416.6, 3771223.4, 150.9, 181.0, 0.0); ( 386421.1, 3771217.0,
150.3, 181.0, 0.0);
( 386426.2, 3771210.0, 149.6, 181.0, 0.0); ( 386274.3, 3771299.7,
168.1, 181.0, 0.0);
( 386278.8, 3771290.1, 167.4, 181.0, 0.0); ( 386287.8, 3771280.5,
166.6, 181.0, 0.0);
( 386296.1, 3771269.6, 164.9, 181.0, 0.0); ( 386303.1, 3771259.3,
163.5, 181.0, 0.0);
( 386340.3, 3771210.6, 155.9, 181.0, 0.0); ( 386331.3, 3771222.1,
157.6, 181.0, 0.0);
( 386323.0, 3771233.7, 159.3, 181.0, 0.0); ( 386312.8, 3771248.4,
161.6, 181.0, 0.0);
( 386415.3, 3771092.0, 143.8, 181.0, 0.0); ( 386380.0, 3771051.0,
142.9, 164.0, 0.0);
( 386392.2, 3771050.4, 142.2, 181.0, 0.0); ( 386374.3, 3771063.2,
144.0, 164.0, 0.0);
( 386402.5, 3771098.4, 144.8, 181.0, 0.0); ( 386419.8, 3771082.4,
142.9, 181.0, 0.0);
( 386163.4, 3771763.8, 182.0, 182.0, 0.0); ( 386081.3, 3771480.5,
178.0, 178.0, 0.0);
( 386103.8, 3771527.9, 179.8, 179.8, 0.0); ( 386120.4, 3771576.0,
181.1, 181.1, 0.0);

```


Floating Cover PM2.5 Mitigated

| | | | | |
|------------------------|--------|--------|-------|------------------------|
| (386135.8, 3771613.8, | 182.0, | 182.0, | 0.0); | (386146.7, 3771651.6, |
| 182.0, 182.0, 0.0); | | | | |
| (386156.3, 3771690.8, | 182.0, | 182.0, | 0.0); | (386164.7, 3771730.5, |
| 182.0, 182.0, 0.0); | | | | |
| (386716.6, 3772090.1, | 93.4, | 182.0, | 0.0); | (386705.7, 3772082.4, |
| 93.0, 182.0, 0.0); | | | | |
| (386714.7, 3772074.7, | 93.3, | 182.0, | 0.0); | (386723.0, 3772061.9, |
| 93.7, 182.0, 0.0); | | | | |
| (386732.0, 3772036.9, | 94.0, | 182.0, | 0.0); | (386728.1, 3772051.0, |
| 93.9, 182.0, 0.0); | | | | |
| (386737.1, 3772022.1, | 94.2, | 182.0, | 0.0); | (386699.3, 3772099.1, |
| 92.7, 182.0, 0.0); | | | | |
| (386690.3, 3772107.4, | 92.4, | 182.0, | 0.0); | (386682.6, 3772113.8, |
| 92.1, 182.0, 0.0); | | | | |
| (386674.3, 3772123.4, | 92.3, | 182.0, | 0.0); | (386664.7, 3772134.3, |
| 92.8, 182.0, 0.0); | | | | |
| (386654.4, 3772145.2, | 93.1, | 182.0, | 0.0); | (386605.7, 3772127.3, |
| 95.6, 182.0, 0.0); | | | | |
| (386591.0, 3772133.7, | 96.5, | 182.0, | 0.0); | (386579.4, 3772139.5, |
| 97.2, 182.0, 0.0); | | | | |
| (386560.2, 3772147.2, | 98.4, | 182.0, | 0.0); | (386545.4, 3772154.8, |
| 99.0, 182.0, 0.0); | | | | |
| (386533.3, 3772162.5, | 99.5, | 182.0, | 0.0); | (386542.9, 3772179.8, |
| 98.2, 182.0, 0.0); | | | | |
| (386553.1, 3772195.9, | 96.9, | 182.0, | 0.0); | (386568.5, 3772208.7, |
| 95.5, 182.0, 0.0); | | | | |
| (386582.0, 3772192.7, | 95.3, | 182.0, | 0.0); | (386595.4, 3772181.1, |
| 94.8, 182.0, 0.0); | | | | |
| (386609.5, 3772168.9, | 94.5, | 182.0, | 0.0); | (386624.3, 3772152.3, |
| 94.3, 182.0, 0.0); | | | | |
| (386619.2, 3772140.1, | 94.7, | 182.0, | 0.0); | (386640.3, 3772163.8, |
| 93.5, 182.0, 0.0); | | | | |
| (386653.8, 3772174.7, | 93.0, | 182.0, | 0.0); | (386666.0, 3772186.3, |
| 92.7, 182.0, 0.0); | | | | |
| (386677.5, 3772197.8, | 92.5, | 182.0, | 0.0); | (386688.4, 3772208.7, |
| 92.8, 182.0, 0.0); | | | | |
| (386701.2, 3772222.2, | 93.5, | 182.0, | 0.0); | (386448.6, 3772217.7, |
| 102.7, 182.0, 0.0); | | | | |
| (386456.3, 3772212.5, | 102.4, | 182.0, | 0.0); | (386465.3, 3772206.1, |
| 102.1, 182.0, 0.0); | | | | |
| (386474.3, 3772200.4, | 101.8, | 182.0, | 0.0); | (386481.3, 3772194.6, |
| 101.5, 182.0, 0.0); | | | | |
| (386489.0, 3772190.1, | 101.2, | 182.0, | 0.0); | (386499.3, 3772183.1, |
| 100.9, 182.0, 0.0); | | | | |
| (386507.6, 3772177.9, | 100.5, | 182.0, | 0.0); | (386514.7, 3772171.5, |
| 100.3, 182.0, 0.0); | | | | |
| (386576.8, 3772219.6, | 94.6, | 182.0, | 0.0); | (386586.5, 3772209.3, |
| 94.4, 182.0, 0.0); | | | | |
| (386597.4, 3772197.8, | 94.2, | 182.0, | 0.0); | (386607.0, 3772187.5, |
| 94.0, 182.0, 0.0); | | | | |
| (386620.4, 3772178.6, | 93.9, | 182.0, | 0.0); | (386742.9, 3772003.6, |
| 94.5, 182.0, 0.0); | | | | |
| (386386.3, 3771087.3, | 144.9, | 181.0, | 0.0); | (386399.3, 3771081.5, |
| 143.9, 181.0, 0.0); | | | | |
| (386409.4, 3771067.1, | 142.4, | 181.0, | 0.0); | (385296.8, 3773132.0, |
| 117.7, 182.0, 0.0); | | | | |
| (385287.9, 3773147.0, | 117.7, | 182.0, | 0.0); | (385283.5, 3773159.4, |
| 117.2, 182.0, 0.0); | | | | |
| (385576.7, 3773089.5, | 103.9, | 182.0, | 0.0); | (385598.0, 3773060.2, |
| 104.0, 182.0, 0.0); | | | | |

*** AERMOD - VERSION 09292 ***
 *** 11/23/10
 *** 10:33:37

*** Elysian
 *** Floating PM25 Mitigated

PAGE 6
 **MODELOPTs: RegDFault CONC

ELEV
 NODRYDPLT NOWETDPLT

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

Floating Cover PM2.5 Mitigated

```

06 01 01 1 23 -36.1 0.645 -9.000 -9.000 -999. 1191. 673.0 0.65 1.00 1.00 5.90
82. 21.3 285.4 17.7
06 01 01 1 24 -35.3 0.633 -9.000 -9.000 -999. 1160. 649.7 0.65 1.00 1.00 5.80
84. 21.3 285.9 17.7
  
```

First hour of profile data

```

YR MO DY HR HEIGHT F WDIR WSPD AMB_TMP sigmaA sigmaW sigmaV
06 01 01 01 17.7 0 -999. -99.00 286.5 99.0 -99.00 -99.00
06 01 01 01 21.3 1 347. 0.70 -999.0 99.0 -99.00 -99.00
  
```

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

```

*** AERMOD - VERSION 09292 *** *** Elysian
*** 11/23/10
  
```

*** Floating PM25 Mitigated

```

*** 10:33:37
  
```

PAGE 9

**MODELOPTs: RegDFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

```

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR
SOURCE GROUP: SRCGP1 *** INCLUDING SOURCE(S): PAREA3 , PAREA4 , AREA2 , AREA3
  
```

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM.25 IN MICROGRAMS/M**3

**

| CONC | X-COORD (M) (YYMMDDHH) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) |
|----------|---------------------------|-------------|----------|------------|-------------|-------------|
| 14.61132 | 386476.85 (06121424) | 3771139.46 | 13.88241 | (06013124) | 386470.44 | 3771149.72 |
| 16.71236 | 386460.18 (06121424) | 3771159.97 | 15.82508 | (06121424) | 386449.29 | 3771172.79 |
| 18.89464 | 386440.31 (06011024) | 3771184.33 | 17.72887 | (06011024) | 386434.54 | 3771197.79 |
| 21.91514 | 386405.05 (07112824) | 3771244.59 | 21.70643 | (07112824) | 386409.54 | 3771235.61 |
| 21.15184 | 386416.59 (07112824) | 3771223.43 | 21.60811 | (07112824) | 386421.08 | 3771217.02 |
| 8.31161 | 386426.21 (07012224) | 3771209.97 | 20.38237 | (07112824) | 386274.28 | 3771299.72 |
| 9.49062 | 386278.77 (07012224) | 3771290.10 | 8.85618 | (07012224) | 386287.75 | 3771280.49 |
| 10.50414 | 386296.08 (06010924) | 3771269.59 | 9.98298 | (07012224) | 386303.13 | 3771259.33 |
| 15.10907 | 386340.31 (06010924) | 3771210.61 | 15.80967 | (06010824) | 386331.34 | 3771222.15 |
| 12.44066 | 386323.00 (06010924) | 3771233.69 | 14.17101 | (06010924) | 386312.75 | 3771248.43 |
| 10.42163 | 386415.31 (06011024) | 3771092.02 | 12.32115 | (06121424) | 386380.05 | 3771051.00 |
| 11.15721 | 386392.23 (06011024) | 3771050.36 | 10.65804 | (06121424) | 386374.29 | 3771063.18 |
| 12.05350 | 386402.49 (06121424) | 3771098.43 | 12.49109 | (06011024) | 386419.80 | 3771082.41 |
| 3.96525 | 386163.39 (06121624) | 3771763.82 | 2.43052 | (06122924) | 386081.33 | 3771480.49 |
| 2.78460 | 386103.77 (06032524) | 3771527.92 | 2.81697 | (06020224) | 386120.44 | 3771576.00 |
| 3.53577 | 386135.82 (07021824) | 3771613.82 | 2.76837 | (06010824) | 386146.72 | 3771651.64 |
| 2.38852 | 386156.33 (07112524) | 3771690.75 | 2.92516 | (07021824) | 386164.67 | 3771730.49 |
| 79.22902 | 386716.60 (06101524) | 3772090.11 | 63.39783 | (06101524) | 386705.70 | 3772082.42 |

Floating Cover PM2.5 Mitigated

| | | | | | | |
|----------|-------------------------|------------|----------|------------|-----------|------------|
| 68.29122 | 386714.67 (06050424) | 3772074.72 | 74.43316 | (06101524) | 386723.00 | 3772061.90 |
| 74.43265 | 386731.99 (06103124) | 3772036.90 | 79.12122 | (06103124) | 386728.13 | 3772051.01 |
| 68.18060 | 386737.11 (06101524) | 3772022.15 | 73.85918 | (07080324) | 386699.29 | 3772099.08 |
| 62.59407 | 386690.31 (07090224) | 3772107.42 | 62.71307 | (06101524) | 386682.62 | 3772113.83 |
| 60.17378 | 386674.29 (06072524) | 3772123.44 | 62.02703 | (07090624) | 386664.67 | 3772134.34 |
| 44.78373 | 386654.42 (07031824) | 3772145.24 | 58.24561 | (06072524) | 386605.70 | 3772127.29 |
| 23.33054 | 386590.95 (06042724) | 3772133.70 | 29.52441 | (06042724) | 386579.42 | 3772139.47 |
| 13.52469 | 386560.18 (06041124) | 3772147.16 | 16.54679 | (06042724) | 386545.44 | 3772154.85 |
| 11.05736 | 386533.26 (06042724) | 3772162.54 | 11.87931 | (06041124) | 386542.88 | 3772179.85 |
| 12.26640 | 386553.13 (06051324) | 3772195.88 | 11.08467 | (06051324) | 386568.52 | 3772208.70 |
| 21.18381 | 386581.98 (07031824) | 3772192.67 | 15.28733 | (07031824) | 386595.44 | 3772181.13 |
| 49.68554 | 386609.54 (07031924) | 3772168.95 | 30.67696 | (07031924) | 386624.29 | 3772152.29 |
| 47.10939 | 386619.16 (07031924) | 3772140.11 | 53.18088 | (07031924) | 386640.31 | 3772163.83 |
| 40.22604 | 386653.77 (06072524) | 3772174.72 | 44.18859 | (06072524) | 386665.95 | 3772186.26 |
| 31.90719 | 386677.49 (06072524) | 3772197.80 | 35.88934 | (06072524) | 386688.39 | 3772208.70 |
| 5.76206 | 386701.21 (06041124) | 3772222.16 | 27.21351 | (06072524) | 386448.64 | 3772217.67 |
| 6.54630 | 386456.34 (06041124) | 3772212.55 | 6.10573 | (06041124) | 386465.31 | 3772206.13 |
| 7.47116 | 386474.29 (06041124) | 3772200.37 | 7.02609 | (06041124) | 386481.34 | 3772194.60 |
| 8.69788 | 386489.03 (06041124) | 3772190.11 | 7.94039 | (06041124) | 386499.29 | 3772183.06 |
| 10.13199 | 386507.62 (06041124) | 3772177.93 | 9.36150 | (06041124) | 386514.67 | 3772171.52 |
| 15.05783 | 386576.85 (07031824) | 3772219.60 | 12.23742 | (07031824) | 386586.47 | 3772209.34 |
| 24.96825 | 386597.36 (07031924) | 3772197.80 | 19.45228 | (07031824) | 386606.98 | 3772187.54 |

*** AERMOD - VERSION 09292 ***
 *** 11/23/10
 *** 10:33:37

*** Elysian
 *** Floating PM25 Mitigated

PAGE 10

**MODELOPTs: RegDFault CONC

ELEV
 NODRYDPLT NOWETDPLT

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: SRCGP1 ***
 INCLUDING SOURCE(S): PAREA3 , PAREA4 , AREA2 , AREA3

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM.25 IN MICROGRAMS/M**3

**

| CONC | X-COORD (M) (YYMMDDHH) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) |
|----------|---------------------------|-------------|----------|------------|-------------|-------------|
| 57.35635 | 386620.44 (07080324) | 3772178.57 | 35.19470 | (07031924) | 386742.87 | 3772003.56 |
| 11.58015 | 386386.30 (06121424) | 3771087.29 | 12.27244 | (06011024) | 386399.28 | 3771081.52 |

Floating Cover PM2.5 Mitigated

| | | | | | | |
|---------|-------------------------|------------|----------|------------|-----------|------------|
| 0.39299 | 386409.38 (06120924) | 3771067.10 | 11.43656 | (06121424) | 385296.78 | 3773131.99 |
| 0.40232 | 385287.93 (06120924) | 3773147.05 | 0.39632 | (06120924) | 385283.50 | 3773159.45 |
| 0.45919 | 385576.69 (07080524) | 3773089.48 | 0.45297 | (07080524) | 385597.95 | 3773060.25 |
| 0.46377 | 385609.46 (06120924) | 3773037.22 | 0.45679 | (07080524) | 385629.84 | 3772997.36 |
| 0.56141 | 385654.64 (06120924) | 3772953.07 | 0.50565 | (06120924) | 385706.01 | 3772876.89 |
| 0.63016 | 385752.07 (06120924) | 3772808.69 | 0.60152 | (06120924) | 385816.74 | 3772724.54 |
| 0.88531 | 385886.71 (07102124) | 3772645.70 | 0.72894 | (07102124) | 385952.26 | 3772579.27 |
| 1.31144 | 386020.46 (07102124) | 3772519.04 | 1.08584 | (07102124) | 386093.98 | 3772463.23 |
| 1.73895 | 386169.27 (06041124) | 3772410.97 | 1.44841 | (07102124) | 386248.11 | 3772359.60 |
| 4.28745 | 386328.71 (06041124) | 3772309.11 | 2.65895 | (06041124) | 386407.55 | 3772253.30 |
| 5.99350 | 387116.28 (06051624) | 3772187.40 | 5.60768 | (06101524) | 387141.00 | 3772141.51 |
| 4.67504 | 387201.01 (06101524) | 3772180.34 | 4.31012 | (07082424) | 387155.12 | 3772229.77 |
| 3.68421 | 386943.29 (06101524) | 3772540.45 | 3.68077 | (06101524) | 386925.64 | 3772582.82 |
| 6.92539 | 386526.69 (06111224) | 3770944.68 | 5.49807 | (06111224) | 386466.67 | 3770937.61 |
| 5.53700 | 386537.28 (06111224) | 3770884.66 | 4.23357 | (07092524) | 386480.80 | 3770881.13 |
| 1.23001 | 387374.01 (06103024) | 3771597.81 | 3.22517 | (07080324) | 384880.19 | 3771187.72 |
| 1.21270 | 384901.45 (07012824) | 3771161.15 | 1.20939 | (06103024) | 384909.41 | 3771118.65 |
| 1.06289 | 384912.07 (07012824) | 3771078.80 | 1.13995 | (07012824) | 384920.04 | 3771052.24 |

*** AERMOD - VERSION 09292 ***
 *** 11/23/10
 *** 10:33:37

*** Elysian
 *** Floating PM25 Mitigated

PAGE 11

**MODELOPTs: RegDFAULT CONC

ELEV
 NODRYDPLT NOWETDPLT

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): PAREA3 , PAREA4 , AREA2 , AREA3

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM.25 IN MICROGRAMS/M**3

| CONC | X-COORD (M) (YYMMDDHH) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) |
|----------|---------------------------|-------------|----------|------------|-------------|-------------|
| 14.61132 | 386476.85 (06121424) | 3771139.46 | 13.88241 | (06013124) | 386470.44 | 3771149.72 |
| 16.71236 | 386460.18 (06121424) | 3771159.97 | 15.82508 | (06121424) | 386449.29 | 3771172.79 |
| 18.89464 | 386440.31 (06011024) | 3771184.33 | 17.72887 | (06011024) | 386434.54 | 3771197.79 |
| 21.91514 | 386405.05 (07112824) | 3771244.59 | 21.70643 | (07112824) | 386409.54 | 3771235.61 |
| 21.15184 | 386416.59 (07112824) | 3771223.43 | 21.60811 | (07112824) | 386421.08 | 3771217.02 |
| 8.31161 | 386426.21 (07012224) | 3771209.97 | 20.38237 | (07112824) | 386274.28 | 3771299.72 |

Floating Cover PM2.5 Mitigated

| | | | | | |
|--------------------------------|------------|-------------|------------|-----------|------------|
| 386278.77 | 3771290.10 | 8.85618 | (07012224) | 386287.75 | 3771280.49 |
| 9.49062 | (07012224) | | | | |
| 386296.08 | 3771269.59 | 9.98298 | (07012224) | 386303.13 | 3771259.33 |
| 10.50414 | (06010924) | | | | |
| 386340.31 | 3771210.61 | 15.80967 | (06010824) | 386331.34 | 3771222.15 |
| 15.10907 | (06010924) | | | | |
| 386323.00 | 3771233.69 | 14.17101 | (06010924) | 386312.75 | 3771248.43 |
| 12.44066 | (06010924) | | | | |
| 386415.31 | 3771092.02 | 12.32115 | (06121424) | 386380.05 | 3771051.00 |
| 10.42163 | (06011024) | | | | |
| 386392.23 | 3771050.36 | 10.65804 | (06121424) | 386374.29 | 3771063.18 |
| 11.15721 | (06011024) | | | | |
| 386402.49 | 3771098.43 | 12.49109 | (06011024) | 386419.80 | 3771082.41 |
| 12.05350 | (06121424) | | | | |
| 386163.39 | 3771763.82 | 2.43052 | (06122924) | 386081.33 | 3771480.49 |
| 3.96525 | (06121624) | | | | |
| 386103.77 | 3771527.92 | 2.81697 | (06020224) | 386120.44 | 3771576.00 |
| 2.78460 | (06032524) | | | | |
| 386135.82 | 3771613.82 | 2.76837 | (06010824) | 386146.72 | 3771651.64 |
| 3.53577 | (07021824) | | | | |
| 386156.33 | 3771690.75 | 2.92516 | (07021824) | 386164.67 | 3771730.49 |
| 2.38852 | (07112524) | | | | |
| 386716.60 | 3772090.11 | 63.39783 | (06101524) | 386705.70 | 3772082.42 |
| 79.22902 | (06101524) | | | | |
| 386714.67 | 3772074.72 | 74.43316 | (06101524) | 386723.00 | 3772061.90 |
| 68.29122 | (06050424) | | | | |
| 386731.99 | 3772036.90 | 79.12122 | (06103124) | 386728.13 | 3772051.01 |
| 74.43265 | (06103124) | | | | |
| 386737.11 | 3772022.15 | 73.85918 | (07080324) | 386699.29 | 3772099.08 |
| 68.18060 | (06101524) | | | | |
| 386690.31 | 3772107.42 | 62.71307 | (06101524) | 386682.62 | 3772113.83 |
| 62.59407 | (07090224) | | | | |
| 386674.29 | 3772123.44 | 62.02703 | (07090624) | 386664.67 | 3772134.34 |
| 60.17378 | (06072524) | | | | |
| 386654.42 | 3772145.24 | 58.24561 | (06072524) | 386605.70 | 3772127.29 |
| 44.78373 | (07031824) | | | | |
| 386590.95 | 3772133.70 | 29.52441 | (06042724) | 386579.42 | 3772139.47 |
| 23.33054 | (06042724) | | | | |
| 386560.18 | 3772147.16 | 16.54679 | (06042724) | 386545.44 | 3772154.85 |
| 13.52469 | (06041124) | | | | |
| 386533.26 | 3772162.54 | 11.87931 | (06041124) | 386542.88 | 3772179.85 |
| 11.05736 | (06042724) | | | | |
| 386553.13 | 3772195.88 | 11.08467 | (06051324) | 386568.52 | 3772208.70 |
| 12.26640 | (06051324) | | | | |
| 386581.98 | 3772192.67 | 15.28733 | (07031824) | 386595.44 | 3772181.13 |
| 21.18381 | (07031824) | | | | |
| 386609.54 | 3772168.95 | 30.67696 | (07031924) | 386624.29 | 3772152.29 |
| 49.68554 | (07031924) | | | | |
| 386619.16 | 3772140.11 | 53.18088 | (07031924) | 386640.31 | 3772163.83 |
| 47.10939 | (07031924) | | | | |
| 386653.77 | 3772174.72 | 44.18859 | (06072524) | 386665.95 | 3772186.26 |
| 40.22604 | (06072524) | | | | |
| 386677.49 | 3772197.80 | 35.88934 | (06072524) | 386688.39 | 3772208.70 |
| 31.90719 | (06072524) | | | | |
| 386701.21 | 3772222.16 | 27.21351 | (06072524) | 386448.64 | 3772217.67 |
| 5.76206 | (06041124) | | | | |
| 386456.34 | 3772212.55 | 6.10573 | (06041124) | 386465.31 | 3772206.13 |
| 6.54630 | (06041124) | | | | |
| 386474.29 | 3772200.37 | 7.02609 | (06041124) | 386481.34 | 3772194.60 |
| 7.47116 | (06041124) | | | | |
| 386489.03 | 3772190.11 | 7.94039 | (06041124) | 386499.29 | 3772183.06 |
| 8.69788 | (06041124) | | | | |
| 386507.62 | 3772177.93 | 9.36150 | (06041124) | 386514.67 | 3772171.52 |
| 10.13199 | (06041124) | | | | |
| 386576.85 | 3772219.60 | 12.23742 | (07031824) | 386586.47 | 3772209.34 |
| 15.05783 | (07031824) | | | | |
| 386597.36 | 3772197.80 | 19.45228 | (07031824) | 386606.98 | 3772187.54 |
| 24.96825 | (07031924) | | | | |
| *** AERMOD - VERSION 09292 *** | | *** Elysian | | | |
| *** | 11/23/10 | | | | |

Floating Cover PM2.5 Mitigated

*** Floating PM25 Mitigated

*** 10:33:37

PAGE 12

**MODELOPTs: RegDFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

SOURCE GROUP: ALL *** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR
INCLUDING SOURCE(S): PAREA3 , PAREA4 , AREA2 , AREA3

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM.25 IN MICROGRAMS/M**3

**

| CONC | X-COORD (M) (YYMMDDHH) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) |
|----------|---------------------------|-------------|----------|------------|-------------|-------------|
| 57.35635 | 386620.44 (07080324) | 3772178.57 | 35.19470 | (07031924) | 386742.87 | 3772003.56 |
| 11.58015 | 386386.30 (06121424) | 3771087.29 | 12.27244 | (06011024) | 386399.28 | 3771081.52 |
| 0.39299 | 386409.38 (06120924) | 3771067.10 | 11.43656 | (06121424) | 385296.78 | 3773131.99 |
| 0.40232 | 385287.93 (06120924) | 3773147.05 | 0.39632 | (06120924) | 385283.50 | 3773159.45 |
| 0.45919 | 385576.69 (07080524) | 3773089.48 | 0.45297 | (07080524) | 385597.95 | 3773060.25 |
| 0.46377 | 385609.46 (06120924) | 3773037.22 | 0.45679 | (07080524) | 385629.84 | 3772997.36 |
| 0.56141 | 385654.64 (06120924) | 3772953.07 | 0.50565 | (06120924) | 385706.01 | 3772876.89 |
| 0.63016 | 385752.07 (06120924) | 3772808.69 | 0.60152 | (06120924) | 385816.74 | 3772724.54 |
| 0.88531 | 385886.71 (07102124) | 3772645.70 | 0.72894 | (07102124) | 385952.26 | 3772579.27 |
| 1.31144 | 386020.46 (07102124) | 3772519.04 | 1.08584 | (07102124) | 386093.98 | 3772463.23 |
| 1.73895 | 386169.27 (06041124) | 3772410.97 | 1.44841 | (07102124) | 386248.11 | 3772359.60 |
| 4.28745 | 386328.71 (06041124) | 3772309.11 | 2.65895 | (06041124) | 386407.55 | 3772253.30 |
| 5.99350 | 387116.28 (06051624) | 3772187.40 | 5.60768 | (06101524) | 387141.00 | 3772141.51 |
| 4.67504 | 387201.01 (06101524) | 3772180.34 | 4.31012 | (07082424) | 387155.12 | 3772229.77 |
| 3.68421 | 386943.29 (06101524) | 3772540.45 | 3.68077 | (06101524) | 386925.64 | 3772582.82 |
| 6.92539 | 386526.69 (06111224) | 3770944.68 | 5.49807 | (06111224) | 386466.67 | 3770937.61 |
| 5.53700 | 386537.28 (06111224) | 3770884.66 | 4.23357 | (07092524) | 386480.80 | 3770881.13 |
| 1.23001 | 387374.01 (06103024) | 3771597.81 | 3.22517 | (07080324) | 384880.19 | 3771187.72 |
| 1.21270 | 384901.45 (07012824) | 3771161.15 | 1.20939 | (06103024) | 384909.41 | 3771118.65 |
| 1.06289 | 384912.07 (07012824) | 3771078.80 | 1.13995 | (07012824) | 384920.04 | 3771052.24 |

*** AERMOD - VERSION 09292 ***
*** 11/23/10

*** Elysian
*** Floating PM25 Mitigated

*** 10:33:37

PAGE 13

**MODELOPTs: RegDFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

*** THE SUMMARY OF HIGHEST 24-HR RESULTS ***

Floating Cover PM2.5 Mitigated

```

**
** CONC OF PM.25 IN MICROGRAMS/M**3
**
NETWORK
GROUP ID AVERAGE CONC DATE RECEPTOR (XR, YR,
ZELEV, ZHILL, ZFLAG) OF TYPE GRID-ID
-----
SRCGP1 HIGH 1ST HIGH VALUE IS 79.22902 ON 06101524: AT ( 386705.70, 3772082.42,
92.99, 182.00, 0.00) DC
ALL HIGH 1ST HIGH VALUE IS 79.22902 ON 06101524: AT ( 386705.70, 3772082.42,
92.99, 182.00, 0.00) DC

```

```

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

```

```

*** AERMOD - VERSION 09292 *** *** Elysian
*** 11/23/10
*** 10:33:37
*** Floating PM25 Mitigated

```

PAGE 14

**MODELOPTs: RegDFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

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

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

```

A Total of 0 Fatal Error Message(s)
A Total of 0 Warning Message(s)
A Total of 113 Informational Message(s)
A Total of 17520 Hours Were Processed
A Total of 0 Calm Hours Identified
A Total of 113 Missing Hours Identified ( 0.64 Percent)

```

```

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

```

```

***** WARNING MESSAGES *****
*** NONE ***

```

```

*****
*** AERMOD Finishes Successfully ***
*****

```

Floating Cover PM10 Mitigated

```
**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 6.7.1
** Lakes Environmental Software Inc.
** Date: 11/23/2010
** File: C:\Documents and Settings\jbailey\Desktop\Elysian Park AerMod\elysian\F_PM10M.ADI
**
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**
CO STARTING
  TITLEONE Elysian
  TITLETWO Floating PM10 Mitigated
  MODELOPT DFAULT CONC NODRYDPLT NOWETDPLT
  AVERTIME 24
  URBANOPT 9862049 LA
  POLLUTID PM.10
  RUNORNOT RUN
CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
  LOCATION PAREA3 AREAPOLY 386606.494 3771295.572 139.670
** DESCRSRC Reservoir
  LOCATION PAREA4 AREAPOLY 386596.536 3772117.718 96.500
** DESCRSRC Caltrans
  LOCATION AREA2 AREA 386602.251 3772074.114 96.950
  LOCATION AREA3 AREA 386514.382 3771483.886 154.350
** Source Parameters **
  SRCPARAM PAREA3 2.4071E-06 5.000 18
  AREAVERT PAREA3 386606.494 3771295.572 386560.430 3771386.706
  AREAVERT PAREA3 386502.641 3771467.538 386454.064 3771523.011
  AREAVERT PAREA3 386432.288 3771547.577 386455.739 3771575.313
  AREAVERT PAREA3 386485.890 3771583.238 386543.680 3771557.879
  AREAVERT PAREA3 386593.931 3771507.954 386619.057 3771483.387
  AREAVERT PAREA3 386650.046 3771442.179 386660.096 3771427.914
  AREAVERT PAREA3 386676.847 3771408.103 386688.572 3771388.291
  AREAVERT PAREA3 386676.847 3771361.347 386655.909 3771323.308
  AREAVERT PAREA3 386640.833 3771309.044 386614.032 3771295.572
  SRCPARAM PAREA4 8.842E-06 5.000 14
  AREAVERT PAREA4 386596.536 3772117.718 386580.846 3772089.725
  AREAVERT PAREA4 386632.070 3772053.383 386637.838 3772051.173
  AREAVERT PAREA4 386652.144 3772050.928 386668.065 3772039.387
  AREAVERT PAREA4 386682.371 3772010.903 386693.678 3771992.977
  AREAVERT PAREA4 386695.985 3771989.049 386717.213 3771999.362
  AREAVERT PAREA4 386696.677 3772048.472 386683.525 3772065.170
  AREAVERT PAREA4 386672.219 3772075.974 386651.914 3772089.234
  SRCPARAM AREA2 0.0000915057 0.000 107.950 39.380 44.060 0.000
  SRCPARAM AREA3 0.0001115006 0.000 107.950 39.380 44.060 0.000
  URBANSRC PAREA3
  URBANSRC PAREA4
  URBANSRC AREA2
  URBANSRC AREA3
  SRCGROUP SRCGP1 PAREA4 PAREA3 AREA2 AREA3
  SRCGROUP ALL
SO FINISHED
**
*****
```

Floating Cover PM10 Mitigated

```
** AERMOD Receptor Pathway
*****
**
**
RE STARTING
  INCLUDED F_PM10M.rou
RE FINISHED
**
*****
** AERMOD Meteorology Pathway
*****
**
**
ME STARTING
  SURFFILE "L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\cela.SFC"
  PROFFILE "L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\cela.PFL"
  SURFDATA 0 2006
  UAIRDATA 3190 2006
  PROFBASE 10 METERS
ME FINISHED
**
*****
** AERMOD Output Pathway
*****
**
**
OU STARTING
  RECTABLE ALLAVE 1ST
  RECTABLE 24 1ST
** Auto-Generated Plotfiles
  PLOTFILE 24 ALL 1ST F_PM10M.AD\24H1GALL.PLT
  PLOTFILE 24 SRCGP1 1ST F_PM10M.AD\24H1G001.PLT
OU FINISHED

*****
*** SETUP Finishes Successfully ***
*****

*** AERMOD - VERSION 09292 ***      *** Elysian
***      11/23/10
***                                     *** Floating PM10 Mitigated
***      10:23:33

PAGE 1
**MODELOPTs:  RegDFault CONC
                                                    ELEV
                                                    NODRYDPLT NOWETDPLT

***      MODEL SETUP OPTIONS SUMMARY      ***
-----
**Model Is Setup For Calculation of Average CONCentration Values.

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

**Model Uses URBAN Dispersion Algorithm for the SBL for      4 Source(s),
for Total of      1 Urban Area(s):
Urban Population =  9862049.0 ; Urban Roughness Length =  1.000 m

**Model Uses Regulatory DEFAULT Options:
1. Stack-tip Downwash.
2. Model Accounts for ELEVated Terrain Effects.
3. Use Calms Processing Routine.
4. Use Missing Data Processing Routine.
5. No Exponential Decay for URBAN/Non-SO2.
6. Urban Roughness Length of 1.0 Meter Assumed.
```

Floating Cover PM10 Mitigated

**Model Assumes No FLAGPOLE Receptor Heights.
 **Model Calculates 1 Short Term Average(s) of: 24-HR
 **This Run Includes: 4 Source(s); 2 Source Group(s); and 120 Receptor(s)
 **The Model Assumes A Pollutant Type of: PM.10
 **Model Set To Continue RUNning After the Setup Testing.
 **Output Options Selected:
 Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
 Model Outputs External File(s) of High Values for Plotting (PLOTFILE 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) = 10.00 ; Decay Coef. = 0.000
 ; Rot. Angle = 0.0
 Emission Units = GRAMS/SEC ; Emission Rate
 Unit Factor = 0.10000E+07
 Output Units = MICROGRAMS/M**3

**Approximate Storage Requirements of Model = 3.5 MB of RAM.

*** AERMOD - VERSION 09292 *** *** Elysian
 *** 11/23/10 *** Floating PM10 Mitigated
 *** 10:23:33

PAGE 2

**MODELOPTs: RegDFAULT CONC ELEV
 NODRYDPLT NOWETDPLT

*** AREA SOURCE DATA ***

| ORIENT. | INIT. | NUMBER URBAN EMISSION RATE | COORD (SW CORNER) | BASE | RELEASE | X-DIM | Y-DIM | |
|---------|----------|----------------------------|-------------------|----------|----------|----------|----------|----------|
| SOURCE | PART. | (GRAMS/SEC | X | Y | ELEV. | HEIGHT | OF AREA | OF AREA |
| AREA | SZ | SCALAR VARY | (METERS) | (METERS) | (METERS) | (METERS) | (METERS) | (METERS) |
| (DEG.) | (METERS) | BY | | | | | | |

| | | | | | | | | |
|-------|------|-------------|----------|-----------|-------|------|--------|-------|
| AREA2 | 0 | 0.91506E-04 | 386602.3 | 3772074.1 | 97.0 | 0.00 | 107.95 | 39.38 |
| 44.06 | 0.00 | YES | | | | | | |
| AREA3 | 0 | 0.11150E-03 | 386514.4 | 3771483.9 | 154.4 | 0.00 | 107.95 | 39.38 |
| 44.06 | 0.00 | YES | | | | | | |

*** AERMOD - VERSION 09292 *** *** Elysian
 *** 11/23/10 *** Floating PM10 Mitigated
 *** 10:23:33

PAGE 3

**MODELOPTs: RegDFAULT CONC ELEV
 NODRYDPLT NOWETDPLT

*** AREAPOLY SOURCE DATA ***

| URBAN | EMISSION RATE | NUMBER | EMISSION RATE | LOCATION OF AREA | BASE | RELEASE | NUMBER | INIT. |
|--------|---------------|------------|---------------|------------------|----------|----------|-----------|----------|
| SOURCE | PART. | (GRAMS/SEC | X | Y | ELEV. | HEIGHT | OF VERTS. | SZ |
| SOURCE | SCALAR VARY | (METERS) | (METERS) | (METERS) | (METERS) | (METERS) | (METERS) | (METERS) |
| BY | ID | CATS. | /METER**2) | (METERS) | (METERS) | (METERS) | (METERS) | (METERS) |

Floating Cover PM10 Mitigated

```

-----
PAREA3      0  0.24071E-05  386606.5  3771295.6  139.7    5.00    18      0.00
YES
PAREA4      0  0.88420E-05  386596.5  3772117.7    96.5    5.00    14      0.00
YES
*** AERMOD - VERSION 09292 ***    *** Elysian
***      11/23/10
***      10:23:33
*** Floating PM10 Mitigated

```

PAGE 4

**MODELOPTs: RegDEFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID SOURCE IDs

SRCGP1 PAREA3 , PAREA4 , AREA2 , AREA3 ,

ALL PAREA3 , PAREA4 , AREA2 , AREA3 ,

```

*** AERMOD - VERSION 09292 ***    *** Elysian
***      11/23/10
***      10:23:33
*** Floating PM10 Mitigated

```

PAGE 5

**MODELOPTs: RegDEFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

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

```

( 386476.8, 3771139.5, 143.3, 181.0, 0.0); ( 386470.4, 3771149.7,
144.2, 181.0, 0.0);
( 386460.2, 3771160.0, 145.3, 181.0, 0.0); ( 386449.3, 3771172.8,
146.6, 181.0, 0.0);
( 386440.3, 3771184.3, 147.6, 181.0, 0.0); ( 386434.5, 3771197.8,
148.6, 181.0, 0.0);
( 386405.0, 3771244.6, 152.9, 181.0, 0.0); ( 386409.5, 3771235.6,
151.9, 181.0, 0.0);
( 386416.6, 3771223.4, 150.9, 181.0, 0.0); ( 386421.1, 3771217.0,
150.3, 181.0, 0.0);
( 386426.2, 3771210.0, 149.6, 181.0, 0.0); ( 386274.3, 3771299.7,
168.1, 181.0, 0.0);
( 386278.8, 3771290.1, 167.4, 181.0, 0.0); ( 386287.8, 3771280.5,
166.6, 181.0, 0.0);
( 386296.1, 3771269.6, 164.9, 181.0, 0.0); ( 386303.1, 3771259.3,
163.5, 181.0, 0.0);
( 386340.3, 3771210.6, 155.9, 181.0, 0.0); ( 386331.3, 3771222.1,
157.6, 181.0, 0.0);
( 386323.0, 3771233.7, 159.3, 181.0, 0.0); ( 386312.8, 3771248.4,
161.6, 181.0, 0.0);
( 386415.3, 3771092.0, 143.8, 181.0, 0.0); ( 386380.0, 3771051.0,
142.9, 164.0, 0.0);
( 386392.2, 3771050.4, 142.2, 181.0, 0.0); ( 386374.3, 3771063.2,
144.0, 164.0, 0.0);
( 386402.5, 3771098.4, 144.8, 181.0, 0.0); ( 386419.8, 3771082.4,
142.9, 181.0, 0.0);
( 386163.4, 3771763.8, 182.0, 182.0, 0.0); ( 386081.3, 3771480.5,
178.0, 178.0, 0.0);
( 386103.8, 3771527.9, 179.8, 179.8, 0.0); ( 386120.4, 3771576.0,
181.1, 181.1, 0.0);

```

Floating Cover PM10 Mitigated

| | | | | |
|------------------------|--------|--------|-------|------------------------|
| (386135.8, 3771613.8, | 182.0, | 182.0, | 0.0); | (386146.7, 3771651.6, |
| 182.0, 182.0, 0.0); | | | | |
| (386156.3, 3771690.8, | 182.0, | 182.0, | 0.0); | (386164.7, 3771730.5, |
| 182.0, 182.0, 0.0); | | | | |
| (386716.6, 3772090.1, | 93.4, | 182.0, | 0.0); | (386705.7, 3772082.4, |
| 93.0, 182.0, 0.0); | | | | |
| (386714.7, 3772074.7, | 93.3, | 182.0, | 0.0); | (386723.0, 3772061.9, |
| 93.7, 182.0, 0.0); | | | | |
| (386732.0, 3772036.9, | 94.0, | 182.0, | 0.0); | (386728.1, 3772051.0, |
| 93.9, 182.0, 0.0); | | | | |
| (386737.1, 3772022.1, | 94.2, | 182.0, | 0.0); | (386699.3, 3772099.1, |
| 92.7, 182.0, 0.0); | | | | |
| (386690.3, 3772107.4, | 92.4, | 182.0, | 0.0); | (386682.6, 3772113.8, |
| 92.1, 182.0, 0.0); | | | | |
| (386674.3, 3772123.4, | 92.3, | 182.0, | 0.0); | (386664.7, 3772134.3, |
| 92.8, 182.0, 0.0); | | | | |
| (386654.4, 3772145.2, | 93.1, | 182.0, | 0.0); | (386605.7, 3772127.3, |
| 95.6, 182.0, 0.0); | | | | |
| (386591.0, 3772133.7, | 96.5, | 182.0, | 0.0); | (386579.4, 3772139.5, |
| 97.2, 182.0, 0.0); | | | | |
| (386560.2, 3772147.2, | 98.4, | 182.0, | 0.0); | (386545.4, 3772154.8, |
| 99.0, 182.0, 0.0); | | | | |
| (386533.3, 3772162.5, | 99.5, | 182.0, | 0.0); | (386542.9, 3772179.8, |
| 98.2, 182.0, 0.0); | | | | |
| (386553.1, 3772195.9, | 96.9, | 182.0, | 0.0); | (386568.5, 3772208.7, |
| 95.5, 182.0, 0.0); | | | | |
| (386582.0, 3772192.7, | 95.3, | 182.0, | 0.0); | (386595.4, 3772181.1, |
| 94.8, 182.0, 0.0); | | | | |
| (386609.5, 3772168.9, | 94.5, | 182.0, | 0.0); | (386624.3, 3772152.3, |
| 94.3, 182.0, 0.0); | | | | |
| (386619.2, 3772140.1, | 94.7, | 182.0, | 0.0); | (386640.3, 3772163.8, |
| 93.5, 182.0, 0.0); | | | | |
| (386653.8, 3772174.7, | 93.0, | 182.0, | 0.0); | (386666.0, 3772186.3, |
| 92.7, 182.0, 0.0); | | | | |
| (386677.5, 3772197.8, | 92.5, | 182.0, | 0.0); | (386688.4, 3772208.7, |
| 92.8, 182.0, 0.0); | | | | |
| (386701.2, 3772222.2, | 93.5, | 182.0, | 0.0); | (386448.6, 3772217.7, |
| 102.7, 182.0, 0.0); | | | | |
| (386456.3, 3772212.5, | 102.4, | 182.0, | 0.0); | (386465.3, 3772206.1, |
| 102.1, 182.0, 0.0); | | | | |
| (386474.3, 3772200.4, | 101.8, | 182.0, | 0.0); | (386481.3, 3772194.6, |
| 101.5, 182.0, 0.0); | | | | |
| (386489.0, 3772190.1, | 101.2, | 182.0, | 0.0); | (386499.3, 3772183.1, |
| 100.9, 182.0, 0.0); | | | | |
| (386507.6, 3772177.9, | 100.5, | 182.0, | 0.0); | (386514.7, 3772171.5, |
| 100.3, 182.0, 0.0); | | | | |
| (386576.8, 3772219.6, | 94.6, | 182.0, | 0.0); | (386586.5, 3772209.3, |
| 94.4, 182.0, 0.0); | | | | |
| (386597.4, 3772197.8, | 94.2, | 182.0, | 0.0); | (386607.0, 3772187.5, |
| 94.0, 182.0, 0.0); | | | | |
| (386620.4, 3772178.6, | 93.9, | 182.0, | 0.0); | (386742.9, 3772003.6, |
| 94.5, 182.0, 0.0); | | | | |
| (386386.3, 3771087.3, | 144.9, | 181.0, | 0.0); | (386399.3, 3771081.5, |
| 143.9, 181.0, 0.0); | | | | |
| (386409.4, 3771067.1, | 142.4, | 181.0, | 0.0); | (385296.8, 3773132.0, |
| 117.7, 182.0, 0.0); | | | | |
| (385287.9, 3773147.0, | 117.7, | 182.0, | 0.0); | (385283.5, 3773159.4, |
| 117.2, 182.0, 0.0); | | | | |
| (385576.7, 3773089.5, | 103.9, | 182.0, | 0.0); | (385598.0, 3773060.2, |
| 104.0, 182.0, 0.0); | | | | |

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 *** 11/23/10
 *** 10:23:33

*** Elysian
 *** Floating PM10 Mitigated

PAGE 6
 **MODELOPTs: RegDFault CONC

ELEV
 NODRYPLT NOWETDPLT

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

Floating Cover PM10 Mitigated

```

06 01 01 1 23 -36.1 0.645 -9.000 -9.000 -999. 1191. 673.0 0.65 1.00 1.00 5.90
82. 21.3 285.4 17.7
06 01 01 1 24 -35.3 0.633 -9.000 -9.000 -999. 1160. 649.7 0.65 1.00 1.00 5.80
84. 21.3 285.9 17.7

```

First hour of profile data

```

YR MO DY HR HEIGHT F WDIR WSPD AMB_TMP sigmaA sigmaW sigmaV
06 01 01 01 17.7 0 -999. -99.00 286.5 99.0 -99.00 -99.00
06 01 01 01 21.3 1 347. 0.70 -999.0 99.0 -99.00 -99.00

```

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

```

*** AERMOD - VERSION 09292 *** *** Elysian
*** 11/23/10
*** Floating PM10 Mitigated
*** 10:23:33

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PAGE 9

**MODELOPTs: RegDFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

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*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR
SOURCE GROUP: SRCGP1 ***
INCLUDING SOURCE(S): PAREA3 , PAREA4 , AREA2 , AREA3

```

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM.10 IN MICROGRAMS/M**3

**

| CONC | X-COORD (M) (YYMMDDHH) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) |
|-----------|---------------------------|-------------|-----------|------------|-------------|-------------|
| 50.07100 | 386476.85 | 3771139.46 | 48.05012 | (06013124) | 386470.44 | 3771149.72 |
| | (06121424) | | | | | |
| 58.98811 | 386460.18 | 3771159.97 | 55.12133 | (06121424) | 386449.29 | 3771172.79 |
| | (06121424) | | | | | |
| 69.81833 | 386440.31 | 3771184.33 | 64.25051 | (06011024) | 386434.54 | 3771197.79 |
| | (06011024) | | | | | |
| 83.99315 | 386405.05 | 3771244.59 | 83.60053 | (07112824) | 386409.54 | 3771235.61 |
| | (07112824) | | | | | |
| 79.58379 | 386416.59 | 3771223.43 | 81.98940 | (07112824) | 386421.08 | 3771217.02 |
| | (07112824) | | | | | |
| 31.52561 | 386426.21 | 3771209.97 | 75.75608 | (07112824) | 386274.28 | 3771299.72 |
| | (07012224) | | | | | |
| 36.45062 | 386278.77 | 3771290.10 | 33.75963 | (07012224) | 386287.75 | 3771280.49 |
| | (06121224) | | | | | |
| 39.44777 | 386296.08 | 3771269.59 | 38.49351 | (06121224) | 386303.13 | 3771259.33 |
| | (06010924) | | | | | |
| 57.55805 | 386340.31 | 3771210.61 | 60.13660 | (06010824) | 386331.34 | 3771222.15 |
| | (06010924) | | | | | |
| 47.39213 | 386323.00 | 3771233.69 | 54.16902 | (06010924) | 386312.75 | 3771248.43 |
| | (06010924) | | | | | |
| 36.46821 | 386415.31 | 3771092.02 | 42.97365 | (06121424) | 386380.05 | 3771051.00 |
| | (06011024) | | | | | |
| 39.65636 | 386392.23 | 3771050.36 | 36.93230 | (06121424) | 386374.29 | 3771063.18 |
| | (06011024) | | | | | |
| 41.98776 | 386402.49 | 3771098.43 | 43.79504 | (06011024) | 386419.80 | 3771082.41 |
| | (06121424) | | | | | |
| 14.96816 | 386163.39 | 3771763.82 | 8.81071 | (06122924) | 386081.33 | 3771480.49 |
| | (06121624) | | | | | |
| 10.81642 | 386103.77 | 3771527.92 | 10.54524 | (06020224) | 386120.44 | 3771576.00 |
| | (06032524) | | | | | |
| 13.27389 | 386135.82 | 3771613.82 | 10.44865 | (06032524) | 386146.72 | 3771651.64 |
| | (07021824) | | | | | |
| 8.68205 | 386156.33 | 3771690.75 | 10.54906 | (07021824) | 386164.67 | 3771730.49 |
| | (07112524) | | | | | |
| 306.42666 | 386716.60 | 3772090.11 | 240.24619 | (06101524) | 386705.70 | 3772082.42 |
| | (06101524) | | | | | |

Floating Cover PM10 Mitigated

| | | | | | |
|--------------------------------|------------|-----------------------------|------------|-----------|------------|
| 386714.67 | 3772074.72 | 286.36605 | (06101524) | 386723.00 | 3772061.90 |
| 266.76621 | (06050424) | | | | |
| 386731.99 | 3772036.90 | 313.54922 | (06103124) | 386728.13 | 3772051.01 |
| 290.77165 | (06103124) | | | | |
| 386737.11 | 3772022.15 | 288.55610 | (07080324) | 386699.29 | 3772099.08 |
| 259.83065 | (06101524) | | | | |
| 386690.31 | 3772107.42 | 239.35066 | (07090224) | 386682.62 | 3772113.83 |
| 240.56674 | (07090224) | | | | |
| 386674.29 | 3772123.44 | 238.09307 | (07090624) | 386664.67 | 3772134.34 |
| 233.87922 | (06072524) | | | | |
| 386654.42 | 3772145.24 | 225.95332 | (06072524) | 386605.70 | 3772127.29 |
| 148.36599 | (07031824) | | | | |
| 386590.95 | 3772133.70 | 98.60432 | (06042724) | 386579.42 | 3772139.47 |
| 79.07674 | (06042724) | | | | |
| 386560.18 | 3772147.16 | 57.95402 | (06042724) | 386545.44 | 3772154.85 |
| 47.98278 | (06041124) | | | | |
| 386533.26 | 3772162.54 | 42.71345 | (06041124) | 386542.88 | 3772179.85 |
| 39.65126 | (06042724) | | | | |
| 386553.13 | 3772195.88 | 40.45718 | (06051324) | 386568.52 | 3772208.70 |
| 46.05410 | (06051324) | | | | |
| 386581.98 | 3772192.67 | 55.63866 | (06051324) | 386595.44 | 3772181.13 |
| 70.36852 | (07031824) | | | | |
| 386609.54 | 3772168.95 | 107.12653 | (07031824) | 386624.29 | 3772152.29 |
| 183.71001 | (07031924) | | | | |
| 386619.16 | 3772140.11 | 191.46772 | (07031924) | 386640.31 | 3772163.83 |
| 179.84204 | (07031924) | | | | |
| 386653.77 | 3772174.72 | 169.55082 | (06072524) | 386665.95 | 3772186.26 |
| 155.22839 | (06072524) | | | | |
| 386677.49 | 3772197.80 | 138.58285 | (06072524) | 386688.39 | 3772208.70 |
| 122.82652 | (06072524) | | | | |
| 386701.21 | 3772222.16 | 103.90129 | (06072524) | 386448.64 | 3772217.67 |
| 21.10397 | (06041124) | | | | |
| 386456.34 | 3772212.55 | 22.37737 | (06041124) | 386465.31 | 3772206.13 |
| 23.99013 | (06041124) | | | | |
| 386474.29 | 3772200.37 | 25.75637 | (06041124) | 386481.34 | 3772194.60 |
| 27.35834 | (06041124) | | | | |
| 386489.03 | 3772190.11 | 29.10801 | (06041124) | 386499.29 | 3772183.06 |
| 31.81403 | (06041124) | | | | |
| 386507.62 | 3772177.93 | 34.16488 | (06041124) | 386514.67 | 3772171.52 |
| 36.83485 | (06041124) | | | | |
| 386576.85 | 3772219.60 | 42.88017 | (06051324) | 386586.47 | 3772209.34 |
| 49.55912 | (07031824) | | | | |
| 386597.36 | 3772197.80 | 66.22073 | (07031824) | 386606.98 | 3772187.54 |
| 86.44924 | (07031824) | | | | |
| *** AERMOD - VERSION 09292 *** | | *** Elysian | | | |
| *** 11/23/10 | | *** Floating PM10 Mitigated | | | |
| *** 10:23:33 | | | | | |

PAGE 10

**MODELOPTs: RegDFault CONC

ELEV
NODRYDPLT NOWETDPLT

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR
SOURCE GROUP: SRCGP1 ***
INCLUDING SOURCE(S): PAREA3 , PAREA4 , AREA2 , AREA3

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM.10 IN MICROGRAMS/M**3

**

| CONC | X-COORD (M) (YYMMDDHH) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) |
|-----------|---------------------------|-------------|-----------|------------|-------------|-------------|
| 218.62797 | 386620.44 | 3772178.57 | 128.12067 | (07031924) | 386742.87 | 3772003.56 |
| | (07080324) | | | | | |
| 40.20804 | 386386.30 | 3771087.29 | 43.46415 | (06011024) | 386399.28 | 3771081.52 |
| | (06121424) | | | | | |

Floating Cover PM10 Mitigated

| | | | | | | |
|--------------------------------|-------------------------|------------|-----------------------------|------------|-----------|------------|
| 1.39874 | 386409.38 (06120924) | 3771067.10 | 39.78698 | (06121424) | 385296.78 | 3773131.99 |
| 1.45078 | 385287.93 (06120924) | 3773147.05 | 1.41937 | (06120924) | 385283.50 | 3773159.45 |
| 1.73585 | 385576.69 (07080524) | 3773089.48 | 1.71828 | (07080524) | 385597.95 | 3773060.25 |
| 1.72930 | 385609.46 (06041124) | 3773037.22 | 1.71433 | (07080524) | 385629.84 | 3772997.36 |
| 2.08074 | 385654.64 (06041124) | 3772953.07 | 1.87641 | (06041124) | 385706.01 | 3772876.89 |
| 2.30480 | 385752.07 (06041124) | 3772808.69 | 2.20066 | (06041124) | 385816.74 | 3772724.54 |
| 3.33228 | 385886.71 (07102124) | 3772645.70 | 2.71925 | (07102124) | 385952.26 | 3772579.27 |
| 5.03665 | 386020.46 (07102124) | 3772519.04 | 4.13191 | (07102124) | 386093.98 | 3772463.23 |
| 6.21145 | 386169.27 (06041124) | 3772410.97 | 5.54713 | (07102124) | 386248.11 | 3772359.60 |
| 15.72732 | 386328.71 (06041124) | 3772309.11 | 9.64354 | (06041124) | 386407.55 | 3772253.30 |
| 22.64925 | 387116.28 (06051624) | 3772187.40 | 20.67123 | (06101524) | 387141.00 | 3772141.51 |
| 16.99986 | 387201.01 (06101524) | 3772180.34 | 16.28600 | (07082424) | 387155.12 | 3772229.77 |
| 13.06448 | 386943.29 (06101524) | 3772540.45 | 12.99247 | (06101524) | 386925.64 | 3772582.82 |
| 23.57798 | 386526.69 (06111224) | 3770944.68 | 18.56108 | (06081724) | 386466.67 | 3770937.61 |
| 19.08750 | 386537.28 (07101824) | 3770884.66 | 14.87157 | (07092524) | 386480.80 | 3770881.13 |
| 4.40669 | 387374.01 (06103024) | 3771597.81 | 11.69302 | (07080324) | 384880.19 | 3771187.72 |
| 4.30724 | 384901.45 (07012824) | 3771161.15 | 4.31646 | (06103024) | 384909.41 | 3771118.65 |
| 3.76634 | 384912.07 (07010424) | 3771078.80 | 4.00571 | (07012824) | 384920.04 | 3771052.24 |
| *** AERMOD - VERSION 09292 *** | | | *** Elysian | | | |
| *** 11/23/10 | | | *** Floating PM10 Mitigated | | | |
| *** 10:23:33 | | | | | | |

PAGE 11

**MODELOPTs: RegDFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

SOURCE GROUP: ALL *** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR
INCLUDING SOURCE(S): PAREA3 , PAREA4 , AREA2 , AREA3

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

| CONC | X-COORD (M) (YYMMDDHH) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) |
|----------|---------------------------|-------------|----------|------------|-------------|-------------|
| 50.07100 | 386476.85 (06121424) | 3771139.46 | 48.05012 | (06013124) | 386470.44 | 3771149.72 |
| 58.98811 | 386460.18 (06121424) | 3771159.97 | 55.12133 | (06121424) | 386449.29 | 3771172.79 |
| 69.81833 | 386440.31 (06011024) | 3771184.33 | 64.25051 | (06011024) | 386434.54 | 3771197.79 |
| 83.99315 | 386405.05 (07112824) | 3771244.59 | 83.60053 | (07112824) | 386409.54 | 3771235.61 |
| 79.58379 | 386416.59 (07112824) | 3771223.43 | 81.98940 | (07112824) | 386421.08 | 3771217.02 |
| 31.52561 | 386426.21 (07012224) | 3771209.97 | 75.75608 | (07112824) | 386274.28 | 3771299.72 |

Floating Cover PM10 Mitigated

| | | | | | |
|-----------|----------------------------|------------|----------------------|-----------|------------|
| 36.45062 | 386278.77 (06121224) | 3771290.10 | 33.75963 (07012224) | 386287.75 | 3771280.49 |
| 39.44777 | 386296.08 (06010924) | 3771269.59 | 38.49351 (06121224) | 386303.13 | 3771259.33 |
| 57.55805 | 386340.31 (06010924) | 3771210.61 | 60.13660 (06010824) | 386331.34 | 3771222.15 |
| 47.39213 | 386323.00 (06010924) | 3771233.69 | 54.16902 (06010924) | 386312.75 | 3771248.43 |
| 36.46821 | 386415.31 (06011024) | 3771092.02 | 42.97365 (06121424) | 386380.05 | 3771051.00 |
| 39.65636 | 386392.23 (06011024) | 3771050.36 | 36.93230 (06121424) | 386374.29 | 3771063.18 |
| 41.98776 | 386402.49 (06121424) | 3771098.43 | 43.79504 (06011024) | 386419.80 | 3771082.41 |
| 14.96816 | 386163.39 (06121624) | 3771763.82 | 8.81071 (06122924) | 386081.33 | 3771480.49 |
| 10.81642 | 386103.77 (06032524) | 3771527.92 | 10.54524 (06020224) | 386120.44 | 3771576.00 |
| 13.27389 | 386135.82 (07021824) | 3771613.82 | 10.44865 (06032524) | 386146.72 | 3771651.64 |
| 8.68205 | 386156.33 (07112524) | 3771690.75 | 10.54906 (07021824) | 386164.67 | 3771730.49 |
| 306.42666 | 386716.60 (06101524) | 3772090.11 | 240.24619 (06101524) | 386705.70 | 3772082.42 |
| 266.76621 | 386714.67 (06050424) | 3772074.72 | 286.36605 (06101524) | 386723.00 | 3772061.90 |
| 290.77165 | 386731.99 (06103124) | 3772036.90 | 313.54922 (06103124) | 386728.13 | 3772051.01 |
| 259.83065 | 386737.11 (06101524) | 3772022.15 | 288.55610 (07080324) | 386699.29 | 3772099.08 |
| 240.56674 | 386690.31 (07090224) | 3772107.42 | 239.35066 (07090224) | 386682.62 | 3772113.83 |
| 233.87922 | 386674.29 (06072524) | 3772123.44 | 238.09307 (07090624) | 386664.67 | 3772134.34 |
| 148.36599 | 386654.42 (07031824) | 3772145.24 | 225.95332 (06072524) | 386605.70 | 3772127.29 |
| 79.07674 | 386590.95 (06042724) | 3772133.70 | 98.60432 (06042724) | 386579.42 | 3772139.47 |
| 47.98278 | 386560.18 (06041124) | 3772147.16 | 57.95402 (06042724) | 386545.44 | 3772154.85 |
| 39.65126 | 386533.26 (06042724) | 3772162.54 | 42.71345 (06041124) | 386542.88 | 3772179.85 |
| 46.05410 | 386553.13 (06051324) | 3772195.88 | 40.45718 (06051324) | 386568.52 | 3772208.70 |
| 70.36852 | 386581.98 (07031824) | 3772192.67 | 55.63866 (06051324) | 386595.44 | 3772181.13 |
| 183.71001 | 386609.54 (07031924) | 3772168.95 | 107.12653 (07031824) | 386624.29 | 3772152.29 |
| 179.84204 | 386619.16 (07031924) | 3772140.11 | 191.46772 (07031924) | 386640.31 | 3772163.83 |
| 155.22839 | 386653.77 (06072524) | 3772174.72 | 169.55082 (06072524) | 386665.95 | 3772186.26 |
| 122.82652 | 386677.49 (06072524) | 3772197.80 | 138.58285 (06072524) | 386688.39 | 3772208.70 |
| 21.10397 | 386701.21 (06041124) | 3772222.16 | 103.90129 (06072524) | 386448.64 | 3772217.67 |
| 23.99013 | 386456.34 (06041124) | 3772212.55 | 22.37737 (06041124) | 386465.31 | 3772206.13 |
| 27.35834 | 386474.29 (06041124) | 3772200.37 | 25.75637 (06041124) | 386481.34 | 3772194.60 |
| 31.81403 | 386489.03 (06041124) | 3772190.11 | 29.10801 (06041124) | 386499.29 | 3772183.06 |
| 36.83485 | 386507.62 (06041124) | 3772177.93 | 34.16488 (06041124) | 386514.67 | 3772171.52 |
| 49.55912 | 386576.85 (07031824) | 3772219.60 | 42.88017 (06051324) | 386586.47 | 3772209.34 |
| 86.44924 | 386597.36 (07031824) | 3772197.80 | 66.22073 (07031824) | 386606.98 | 3772187.54 |
| *** | AERMOD - VERSION 09292 *** | | *** Elysian | | |
| *** | 11/23/10 | | | | |

Floating Cover PM10 Mitigated

*** Floating PM10 Mitigated

*** 10:23:33

PAGE 12

**MODELOPTs: RegDFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

SOURCE GROUP: ALL *** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR
INCLUDING SOURCE(S): PAREA3 , PAREA4 , AREA2 , AREA3

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM.10 IN MICROGRAMS/M**3

**

| CONC | X-COORD (M) (YYMMDDHH) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) |
|-----------|---------------------------|-------------|-----------|------------|-------------|-------------|
| 218.62797 | 386620.44 | 3772178.57 | 128.12067 | (07031924) | 386742.87 | 3772003.56 |
| 40.20804 | 386386.30 | 3771087.29 | 43.46415 | (06011024) | 386399.28 | 3771081.52 |
| 1.39874 | 386409.38 | 3771067.10 | 39.78698 | (06121424) | 385296.78 | 3773131.99 |
| 1.45078 | 385287.93 | 3773147.05 | 1.41937 | (06120924) | 385283.50 | 3773159.45 |
| 1.73585 | 385576.69 | 3773089.48 | 1.71828 | (07080524) | 385597.95 | 3773060.25 |
| 1.72930 | 385609.46 | 3773037.22 | 1.71433 | (07080524) | 385629.84 | 3772997.36 |
| 2.08074 | 385654.64 | 3772953.07 | 1.87641 | (06041124) | 385706.01 | 3772876.89 |
| 2.30480 | 385752.07 | 3772808.69 | 2.20066 | (06041124) | 385816.74 | 3772724.54 |
| 3.33228 | 385886.71 | 3772645.70 | 2.71925 | (07102124) | 385952.26 | 3772579.27 |
| 5.03665 | 386020.46 | 3772519.04 | 4.13191 | (07102124) | 386093.98 | 3772463.23 |
| 6.21145 | 386169.27 | 3772410.97 | 5.54713 | (07102124) | 386248.11 | 3772359.60 |
| 15.72732 | 386328.71 | 3772309.11 | 9.64354 | (06041124) | 386407.55 | 3772253.30 |
| 22.64925 | 387116.28 | 3772187.40 | 20.67123 | (06101524) | 387141.00 | 3772141.51 |
| 16.99986 | 387201.01 | 3772180.34 | 16.28600 | (07082424) | 387155.12 | 3772229.77 |
| 13.06448 | 386943.29 | 3772540.45 | 12.99247 | (06101524) | 386925.64 | 3772582.82 |
| 23.57798 | 386526.69 | 3770944.68 | 18.56108 | (06081724) | 386466.67 | 3770937.61 |
| 19.08750 | 386537.28 | 3770884.66 | 14.87157 | (07092524) | 386480.80 | 3770881.13 |
| 4.40669 | 387374.01 | 3771597.81 | 11.69302 | (07080324) | 384880.19 | 3771187.72 |
| 4.30724 | 384901.45 | 3771161.15 | 4.31646 | (06103024) | 384909.41 | 3771118.65 |
| 3.76634 | 384912.07 | 3771078.80 | 4.00571 | (07012824) | 384920.04 | 3771052.24 |

*** AERMOD - VERSION 09292 ***
*** 11/23/10

*** Elysian
*** Floating PM10 Mitigated

*** 10:23:33

PAGE 13

**MODELOPTs: RegDFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

*** THE SUMMARY OF HIGHEST 24-HR RESULTS ***

Floating Cover PM10 Mitigated

```

**                                     ** CONC OF PM.10   IN MICROGRAMS/M**3
**
**                                     DATE
NETWORK
GROUP ID                               AVERAGE CONC   (YYMMDDHH)     RECEPTOR (XR, YR,
ZELEV, ZHILL, ZFLAG)   OF TYPE  GRID-ID
-----
SRCGP1   HIGH 1ST HIGH VALUE IS   313.54922 ON 06103124: AT ( 386731.99, 3772036.90,
94.04,   182.00,   0.00) DC
ALL      HIGH 1ST HIGH VALUE IS   313.54922 ON 06103124: AT ( 386731.99, 3772036.90,
94.04,   182.00,   0.00) DC

*** RECEPTOR TYPES:  GC = GRIDCART
                       GP = GRIDPOLR
                       DC = DISCCART
                       DP = DISCPOLR
*** AERMOD - VERSION 09292 ***   *** Elysian
***      11/23/10
***                                     *** Floating PM10 Mitigated
***      10:23:33

PAGE 14
**MODELOPTs:  RegDFAULT CONC
                                           ELEV
                                           NODRYDPLT NOWETDPLT

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

----- Summary of Total Messages -----
A Total of           0 Fatal Error Message(s)
A Total of           0 Warning Message(s)
A Total of          113 Informational Message(s)

A Total of          17520 Hours Were Processed

A Total of           0 Calm Hours Identified

A Total of          113 Missing Hours Identified ( 0.64 Percent)

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

***** WARNING MESSAGES *****
***      NONE      ***

*****
*** AERMOD Finishes Successfully ***
*****

```

Floating Cover NO2 Mitigated

```
**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 6.7.1
** Lakes Environmental Software Inc.
** Date: 11/23/2010
** File: C:\Documents and Settings\jbailey\Desktop\Elysian Park AerMod\elysian\F_NO2M.ADI
**
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**
CO STARTING
TITLEONE Elysian
TITLETWO Floating NO2 Mitigated
MODELOPT DFAULT CONC NODRYDPLT NOWETDPLT
AVERTIME 1
URBANOPT 9862049 LA
POLLUTID NOX
RUNORNOT RUN
CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
LOCATION PAREA3 AREAPOLY 386606.494 3771295.572 139.670
** DESCRSRC Reservoir
LOCATION PAREA4 AREAPOLY 386598.189 3772118.131 96.350
** DESCRSRC Caltrans
** Source Parameters **
SRCPARAM PAREA3 5.836E-06 5.000 18
AREAVERT PAREA3 386606.494 3771295.572 386560.430 3771386.706
AREAVERT PAREA3 386502.641 3771467.538 386454.064 3771523.011
AREAVERT PAREA3 386432.288 3771547.577 386455.739 3771575.313
AREAVERT PAREA3 386485.890 3771583.238 386543.680 3771557.879
AREAVERT PAREA3 386593.931 3771507.954 386619.057 3771483.387
AREAVERT PAREA3 386650.046 3771442.179 386660.096 3771427.914
AREAVERT PAREA3 386676.847 3771408.103 386688.572 3771388.291
AREAVERT PAREA3 386676.847 3771361.347 386655.909 3771323.308
AREAVERT PAREA3 386640.833 3771309.044 386614.032 3771295.572
SRCPARAM PAREA4 0.0000203238 5.000 14
AREAVERT PAREA4 386598.189 3772118.131 386582.499 3772090.138
AREAVERT PAREA4 386633.724 3772053.797 386639.492 3772051.587
AREAVERT PAREA4 386653.798 3772051.341 386669.719 3772039.800
AREAVERT PAREA4 386684.025 3772011.316 386695.331 3771993.391
AREAVERT PAREA4 386697.639 3771989.462 386718.867 3771999.775
AREAVERT PAREA4 386698.331 3772048.886 386685.179 3772065.583
AREAVERT PAREA4 386673.872 3772076.387 386653.567 3772089.647
URBANSRC PAREA3
URBANSRC PAREA4
CONCUNIT 531.5 GRAMS/SEC PPM
SRCGROUP SRCGP1 PAREA4 PAREA3
SRCGROUP ALL
SO FINISHED
**
*****
** AERMOD Receptor Pathway
*****
**
**
RE STARTING
```

Floating Cover NO2 Mitigated

```
INCLUDED F_NO2M.rou
RE FINISHED
**
*****
** AERMOD Meteorology Pathway
*****
**
**
ME STARTING
SURFFILE "L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\cela.SFC"
PROFFILE "L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\cela.PFL"
SURFDATA 0 2006
UAIRDATA 3190 2006
PROFBASE 10 METERS
ME FINISHED
**
*****
** AERMOD Output Pathway
*****
**
**
OU STARTING
RECTABLE ALLAVE 1ST
RECTABLE 1 1ST
** Auto-Generated Plotfiles
PLOTFILE 1 ALL 1ST F_NO2M.AD\01H1GALL.PLT
PLOTFILE 1 SRCGP1 1ST F_NO2M.AD\01H1G001.PLT
OU FINISHED

*****
*** SETUP Finishes Successfully ***
*****

*** AERMOD - VERSION 09292 ***      *** Elysian
***      11/23/10
***                               *** Floating NO2 Mitigated
***      10:14:54

PAGE      1
**MODELOPTs:  RegDFault CONC
                                                    ELEV
                                                    NODRYDPLT NOWETDPLT

***      MODEL SETUP OPTIONS SUMMARY      ***
-----
**Model Is Setup For Calculation of Average CONCentration Values.

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

**Model Uses URBAN Dispersion Algorithm for the SBL for      2 Source(s),
for Total of      1 Urban Area(s):
Urban Population =  9862049.0 ;  Urban Roughness Length =  1.000 m

**Model Uses Regulatory DEFAULT Options:
1. Stack-tip Downwash.
2. Model Accounts for ELEVated Terrain Effects.
3. Use Calms Processing Routine.
4. Use Missing Data Processing Routine.
5. No Exponential Decay for URBAN/Non-SO2.
6. Urban Roughness Length of 1.0 Meter Assumed.

**Model Assumes No FLAGPOLE Receptor Heights.

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

**This Run Includes:      2 Source(s);      2 Source Group(s); and      120 Receptor(s)
```


Floating Cover NO2 Mitigated

**The Model Assumes A Pollutant Type of: NOX

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

**Output Options Selected:

Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
 Model Outputs External File(s) of High Values for Plotting (PLOTFILE 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) = 10.00 ; Decay Coef. = 0.000
 ; Rot. Angle = 0.0

Emission Units = GRAMS/SEC ; Emission Rate
 Unit Factor = 531.50
 Output Units = PPM

**Approximate Storage Requirements of Model = 3.5 MB of RAM.

*** AERMOD - VERSION 09292 *** *** Elysian
 *** 11/23/10
 *** Floating NO2 Mitigated
 *** 10:14:54

PAGE 2

**MODELOPTs: RegDFAULT CONC ELEV
 NODRYDPLT NOWETDPLT

*** AREAPOLY SOURCE DATA ***

| URBAN SOURCE | EMISSION RATE | NUMBER | EMISSION RATE | LOCATION OF AREA | BASE | RELEASE | NUMBER | INIT. |
|---------------|---------------|--------|---------------|-------------------|----------|----------|-----------|----------|
| SOURCE SCALAR | PART. VARY | SCALAR | (USER UNITS) | X Y | ELEV. | HEIGHT | OF VERTS. | SZ |
| ID | CATS. | | /METER**2) | (METERS) (METERS) | (METERS) | (METERS) | | (METERS) |

| | | | | | | | | |
|--------|---|-------------|----------|-----------|-------|------|----|------|
| PAREA3 | 0 | 0.58360E-05 | 386606.5 | 3771295.6 | 139.7 | 5.00 | 18 | 0.00 |
| PAREA4 | 0 | 0.20324E-04 | 386598.2 | 3772118.1 | 96.3 | 5.00 | 14 | 0.00 |

*** AERMOD - VERSION 09292 *** *** Elysian
 *** 11/23/10
 *** Floating NO2 Mitigated
 *** 10:14:54

PAGE 3

**MODELOPTs: RegDFAULT CONC ELEV
 NODRYDPLT NOWETDPLT

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID SOURCE IDs

SRCGP1 PAREA3 , PAREA4 ,

ALL PAREA3 , PAREA4 ,
 *** AERMOD - VERSION 09292 *** *** Elysian
 *** 11/23/10
 *** Floating NO2 Mitigated
 *** 10:14:54

Floating Cover NO2 Mitigated

PAGE 4

**MODELOPTs: RegDFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

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

| | | | | |
|------------------------|--------|--------|-------|------------------------|
| (386476.8, 3771139.5, | 143.3, | 181.0, | 0.0); | (386470.4, 3771149.7, |
| 144.2, 181.0, 0.0); | | | | |
| (386460.2, 3771160.0, | 145.3, | 181.0, | 0.0); | (386449.3, 3771172.8, |
| 146.6, 181.0, 0.0); | | | | |
| (386440.3, 3771184.3, | 147.6, | 181.0, | 0.0); | (386434.5, 3771197.8, |
| 148.6, 181.0, 0.0); | | | | |
| (386405.0, 3771244.6, | 152.9, | 181.0, | 0.0); | (386409.5, 3771235.6, |
| 151.9, 181.0, 0.0); | | | | |
| (386416.6, 3771223.4, | 150.9, | 181.0, | 0.0); | (386421.1, 3771217.0, |
| 150.3, 181.0, 0.0); | | | | |
| (386426.2, 3771210.0, | 149.6, | 181.0, | 0.0); | (386274.3, 3771299.7, |
| 168.1, 181.0, 0.0); | | | | |
| (386278.8, 3771290.1, | 167.4, | 181.0, | 0.0); | (386287.8, 3771280.5, |
| 166.6, 181.0, 0.0); | | | | |
| (386296.1, 3771269.6, | 164.9, | 181.0, | 0.0); | (386303.1, 3771259.3, |
| 163.5, 181.0, 0.0); | | | | |
| (386340.3, 3771210.6, | 155.9, | 181.0, | 0.0); | (386331.3, 3771222.1, |
| 157.6, 181.0, 0.0); | | | | |
| (386323.0, 3771233.7, | 159.3, | 181.0, | 0.0); | (386312.8, 3771248.4, |
| 161.6, 181.0, 0.0); | | | | |
| (386415.3, 3771092.0, | 143.8, | 181.0, | 0.0); | (386380.0, 3771051.0, |
| 142.9, 164.0, 0.0); | | | | |
| (386392.2, 3771050.4, | 142.2, | 181.0, | 0.0); | (386374.3, 3771063.2, |
| 144.0, 164.0, 0.0); | | | | |
| (386402.5, 3771098.4, | 144.8, | 181.0, | 0.0); | (386419.8, 3771082.4, |
| 142.9, 181.0, 0.0); | | | | |
| (386163.4, 3771763.8, | 182.0, | 182.0, | 0.0); | (386081.3, 3771480.5, |
| 178.0, 178.0, 0.0); | | | | |
| (386103.8, 3771527.9, | 179.8, | 179.8, | 0.0); | (386120.4, 3771576.0, |
| 181.1, 181.1, 0.0); | | | | |
| (386135.8, 3771613.8, | 182.0, | 182.0, | 0.0); | (386146.7, 3771651.6, |
| 182.0, 182.0, 0.0); | | | | |
| (386156.3, 3771690.8, | 182.0, | 182.0, | 0.0); | (386164.7, 3771730.5, |
| 182.0, 182.0, 0.0); | | | | |
| (386716.6, 3772090.1, | 93.4, | 182.0, | 0.0); | (386705.7, 3772082.4, |
| 93.0, 182.0, 0.0); | | | | |
| (386714.7, 3772074.7, | 93.3, | 182.0, | 0.0); | (386723.0, 3772061.9, |
| 93.7, 182.0, 0.0); | | | | |
| (386732.0, 3772036.9, | 94.0, | 182.0, | 0.0); | (386728.1, 3772051.0, |
| 93.9, 182.0, 0.0); | | | | |
| (386737.1, 3772022.1, | 94.2, | 182.0, | 0.0); | (386699.3, 3772099.1, |
| 92.7, 182.0, 0.0); | | | | |
| (386690.3, 3772107.4, | 92.4, | 182.0, | 0.0); | (386682.6, 3772113.8, |
| 92.1, 182.0, 0.0); | | | | |
| (386674.3, 3772123.4, | 92.3, | 182.0, | 0.0); | (386664.7, 3772134.3, |
| 92.8, 182.0, 0.0); | | | | |
| (386654.4, 3772145.2, | 93.1, | 182.0, | 0.0); | (386605.7, 3772127.3, |
| 95.6, 182.0, 0.0); | | | | |
| (386591.0, 3772133.7, | 96.5, | 182.0, | 0.0); | (386579.4, 3772139.5, |
| 97.2, 182.0, 0.0); | | | | |
| (386560.2, 3772147.2, | 98.4, | 182.0, | 0.0); | (386545.4, 3772154.8, |
| 99.0, 182.0, 0.0); | | | | |
| (386533.3, 3772162.5, | 99.5, | 182.0, | 0.0); | (386542.9, 3772179.8, |
| 98.2, 182.0, 0.0); | | | | |
| (386553.1, 3772195.9, | 96.9, | 182.0, | 0.0); | (386568.5, 3772208.7, |
| 95.5, 182.0, 0.0); | | | | |
| (386582.0, 3772192.7, | 95.3, | 182.0, | 0.0); | (386595.4, 3772181.1, |
| 94.8, 182.0, 0.0); | | | | |
| (386609.5, 3772168.9, | 94.5, | 182.0, | 0.0); | (386624.3, 3772152.3, |
| 94.3, 182.0, 0.0); | | | | |
| (386619.2, 3772140.1, | 94.7, | 182.0, | 0.0); | (386640.3, 3772163.8, |
| 93.5, 182.0, 0.0); | | | | |

Floating Cover NO2 Mitigated

| | | | | |
|--------------------------------|----------------------------|--------|-------|------------------------|
| (386653.8, 3772174.7, | 93.0, | 182.0, | 0.0); | (386666.0, 3772186.3, |
| 92.7, 182.0, 0.0); | | | | |
| (386677.5, 3772197.8, | 92.5, | 182.0, | 0.0); | (386688.4, 3772208.7, |
| 92.8, 182.0, 0.0); | | | | |
| (386701.2, 3772222.2, | 93.5, | 182.0, | 0.0); | (386448.6, 3772217.7, |
| 102.7, 182.0, 0.0); | | | | |
| (386456.3, 3772212.5, | 102.4, | 182.0, | 0.0); | (386465.3, 3772206.1, |
| 102.1, 182.0, 0.0); | | | | |
| (386474.3, 3772200.4, | 101.8, | 182.0, | 0.0); | (386481.3, 3772194.6, |
| 101.5, 182.0, 0.0); | | | | |
| (386489.0, 3772190.1, | 101.2, | 182.0, | 0.0); | (386499.3, 3772183.1, |
| 100.9, 182.0, 0.0); | | | | |
| (386507.6, 3772177.9, | 100.5, | 182.0, | 0.0); | (386514.7, 3772171.5, |
| 100.3, 182.0, 0.0); | | | | |
| (386576.8, 3772219.6, | 94.6, | 182.0, | 0.0); | (386586.5, 3772209.3, |
| 94.4, 182.0, 0.0); | | | | |
| (386597.4, 3772197.8, | 94.2, | 182.0, | 0.0); | (386607.0, 3772187.5, |
| 94.0, 182.0, 0.0); | | | | |
| (386620.4, 3772178.6, | 93.9, | 182.0, | 0.0); | (386742.9, 3772003.6, |
| 94.5, 182.0, 0.0); | | | | |
| (386386.3, 3771087.3, | 144.9, | 181.0, | 0.0); | (386399.3, 3771081.5, |
| 143.9, 181.0, 0.0); | | | | |
| (386409.4, 3771067.1, | 142.4, | 181.0, | 0.0); | (385296.8, 3773132.0, |
| 117.7, 182.0, 0.0); | | | | |
| (385287.9, 3773147.0, | 117.7, | 182.0, | 0.0); | (385283.5, 3773159.4, |
| 117.2, 182.0, 0.0); | | | | |
| (385576.7, 3773089.5, | 103.9, | 182.0, | 0.0); | (385598.0, 3773060.2, |
| 104.0, 182.0, 0.0); | | | | |
| *** AERMOD - VERSION 09292 *** | *** Elysian | | | |
| *** 11/23/10 | *** Floating NO2 Mitigated | | | |
| *** 10:14:54 | | | | |

PAGE 5

**MODELOPTs: RegDFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

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

| | | | | |
|------------------------|--------|--------|-------|------------------------|
| (385609.5, 3773037.2, | 104.5, | 182.0, | 0.0); | (385629.8, 3772997.4, |
| 105.3, 182.0, 0.0); | | | | |
| (385654.6, 3772953.1, | 106.0, | 182.0, | 0.0); | (385706.0, 3772876.9, |
| 106.7, 182.0, 0.0); | | | | |
| (385752.1, 3772808.7, | 107.3, | 182.0, | 0.0); | (385816.7, 3772724.5, |
| 108.9, 182.0, 0.0); | | | | |
| (385886.7, 3772645.7, | 110.4, | 182.0, | 0.0); | (385952.3, 3772579.3, |
| 111.3, 182.0, 0.0); | | | | |
| (386020.5, 3772519.0, | 111.7, | 182.0, | 0.0); | (386094.0, 3772463.2, |
| 111.1, 182.0, 0.0); | | | | |
| (386169.3, 3772411.0, | 110.4, | 182.0, | 0.0); | (386248.1, 3772359.6, |
| 108.8, 182.0, 0.0); | | | | |
| (386328.7, 3772309.1, | 105.9, | 182.0, | 0.0); | (386407.5, 3772253.3, |
| 103.3, 182.0, 0.0); | | | | |
| (387116.3, 3772187.4, | 108.2, | 182.0, | 0.0); | (387141.0, 3772141.5, |
| 108.9, 108.9, 0.0); | | | | |
| (387201.0, 3772180.3, | 110.6, | 182.0, | 0.0); | (387155.1, 3772229.8, |
| 110.0, 182.0, 0.0); | | | | |
| (386943.3, 3772540.4, | 102.9, | 243.0, | 0.0); | (386925.6, 3772582.8, |
| 102.9, 243.0, 0.0); | | | | |
| (386526.7, 3770944.7, | 129.0, | 131.0, | 0.0); | (386466.7, 3770937.6, |
| 131.1, 131.1, 0.0); | | | | |
| (386537.3, 3770884.7, | 123.8, | 123.8, | 0.0); | (386480.8, 3770881.1, |
| 125.8, 125.8, 0.0); | | | | |
| (387374.0, 3771597.8, | 112.1, | 112.1, | 0.0); | (384880.2, 3771187.7, |
| 166.9, 166.9, 0.0); | | | | |
| (384901.5, 3771161.1, | 167.0, | 167.0, | 0.0); | (384909.4, 3771118.6, |
| 165.9, 165.9, 0.0); | | | | |
| (384912.1, 3771078.8, | 164.8, | 164.8, | 0.0); | (384920.0, 3771052.2, |
| 164.2, 164.2, 0.0); | | | | |

Floating Cover NO2 Mitigated

| | | | | | | | | | | | | | | | |
|------|------|-------|---|------|-------|-------|--------|--------|-------|-------|---------|------|------|------|------|
| 06 | 01 | 01 | 1 | 04 | -1.9 | 0.069 | -9.000 | -9.000 | -999. | 41. | 15.2 | 0.65 | 1.00 | 1.00 | 1.20 |
| 23. | 21.3 | 285.9 | | 17.7 | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 05 | -3.5 | 0.080 | -9.000 | -9.000 | -999. | 52. | 13.1 | 0.65 | 1.00 | 1.00 | 1.40 |
| 61. | 21.3 | 285.4 | | 17.7 | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 06 | -3.0 | 0.086 | -9.000 | -9.000 | -999. | 58. | 19.0 | 0.65 | 1.00 | 1.00 | 1.50 |
| 83. | 21.3 | 285.4 | | 17.7 | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 07 | -6.1 | 0.103 | -9.000 | -9.000 | -999. | 76. | 16.2 | 0.65 | 1.00 | 1.00 | 1.80 |
| 64. | 21.3 | 285.4 | | 17.7 | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 08 | -3.3 | 0.080 | -9.000 | -9.000 | -999. | 52. | 14.1 | 0.65 | 1.00 | 0.55 | 1.40 |
| 46. | 21.3 | 285.4 | | 17.7 | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 09 | 26.6 | 0.304 | 0.644 | 0.005 | 362. | 385. | -95.4 | 0.65 | 1.00 | 0.32 | 2.30 |
| 87. | 21.3 | 286.4 | | 17.7 | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 10 | 21.0 | 0.227 | 0.732 | 0.005 | 675. | 250. | -50.2 | 0.65 | 1.00 | 0.24 | 1.60 |
| 76. | 21.3 | 286.4 | | 17.7 | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 11 | 35.8 | 0.197 | 0.912 | 0.005 | 766. | 201. | -19.2 | 0.65 | 1.00 | 0.21 | 1.20 |
| 66. | 21.3 | 287.5 | | 17.7 | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 12 | 14.9 | 0.281 | 0.686 | 0.005 | 785. | 343. | -135.5 | 0.65 | 1.00 | 0.20 | 2.20 |
| 79. | 21.3 | 287.5 | | 17.7 | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 13 | 26.4 | 0.376 | 0.842 | 0.009 | 818. | 530. | -181.6 | 0.65 | 1.00 | 0.20 | 3.00 |
| 76. | 21.3 | 287.5 | | 17.7 | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 14 | 39.0 | 0.385 | 0.979 | 0.014 | 867. | 549. | -131.8 | 0.65 | 1.00 | 0.21 | 3.00 |
| 80. | 21.3 | 288.1 | | 17.7 | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 15 | 11.4 | 0.277 | 0.653 | 0.014 | 881. | 341. | -168.4 | 0.65 | 1.00 | 0.25 | 2.20 |
| 86. | 21.3 | 287.5 | | 17.7 | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 16 | 0.1 | 0.343 | 0.135 | 0.014 | 881. | 462. | -8888.0 | 0.65 | 1.00 | 0.33 | 3.00 |
| 75. | 21.3 | 287.0 | | 17.7 | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 17 | -13.7 | 0.266 | -9.000 | -9.000 | -999. | 319. | 125.0 | 0.65 | 1.00 | 0.60 | 2.90 |
| 82. | 21.3 | 286.4 | | 17.7 | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 18 | -10.2 | 0.183 | -9.000 | -9.000 | -999. | 183. | 54.5 | 0.65 | 1.00 | 1.00 | 2.50 |
| 101. | 21.3 | 286.4 | | 17.7 | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 19 | -16.1 | 0.289 | -9.000 | -9.000 | -999. | 358. | 135.6 | 0.65 | 1.00 | 1.00 | 3.10 |
| 97. | 21.3 | 285.9 | | 17.7 | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 20 | -25.2 | 0.450 | -9.000 | -9.000 | -999. | 693. | 326.1 | 0.65 | 1.00 | 1.00 | 4.30 |
| 92. | 21.3 | 284.9 | | 17.7 | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 21 | -27.3 | 0.487 | -9.000 | -9.000 | -999. | 781. | 381.9 | 0.65 | 1.00 | 1.00 | 4.60 |
| 88. | 21.3 | 284.2 | | 17.7 | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 22 | -28.0 | 0.499 | -9.000 | -9.000 | -999. | 812. | 402.5 | 0.65 | 1.00 | 1.00 | 4.70 |
| 91. | 21.3 | 284.9 | | 17.7 | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 23 | -36.1 | 0.645 | -9.000 | -9.000 | -999. | 1191. | 673.0 | 0.65 | 1.00 | 1.00 | 5.90 |
| 82. | 21.3 | 285.4 | | 17.7 | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 24 | -35.3 | 0.633 | -9.000 | -9.000 | -999. | 1160. | 649.7 | 0.65 | 1.00 | 1.00 | 5.80 |
| 84. | 21.3 | 285.9 | | 17.7 | | | | | | | | | | | |

First hour of profile data

| YR | MO | DY | HR | HEIGHT | F | WDIR | WSPD | AMB_TMP | sigmaA | sigmaW | sigmaV |
|----|----|----|----|--------|---|-------|--------|---------|--------|--------|--------|
| 06 | 01 | 01 | 01 | 17.7 | 0 | -999. | -99.00 | 286.5 | 99.0 | -99.00 | -99.00 |
| 06 | 01 | 01 | 01 | 21.3 | 1 | 347. | 0.70 | -999.0 | 99.0 | -99.00 | -99.00 |

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

*** AERMOD - VERSION 09292 *** *** Elysian

*** 11/23/10

*** Floating NO2 Mitigated

*** 10:14:54

PAGE 8

**MODELOPTs: RegDFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
SOURCE GROUP: SRCGP1 ***

INCLUDING SOURCE(S): PAREA3 , PAREA4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF NOX IN PPM

**

| CONC | X-COORD (M) (YYMMDDHH) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) |
|------|---------------------------|-------------|------|------------|-------------|-------------|
|------|---------------------------|-------------|------|------------|-------------|-------------|

Floating Cover NO2 Mitigated

| | | | | | | |
|---------|-------------------------|------------|---------|------------|-----------|------------|
| 0.02149 | 386476.85 (06110221) | 3771139.46 | 0.02183 | (06110221) | 386470.44 | 3771149.72 |
| 0.02002 | 386460.18 (07082906) | 3771159.97 | 0.02075 | (06110221) | 386449.29 | 3771172.79 |
| 0.01896 | 386440.31 (07082906) | 3771184.33 | 0.01940 | (07082906) | 386434.54 | 3771197.79 |
| 0.01657 | 386405.05 (06091823) | 3771244.59 | 0.01637 | (07110406) | 386409.54 | 3771235.61 |
| 0.01762 | 386416.59 (07082906) | 3771223.43 | 0.01714 | (06091823) | 386421.08 | 3771217.02 |
| 0.00971 | 386426.21 (07120322) | 3771209.97 | 0.01817 | (07082906) | 386274.28 | 3771299.72 |
| 0.01026 | 386278.77 (07110406) | 3771290.10 | 0.00991 | (07110406) | 386287.75 | 3771280.49 |
| 0.01121 | 386296.08 (07110406) | 3771269.59 | 0.01076 | (07110406) | 386303.13 | 3771259.33 |
| 0.01297 | 386340.31 (07110406) | 3771210.61 | 0.01341 | (07110406) | 386331.34 | 3771222.15 |
| 0.01179 | 386323.00 (07110406) | 3771233.69 | 0.01247 | (07110406) | 386312.75 | 3771248.43 |
| 0.01506 | 386415.31 (06091823) | 3771092.02 | 0.01721 | (07082906) | 386380.05 | 3771051.00 |
| 0.01489 | 386392.23 (06091823) | 3771050.36 | 0.01565 | (07082906) | 386374.29 | 3771063.18 |
| 0.01743 | 386402.49 (07082906) | 3771098.43 | 0.01640 | (07082906) | 386419.80 | 3771082.41 |
| 0.00878 | 386163.39 (07050824) | 3771763.82 | 0.00983 | (07061204) | 386081.33 | 3771480.49 |
| 0.01001 | 386103.77 (06083124) | 3771527.92 | 0.00851 | (07050824) | 386120.44 | 3771576.00 |
| 0.01101 | 386135.82 (06030702) | 3771613.82 | 0.01020 | (06083124) | 386146.72 | 3771651.64 |
| 0.00982 | 386156.33 (07061204) | 3771690.75 | 0.01091 | (06030702) | 386164.67 | 3771730.49 |
| 0.06417 | 386716.60 (07071406) | 3772090.11 | 0.05692 | (07063006) | 386705.70 | 3772082.42 |
| 0.06975 | 386714.67 (07071406) | 3772074.72 | 0.06860 | (07071406) | 386723.00 | 3772061.90 |
| 0.08218 | 386731.99 (07030522) | 3772036.90 | 0.08691 | (07030522) | 386728.13 | 3772051.01 |
| 0.05428 | 386737.11 (07063006) | 3772022.15 | 0.08397 | (06111820) | 386699.29 | 3772099.08 |
| 0.05341 | 386690.31 (07020104) | 3772107.42 | 0.05244 | (07020104) | 386682.62 | 3772113.83 |
| 0.05384 | 386674.29 (07020103) | 3772123.44 | 0.05354 | (07020103) | 386664.67 | 3772134.34 |
| 0.08591 | 386654.42 (07070805) | 3772145.24 | 0.05412 | (07020103) | 386605.70 | 3772127.29 |
| 0.09227 | 386590.95 (06122919) | 3772133.70 | 0.09421 | (06122919) | 386579.42 | 3772139.47 |
| 0.06021 | 386560.18 (06122919) | 3772147.16 | 0.07570 | (06122919) | 386545.44 | 3772154.85 |
| 0.05609 | 386533.26 (06122919) | 3772162.54 | 0.04990 | (06122919) | 386542.88 | 3772179.85 |
| 0.04570 | 386553.13 (07121620) | 3772195.88 | 0.04530 | (07121620) | 386568.52 | 3772208.70 |
| 0.05100 | 386581.98 (07121620) | 3772192.67 | 0.05041 | (07121620) | 386595.44 | 3772181.13 |
| 0.05773 | 386609.54 (07020103) | 3772168.95 | 0.05263 | (07111522) | 386624.29 | 3772152.29 |
| 0.05293 | 386619.16 (07020103) | 3772140.11 | 0.06630 | (07081406) | 386640.31 | 3772163.83 |
| 0.04462 | 386653.77 (07020104) | 3772174.72 | 0.04852 | (07020103) | 386665.95 | 3772186.26 |
| 0.03837 | 386677.49 (07082624) | 3772197.80 | 0.04063 | (07020104) | 386688.39 | 3772208.70 |
| 0.02307 | 386701.21 (07061204) | 3772222.16 | 0.03610 | (07082624) | 386448.64 | 3772217.67 |

Floating Cover NO2 Mitigated

| | | | | | | |
|---------|-------------------------|------------|---------|------------|-----------|------------|
| 0.02578 | 386456.34 (07061204) | 3772212.55 | 0.02423 | (07061204) | 386465.31 | 3772206.13 |
| 0.02907 | 386474.29 (07061204) | 3772200.37 | 0.02742 | (07061204) | 386481.34 | 3772194.60 |
| 0.03237 | 386489.03 (07061204) | 3772190.11 | 0.02963 | (07061204) | 386499.29 | 3772183.06 |
| 0.03772 | 386507.62 (07061204) | 3772177.93 | 0.03478 | (07041701) | 386514.67 | 3772171.52 |
| 0.03951 | 386576.85 (07121620) | 3772219.60 | 0.03885 | (07121620) | 386586.47 | 3772209.34 |
| 0.04509 | 386597.36 (07111522) | 3772197.80 | 0.04152 | (07081406) | 386606.98 | 3772187.54 |

*** AERMOD - VERSION 09292 *** *** Elysian
 *** 11/23/10
 *** 10:14:54 *** Floating NO2 Mitigated

PAGE 9

**MODELOPTs: RegDFAULT CONC

ELEV
 NODRYDPLT NOWETDPLT

SOURCE GROUP: SRCGP1 *** *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 INCLUDING SOURCE(S): PAREA3 , PAREA4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF NOX IN PPM

**

| CONC | X-COORD (M) (YYMMDDHH) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) |
|---------|---------------------------|-------------|---------|------------|-------------|-------------|
| 0.08627 | 386620.44 (06110320) | 3772178.57 | 0.04906 | (07020103) | 386742.87 | 3772003.56 |
| 0.01614 | 386386.30 (07082906) | 3771087.29 | 0.01549 | (06091823) | 386399.28 | 3771081.52 |
| 0.00204 | 386409.38 (07060324) | 3771067.10 | 0.01673 | (07082906) | 385296.78 | 3773131.99 |
| 0.00202 | 385287.93 (07101501) | 3773147.05 | 0.00202 | (07101501) | 385283.50 | 3773159.45 |
| 0.00265 | 385576.69 (07121620) | 3773089.48 | 0.00257 | (07121620) | 385597.95 | 3773060.25 |
| 0.00276 | 385609.46 (07121620) | 3773037.22 | 0.00269 | (07121620) | 385629.84 | 3772997.36 |
| 0.00311 | 385654.64 (07121620) | 3772953.07 | 0.00286 | (07121620) | 385706.01 | 3772876.89 |
| 0.00379 | 385752.07 (07121620) | 3772808.69 | 0.00336 | (07121620) | 385816.74 | 3772724.54 |
| 0.00470 | 385886.71 (07121620) | 3772645.70 | 0.00429 | (07121620) | 385952.26 | 3772579.27 |
| 0.00634 | 386020.46 (07061204) | 3772519.04 | 0.00539 | (07061204) | 386093.98 | 3772463.23 |
| 0.00952 | 386169.27 (07061204) | 3772410.97 | 0.00763 | (07061204) | 386248.11 | 3772359.60 |
| 0.01760 | 386328.71 (07061204) | 3772309.11 | 0.01240 | (07061204) | 386407.55 | 3772253.30 |
| 0.01271 | 387116.28 (06062804) | 3772187.40 | 0.01272 | (07070102) | 387141.00 | 3772141.51 |
| 0.01075 | 387201.01 (07070102) | 3772180.34 | 0.00985 | (06062804) | 387155.12 | 3772229.77 |
| 0.01142 | 386943.29 (07010320) | 3772540.45 | 0.01109 | (07010320) | 386925.64 | 3772582.82 |
| 0.01584 | 386526.69 (06090305) | 3770944.68 | 0.01842 | (06090305) | 386466.67 | 3770937.61 |
| 0.01559 | 386537.28 (06090305) | 3770884.66 | 0.01576 | (06090305) | 386480.80 | 3770881.13 |
| 0.00366 | 387374.01 (07032307) | 3771597.81 | 0.00686 | (07070124) | 384880.19 | 3771187.72 |

Floating Cover NO2 Mitigated

```

384901.45  3771161.15      0.00354 (07081506)      384909.41  3771118.65
0.00380    (07081506)
384912.07  3771078.80      0.00380 (07081506)      384920.04  3771052.24
0.00368    (07081506)
*** AERMOD - VERSION 09292 ***   *** Elysian
***      11/23/10
***
***      10:14:54

```

PAGE 10

**MODELOPTs: RegDFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

SOURCE GROUP: ALL *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
INCLUDING SOURCE(S): PAREA3 , PAREA4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

| | | ** CONC OF NOX | | IN PPM | |
|---------|---------------------------|----------------|---------|------------|----------------------------|
| CONC | X-COORD (M) (YYMMDDHH) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) Y-COORD (M) |
| 0.02149 | 386476.85 | 3771139.46 | 0.02183 | (06110221) | 386470.44 3771149.72 |
| | (06110221) | | | | |
| 0.02002 | 386460.18 | 3771159.97 | 0.02075 | (06110221) | 386449.29 3771172.79 |
| | (07082906) | | | | |
| 0.01896 | 386440.31 | 3771184.33 | 0.01940 | (07082906) | 386434.54 3771197.79 |
| | (07082906) | | | | |
| 0.01657 | 386405.05 | 3771244.59 | 0.01637 | (07110406) | 386409.54 3771235.61 |
| | (06091823) | | | | |
| 0.01762 | 386416.59 | 3771223.43 | 0.01714 | (06091823) | 386421.08 3771217.02 |
| | (07082906) | | | | |
| 0.00971 | 386426.21 | 3771209.97 | 0.01817 | (07082906) | 386274.28 3771299.72 |
| | (07120322) | | | | |
| 0.01026 | 386278.77 | 3771290.10 | 0.00991 | (07110406) | 386287.75 3771280.49 |
| | (07110406) | | | | |
| 0.01121 | 386296.08 | 3771269.59 | 0.01076 | (07110406) | 386303.13 3771259.33 |
| | (07110406) | | | | |
| 0.01297 | 386340.31 | 3771210.61 | 0.01341 | (07110406) | 386331.34 3771222.15 |
| | (07110406) | | | | |
| 0.01179 | 386323.00 | 3771233.69 | 0.01247 | (07110406) | 386312.75 3771248.43 |
| | (07110406) | | | | |
| 0.01506 | 386415.31 | 3771092.02 | 0.01721 | (07082906) | 386380.05 3771051.00 |
| | (06091823) | | | | |
| 0.01489 | 386392.23 | 3771050.36 | 0.01565 | (07082906) | 386374.29 3771063.18 |
| | (06091823) | | | | |
| 0.01743 | 386402.49 | 3771098.43 | 0.01640 | (07082906) | 386419.80 3771082.41 |
| | (07082906) | | | | |
| 0.00878 | 386163.39 | 3771763.82 | 0.00983 | (07061204) | 386081.33 3771480.49 |
| | (07050824) | | | | |
| 0.01001 | 386103.77 | 3771527.92 | 0.00851 | (07050824) | 386120.44 3771576.00 |
| | (06083124) | | | | |
| 0.01101 | 386135.82 | 3771613.82 | 0.01020 | (06083124) | 386146.72 3771651.64 |
| | (06030702) | | | | |
| 0.00982 | 386156.33 | 3771690.75 | 0.01091 | (06030702) | 386164.67 3771730.49 |
| | (07061204) | | | | |
| 0.06417 | 386716.60 | 3772090.11 | 0.05692 | (07063006) | 386705.70 3772082.42 |
| | (07071406) | | | | |
| 0.06975 | 386714.67 | 3772074.72 | 0.06860 | (07071406) | 386723.00 3772061.90 |
| | (07071406) | | | | |
| 0.08218 | 386731.99 | 3772036.90 | 0.08691 | (07030522) | 386728.13 3772051.01 |
| | (07030522) | | | | |
| 0.05428 | 386737.11 | 3772022.15 | 0.08397 | (06111820) | 386699.29 3772099.08 |
| | (07063006) | | | | |
| 0.05341 | 386690.31 | 3772107.42 | 0.05244 | (07020104) | 386682.62 3772113.83 |
| | (07020104) | | | | |

Floating Cover NO2 Mitigated

| | | | | | | |
|--------------------------------|-------------------------|------------|----------------------------|------------|-----------|------------|
| 0.05384 | 386674.29 (07020103) | 3772123.44 | 0.05354 | (07020103) | 386664.67 | 3772134.34 |
| 0.08591 | 386654.42 (07070805) | 3772145.24 | 0.05412 | (07020103) | 386605.70 | 3772127.29 |
| 0.09227 | 386590.95 (06122919) | 3772133.70 | 0.09421 | (06122919) | 386579.42 | 3772139.47 |
| 0.06021 | 386560.18 (06122919) | 3772147.16 | 0.07570 | (06122919) | 386545.44 | 3772154.85 |
| 0.05609 | 386533.26 (06122919) | 3772162.54 | 0.04990 | (06122919) | 386542.88 | 3772179.85 |
| 0.04570 | 386553.13 (07121620) | 3772195.88 | 0.04530 | (07121620) | 386568.52 | 3772208.70 |
| 0.05100 | 386581.98 (07121620) | 3772192.67 | 0.05041 | (07121620) | 386595.44 | 3772181.13 |
| 0.05773 | 386609.54 (07020103) | 3772168.95 | 0.05263 | (07111522) | 386624.29 | 3772152.29 |
| 0.05293 | 386619.16 (07020103) | 3772140.11 | 0.06630 | (07081406) | 386640.31 | 3772163.83 |
| 0.04462 | 386653.77 (07020104) | 3772174.72 | 0.04852 | (07020103) | 386665.95 | 3772186.26 |
| 0.03837 | 386677.49 (07082624) | 3772197.80 | 0.04063 | (07020104) | 386688.39 | 3772208.70 |
| 0.02307 | 386701.21 (07061204) | 3772222.16 | 0.03610 | (07082624) | 386448.64 | 3772217.67 |
| 0.02578 | 386456.34 (07061204) | 3772212.55 | 0.02423 | (07061204) | 386465.31 | 3772206.13 |
| 0.02907 | 386474.29 (07061204) | 3772200.37 | 0.02742 | (07061204) | 386481.34 | 3772194.60 |
| 0.03237 | 386489.03 (07061204) | 3772190.11 | 0.02963 | (07061204) | 386499.29 | 3772183.06 |
| 0.03772 | 386507.62 (07061204) | 3772177.93 | 0.03478 | (07041701) | 386514.67 | 3772171.52 |
| 0.03951 | 386576.85 (07121620) | 3772219.60 | 0.03885 | (07121620) | 386586.47 | 3772209.34 |
| 0.04509 | 386597.36 (07111522) | 3772197.80 | 0.04152 | (07081406) | 386606.98 | 3772187.54 |
| *** AERMOD - VERSION 09292 *** | | | *** Elysian | | | |
| *** 11/23/10 | | | *** Floating NO2 Mitigated | | | |
| *** 10:14:54 | | | | | | |

PAGE 11

**MODELOPTs: RegDFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

SOURCE GROUP: ALL *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
INCLUDING SOURCE(S): PAREA3 , PAREA4 ,
*** DISCRETE CARTESIAN RECEPTOR POINTS ***

| | | ** CONC OF NOX | | IN PPM | |
|---------|---------------------------|----------------|---------|------------|----------------------------|
| CONC | X-COORD (M) (YYMMDDHH) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) Y-COORD (M) |
| 0.08627 | 386620.44 (06110320) | 3772178.57 | 0.04906 | (07020103) | 386742.87 3772003.56 |
| 0.01614 | 386386.30 (07082906) | 3771087.29 | 0.01549 | (06091823) | 386399.28 3771081.52 |
| 0.00204 | 386409.38 (07060324) | 3771067.10 | 0.01673 | (07082906) | 385296.78 3773131.99 |
| 0.00202 | 385287.93 (07101501) | 3773147.05 | 0.00202 | (07101501) | 385283.50 3773159.45 |
| 0.00265 | 385576.69 (07121620) | 3773089.48 | 0.00257 | (07121620) | 385597.95 3773060.25 |
| 0.00276 | 385609.46 (07121620) | 3773037.22 | 0.00269 | (07121620) | 385629.84 3772997.36 |

Floating Cover NO2 Mitigated

| | | | | | | |
|---------|-------------------------|------------|---------|------------|-----------|------------|
| 0.00311 | 385654.64 (07121620) | 3772953.07 | 0.00286 | (07121620) | 385706.01 | 3772876.89 |
| 0.00379 | 385752.07 (07121620) | 3772808.69 | 0.00336 | (07121620) | 385816.74 | 3772724.54 |
| 0.00470 | 385886.71 (07121620) | 3772645.70 | 0.00429 | (07121620) | 385952.26 | 3772579.27 |
| 0.00634 | 386020.46 (07061204) | 3772519.04 | 0.00539 | (07061204) | 386093.98 | 3772463.23 |
| 0.00952 | 386169.27 (07061204) | 3772410.97 | 0.00763 | (07061204) | 386248.11 | 3772359.60 |
| 0.01760 | 386328.71 (07061204) | 3772309.11 | 0.01240 | (07061204) | 386407.55 | 3772253.30 |
| 0.01271 | 387116.28 (06062804) | 3772187.40 | 0.01272 | (07070102) | 387141.00 | 3772141.51 |
| 0.01075 | 387201.01 (07070102) | 3772180.34 | 0.00985 | (06062804) | 387155.12 | 3772229.77 |
| 0.01142 | 386943.29 (07010320) | 3772540.45 | 0.01109 | (07010320) | 386925.64 | 3772582.82 |
| 0.01584 | 386526.69 (06090305) | 3770944.68 | 0.01842 | (06090305) | 386466.67 | 3770937.61 |
| 0.01559 | 386537.28 (06090305) | 3770884.66 | 0.01576 | (06090305) | 386480.80 | 3770881.13 |
| 0.00366 | 387374.01 (07032307) | 3771597.81 | 0.00686 | (07070124) | 384880.19 | 3771187.72 |
| 0.00380 | 384901.45 (07081506) | 3771161.15 | 0.00354 | (07081506) | 384909.41 | 3771118.65 |
| 0.00368 | 384912.07 (07081506) | 3771078.80 | 0.00380 | (07081506) | 384920.04 | 3771052.24 |

*** AERMOD - VERSION 09292 *** *** Elysian
 *** 11/23/10
 *** 10:14:54 *** Floating NO2 Mitigated

PAGE 12

**MODELOPTs: RegDFAULT CONC

ELEV
 NODRYDPLT NOWETDPLT

*** THE SUMMARY OF HIGHEST 1-HR RESULTS ***

** CONC OF NOX IN PPM

**

| NETWORK | GROUP ID | ZELEV, ZHILL, ZFLAG) | OF TYPE | AVERAGE CONC | DATE | RECEPTOR | (XR, YR, |
|---------|------------------------|----------------------|---------|--------------|-------------------|------------|-------------|
| | | | | GRID-ID | (YYMMDDHH) | | |
| SRCGP1 | HIGH 1ST HIGH VALUE IS | | | 0.09421 | ON 06122919: AT (| 386590.95, | 3772133.70, |
| 96.54, | 182.00, | 0.00) DC | | | | | |
| ALL | HIGH 1ST HIGH VALUE IS | | | 0.09421 | ON 06122919: AT (| 386590.95, | 3772133.70, |
| 96.54, | 182.00, | 0.00) DC | | | | | |

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

*** AERMOD - VERSION 09292 *** *** Elysian
 *** 11/23/10
 *** 10:14:54 *** Floating NO2 Mitigated

PAGE 13

**MODELOPTs: RegDFAULT CONC

ELEV
 NODRYDPLT NOWETDPLT

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

Floating Cover NO2 Mitigated

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

A Total of 0 Fatal Error Message(s)
A Total of 0 Warning Message(s)
A Total of 113 Informational Message(s)

A Total of 17520 Hours Were Processed

A Total of 0 Calm Hours Identified

A Total of 113 Missing Hours Identified (0.64 Percent)

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

***** WARNING MESSAGES *****
*** NONE ***

*** AERMOD Finishes Successfully ***

Floating Cover CO Mitigated

```
**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 6.7.1
** Lakes Environmental Software Inc.
** Date: 11/23/2010
** File: C:\Documents and Settings\jbailey\Desktop\Elysian Park AerMod\elysian\F_COM.ADI
**
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**
CO STARTING
TITLEONE Elysian
TITLETWO Floating CO Mitigated
MODELOPT DFAULT CONC NODRYDPLT NOWETDPLT
AVERTIME 1 8
URBANOPT 9862049 LA
POLLUTID CO
RUNORNOT RUN
CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
LOCATION PAREA3 AREAPOLY 386606.494 3771295.572 139.670
** DESCRSRC Reservoir
LOCATION PAREA4 AREAPOLY 386598.189 3772118.131 96.350
** DESCRSRC Caltrans
** Source Parameters **
SRCPARAM PAREA3 0.0000293718 5.000 18
AREAVERT PAREA3 386606.494 3771295.572 386560.430 3771386.706
AREAVERT PAREA3 386502.641 3771467.538 386454.064 3771523.011
AREAVERT PAREA3 386432.288 3771547.577 386455.739 3771575.313
AREAVERT PAREA3 386485.890 3771583.238 386543.680 3771557.879
AREAVERT PAREA3 386593.931 3771507.954 386619.057 3771483.387
AREAVERT PAREA3 386650.046 3771442.179 386660.096 3771427.914
AREAVERT PAREA3 386676.847 3771408.103 386688.572 3771388.291
AREAVERT PAREA3 386676.847 3771361.347 386655.909 3771323.308
AREAVERT PAREA3 386640.833 3771309.044 386614.032 3771295.572
SRCPARAM PAREA4 0.000105883 5.000 14
AREAVERT PAREA4 386598.189 3772118.131 386582.499 3772090.138
AREAVERT PAREA4 386633.724 3772053.797 386639.492 3772051.587
AREAVERT PAREA4 386653.798 3772051.341 386669.719 3772039.800
AREAVERT PAREA4 386684.025 3772011.316 386695.331 3771993.391
AREAVERT PAREA4 386697.639 3771989.462 386718.867 3771999.775
AREAVERT PAREA4 386698.331 3772048.886 386685.179 3772065.583
AREAVERT PAREA4 386673.872 3772076.387 386653.567 3772089.647
URBANSRC PAREA3
URBANSRC PAREA4
CONCUNIT 873.2 GRAMS/SEC PPM
SRCGROUP SRCGP1 PAREA4 PAREA3
SRCGROUP ALL
SO FINISHED
**
*****
** AERMOD Receptor Pathway
*****
**
**
RE STARTING
```

Floating Cover CO Mitigated

```
INCLUDED F_COM.rou
RE FINISHED
**
*****
** AERMOD Meteorology Pathway
*****
**
**
ME STARTING
SURFFILE "L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\cela.SFC"
PROFFILE "L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\cela.PFL"
SURFDATA 0 2006
UAIRDATA 3190 2006
PROFBASE 10 METERS
ME FINISHED
**
*****
** AERMOD Output Pathway
*****
**
**
OU STARTING
RECTABLE ALLAVE 1ST
RECTABLE 1 1ST
RECTABLE 8 1ST
** Auto-Generated Plotfiles
PLOTFILE 1 ALL 1ST F_COM.AD\01H1GALL.PLT
PLOTFILE 8 ALL 1ST F_COM.AD\08H1GALL.PLT
PLOTFILE 1 SRCGP1 1ST F_COM.AD\01H1G001.PLT
PLOTFILE 8 SRCGP1 1ST F_COM.AD\08H1G001.PLT
OU FINISHED

*****
*** SETUP Finishes Successfully ***
*****

*** AERMOD - VERSION 09292 ***      *** Elysian
***      11/23/10
***                                     *** Floating CO Mitigated
***      10:05:54

PAGE 1
**MODELOPTs:  RegDFault CONC                                ELEV
                                                         NODRYDPLT NOWETDPLT

***      MODEL SETUP OPTIONS SUMMARY      ***
-----

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

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

**Model Uses URBAN Dispersion Algorithm for the SBL for      2 Source(s),
for Total of      1 Urban Area(s):
Urban Population = 9862049.0 ; Urban Roughness Length = 1.000 m

**Model Uses Regulatory DEFAULT Options:
1. Stack-tip Downwash.
2. Model Accounts for ELEVated Terrain Effects.
3. Use Calms Processing Routine.
4. Use Missing Data Processing Routine.
5. No Exponential Decay for URBAN/Non-SO2.
6. Urban Roughness Length of 1.0 Meter Assumed.

**Model Assumes No FLAGPOLE Receptor Heights.
```

Floating Cover CO Mitigated

**Model Calculates 2 Short Term Average(s) of: 1-HR 8-HR
 **This Run Includes: 2 Source(s); 2 Source Group(s); and 120 Receptor(s)
 **The Model Assumes A Pollutant Type of: CO
 **Model Set To Continue RUNNING After the Setup Testing.

**Output Options Selected:
 Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
 Model Outputs External File(s) of High Values for Plotting (PLOTFILE 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) = 10.00 ; Decay Coef. = 0.000
 ; Rot. Angle = 0.0
 Emission Units = GRAMS/SEC ; Emission Rate
 Unit Factor = 873.20
 Output Units = PPM

**Approximate Storage Requirements of Model = 3.5 MB of RAM.

*** AERMOD - VERSION 09292 *** *** Elysian
 *** 11/23/10
 *** Floating CO Mitigated
 *** 10:05:54

PAGE 2

**MODELOPTs: RegDEFAULT CONC ELEV
 NODRYDPLT NOWETDPLT

*** AREAPOLY SOURCE DATA ***

| URBAN | EMISSION RATE | NUMBER | EMISSION RATE | LOCATION OF AREA | BASE | RELEASE | NUMBER | INIT. |
|--------|---------------|-------------|---------------|------------------|----------|----------|----------|-----------|
| SOURCE | PART. | (USER UNITS | | X | Y | ELEV. | HEIGHT | OF VERTS. |
| SOURCE | SCALAR | VARY | | (METERS) | (METERS) | (METERS) | (METERS) | SZ |
| ID | CATS. | /METER**2) | | (METERS) | (METERS) | (METERS) | (METERS) | (METERS) |

BY

| | | | | | | | | |
|--------|---|-------------|----------|-----------|-------|------|----|------|
| PAREA3 | 0 | 0.29372E-04 | 386606.5 | 3771295.6 | 139.7 | 5.00 | 18 | 0.00 |
| YES | | | | | | | | |
| PAREA4 | 0 | 0.10588E-03 | 386598.2 | 3772118.1 | 96.3 | 5.00 | 14 | 0.00 |
| YES | | | | | | | | |

*** AERMOD - VERSION 09292 *** *** Elysian
 *** 11/23/10
 *** Floating CO Mitigated
 *** 10:05:54

PAGE 3

**MODELOPTs: RegDEFAULT CONC ELEV
 NODRYDPLT NOWETDPLT

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID SOURCE IDs

SRCGP1 PAREA3 , PAREA4 ,

ALL PAREA3 , PAREA4 ,

Floating Cover CO Mitigated

*** AERMOD - VERSION 09292 ***
 *** 11/23/10
 *** 10:05:54

*** Elysian
 *** Floating CO Mitigated

PAGE 4

**MODELOPTs: RegDFAULT CONC

ELEV
 NODRYDPLT NOWETDPLT

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

| | | | | |
|------------------------|--------|--------|-------|------------------------|
| (386476.8, 3771139.5, | 143.3, | 181.0, | 0.0); | (386470.4, 3771149.7, |
| 144.2, 181.0, 0.0); | | | | |
| (386460.2, 3771160.0, | 145.3, | 181.0, | 0.0); | (386449.3, 3771172.8, |
| 146.6, 181.0, 0.0); | | | | |
| (386440.3, 3771184.3, | 147.6, | 181.0, | 0.0); | (386434.5, 3771197.8, |
| 148.6, 181.0, 0.0); | | | | |
| (386405.0, 3771244.6, | 152.9, | 181.0, | 0.0); | (386409.5, 3771235.6, |
| 151.9, 181.0, 0.0); | | | | |
| (386416.6, 3771223.4, | 150.9, | 181.0, | 0.0); | (386421.1, 3771217.0, |
| 150.3, 181.0, 0.0); | | | | |
| (386426.2, 3771210.0, | 149.6, | 181.0, | 0.0); | (386274.3, 3771299.7, |
| 168.1, 181.0, 0.0); | | | | |
| (386278.8, 3771290.1, | 167.4, | 181.0, | 0.0); | (386287.8, 3771280.5, |
| 166.6, 181.0, 0.0); | | | | |
| (386296.1, 3771269.6, | 164.9, | 181.0, | 0.0); | (386303.1, 3771259.3, |
| 163.5, 181.0, 0.0); | | | | |
| (386340.3, 3771210.6, | 155.9, | 181.0, | 0.0); | (386331.3, 3771222.1, |
| 157.6, 181.0, 0.0); | | | | |
| (386323.0, 3771233.7, | 159.3, | 181.0, | 0.0); | (386312.8, 3771248.4, |
| 161.6, 181.0, 0.0); | | | | |
| (386415.3, 3771092.0, | 143.8, | 181.0, | 0.0); | (386380.0, 3771051.0, |
| 142.9, 164.0, 0.0); | | | | |
| (386392.2, 3771050.4, | 142.2, | 181.0, | 0.0); | (386374.3, 3771063.2, |
| 144.0, 164.0, 0.0); | | | | |
| (386402.5, 3771098.4, | 144.8, | 181.0, | 0.0); | (386419.8, 3771082.4, |
| 142.9, 181.0, 0.0); | | | | |
| (386163.4, 3771763.8, | 182.0, | 182.0, | 0.0); | (386081.3, 3771480.5, |
| 178.0, 178.0, 0.0); | | | | |
| (386103.8, 3771527.9, | 179.8, | 179.8, | 0.0); | (386120.4, 3771576.0, |
| 181.1, 181.1, 0.0); | | | | |
| (386135.8, 3771613.8, | 182.0, | 182.0, | 0.0); | (386146.7, 3771651.6, |
| 182.0, 182.0, 0.0); | | | | |
| (386156.3, 3771690.8, | 182.0, | 182.0, | 0.0); | (386164.7, 3771730.5, |
| 182.0, 182.0, 0.0); | | | | |
| (386716.6, 3772090.1, | 93.4, | 182.0, | 0.0); | (386705.7, 3772082.4, |
| 93.0, 182.0, 0.0); | | | | |
| (386714.7, 3772074.7, | 93.3, | 182.0, | 0.0); | (386723.0, 3772061.9, |
| 93.7, 182.0, 0.0); | | | | |
| (386732.0, 3772036.9, | 94.0, | 182.0, | 0.0); | (386728.1, 3772051.0, |
| 93.9, 182.0, 0.0); | | | | |
| (386737.1, 3772022.1, | 94.2, | 182.0, | 0.0); | (386699.3, 3772099.1, |
| 92.7, 182.0, 0.0); | | | | |
| (386690.3, 3772107.4, | 92.4, | 182.0, | 0.0); | (386682.6, 3772113.8, |
| 92.1, 182.0, 0.0); | | | | |
| (386674.3, 3772123.4, | 92.3, | 182.0, | 0.0); | (386664.7, 3772134.3, |
| 92.8, 182.0, 0.0); | | | | |
| (386654.4, 3772145.2, | 93.1, | 182.0, | 0.0); | (386605.7, 3772127.3, |
| 95.6, 182.0, 0.0); | | | | |
| (386591.0, 3772133.7, | 96.5, | 182.0, | 0.0); | (386579.4, 3772139.5, |
| 97.2, 182.0, 0.0); | | | | |
| (386560.2, 3772147.2, | 98.4, | 182.0, | 0.0); | (386545.4, 3772154.8, |
| 99.0, 182.0, 0.0); | | | | |
| (386533.3, 3772162.5, | 99.5, | 182.0, | 0.0); | (386542.9, 3772179.8, |
| 98.2, 182.0, 0.0); | | | | |
| (386553.1, 3772195.9, | 96.9, | 182.0, | 0.0); | (386568.5, 3772208.7, |
| 95.5, 182.0, 0.0); | | | | |
| (386582.0, 3772192.7, | 95.3, | 182.0, | 0.0); | (386595.4, 3772181.1, |
| 94.8, 182.0, 0.0); | | | | |

Floating Cover CO Mitigated

| | | | | |
|--------------------------------|---------------------------|--------|-------|------------------------|
| (386609.5, 3772168.9, | 94.5, | 182.0, | 0.0); | (386624.3, 3772152.3, |
| 94.3, 182.0, 0.0); | | | | |
| (386619.2, 3772140.1, | 94.7, | 182.0, | 0.0); | (386640.3, 3772163.8, |
| 93.5, 182.0, 0.0); | | | | |
| (386653.8, 3772174.7, | 93.0, | 182.0, | 0.0); | (386666.0, 3772186.3, |
| 92.7, 182.0, 0.0); | | | | |
| (386677.5, 3772197.8, | 92.5, | 182.0, | 0.0); | (386688.4, 3772208.7, |
| 92.8, 182.0, 0.0); | | | | |
| (386701.2, 3772222.2, | 93.5, | 182.0, | 0.0); | (386448.6, 3772217.7, |
| 102.7, 182.0, 0.0); | | | | |
| (386456.3, 3772212.5, | 102.4, | 182.0, | 0.0); | (386465.3, 3772206.1, |
| 102.1, 182.0, 0.0); | | | | |
| (386474.3, 3772200.4, | 101.8, | 182.0, | 0.0); | (386481.3, 3772194.6, |
| 101.5, 182.0, 0.0); | | | | |
| (386489.0, 3772190.1, | 101.2, | 182.0, | 0.0); | (386499.3, 3772183.1, |
| 100.9, 182.0, 0.0); | | | | |
| (386507.6, 3772177.9, | 100.5, | 182.0, | 0.0); | (386514.7, 3772171.5, |
| 100.3, 182.0, 0.0); | | | | |
| (386576.8, 3772219.6, | 94.6, | 182.0, | 0.0); | (386586.5, 3772209.3, |
| 94.4, 182.0, 0.0); | | | | |
| (386597.4, 3772197.8, | 94.2, | 182.0, | 0.0); | (386607.0, 3772187.5, |
| 94.0, 182.0, 0.0); | | | | |
| (386620.4, 3772178.6, | 93.9, | 182.0, | 0.0); | (386742.9, 3772003.6, |
| 94.5, 182.0, 0.0); | | | | |
| (386386.3, 3771087.3, | 144.9, | 181.0, | 0.0); | (386399.3, 3771081.5, |
| 143.9, 181.0, 0.0); | | | | |
| (386409.4, 3771067.1, | 142.4, | 181.0, | 0.0); | (385296.8, 3773132.0, |
| 117.7, 182.0, 0.0); | | | | |
| (385287.9, 3773147.0, | 117.7, | 182.0, | 0.0); | (385283.5, 3773159.4, |
| 117.2, 182.0, 0.0); | | | | |
| (385576.7, 3773089.5, | 103.9, | 182.0, | 0.0); | (385598.0, 3773060.2, |
| 104.0, 182.0, 0.0); | | | | |
| *** AERMOD - VERSION 09292 *** | *** Elysian | | | |
| *** 11/23/10 | *** Floating CO Mitigated | | | |
| *** 10:05:54 | | | | |

PAGE 5

**MODELOPTs: RegDFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

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

| | | | | |
|------------------------|--------|--------|-------|------------------------|
| (385609.5, 3773037.2, | 104.5, | 182.0, | 0.0); | (385629.8, 3772997.4, |
| 105.3, 182.0, 0.0); | | | | |
| (385654.6, 3772953.1, | 106.0, | 182.0, | 0.0); | (385706.0, 3772876.9, |
| 106.7, 182.0, 0.0); | | | | |
| (385752.1, 3772808.7, | 107.3, | 182.0, | 0.0); | (385816.7, 3772724.5, |
| 108.9, 182.0, 0.0); | | | | |
| (385886.7, 3772645.7, | 110.4, | 182.0, | 0.0); | (385952.3, 3772579.3, |
| 111.3, 182.0, 0.0); | | | | |
| (386020.5, 3772519.0, | 111.7, | 182.0, | 0.0); | (386094.0, 3772463.2, |
| 111.1, 182.0, 0.0); | | | | |
| (386169.3, 3772411.0, | 110.4, | 182.0, | 0.0); | (386248.1, 3772359.6, |
| 108.8, 182.0, 0.0); | | | | |
| (386328.7, 3772309.1, | 105.9, | 182.0, | 0.0); | (386407.5, 3772253.3, |
| 103.3, 182.0, 0.0); | | | | |
| (387116.3, 3772187.4, | 108.2, | 182.0, | 0.0); | (387141.0, 3772141.5, |
| 108.9, 108.9, 0.0); | | | | |
| (387201.0, 3772180.3, | 110.6, | 182.0, | 0.0); | (387155.1, 3772229.8, |
| 110.0, 182.0, 0.0); | | | | |
| (386943.3, 3772540.4, | 102.9, | 243.0, | 0.0); | (386925.6, 3772582.8, |
| 102.9, 243.0, 0.0); | | | | |
| (386526.7, 3770944.7, | 129.0, | 131.0, | 0.0); | (386466.7, 3770937.6, |
| 131.1, 131.1, 0.0); | | | | |
| (386537.3, 3770884.7, | 123.8, | 123.8, | 0.0); | (386480.8, 3770881.1, |
| 125.8, 125.8, 0.0); | | | | |
| (387374.0, 3771597.8, | 112.1, | 112.1, | 0.0); | (384880.2, 3771187.7, |
| 166.9, 166.9, 0.0); | | | | |

Floating Cover CO Mitigated

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( 384901.5, 3771161.1, 167.0, 167.0, 0.0); ( 384909.4, 3771118.6,
165.9, 165.9, 0.0);
( 384912.1, 3771078.8, 164.8, 164.8, 0.0); ( 384920.0, 3771052.2,
164.2, 164.2, 0.0);
*** AERMOD - VERSION 09292 *** *** Elysian
*** 11/23/10 *** Floating CO Mitigated
*** 10:05:54
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PAGE 6
 **MODELOPTs: RegDFAULT CONC

ELEV
 NODRYDPLT NOWETDPLT

*** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
 (1=YES; 0=NO)

```

      1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1  1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
      1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1  1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
      1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1  1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
      1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1  1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
      1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1  1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
      1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1  1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
      1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1  1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
```

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES
 (METERS/SEC)

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*** AERMOD - VERSION 09292 *** *** Elysian
*** 11/23/10 *** Floating CO Mitigated
*** 10:05:54
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PAGE 7
 **MODELOPTs: RegDFAULT CONC

ELEV
 NODRYDPLT NOWETDPLT

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

```

Surface file:  L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met
Data\cela.SFC Met Version: 06341
Profile file:  L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met
Data\cela.PFL
Surface format: FREE
Profile format: FREE
Surface station no.: 0 Upper air station no.: 3190
Name: UNKNOWN Name: UNKNOWN
Year: 2006 Year: 2006
```

First 24 hours of scalar data

| YR | MO | DY | JDY | HR | H0 | U* | W* | DT/DZ | ZICNV | ZIMCH | M-O | LEN | Z0 | BOWEN | ALBEDO | REF | WS |
|------|------|-------|------|----|------|-------|--------|--------|-------|-------|-----|------|------|-------|--------|------|----|
| WD | HT | REF | TA | HT | | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 01 | -0.9 | 0.040 | -9.000 | -9.000 | -999. | 18. | 6.3 | 0.65 | 1.00 | 1.00 | | 0.70 | |
| 347. | 21.3 | 286.4 | 17.7 | | | | | | | | | | | | | | |

Floating Cover CO Mitigated

| | | | | | | | | | | | | | | | |
|------|------|-------|------|----|-------|-------|--------|--------|-------|-------|---------|------|------|------|------|
| 06 | 01 | 01 | 1 | 02 | -3.0 | 0.086 | -9.000 | -9.000 | -999. | 58. | 19.1 | 0.65 | 1.00 | 1.00 | 1.50 |
| 82. | 21.3 | 286.4 | 17.7 | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 03 | -1.3 | 0.057 | -9.000 | -9.000 | -999. | 31. | 12.7 | 0.65 | 1.00 | 1.00 | 1.00 |
| 66. | 21.3 | 286.4 | 17.7 | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 04 | -1.9 | 0.069 | -9.000 | -9.000 | -999. | 41. | 15.2 | 0.65 | 1.00 | 1.00 | 1.20 |
| 23. | 21.3 | 285.9 | 17.7 | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 05 | -3.5 | 0.080 | -9.000 | -9.000 | -999. | 52. | 13.1 | 0.65 | 1.00 | 1.00 | 1.40 |
| 61. | 21.3 | 285.4 | 17.7 | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 06 | -3.0 | 0.086 | -9.000 | -9.000 | -999. | 58. | 19.0 | 0.65 | 1.00 | 1.00 | 1.50 |
| 83. | 21.3 | 285.4 | 17.7 | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 07 | -6.1 | 0.103 | -9.000 | -9.000 | -999. | 76. | 16.2 | 0.65 | 1.00 | 1.00 | 1.80 |
| 64. | 21.3 | 285.4 | 17.7 | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 08 | -3.3 | 0.080 | -9.000 | -9.000 | -999. | 52. | 14.1 | 0.65 | 1.00 | 0.55 | 1.40 |
| 46. | 21.3 | 285.4 | 17.7 | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 09 | 26.6 | 0.304 | 0.644 | 0.005 | 362. | 385. | -95.4 | 0.65 | 1.00 | 0.32 | 2.30 |
| 87. | 21.3 | 286.4 | 17.7 | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 10 | 21.0 | 0.227 | 0.732 | 0.005 | 675. | 250. | -50.2 | 0.65 | 1.00 | 0.24 | 1.60 |
| 76. | 21.3 | 286.4 | 17.7 | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 11 | 35.8 | 0.197 | 0.912 | 0.005 | 766. | 201. | -19.2 | 0.65 | 1.00 | 0.21 | 1.20 |
| 66. | 21.3 | 287.5 | 17.7 | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 12 | 14.9 | 0.281 | 0.686 | 0.005 | 785. | 343. | -135.5 | 0.65 | 1.00 | 0.20 | 2.20 |
| 79. | 21.3 | 287.5 | 17.7 | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 13 | 26.4 | 0.376 | 0.842 | 0.009 | 818. | 530. | -181.6 | 0.65 | 1.00 | 0.20 | 3.00 |
| 76. | 21.3 | 287.5 | 17.7 | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 14 | 39.0 | 0.385 | 0.979 | 0.014 | 867. | 549. | -131.8 | 0.65 | 1.00 | 0.21 | 3.00 |
| 80. | 21.3 | 288.1 | 17.7 | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 15 | 11.4 | 0.277 | 0.653 | 0.014 | 881. | 341. | -168.4 | 0.65 | 1.00 | 0.25 | 2.20 |
| 86. | 21.3 | 287.5 | 17.7 | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 16 | 0.1 | 0.343 | 0.135 | 0.014 | 881. | 462. | -8888.0 | 0.65 | 1.00 | 0.33 | 3.00 |
| 75. | 21.3 | 287.0 | 17.7 | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 17 | -13.7 | 0.266 | -9.000 | -9.000 | -999. | 319. | 125.0 | 0.65 | 1.00 | 0.60 | 2.90 |
| 82. | 21.3 | 286.4 | 17.7 | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 18 | -10.2 | 0.183 | -9.000 | -9.000 | -999. | 183. | 54.5 | 0.65 | 1.00 | 1.00 | 2.50 |
| 101. | 21.3 | 286.4 | 17.7 | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 19 | -16.1 | 0.289 | -9.000 | -9.000 | -999. | 358. | 135.6 | 0.65 | 1.00 | 1.00 | 3.10 |
| 97. | 21.3 | 285.9 | 17.7 | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 20 | -25.2 | 0.450 | -9.000 | -9.000 | -999. | 693. | 326.1 | 0.65 | 1.00 | 1.00 | 4.30 |
| 92. | 21.3 | 284.9 | 17.7 | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 21 | -27.3 | 0.487 | -9.000 | -9.000 | -999. | 781. | 381.9 | 0.65 | 1.00 | 1.00 | 4.60 |
| 88. | 21.3 | 284.2 | 17.7 | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 22 | -28.0 | 0.499 | -9.000 | -9.000 | -999. | 812. | 402.5 | 0.65 | 1.00 | 1.00 | 4.70 |
| 91. | 21.3 | 284.9 | 17.7 | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 23 | -36.1 | 0.645 | -9.000 | -9.000 | -999. | 1191. | 673.0 | 0.65 | 1.00 | 1.00 | 5.90 |
| 82. | 21.3 | 285.4 | 17.7 | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 24 | -35.3 | 0.633 | -9.000 | -9.000 | -999. | 1160. | 649.7 | 0.65 | 1.00 | 1.00 | 5.80 |
| 84. | 21.3 | 285.9 | 17.7 | | | | | | | | | | | | |

First hour of profile data

| YR | MO | DY | HR | HEIGHT | F | WDIR | WSPD | AMB_TMP | sigmaA | sigmaW | sigmaV |
|----|----|----|----|--------|---|-------|--------|---------|--------|--------|--------|
| 06 | 01 | 01 | 01 | 17.7 | 0 | -999. | -99.00 | 286.5 | 99.0 | -99.00 | -99.00 |
| 06 | 01 | 01 | 01 | 21.3 | 1 | 347. | 0.70 | -999.0 | 99.0 | -99.00 | -99.00 |

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

*** AERMOD - VERSION 09292 *** *** Elysian

*** 11/23/10

*** Floating CO Mitigated

*** 10:05:54

PAGE 8

**MODELOPTs: RegDFault CONC

ELEV
NODRYDPLT NOWETDPLT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
SOURCE GROUP: SRCGP1 ***
INCLUDING SOURCE(S): PAREA3 , PAREA4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF CO IN PPM

**

Floating Cover CO Mitigated

| CONC | X-COORD (M) (YYMMDDHH) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) |
|---------|---------------------------|-------------|---------|------------|-------------|-------------|
| 0.17876 | 386476.85 (06110221) | 3771139.46 | 0.18151 | (06110221) | 386470.44 | 3771149.72 |
| 0.16659 | 386460.18 (07082906) | 3771159.97 | 0.17269 | (06110221) | 386449.29 | 3771172.79 |
| 0.15790 | 386440.31 (07082906) | 3771184.33 | 0.16149 | (07082906) | 386434.54 | 3771197.79 |
| 0.13784 | 386405.05 (06091823) | 3771244.59 | 0.13539 | (07110406) | 386409.54 | 3771235.61 |
| 0.14688 | 386416.59 (07082906) | 3771223.43 | 0.14248 | (06091823) | 386421.08 | 3771217.02 |
| 0.08030 | 386426.21 (07120322) | 3771209.97 | 0.15147 | (07082906) | 386274.28 | 3771299.72 |
| 0.08486 | 386278.77 (07110406) | 3771290.10 | 0.08196 | (07110406) | 386287.75 | 3771280.49 |
| 0.09266 | 386296.08 (07110406) | 3771269.59 | 0.08894 | (07110406) | 386303.13 | 3771259.33 |
| 0.10722 | 386340.31 (07110406) | 3771210.61 | 0.11091 | (07110406) | 386331.34 | 3771222.15 |
| 0.09749 | 386323.00 (07110406) | 3771233.69 | 0.10308 | (07110406) | 386312.75 | 3771248.43 |
| 0.12507 | 386415.31 (06091823) | 3771092.02 | 0.14333 | (07082906) | 386380.05 | 3771051.00 |
| 0.12376 | 386392.23 (06091823) | 3771050.36 | 0.13049 | (07082906) | 386374.29 | 3771063.18 |
| 0.14512 | 386402.49 (07082906) | 3771098.43 | 0.13669 | (07082906) | 386419.80 | 3771082.41 |
| 0.07257 | 386163.39 (07050824) | 3771763.82 | 0.08126 | (07061204) | 386081.33 | 3771480.49 |
| 0.08278 | 386103.77 (06083124) | 3771527.92 | 0.07040 | (07050824) | 386120.44 | 3771576.00 |
| 0.09106 | 386135.82 (06030702) | 3771613.82 | 0.08437 | (06083124) | 386146.72 | 3771651.64 |
| 0.08119 | 386156.33 (07061204) | 3771690.75 | 0.09017 | (06030702) | 386164.67 | 3771730.49 |
| 0.54926 | 386716.60 (07071406) | 3772090.11 | 0.48716 | (07063006) | 386705.70 | 3772082.42 |
| 0.59699 | 386714.67 (07071406) | 3772074.72 | 0.58712 | (07071406) | 386723.00 | 3772061.90 |
| 0.70335 | 386731.99 (07030522) | 3772036.90 | 0.74385 | (07030522) | 386728.13 | 3772051.01 |
| 0.46462 | 386737.11 (07063006) | 3772022.15 | 0.71872 | (06111820) | 386699.29 | 3772099.08 |
| 0.45500 | 386690.31 (07020104) | 3772107.42 | 0.44678 | (07020104) | 386682.62 | 3772113.83 |
| 0.45880 | 386674.29 (07020103) | 3772123.44 | 0.45634 | (07020103) | 386664.67 | 3772134.34 |
| 0.73534 | 386654.42 (07070805) | 3772145.24 | 0.46114 | (07020103) | 386605.70 | 3772127.29 |
| 0.78973 | 386590.95 (06122919) | 3772133.70 | 0.80633 | (06122919) | 386579.42 | 3772139.47 |
| 0.51538 | 386560.18 (06122919) | 3772147.16 | 0.64796 | (06122919) | 386545.44 | 3772154.85 |
| 0.48008 | 386533.26 (06122919) | 3772162.54 | 0.42708 | (06122919) | 386542.88 | 3772179.85 |
| 0.39117 | 386553.13 (07121620) | 3772195.88 | 0.38775 | (07121620) | 386568.52 | 3772208.70 |
| 0.43654 | 386581.98 (07121620) | 3772192.67 | 0.43148 | (07121620) | 386595.44 | 3772181.13 |
| 0.49178 | 386609.54 (07020103) | 3772168.95 | 0.45003 | (07111522) | 386624.29 | 3772152.29 |
| 0.45085 | 386619.16 (07020103) | 3772140.11 | 0.56744 | (07081406) | 386640.31 | 3772163.83 |
| 0.37981 | 386653.77 (07020104) | 3772174.72 | 0.41321 | (07020103) | 386665.95 | 3772186.26 |
| 0.32648 | 386677.49 (07082624) | 3772197.80 | 0.34576 | (07020104) | 386688.39 | 3772208.70 |

Floating Cover CO Mitigated

| | | | | | | |
|---------|-------------------------|------------|---------|------------|-----------|------------|
| 0.19744 | 386701.21 (07061204) | 3772222.16 | 0.30710 | (07082624) | 386448.64 | 3772217.67 |
| 0.22065 | 386456.34 (07061204) | 3772212.55 | 0.20736 | (07061204) | 386465.31 | 3772206.13 |
| 0.24878 | 386474.29 (07061204) | 3772200.37 | 0.23465 | (07061204) | 386481.34 | 3772194.60 |
| 0.27710 | 386489.03 (07061204) | 3772190.11 | 0.25361 | (07061204) | 386499.29 | 3772183.06 |
| 0.32285 | 386507.62 (07061204) | 3772177.93 | 0.29769 | (07041701) | 386514.67 | 3772171.52 |
| 0.33818 | 386576.85 (07121620) | 3772219.60 | 0.33251 | (07121620) | 386586.47 | 3772209.34 |
| 0.38549 | 386597.36 (07111522) | 3772197.80 | 0.35537 | (07081406) | 386606.98 | 3772187.54 |

*** AERMOD - VERSION 09292 ***
 *** 11/23/10 ***
 *** 10:05:54 ***

*** Elysian
 *** Floating CO Mitigated

PAGE 9

**MODELOPTs: RegDFAULT CONC

ELEV
 NODRYDPLT NOWETDPLT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: SRCGP1 ***
 INCLUDING SOURCE(S): PAREA3 , PAREA4 ,
 *** DISCRETE CARTESIAN RECEPTOR POINTS ***
 ** CONC OF CO IN PPM

| CONC | X-COORD (M) (YYMMDDHH) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) |
|---------|---------------------------|-------------|---------|------------|-------------|-------------|
| 0.73842 | 386620.44 (06110320) | 3772178.57 | 0.41768 | (07020103) | 386742.87 | 3772003.56 |
| 0.13457 | 386386.30 (07082906) | 3771087.29 | 0.12872 | (06091823) | 386399.28 | 3771081.52 |
| 0.01736 | 386409.38 (07060324) | 3771067.10 | 0.13937 | (07082906) | 385296.78 | 3773131.99 |
| 0.01715 | 385287.93 (07101501) | 3773147.05 | 0.01719 | (07101501) | 385283.50 | 3773159.45 |
| 0.02195 | 385576.69 (07121620) | 3773089.48 | 0.02126 | (07121620) | 385597.95 | 3773060.25 |
| 0.02286 | 385609.46 (07121620) | 3773037.22 | 0.02226 | (07121620) | 385629.84 | 3772997.36 |
| 0.02572 | 385654.64 (07121620) | 3772953.07 | 0.02368 | (07121620) | 385706.01 | 3772876.89 |
| 0.03132 | 385752.07 (07121620) | 3772808.69 | 0.02777 | (07121620) | 385816.74 | 3772724.54 |
| 0.03981 | 385886.71 (07061204) | 3772645.70 | 0.03549 | (07121620) | 385952.26 | 3772579.27 |
| 0.05423 | 386020.46 (07061204) | 3772519.04 | 0.04612 | (07061204) | 386093.98 | 3772463.23 |
| 0.08149 | 386169.27 (07061204) | 3772410.97 | 0.06531 | (07061204) | 386248.11 | 3772359.60 |
| 0.15065 | 386328.71 (07061204) | 3772309.11 | 0.10610 | (07061204) | 386407.55 | 3772253.30 |
| 0.10879 | 387116.28 (06062804) | 3772187.40 | 0.10888 | (07070102) | 387141.00 | 3772141.51 |
| 0.09201 | 387201.01 (07070102) | 3772180.34 | 0.08434 | (06062804) | 387155.12 | 3772229.77 |
| 0.09710 | 386943.29 (07010320) | 3772540.45 | 0.09407 | (07010320) | 386925.64 | 3772582.82 |
| 0.13214 | 386526.69 (06090305) | 3770944.68 | 0.15349 | (06090305) | 386466.67 | 3770937.61 |
| 0.13005 | 386537.28 (06090305) | 3770884.66 | 0.13145 | (06090305) | 386480.80 | 3770881.13 |

Floating Cover CO Mitigated

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387374.01 3771597.81 0.05872 (07070124) 384880.19 3771187.72
0.03028 (07032307)
384901.45 3771161.15 0.02924 (07081506) 384909.41 3771118.65
0.03144 (07081506)
384912.07 3771078.80 0.03146 (07081506) 384920.04 3771052.24
0.03047 (07081506)
*** AERMOD - VERSION 09292 *** *** Elysian
*** 11/23/10 ***
*** 10:05:54 *** Floating CO Mitigated

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PAGE 10

**MODELOPTs: RegDFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

```

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
SOURCE GROUP: ALL *** INCLUDING SOURCE(S): PAREA3 , PAREA4 ,
*** DISCRETE CARTESIAN RECEPTOR POINTS ***
** CONC OF CO IN PPM

```

| CONC | X-COORD (M) (YYMMDDHH) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) |
|---------|---------------------------|-------------|---------|------------|-------------|-------------|
| 0.17876 | 386476.85 | 3771139.46 | 0.18151 | (06110221) | 386470.44 | 3771149.72 |
| 0.16659 | 386460.18 | 3771159.97 | 0.17269 | (06110221) | 386449.29 | 3771172.79 |
| 0.15790 | 386440.31 | 3771184.33 | 0.16149 | (07082906) | 386434.54 | 3771197.79 |
| 0.13784 | 386405.05 | 3771244.59 | 0.13539 | (07110406) | 386409.54 | 3771235.61 |
| 0.14688 | 386416.59 | 3771223.43 | 0.14248 | (06091823) | 386421.08 | 3771217.02 |
| 0.08030 | 386426.21 | 3771209.97 | 0.15147 | (07082906) | 386274.28 | 3771299.72 |
| 0.08486 | 386278.77 | 3771290.10 | 0.08196 | (07110406) | 386287.75 | 3771280.49 |
| 0.09266 | 386296.08 | 3771269.59 | 0.08894 | (07110406) | 386303.13 | 3771259.33 |
| 0.10722 | 386340.31 | 3771210.61 | 0.11091 | (07110406) | 386331.34 | 3771222.15 |
| 0.09749 | 386323.00 | 3771233.69 | 0.10308 | (07110406) | 386312.75 | 3771248.43 |
| 0.12507 | 386415.31 | 3771092.02 | 0.14333 | (07082906) | 386380.05 | 3771051.00 |
| 0.12376 | 386392.23 | 3771050.36 | 0.13049 | (07082906) | 386374.29 | 3771063.18 |
| 0.14512 | 386402.49 | 3771098.43 | 0.13669 | (07082906) | 386419.80 | 3771082.41 |
| 0.07257 | 386163.39 | 3771763.82 | 0.08126 | (07061204) | 386081.33 | 3771480.49 |
| 0.08278 | 386103.77 | 3771527.92 | 0.07040 | (07050824) | 386120.44 | 3771576.00 |
| 0.09106 | 386135.82 | 3771613.82 | 0.08437 | (06083124) | 386146.72 | 3771651.64 |
| 0.08119 | 386156.33 | 3771690.75 | 0.09017 | (06030702) | 386164.67 | 3771730.49 |
| 0.54926 | 386716.60 | 3772090.11 | 0.48716 | (07063006) | 386705.70 | 3772082.42 |
| 0.59699 | 386714.67 | 3772074.72 | 0.58712 | (07071406) | 386723.00 | 3772061.90 |
| 0.70335 | 386731.99 | 3772036.90 | 0.74385 | (07030522) | 386728.13 | 3772051.01 |
| 0.46462 | 386737.11 | 3772022.15 | 0.71872 | (06111820) | 386699.29 | 3772099.08 |

Floating Cover CO Mitigated

| | | | | | | |
|--------------------------------|-------------------------|------------|---------------------------|------------|-----------|------------|
| 0.45500 | 386690.31 (07020104) | 3772107.42 | 0.44678 | (07020104) | 386682.62 | 3772113.83 |
| 0.45880 | 386674.29 (07020103) | 3772123.44 | 0.45634 | (07020103) | 386664.67 | 3772134.34 |
| 0.73534 | 386654.42 (07070805) | 3772145.24 | 0.46114 | (07020103) | 386605.70 | 3772127.29 |
| 0.78973 | 386590.95 (06122919) | 3772133.70 | 0.80633 | (06122919) | 386579.42 | 3772139.47 |
| 0.51538 | 386560.18 (06122919) | 3772147.16 | 0.64796 | (06122919) | 386545.44 | 3772154.85 |
| 0.48008 | 386533.26 (06122919) | 3772162.54 | 0.42708 | (06122919) | 386542.88 | 3772179.85 |
| 0.39117 | 386553.13 (07121620) | 3772195.88 | 0.38775 | (07121620) | 386568.52 | 3772208.70 |
| 0.43654 | 386581.98 (07121620) | 3772192.67 | 0.43148 | (07121620) | 386595.44 | 3772181.13 |
| 0.49178 | 386609.54 (07020103) | 3772168.95 | 0.45003 | (07111522) | 386624.29 | 3772152.29 |
| 0.45085 | 386619.16 (07020103) | 3772140.11 | 0.56744 | (07081406) | 386640.31 | 3772163.83 |
| 0.37981 | 386653.77 (07020104) | 3772174.72 | 0.41321 | (07020103) | 386665.95 | 3772186.26 |
| 0.32648 | 386677.49 (07082624) | 3772197.80 | 0.34576 | (07020104) | 386688.39 | 3772208.70 |
| 0.19744 | 386701.21 (07061204) | 3772222.16 | 0.30710 | (07082624) | 386448.64 | 3772217.67 |
| 0.22065 | 386456.34 (07061204) | 3772212.55 | 0.20736 | (07061204) | 386465.31 | 3772206.13 |
| 0.24878 | 386474.29 (07061204) | 3772200.37 | 0.23465 | (07061204) | 386481.34 | 3772194.60 |
| 0.27710 | 386489.03 (07061204) | 3772190.11 | 0.25361 | (07061204) | 386499.29 | 3772183.06 |
| 0.32285 | 386507.62 (07061204) | 3772177.93 | 0.29769 | (07041701) | 386514.67 | 3772171.52 |
| 0.33818 | 386576.85 (07121620) | 3772219.60 | 0.33251 | (07121620) | 386586.47 | 3772209.34 |
| 0.38549 | 386597.36 (07111522) | 3772197.80 | 0.35537 | (07081406) | 386606.98 | 3772187.54 |
| *** AERMOD - VERSION 09292 *** | | | *** Elysian | | | |
| *** 11/23/10 | | | *** Floating CO Mitigated | | | |
| *** 10:05:54 | | | | | | |

PAGE 11

**MODELOPTs: RegDFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

SOURCE GROUP: ALL *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
INCLUDING SOURCE(S): PAREA3 , PAREA4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF CO IN PPM

**

| CONC | X-COORD (M) (YYMMDDHH) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) |
|---------|---------------------------|-------------|---------|------------|-------------|-------------|
| 0.73842 | 386620.44 (06110320) | 3772178.57 | 0.41768 | (07020103) | 386742.87 | 3772003.56 |
| 0.13457 | 386386.30 (07082906) | 3771087.29 | 0.12872 | (06091823) | 386399.28 | 3771081.52 |
| 0.01736 | 386409.38 (07060324) | 3771067.10 | 0.13937 | (07082906) | 385296.78 | 3773131.99 |
| 0.01715 | 385287.93 (07101501) | 3773147.05 | 0.01719 | (07101501) | 385283.50 | 3773159.45 |
| 0.02195 | 385576.69 (07121620) | 3773089.48 | 0.02126 | (07121620) | 385597.95 | 3773060.25 |

Floating Cover CO Mitigated

| | | | | | | |
|--------------------------------|-------------------------|------------|---------------------------|------------|-----------|------------|
| 0.02286 | 385609.46 (07121620) | 3773037.22 | 0.02226 | (07121620) | 385629.84 | 3772997.36 |
| 0.02572 | 385654.64 (07121620) | 3772953.07 | 0.02368 | (07121620) | 385706.01 | 3772876.89 |
| 0.03132 | 385752.07 (07121620) | 3772808.69 | 0.02777 | (07121620) | 385816.74 | 3772724.54 |
| 0.03981 | 385886.71 (07061204) | 3772645.70 | 0.03549 | (07121620) | 385952.26 | 3772579.27 |
| 0.05423 | 386020.46 (07061204) | 3772519.04 | 0.04612 | (07061204) | 386093.98 | 3772463.23 |
| 0.08149 | 386169.27 (07061204) | 3772410.97 | 0.06531 | (07061204) | 386248.11 | 3772359.60 |
| 0.15065 | 386328.71 (07061204) | 3772309.11 | 0.10610 | (07061204) | 386407.55 | 3772253.30 |
| 0.10879 | 387116.28 (06062804) | 3772187.40 | 0.10888 | (07070102) | 387141.00 | 3772141.51 |
| 0.09201 | 387201.01 (07070102) | 3772180.34 | 0.08434 | (06062804) | 387155.12 | 3772229.77 |
| 0.09710 | 386943.29 (07010320) | 3772540.45 | 0.09407 | (07010320) | 386925.64 | 3772582.82 |
| 0.13214 | 386526.69 (06090305) | 3770944.68 | 0.15349 | (06090305) | 386466.67 | 3770937.61 |
| 0.13005 | 386537.28 (06090305) | 3770884.66 | 0.13145 | (06090305) | 386480.80 | 3770881.13 |
| 0.03028 | 387374.01 (07032307) | 3771597.81 | 0.05872 | (07070124) | 384880.19 | 3771187.72 |
| 0.03144 | 384901.45 (07081506) | 3771161.15 | 0.02924 | (07081506) | 384909.41 | 3771118.65 |
| 0.03047 | 384912.07 (07081506) | 3771078.80 | 0.03146 | (07081506) | 384920.04 | 3771052.24 |
| *** AERMOD - VERSION 09292 *** | | | *** Elysian | | | |
| *** 11/23/10 | | | *** Floating CO Mitigated | | | |
| *** 10:05:54 | | | | | | |

PAGE 12

**MODELOPTs: RegDFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

SOURCE GROUP: SRCGP1 *** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR
INCLUDING SOURCE(S): PAREA3 , PAREA4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF CO IN PPM

**

| CONC | X-COORD (M) (YYMMDDHH) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) |
|---------|---------------------------|-------------|---------|------------|-------------|-------------|
| 0.11461 | 386476.85 (07122008) | 3771139.46 | 0.11381 | (07122008) | 386470.44 | 3771149.72 |
| 0.11016 | 386460.18 (07020208) | 3771159.97 | 0.11332 | (07122008) | 386449.29 | 3771172.79 |
| 0.11478 | 386440.31 (06020208) | 3771184.33 | 0.11255 | (06020208) | 386434.54 | 3771197.79 |
| 0.10850 | 386405.05 (06020208) | 3771244.59 | 0.10560 | (06020208) | 386409.54 | 3771235.61 |
| 0.11293 | 386416.59 (06020208) | 3771223.43 | 0.11147 | (06020208) | 386421.08 | 3771217.02 |
| 0.04206 | 386426.21 (07010408) | 3771209.97 | 0.11417 | (06020208) | 386274.28 | 3771299.72 |
| 0.04579 | 386278.77 (06020208) | 3771290.10 | 0.04219 | (06020508) | 386287.75 | 3771280.49 |
| 0.05610 | 386296.08 (06020208) | 3771269.59 | 0.05115 | (06020208) | 386303.13 | 3771259.33 |
| 0.07575 | 386340.31 (06020208) | 3771210.61 | 0.08135 | (06020208) | 386331.34 | 3771222.15 |

Floating Cover CO Mitigated

| | | | | | | |
|--------------------------------|-------------------------|------------|---------------------------|------------|-----------|------------|
| 0.06248 | 386323.00 (06020208) | 3771233.69 | 0.07002 | (06020208) | 386312.75 | 3771248.43 |
| 0.07487 | 386415.31 (07020208) | 3771092.02 | 0.08726 | (07020208) | 386380.05 | 3771051.00 |
| 0.07442 | 386392.23 (07020208) | 3771050.36 | 0.07735 | (07020208) | 386374.29 | 3771063.18 |
| 0.08696 | 386402.49 (07020208) | 3771098.43 | 0.08621 | (07020208) | 386419.80 | 3771082.41 |
| 0.02876 | 386163.39 (06121608) | 3771763.82 | 0.02005 | (06122908) | 386081.33 | 3771480.49 |
| 0.01935 | 386103.77 (06032508) | 3771527.92 | 0.02414 | (06121608) | 386120.44 | 3771576.00 |
| 0.01834 | 386135.82 (06032508) | 3771613.82 | 0.02063 | (06032508) | 386146.72 | 3771651.64 |
| 0.01981 | 386156.33 (06122908) | 3771690.75 | 0.01762 | (07102108) | 386164.67 | 3771730.49 |
| 0.32176 | 386716.60 (07111824) | 3772090.11 | 0.27157 | (07060408) | 386705.70 | 3772082.42 |
| 0.36443 | 386714.67 (07111824) | 3772074.72 | 0.34281 | (07111824) | 386723.00 | 3772061.90 |
| 0.36400 | 386731.99 (07111824) | 3772036.90 | 0.35068 | (06080408) | 386728.13 | 3772051.01 |
| 0.29466 | 386737.11 (07060408) | 3772022.15 | 0.36469 | (07080308) | 386699.29 | 3772099.08 |
| 0.29196 | 386690.31 (07041324) | 3772107.42 | 0.29280 | (07060408) | 386682.62 | 3772113.83 |
| 0.31210 | 386674.29 (07031908) | 3772123.44 | 0.30019 | (07041324) | 386664.67 | 3772134.34 |
| 0.41097 | 386654.42 (07031908) | 3772145.24 | 0.32074 | (07031908) | 386605.70 | 3772127.29 |
| 0.22231 | 386590.95 (06051308) | 3772133.70 | 0.30191 | (07031908) | 386579.42 | 3772139.47 |
| 0.13546 | 386560.18 (06041108) | 3772147.16 | 0.16418 | (06041108) | 386545.44 | 3772154.85 |
| 0.10336 | 386533.26 (06051308) | 3772162.54 | 0.11617 | (06041108) | 386542.88 | 3772179.85 |
| 0.12390 | 386553.13 (07031908) | 3772195.88 | 0.11637 | (06051308) | 386568.52 | 3772208.70 |
| 0.23028 | 386581.98 (07031908) | 3772192.67 | 0.17091 | (07031908) | 386595.44 | 3772181.13 |
| 0.36265 | 386609.54 (07031908) | 3772168.95 | 0.29829 | (07031908) | 386624.29 | 3772152.29 |
| 0.31058 | 386619.16 (07031908) | 3772140.11 | 0.40484 | (07031908) | 386640.31 | 3772163.83 |
| 0.22472 | 386653.77 (07041324) | 3772174.72 | 0.26265 | (07031908) | 386665.95 | 3772186.26 |
| 0.17777 | 386677.49 (07041324) | 3772197.80 | 0.19923 | (07041324) | 386688.39 | 3772208.70 |
| 0.05564 | 386701.21 (06041108) | 3772222.16 | 0.15409 | (07041324) | 386448.64 | 3772217.67 |
| 0.06275 | 386456.34 (06041108) | 3772212.55 | 0.05869 | (06041108) | 386465.31 | 3772206.13 |
| 0.07137 | 386474.29 (06041108) | 3772200.37 | 0.06708 | (06041108) | 386481.34 | 3772194.60 |
| 0.08270 | 386489.03 (06041108) | 3772190.11 | 0.07533 | (06041108) | 386499.29 | 3772183.06 |
| 0.09732 | 386507.62 (06041108) | 3772177.93 | 0.08925 | (06041108) | 386514.67 | 3772171.52 |
| 0.16893 | 386576.85 (07031908) | 3772219.60 | 0.13945 | (07031908) | 386586.47 | 3772209.34 |
| 0.24718 | 386597.36 (07031908) | 3772197.80 | 0.20845 | (07031908) | 386606.98 | 3772187.54 |
| *** AERMOD - VERSION 09292 *** | | | *** Elysian | | | |
| *** 11/23/10 | | | *** Floating CO Mitigated | | | |
| *** 10:05:54 | | | | | | |

PAGE 13

**MODELOPTs: RegDEFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

Floating Cover CO Mitigated

SOURCE GROUP: SRCGP1 *** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR
 INCLUDING SOURCE(S): PAREA3 , PAREA4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF CO IN PPM

**

| CONC | X-COORD (M) (YYMMDDHH) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) |
|---------|---------------------------|-------------|---------|------------|-------------|-------------|
| 0.36662 | 386620.44 | 3772178.57 | 0.28631 | (07031908) | 386742.87 | 3772003.56 |
| | (06082908) | | | | | |
| 0.08213 | 386386.30 | 3771087.29 | 0.08070 | (07020208) | 386399.28 | 3771081.52 |
| | (07020208) | | | | | |
| 0.00385 | 386409.38 | 3771067.10 | 0.08272 | (07020208) | 385296.78 | 3773131.99 |
| | (06120908) | | | | | |
| 0.00382 | 385287.93 | 3773147.05 | 0.00383 | (06120908) | 385283.50 | 3773159.45 |
| | (06120908) | | | | | |
| 0.00513 | 385576.69 | 3773089.48 | 0.00500 | (06051308) | 385597.95 | 3773060.25 |
| | (06051308) | | | | | |
| 0.00525 | 385609.46 | 3773037.22 | 0.00517 | (06051308) | 385629.84 | 3772997.36 |
| | (06051308) | | | | | |
| 0.00571 | 385654.64 | 3772953.07 | 0.00537 | (06051308) | 385706.01 | 3772876.89 |
| | (06051308) | | | | | |
| 0.00667 | 385752.07 | 3772808.69 | 0.00606 | (06051308) | 385816.74 | 3772724.54 |
| | (06051308) | | | | | |
| 0.00842 | 385886.71 | 3772645.70 | 0.00750 | (06051308) | 385952.26 | 3772579.27 |
| | (06051308) | | | | | |
| 0.01079 | 386020.46 | 3772519.04 | 0.00948 | (06051308) | 386093.98 | 3772463.23 |
| | (07021824) | | | | | |
| 0.01881 | 386169.27 | 3772410.97 | 0.01369 | (06041108) | 386248.11 | 3772359.60 |
| | (06041108) | | | | | |
| 0.04177 | 386328.71 | 3772309.11 | 0.02734 | (06041108) | 386407.55 | 3772253.30 |
| | (06041108) | | | | | |
| 0.03703 | 387116.28 | 3772187.40 | 0.04236 | (07111924) | 387141.00 | 3772141.51 |
| | (07101324) | | | | | |
| 0.03783 | 387201.01 | 3772180.34 | 0.03051 | (07111924) | 387155.12 | 3772229.77 |
| | (07111924) | | | | | |
| 0.03261 | 386943.29 | 3772540.45 | 0.03324 | (06101508) | 386925.64 | 3772582.82 |
| | (06101508) | | | | | |
| 0.05868 | 386526.69 | 3770944.68 | 0.05933 | (06081708) | 386466.67 | 3770937.61 |
| | (07122008) | | | | | |
| 0.04943 | 386537.28 | 3770884.66 | 0.05028 | (06081708) | 386480.80 | 3770881.13 |
| | (06081708) | | | | | |
| 0.01187 | 387374.01 | 3771597.81 | 0.02624 | (06103108) | 384880.19 | 3771187.72 |
| | (06103008) | | | | | |
| 0.01193 | 384901.45 | 3771161.15 | 0.01188 | (06103008) | 384909.41 | 3771118.65 |
| | (07012808) | | | | | |
| 0.01126 | 384912.07 | 3771078.80 | 0.01163 | (07012808) | 384920.04 | 3771052.24 |
| | (07012808) | | | | | |

*** AERMOD - VERSION 09292 ***
 *** 11/23/10

*** Elysian
 *** Floating CO Mitigated

*** 10:05:54

PAGE 14

**MODELOPTs: RegDFAULT CONC

ELEV
 NODRYDPLT NOWETDPLT

SOURCE GROUP: ALL *** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR
 INCLUDING SOURCE(S): PAREA3 , PAREA4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF CO IN PPM

**

Floating Cover CO Mitigated

| CONC | X-COORD (M) (YYMMDDHH) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) |
|---------|---------------------------|-------------|---------|------------|-------------|-------------|
| 0.11461 | 386476.85 (07122008) | 3771139.46 | 0.11381 | (07122008) | 386470.44 | 3771149.72 |
| 0.11016 | 386460.18 (07020208) | 3771159.97 | 0.11332 | (07122008) | 386449.29 | 3771172.79 |
| 0.11478 | 386440.31 (06020208) | 3771184.33 | 0.11255 | (06020208) | 386434.54 | 3771197.79 |
| 0.10850 | 386405.05 (06020208) | 3771244.59 | 0.10560 | (06020208) | 386409.54 | 3771235.61 |
| 0.11293 | 386416.59 (06020208) | 3771223.43 | 0.11147 | (06020208) | 386421.08 | 3771217.02 |
| 0.04206 | 386426.21 (07010408) | 3771209.97 | 0.11417 | (06020208) | 386274.28 | 3771299.72 |
| 0.04579 | 386278.77 (06020208) | 3771290.10 | 0.04219 | (06020508) | 386287.75 | 3771280.49 |
| 0.05610 | 386296.08 (06020208) | 3771269.59 | 0.05115 | (06020208) | 386303.13 | 3771259.33 |
| 0.07575 | 386340.31 (06020208) | 3771210.61 | 0.08135 | (06020208) | 386331.34 | 3771222.15 |
| 0.06248 | 386323.00 (06020208) | 3771233.69 | 0.07002 | (06020208) | 386312.75 | 3771248.43 |
| 0.07487 | 386415.31 (07020208) | 3771092.02 | 0.08726 | (07020208) | 386380.05 | 3771051.00 |
| 0.07442 | 386392.23 (07020208) | 3771050.36 | 0.07735 | (07020208) | 386374.29 | 3771063.18 |
| 0.08696 | 386402.49 (07020208) | 3771098.43 | 0.08621 | (07020208) | 386419.80 | 3771082.41 |
| 0.02876 | 386163.39 (06121608) | 3771763.82 | 0.02005 | (06122908) | 386081.33 | 3771480.49 |
| 0.01935 | 386103.77 (06032508) | 3771527.92 | 0.02414 | (06121608) | 386120.44 | 3771576.00 |
| 0.01834 | 386135.82 (06032508) | 3771613.82 | 0.02063 | (06032508) | 386146.72 | 3771651.64 |
| 0.01981 | 386156.33 (06122908) | 3771690.75 | 0.01762 | (07102108) | 386164.67 | 3771730.49 |
| 0.32176 | 386716.60 (07111824) | 3772090.11 | 0.27157 | (07060408) | 386705.70 | 3772082.42 |
| 0.36443 | 386714.67 (07111824) | 3772074.72 | 0.34281 | (07111824) | 386723.00 | 3772061.90 |
| 0.36400 | 386731.99 (07111824) | 3772036.90 | 0.35068 | (06080408) | 386728.13 | 3772051.01 |
| 0.29466 | 386737.11 (07060408) | 3772022.15 | 0.36469 | (07080308) | 386699.29 | 3772099.08 |
| 0.29196 | 386690.31 (07041324) | 3772107.42 | 0.29280 | (07060408) | 386682.62 | 3772113.83 |
| 0.31210 | 386674.29 (07031908) | 3772123.44 | 0.30019 | (07041324) | 386664.67 | 3772134.34 |
| 0.41097 | 386654.42 (07031908) | 3772145.24 | 0.32074 | (07031908) | 386605.70 | 3772127.29 |
| 0.22231 | 386590.95 (06051308) | 3772133.70 | 0.30191 | (07031908) | 386579.42 | 3772139.47 |
| 0.13546 | 386560.18 (06041108) | 3772147.16 | 0.16418 | (06041108) | 386545.44 | 3772154.85 |
| 0.10336 | 386533.26 (06051308) | 3772162.54 | 0.11617 | (06041108) | 386542.88 | 3772179.85 |
| 0.12390 | 386553.13 (07031908) | 3772195.88 | 0.11637 | (06051308) | 386568.52 | 3772208.70 |
| 0.23028 | 386581.98 (07031908) | 3772192.67 | 0.17091 | (07031908) | 386595.44 | 3772181.13 |
| 0.36265 | 386609.54 (07031908) | 3772168.95 | 0.29829 | (07031908) | 386624.29 | 3772152.29 |
| 0.31058 | 386619.16 (07031908) | 3772140.11 | 0.40484 | (07031908) | 386640.31 | 3772163.83 |
| 0.22472 | 386653.77 (07041324) | 3772174.72 | 0.26265 | (07031908) | 386665.95 | 3772186.26 |
| 0.17777 | 386677.49 (07041324) | 3772197.80 | 0.19923 | (07041324) | 386688.39 | 3772208.70 |

Floating Cover CO Mitigated

| | | | | | | |
|---------|-------------------------|------------|---------|------------|-----------|------------|
| 0.05564 | 386701.21 (06041108) | 3772222.16 | 0.15409 | (07041324) | 386448.64 | 3772217.67 |
| 0.06275 | 386456.34 (06041108) | 3772212.55 | 0.05869 | (06041108) | 386465.31 | 3772206.13 |
| 0.07137 | 386474.29 (06041108) | 3772200.37 | 0.06708 | (06041108) | 386481.34 | 3772194.60 |
| 0.08270 | 386489.03 (06041108) | 3772190.11 | 0.07533 | (06041108) | 386499.29 | 3772183.06 |
| 0.09732 | 386507.62 (06041108) | 3772177.93 | 0.08925 | (06041108) | 386514.67 | 3772171.52 |
| 0.16893 | 386576.85 (07031908) | 3772219.60 | 0.13945 | (07031908) | 386586.47 | 3772209.34 |
| 0.24718 | 386597.36 (07031908) | 3772197.80 | 0.20845 | (07031908) | 386606.98 | 3772187.54 |

*** AERMOD - VERSION 09292 ***
 *** 11/23/10 ***
 *** 10:05:54 ***

*** Elysian
 *** Floating CO Mitigated

PAGE 15

**MODELOPTs: RegDFAULT CONC

ELEV
 NODRYDPLT NOWETDPLT

*** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): PAREA3 , PAREA4 ,
 *** DISCRETE CARTESIAN RECEPTOR POINTS ***
 ** CONC OF CO IN PPM

| CONC | X-COORD (M) (YYMMDDHH) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) |
|---------|---------------------------|-------------|---------|------------|-------------|-------------|
| 0.36662 | 386620.44 (06082908) | 3772178.57 | 0.28631 | (07031908) | 386742.87 | 3772003.56 |
| 0.08213 | 386386.30 (07020208) | 3771087.29 | 0.08070 | (07020208) | 386399.28 | 3771081.52 |
| 0.00385 | 386409.38 (06120908) | 3771067.10 | 0.08272 | (07020208) | 385296.78 | 3773131.99 |
| 0.00382 | 385287.93 (06120908) | 3773147.05 | 0.00383 | (06120908) | 385283.50 | 3773159.45 |
| 0.00513 | 385576.69 (06051308) | 3773089.48 | 0.00500 | (06051308) | 385597.95 | 3773060.25 |
| 0.00525 | 385609.46 (06051308) | 3773037.22 | 0.00517 | (06051308) | 385629.84 | 3772997.36 |
| 0.00571 | 385654.64 (06051308) | 3772953.07 | 0.00537 | (06051308) | 385706.01 | 3772876.89 |
| 0.00667 | 385752.07 (06051308) | 3772808.69 | 0.00606 | (06051308) | 385816.74 | 3772724.54 |
| 0.00842 | 385886.71 (06051308) | 3772645.70 | 0.00750 | (06051308) | 385952.26 | 3772579.27 |
| 0.01079 | 386020.46 (07021824) | 3772519.04 | 0.00948 | (06051308) | 386093.98 | 3772463.23 |
| 0.01881 | 386169.27 (06041108) | 3772410.97 | 0.01369 | (06041108) | 386248.11 | 3772359.60 |
| 0.04177 | 386328.71 (06041108) | 3772309.11 | 0.02734 | (06041108) | 386407.55 | 3772253.30 |
| 0.03703 | 387116.28 (07101324) | 3772187.40 | 0.04236 | (07111924) | 387141.00 | 3772141.51 |
| 0.03783 | 387201.01 (07111924) | 3772180.34 | 0.03051 | (07111924) | 387155.12 | 3772229.77 |
| 0.03261 | 386943.29 (06101508) | 3772540.45 | 0.03324 | (06101508) | 386925.64 | 3772582.82 |
| 0.05868 | 386526.69 (07122008) | 3770944.68 | 0.05933 | (06081708) | 386466.67 | 3770937.61 |
| 0.04943 | 386537.28 (06081708) | 3770884.66 | 0.05028 | (06081708) | 386480.80 | 3770881.13 |

Floating Cover CO Mitigated

387374.01 3771597.81 0.02624 (06103108) 384880.19 3771187.72
0.01187 (06103008)
384901.45 3771161.15 0.01188 (06103008) 384909.41 3771118.65
0.01193 (07012808)
384912.07 3771078.80 0.01163 (07012808) 384920.04 3771052.24
0.01126 (07012808)
*** AERMOD - VERSION 09292 *** *** Elysian
*** 11/23/10 ***
*** 10:05:54 *** Floating CO Mitigated

PAGE 16

**MODELOPTs: RegDFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

*** THE SUMMARY OF HIGHEST 1-HR RESULTS ***

** CONC OF CO IN PPM
**
DATE
NETWORK
GROUP ID OF TYPE AVERAGE CONC (YYMMDDHH) RECEPTOR (XR, YR,
ZELEV, ZHILL, ZFLAG) OF TYPE GRID-ID

SRCGP1 HIGH 1ST HIGH VALUE IS 0.80633 ON 06122919: AT (386590.95, 3772133.70,
96.54, 182.00, 0.00) DC
ALL HIGH 1ST HIGH VALUE IS 0.80633 ON 06122919: AT (386590.95, 3772133.70,
96.54, 182.00, 0.00) DC

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

*** AERMOD - VERSION 09292 *** *** Elysian
*** 11/23/10 ***
*** 10:05:54 *** Floating CO Mitigated

PAGE 17

**MODELOPTs: RegDFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

*** THE SUMMARY OF HIGHEST 8-HR RESULTS ***

** CONC OF CO IN PPM
**
DATE
NETWORK
GROUP ID OF TYPE AVERAGE CONC (YYMMDDHH) RECEPTOR (XR, YR,
ZELEV, ZHILL, ZFLAG) OF TYPE GRID-ID

SRCGP1 HIGH 1ST HIGH VALUE IS 0.41097 ON 07031908: AT (386605.70, 3772127.29,
95.60, 182.00, 0.00) DC
ALL HIGH 1ST HIGH VALUE IS 0.41097 ON 07031908: AT (386605.70, 3772127.29,
95.60, 182.00, 0.00) DC

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

Floating Cover CO Mitigated

DP = DISCPOLR
*** AERMOD - VERSION 09292 *** *** Elysian
*** 11/23/10
*** Floating CO Mitigated
*** 10:05:54

PAGE 18

**MODELOPTs: RegDEFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

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

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

A Total of 0 Fatal Error Message(s)
A Total of 0 Warning Message(s)
A Total of 113 Informational Message(s)

A Total of 17520 Hours Were Processed

A Total of 0 Calm Hours Identified

A Total of 113 Missing Hours Identified (0.64 Percent)

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

***** WARNING MESSAGES *****
*** NONE ***

*** AERMOD Finishes Successfully ***

Floating Cover PM2.5 Unmitigated

```
**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 6.7.1
** Lakes Environmental Software Inc.
** Date: 11/23/2010
** File: C:\Documents and Settings\jbailey\Desktop\Elysian Park AerMod\elysian\Flt_PM25.ADI
**
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**
CO STARTING
  TITLEONE Elysian
  TITLETWO Floating PM25
  MODELOPT DFAULT CONC NODRYDPLT NOWETDPLT
  AVERTIME 24
  URBANOPT 9862049 LA
  POLLUTID PM.25
  RUNORNOT RUN
CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
  LOCATION PAREA3 AREAPOLY 386606.494 3771295.572 139.670
** DESCRSRC Reservoir
  LOCATION PAREA4 AREAPOLY 386596.536 3772117.718 96.500
** DESCRSRC Caltrans
  LOCATION AREA2 AREA 386602.251 3772074.114 96.950
  LOCATION AREA3 AREA 386514.382 3771483.886 154.350
** Source Parameters **
  SRCPARAM PAREA3 2.3316E-06 5.000 18
  AREAVERT PAREA3 386606.494 3771295.572 386560.430 3771386.706
  AREAVERT PAREA3 386502.641 3771467.538 386454.064 3771523.011
  AREAVERT PAREA3 386432.288 3771547.577 386455.739 3771575.313
  AREAVERT PAREA3 386485.890 3771583.238 386543.680 3771557.879
  AREAVERT PAREA3 386593.931 3771507.954 386619.057 3771483.387
  AREAVERT PAREA3 386650.046 3771442.179 386660.096 3771427.914
  AREAVERT PAREA3 386676.847 3771408.103 386688.572 3771388.291
  AREAVERT PAREA3 386676.847 3771361.347 386655.909 3771323.308
  AREAVERT PAREA3 386640.833 3771309.044 386614.032 3771295.572
  SRCPARAM PAREA4 8.5652E-06 5.000 14
  AREAVERT PAREA4 386596.536 3772117.718 386580.846 3772089.725
  AREAVERT PAREA4 386632.070 3772053.383 386637.838 3772051.173
  AREAVERT PAREA4 386652.144 3772050.928 386668.065 3772039.387
  AREAVERT PAREA4 386682.371 3772010.903 386693.678 3771992.977
  AREAVERT PAREA4 386695.985 3771989.049 386717.213 3771999.362
  AREAVERT PAREA4 386696.677 3772048.472 386683.525 3772065.170
  AREAVERT PAREA4 386672.219 3772075.974 386651.914 3772089.234
  SRCPARAM AREA2 0.0000189363 0.000 107.950 39.380 44.060 0.000
  SRCPARAM AREA3 0.0000228176 0.000 107.950 39.380 44.060 0.000
  URBANSRC PAREA3
  URBANSRC PAREA4
  URBANSRC AREA2
  URBANSRC AREA3
  SRCGROUP SRCGP1 PAREA4 PAREA3 AREA2 AREA3
  SRCGROUP ALL
SO FINISHED
**
*****
```

Floating Cover PM2.5 Unmitigated

```
** AERMOD Receptor Pathway
*****
**
**
RE STARTING
  INCLUDED Flt_PM25.rou
RE FINISHED
**
*****
** AERMOD Meteorology Pathway
*****
**
**
ME STARTING
  SURFFILE "L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\cela.SFC"
  PROFFILE "L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\cela.PFL"
  SURFDATA 0 2006
  UAIRDATA 3190 2006
  PROFBASE 10 METERS
ME FINISHED
**
*****
** AERMOD Output Pathway
*****
**
**
OU STARTING
  RECTABLE ALLAVE 1ST
  RECTABLE 24 1ST
** Auto-Generated Plotfiles
  PLOTFILE 24 ALL 1ST FLT_PM25.AD\24H1GALL.PLT
  PLOTFILE 24 SRCGP1 1ST FLT_PM25.AD\24H1G001.PLT
OU FINISHED

*****
*** SETUP Finishes Successfully ***
*****

*** AERMOD - VERSION 09292 ***      *** Elysian
***      11/23/10
***                                     *** Floating PM25
***      11:11:48

PAGE 1
**MODELOPTs:  RegDEFAULT CONC
                                                    ELEV
                                                    NODRYDPLT NOWETDPLT
***      MODEL SETUP OPTIONS SUMMARY      ***
-----
**Model Is Setup For Calculation of Average CONCentration Values.

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

**Model Uses URBAN Dispersion Algorithm for the SBL for      4 Source(s),
for Total of      1 Urban Area(s):
Urban Population =  9862049.0 ; Urban Roughness Length =  1.000 m

**Model Uses Regulatory DEFAULT Options:
1. Stack-tip Downwash.
2. Model Accounts for ELEVated Terrain Effects.
3. Use Calms Processing Routine.
4. Use Missing Data Processing Routine.
5. No Exponential Decay for URBAN/Non-SO2.
6. Urban Roughness Length of 1.0 Meter Assumed.
```

Floating Cover PM2.5 Unmitigated

**Model Assumes No FLAGPOLE Receptor Heights.
 **Model Calculates 1 Short Term Average(s) of: 24-HR
 **This Run Includes: 4 Source(s); 2 Source Group(s); and 120 Receptor(s)
 **The Model Assumes A Pollutant Type of: PM.25
 **Model Set To Continue RUNning After the Setup Testing.
 **Output Options Selected:
 Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
 Model Outputs External File(s) of High Values for Plotting (PLOTFILE 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) = 10.00 ; Decay Coef. = 0.000
 ; Rot. Angle = 0.0
 Emission Units = GRAMS/SEC ; Emission Rate
 Unit Factor = 0.10000E+07
 Output Units = MICROGRAMS/M**3

**Approximate Storage Requirements of Model = 3.5 MB of RAM.

*** AERMOD - VERSION 09292 *** *** Elysian
 *** 11/23/10 *** Floating PM25
 *** 11:11:48

PAGE 2

**MODELOPTs: RegDFAULT CONC ELEV
 NODRYDPLT NOWETDPLT

*** AREA SOURCE DATA ***

| ORIENT. | INIT. | NUMBER URBAN EMISSION RATE | COORD (SW CORNER) | BASE | RELEASE | X-DIM | Y-DIM | |
|---------|----------|----------------------------|-------------------|----------|----------|----------|----------|----------|
| SOURCE | PART. | (GRAMS/SEC | X | Y | ELEV. | HEIGHT | OF AREA | OF AREA |
| AREA | SZ | SCALAR VARY | (METERS) | (METERS) | (METERS) | (METERS) | (METERS) | (METERS) |
| (DEG.) | (METERS) | BY | | | | | | |

| | | | | | | | | |
|-------|------|-------------|----------|-----------|-------|------|--------|-------|
| AREA2 | 0 | 0.18936E-04 | 386602.3 | 3772074.1 | 97.0 | 0.00 | 107.95 | 39.38 |
| 44.06 | 0.00 | YES | | | | | | |
| AREA3 | 0 | 0.22818E-04 | 386514.4 | 3771483.9 | 154.4 | 0.00 | 107.95 | 39.38 |
| 44.06 | 0.00 | YES | | | | | | |

*** AERMOD - VERSION 09292 *** *** Elysian
 *** 11/23/10 *** Floating PM25
 *** 11:11:48

PAGE 3

**MODELOPTs: RegDFAULT CONC ELEV
 NODRYDPLT NOWETDPLT

*** AREAPOLY SOURCE DATA ***

| URBAN EMISSION RATE | NUMBER EMISSION RATE | LOCATION OF AREA | BASE | RELEASE | NUMBER | INIT. | | |
|---------------------|----------------------|------------------|----------|----------|----------|----------|-----------|----------|
| SOURCE | PART. | (GRAMS/SEC | X | Y | ELEV. | HEIGHT | OF VERTS. | SZ |
| SOURCE | SCALAR VARY | (METER**2) | (METERS) | (METERS) | (METERS) | (METERS) | (METERS) | (METERS) |
| ID | CATS. | BY | | | | | | |

Floating Cover PM2.5 Unmitigated

```

-----
PAREA3      0  0.23316E-05  386606.5  3771295.6  139.7   5.00   18   0.00
YES
PAREA4      0  0.85652E-05  386596.5  3772117.7   96.5   5.00   14   0.00
YES
*** AERMOD - VERSION 09292 ***   *** Elysian
***      11/23/10
***      11:11:48
*** Floating PM25

```

PAGE 4

**MODELOPTs: RegDEFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID SOURCE IDs

SRCGP1 PAREA3 , PAREA4 , AREA2 , AREA3 ,

```

ALL PAREA3 , PAREA4 , AREA2 , AREA3 ,
*** AERMOD - VERSION 09292 ***   *** Elysian
***      11/23/10
***      11:11:48
*** Floating PM25

```

PAGE 5

**MODELOPTs: RegDEFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

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

```

( 386476.8, 3771139.5, 143.3, 181.0, 0.0); ( 386470.4, 3771149.7,
144.2, 181.0, 0.0);
( 386460.2, 3771160.0, 145.3, 181.0, 0.0); ( 386449.3, 3771172.8,
146.6, 181.0, 0.0);
( 386440.3, 3771184.3, 147.6, 181.0, 0.0); ( 386434.5, 3771197.8,
148.6, 181.0, 0.0);
( 386405.0, 3771244.6, 152.9, 181.0, 0.0); ( 386409.5, 3771235.6,
151.9, 181.0, 0.0);
( 386416.6, 3771223.4, 150.9, 181.0, 0.0); ( 386421.1, 3771217.0,
150.3, 181.0, 0.0);
( 386426.2, 3771210.0, 149.6, 181.0, 0.0); ( 386274.3, 3771299.7,
168.1, 181.0, 0.0);
( 386278.8, 3771290.1, 167.4, 181.0, 0.0); ( 386287.8, 3771280.5,
166.6, 181.0, 0.0);
( 386296.1, 3771269.6, 164.9, 181.0, 0.0); ( 386303.1, 3771259.3,
163.5, 181.0, 0.0);
( 386340.3, 3771210.6, 155.9, 181.0, 0.0); ( 386331.3, 3771222.1,
157.6, 181.0, 0.0);
( 386323.0, 3771233.7, 159.3, 181.0, 0.0); ( 386312.8, 3771248.4,
161.6, 181.0, 0.0);
( 386415.3, 3771092.0, 143.8, 181.0, 0.0); ( 386380.0, 3771051.0,
142.9, 164.0, 0.0);
( 386392.2, 3771050.4, 142.2, 181.0, 0.0); ( 386374.3, 3771063.2,
144.0, 164.0, 0.0);
( 386402.5, 3771098.4, 144.8, 181.0, 0.0); ( 386419.8, 3771082.4,
142.9, 181.0, 0.0);
( 386163.4, 3771763.8, 182.0, 182.0, 0.0); ( 386081.3, 3771480.5,
178.0, 178.0, 0.0);
( 386103.8, 3771527.9, 179.8, 179.8, 0.0); ( 386120.4, 3771576.0,
181.1, 181.1, 0.0);

```

Floating Cover PM2.5 Unmitigated

| | | | | |
|------------------------|--------|--------|-------|------------------------|
| (386135.8, 3771613.8, | 182.0, | 182.0, | 0.0); | (386146.7, 3771651.6, |
| 182.0, 182.0, 0.0); | | | | |
| (386156.3, 3771690.8, | 182.0, | 182.0, | 0.0); | (386164.7, 3771730.5, |
| 182.0, 182.0, 0.0); | | | | |
| (386716.6, 3772090.1, | 93.4, | 182.0, | 0.0); | (386705.7, 3772082.4, |
| 93.0, 182.0, 0.0); | | | | |
| (386714.7, 3772074.7, | 93.3, | 182.0, | 0.0); | (386723.0, 3772061.9, |
| 93.7, 182.0, 0.0); | | | | |
| (386732.0, 3772036.9, | 94.0, | 182.0, | 0.0); | (386728.1, 3772051.0, |
| 93.9, 182.0, 0.0); | | | | |
| (386737.1, 3772022.1, | 94.2, | 182.0, | 0.0); | (386699.3, 3772099.1, |
| 92.7, 182.0, 0.0); | | | | |
| (386690.3, 3772107.4, | 92.4, | 182.0, | 0.0); | (386682.6, 3772113.8, |
| 92.1, 182.0, 0.0); | | | | |
| (386674.3, 3772123.4, | 92.3, | 182.0, | 0.0); | (386664.7, 3772134.3, |
| 92.8, 182.0, 0.0); | | | | |
| (386654.4, 3772145.2, | 93.1, | 182.0, | 0.0); | (386605.7, 3772127.3, |
| 95.6, 182.0, 0.0); | | | | |
| (386591.0, 3772133.7, | 96.5, | 182.0, | 0.0); | (386579.4, 3772139.5, |
| 97.2, 182.0, 0.0); | | | | |
| (386560.2, 3772147.2, | 98.4, | 182.0, | 0.0); | (386545.4, 3772154.8, |
| 99.0, 182.0, 0.0); | | | | |
| (386533.3, 3772162.5, | 99.5, | 182.0, | 0.0); | (386542.9, 3772179.8, |
| 98.2, 182.0, 0.0); | | | | |
| (386553.1, 3772195.9, | 96.9, | 182.0, | 0.0); | (386568.5, 3772208.7, |
| 95.5, 182.0, 0.0); | | | | |
| (386582.0, 3772192.7, | 95.3, | 182.0, | 0.0); | (386595.4, 3772181.1, |
| 94.8, 182.0, 0.0); | | | | |
| (386609.5, 3772168.9, | 94.5, | 182.0, | 0.0); | (386624.3, 3772152.3, |
| 94.3, 182.0, 0.0); | | | | |
| (386619.2, 3772140.1, | 94.7, | 182.0, | 0.0); | (386640.3, 3772163.8, |
| 93.5, 182.0, 0.0); | | | | |
| (386653.8, 3772174.7, | 93.0, | 182.0, | 0.0); | (386666.0, 3772186.3, |
| 92.7, 182.0, 0.0); | | | | |
| (386677.5, 3772197.8, | 92.5, | 182.0, | 0.0); | (386688.4, 3772208.7, |
| 92.8, 182.0, 0.0); | | | | |
| (386701.2, 3772222.2, | 93.5, | 182.0, | 0.0); | (386448.6, 3772217.7, |
| 102.7, 182.0, 0.0); | | | | |
| (386456.3, 3772212.5, | 102.4, | 182.0, | 0.0); | (386465.3, 3772206.1, |
| 102.1, 182.0, 0.0); | | | | |
| (386474.3, 3772200.4, | 101.8, | 182.0, | 0.0); | (386481.3, 3772194.6, |
| 101.5, 182.0, 0.0); | | | | |
| (386489.0, 3772190.1, | 101.2, | 182.0, | 0.0); | (386499.3, 3772183.1, |
| 100.9, 182.0, 0.0); | | | | |
| (386507.6, 3772177.9, | 100.5, | 182.0, | 0.0); | (386514.7, 3772171.5, |
| 100.3, 182.0, 0.0); | | | | |
| (386576.8, 3772219.6, | 94.6, | 182.0, | 0.0); | (386586.5, 3772209.3, |
| 94.4, 182.0, 0.0); | | | | |
| (386597.4, 3772197.8, | 94.2, | 182.0, | 0.0); | (386607.0, 3772187.5, |
| 94.0, 182.0, 0.0); | | | | |
| (386620.4, 3772178.6, | 93.9, | 182.0, | 0.0); | (386742.9, 3772003.6, |
| 94.5, 182.0, 0.0); | | | | |
| (386386.3, 3771087.3, | 144.9, | 181.0, | 0.0); | (386399.3, 3771081.5, |
| 143.9, 181.0, 0.0); | | | | |
| (386409.4, 3771067.1, | 142.4, | 181.0, | 0.0); | (385296.8, 3773132.0, |
| 117.7, 182.0, 0.0); | | | | |
| (385287.9, 3773147.0, | 117.7, | 182.0, | 0.0); | (385283.5, 3773159.4, |
| 117.2, 182.0, 0.0); | | | | |
| (385576.7, 3773089.5, | 103.9, | 182.0, | 0.0); | (385598.0, 3773060.2, |
| 104.0, 182.0, 0.0); | | | | |

*** AERMOD - VERSION 09292 ***
 *** 11/23/10
 *** 11:11:48

*** Elysian
 *** Floating PM25

PAGE 6
 **MODELOPTs: RegDFault CONC

ELEV
 NODRYPLT NOWETDPLT

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

Floating Cover PM2.5 Unmitigated

(METERS)

| | | |
|--|---------------------|------------------------|
| 105.3, (385609.5, 3773037.2, 182.0, 0.0); | 104.5, 182.0, 0.0); | (385629.8, 3772997.4, |
| (385654.6, 3772953.1, 182.0, 0.0); | 106.0, 182.0, 0.0); | (385706.0, 3772876.9, |
| 106.7, (385752.1, 3772808.7, 182.0, 0.0); | 107.3, 182.0, 0.0); | (385816.7, 3772724.5, |
| 108.9, (385886.7, 3772645.7, 182.0, 0.0); | 110.4, 182.0, 0.0); | (385952.3, 3772579.3, |
| 111.3, (386020.5, 3772519.0, 182.0, 0.0); | 111.7, 182.0, 0.0); | (386094.0, 3772463.2, |
| 111.1, (386169.3, 3772411.0, 182.0, 0.0); | 110.4, 182.0, 0.0); | (386248.1, 3772359.6, |
| 108.8, (386328.7, 3772309.1, 182.0, 0.0); | 105.9, 182.0, 0.0); | (386407.5, 3772253.3, |
| 103.3, (387116.3, 3772187.4, 182.0, 0.0); | 108.2, 182.0, 0.0); | (387141.0, 3772141.5, |
| 108.9, (387201.0, 3772180.3, 108.9, 0.0); | 110.6, 182.0, 0.0); | (387155.1, 3772229.8, |
| 110.0, (386943.3, 3772540.4, 182.0, 0.0); | 102.9, 243.0, 0.0); | (386925.6, 3772582.8, |
| 102.9, (386526.7, 3770944.7, 243.0, 0.0); | 129.0, 131.0, 0.0); | (386466.7, 3770937.6, |
| 131.1, (386537.3, 3770884.7, 131.1, 0.0); | 123.8, 123.8, 0.0); | (386480.8, 3770881.1, |
| 125.8, (387374.0, 3771597.8, 125.8, 0.0); | 112.1, 112.1, 0.0); | (384880.2, 3771187.7, |
| 166.9, (384901.5, 3771161.1, 166.9, 0.0); | 167.0, 167.0, 0.0); | (384909.4, 3771118.6, |
| 165.9, (384912.1, 3771078.8, 165.9, 0.0); | 164.8, 164.8, 0.0); | (384920.0, 3771052.2, |
| 164.2, (384912.1, 3771078.8, 164.2, 0.0); | | |

*** AERMOD - VERSION 09292 ***
 *** 11/23/10

*** Elysian
 *** Floating PM25

*** 11:11:48

PAGE 7

**MODELOPTs: RegDFAULT CONC

ELEV
 NODRYDPLT NOWETDPLT

*** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
 (1=YES; 0=NO)

| | | | | | |
|---|---------------------|---------------------|---------------------|---------------------|---------------------|
| 1 | 1 1 1 1 | 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 1 1 |
| 1 | 1 1 1 1 1 | 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 1 1 |
| 1 | 1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 1 1 |
| 1 | 1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 1 1 |
| 1 | 1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 1 1 |
| 1 | 1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 1 1 |
| 1 | 1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 1 1 |
| 1 | 1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 1 1 |
| 1 | 1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 1 1 |
| 1 | 1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 1 1 |

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES

(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

Floating Cover PM2.5 Unmitigated

*** AERMOD - VERSION 09292 *** *** Elysian
 *** 11/23/10
 *** Floating PM25
 *** 11:11:48

PAGE 8
 **MODELOPTs: RegDEFAULT CONC

ELEV
 NODRYDPLT NOWETDPLT

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

Surface file: L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\cela.SFC Met Version: 06341
 Profile file: L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\cela.PFL
 Surface format: FREE
 Profile format: FREE
 Surface station no.: 0 Upper air station no.: 3190
 Name: UNKNOWN Name: UNKNOWN
 Year: 2006 Year: 2006

| First 24 hours of scalar data | | | | | | | | | | | | | | | | | |
|-------------------------------|------|-------|-----|------|-------|-------|--------|--------|-------|-------|---------|------|------|-------|--------|-----|----|
| YR | MO | DY | JDY | HR | H0 | U* | W* | DT/DZ | ZICNV | ZIMCH | M-O | LEN | Z0 | BOWEN | ALBEDO | REF | WS |
| WD | HT | REF | TA | HT | | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 01 | -0.9 | 0.040 | -9.000 | -9.000 | -999. | 18. | 6.3 | 0.65 | 1.00 | 1.00 | 0.70 | | |
| 347. | 21.3 | 286.4 | | 17.7 | | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 02 | -3.0 | 0.086 | -9.000 | -9.000 | -999. | 58. | 19.1 | 0.65 | 1.00 | 1.00 | 1.50 | | |
| 82. | 21.3 | 286.4 | | 17.7 | | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 03 | -1.3 | 0.057 | -9.000 | -9.000 | -999. | 31. | 12.7 | 0.65 | 1.00 | 1.00 | 1.00 | | |
| 66. | 21.3 | 286.4 | | 17.7 | | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 04 | -1.9 | 0.069 | -9.000 | -9.000 | -999. | 41. | 15.2 | 0.65 | 1.00 | 1.00 | 1.20 | | |
| 23. | 21.3 | 285.9 | | 17.7 | | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 05 | -3.5 | 0.080 | -9.000 | -9.000 | -999. | 52. | 13.1 | 0.65 | 1.00 | 1.00 | 1.40 | | |
| 61. | 21.3 | 285.4 | | 17.7 | | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 06 | -3.0 | 0.086 | -9.000 | -9.000 | -999. | 58. | 19.0 | 0.65 | 1.00 | 1.00 | 1.50 | | |
| 83. | 21.3 | 285.4 | | 17.7 | | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 07 | -6.1 | 0.103 | -9.000 | -9.000 | -999. | 76. | 16.2 | 0.65 | 1.00 | 1.00 | 1.80 | | |
| 64. | 21.3 | 285.4 | | 17.7 | | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 08 | -3.3 | 0.080 | -9.000 | -9.000 | -999. | 52. | 14.1 | 0.65 | 1.00 | 0.55 | 1.40 | | |
| 46. | 21.3 | 285.4 | | 17.7 | | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 09 | 26.6 | 0.304 | 0.644 | 0.005 | 362. | 385. | -95.4 | 0.65 | 1.00 | 0.32 | 2.30 | | |
| 87. | 21.3 | 286.4 | | 17.7 | | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 10 | 21.0 | 0.227 | 0.732 | 0.005 | 675. | 250. | -50.2 | 0.65 | 1.00 | 0.24 | 1.60 | | |
| 76. | 21.3 | 286.4 | | 17.7 | | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 11 | 35.8 | 0.197 | 0.912 | 0.005 | 766. | 201. | -19.2 | 0.65 | 1.00 | 0.21 | 1.20 | | |
| 66. | 21.3 | 287.5 | | 17.7 | | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 12 | 14.9 | 0.281 | 0.686 | 0.005 | 785. | 343. | -135.5 | 0.65 | 1.00 | 0.20 | 2.20 | | |
| 79. | 21.3 | 287.5 | | 17.7 | | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 13 | 26.4 | 0.376 | 0.842 | 0.009 | 818. | 530. | -181.6 | 0.65 | 1.00 | 0.20 | 3.00 | | |
| 76. | 21.3 | 287.5 | | 17.7 | | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 14 | 39.0 | 0.385 | 0.979 | 0.014 | 867. | 549. | -131.8 | 0.65 | 1.00 | 0.21 | 3.00 | | |
| 80. | 21.3 | 288.1 | | 17.7 | | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 15 | 11.4 | 0.277 | 0.653 | 0.014 | 881. | 341. | -168.4 | 0.65 | 1.00 | 0.25 | 2.20 | | |
| 86. | 21.3 | 287.5 | | 17.7 | | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 16 | 0.1 | 0.343 | 0.135 | 0.014 | 881. | 462. | -8888.0 | 0.65 | 1.00 | 0.33 | 3.00 | | |
| 75. | 21.3 | 287.0 | | 17.7 | | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 17 | -13.7 | 0.266 | -9.000 | -9.000 | -999. | 319. | 125.0 | 0.65 | 1.00 | 0.60 | 2.90 | | |
| 82. | 21.3 | 286.4 | | 17.7 | | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 18 | -10.2 | 0.183 | -9.000 | -9.000 | -999. | 183. | 54.5 | 0.65 | 1.00 | 1.00 | 2.50 | | |
| 101. | 21.3 | 286.4 | | 17.7 | | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 19 | -16.1 | 0.289 | -9.000 | -9.000 | -999. | 358. | 135.6 | 0.65 | 1.00 | 1.00 | 3.10 | | |
| 97. | 21.3 | 285.9 | | 17.7 | | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 20 | -25.2 | 0.450 | -9.000 | -9.000 | -999. | 693. | 326.1 | 0.65 | 1.00 | 1.00 | 4.30 | | |
| 92. | 21.3 | 284.9 | | 17.7 | | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 21 | -27.3 | 0.487 | -9.000 | -9.000 | -999. | 781. | 381.9 | 0.65 | 1.00 | 1.00 | 4.60 | | |
| 88. | 21.3 | 284.2 | | 17.7 | | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 22 | -28.0 | 0.499 | -9.000 | -9.000 | -999. | 812. | 402.5 | 0.65 | 1.00 | 1.00 | 4.70 | | |
| 91. | 21.3 | 284.9 | | 17.7 | | | | | | | | | | | | | |

Floating Cover PM2.5 Unmitigated

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06 01 01 1 23 -36.1 0.645 -9.000 -9.000 -999. 1191.    673.0 0.65 1.00 1.00 5.90
82. 21.3 285.4 17.7
06 01 01 1 24 -35.3 0.633 -9.000 -9.000 -999. 1160.    649.7 0.65 1.00 1.00 5.80
84. 21.3 285.9 17.7

```

First hour of profile data

```

YR MO DY HR HEIGHT F WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
06 01 01 01 17.7 0 -999.  -99.00 286.5  99.0  -99.00 -99.00
06 01 01 01 21.3 1 347.   0.70 -999.0  99.0  -99.00 -99.00

```

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

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*** AERMOD - VERSION 09292 ***    *** Elysian
***      11/23/10
***                               *** Floating PM25
***      11:11:48

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PAGE 9

**MODELOPTs: RegDFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

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*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR
SOURCE GROUP: SRCGP1 ***
INCLUDING SOURCE(S): PAREA3 , PAREA4 , AREA2 , AREA3

```

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM.25 IN MICROGRAMS/M**3

**

| CONC | X-COORD (M) (YYMMDDHH) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) |
|----------|---------------------------|-------------|----------|------------|-------------|-------------|
| 14.22213 | 386476.85 (06121424) | 3771139.46 | 13.55577 | (06013124) | 386470.44 | 3771149.72 |
| 16.22347 | 386460.18 (06121424) | 3771159.97 | 15.37880 | (06121424) | 386449.29 | 3771172.79 |
| 18.20201 | 386440.31 (06011024) | 3771184.33 | 17.12476 | (06011024) | 386434.54 | 3771197.79 |
| 20.99624 | 386405.05 (07112824) | 3771244.59 | 20.78324 | (07112824) | 386409.54 | 3771235.61 |
| 20.31492 | 386416.59 (07112824) | 3771223.43 | 20.72966 | (07112824) | 386421.08 | 3771217.02 |
| 8.02869 | 386426.21 (07012224) | 3771209.97 | 19.60793 | (07112824) | 386274.28 | 3771299.72 |
| 9.13893 | 386278.77 (07012224) | 3771290.10 | 8.54114 | (07012224) | 386287.75 | 3771280.49 |
| 10.10824 | 386296.08 (06010924) | 3771269.59 | 9.60763 | (07012224) | 386303.13 | 3771259.33 |
| 14.49425 | 386340.31 (06010924) | 3771210.61 | 15.17921 | (06010824) | 386331.34 | 3771222.15 |
| 11.94121 | 386323.00 (06010924) | 3771233.69 | 13.59025 | (06010924) | 386312.75 | 3771248.43 |
| 10.11202 | 386415.31 (06011024) | 3771092.02 | 11.99622 | (06121424) | 386380.05 | 3771051.00 |
| 10.80375 | 386392.23 (06011024) | 3771050.36 | 10.39979 | (06121424) | 386374.29 | 3771063.18 |
| 11.73261 | 386402.49 (06121424) | 3771098.43 | 12.11676 | (06011024) | 386419.80 | 3771082.41 |
| 3.80931 | 386163.39 (06121624) | 3771763.82 | 2.41724 | (06122924) | 386081.33 | 3771480.49 |
| 2.68787 | 386103.77 (06032524) | 3771527.92 | 2.78878 | (06020224) | 386120.44 | 3771576.00 |
| 3.41659 | 386135.82 (07021824) | 3771613.82 | 2.73873 | (06010824) | 386146.72 | 3771651.64 |
| 2.37751 | 386156.33 (07112524) | 3771690.75 | 2.85364 | (07021824) | 386164.67 | 3771730.49 |
| 80.20567 | 386716.60 (06101524) | 3772090.11 | 64.22832 | (06101524) | 386705.70 | 3772082.42 |

Floating Cover PM2.5 Unmitigated

| | | | | | |
|-----------|------------|-----------|------------|-----------|------------|
| 386714.67 | 3772074.72 | 75.35949 | (06101524) | 386723.00 | 3772061.90 |
| 69.17078 | (06050424) | 386731.99 | 3772036.90 | 80.07897 | (06103124) |
| 75.39209 | (06103124) | 386737.11 | 3772022.15 | 74.80156 | (07080324) |
| 69.07116 | (06101524) | 386690.31 | 3772107.42 | 63.56477 | (06101524) |
| 63.24819 | (07090224) | 386674.29 | 3772123.44 | 62.72632 | (07090624) |
| 60.71021 | (06072524) | 386654.42 | 3772145.24 | 58.77292 | (06072524) |
| 45.61890 | (07031824) | 386590.95 | 3772133.70 | 30.08750 | (06042724) |
| 23.75029 | (06042724) | 386560.18 | 3772147.16 | 16.80760 | (06042724) |
| 13.71415 | (06041124) | 386533.26 | 3772162.54 | 12.03010 | (06041124) |
| 11.21005 | (06042724) | 386553.13 | 3772195.88 | 11.26700 | (06051324) |
| 12.45035 | (06051324) | 386581.98 | 3772192.67 | 15.53287 | (07031824) |
| 21.52643 | (07031824) | 386609.54 | 3772168.95 | 31.15001 | (07031924) |
| 50.33552 | (07031924) | 386619.16 | 3772140.11 | 53.95058 | (07031924) |
| 47.65526 | (07031924) | 386653.77 | 3772174.72 | 44.57233 | (06072524) |
| 40.54228 | (06072524) | 386677.49 | 3772197.80 | 36.14826 | (06072524) |
| 32.12220 | (06072524) | 386701.21 | 3772222.16 | 27.38418 | (06072524) |
| 5.81624 | (06041124) | 386456.34 | 3772212.55 | 6.16277 | (06041124) |
| 6.60772 | (06041124) | 386474.29 | 3772200.37 | 7.09269 | (06041124) |
| 7.54356 | (06041124) | 386489.03 | 3772190.11 | 8.01840 | (06041124) |
| 8.78742 | (06041124) | 386507.62 | 3772177.93 | 9.46203 | (06041124) |
| 10.24648 | (06041124) | 386576.85 | 3772219.60 | 12.41567 | (07031824) |
| 15.28244 | (07031824) | 386597.36 | 3772197.80 | 19.74004 | (07031824) |
| 25.32599 | (07031924) | | | | |

*** AERMOD - VERSION 09292 ***
 *** 11/23/10
 *** 11:11:48

*** Elysian
 *** Floating PM25

PAGE 10

**MODELOPTs: RegDFault CONC

ELEV
 NODRYDPLT NOWETDPLT

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: SRCGP1 *** INCLUDING SOURCE(S): PAREA3 , PAREA4 , AREA2 , AREA3

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM.25 IN MICROGRAMS/M**3

**

| CONC | X-COORD (M) (YYMMDDHH) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) |
|----------|---------------------------|-------------|----------|------------|-------------|-------------|
| 58.16224 | 386620.44 | 3772178.57 | 35.64732 | (07031924) | 386742.87 | 3772003.56 |
| 11.29461 | 386386.30 | 3771087.29 | 11.88867 | (06011024) | 386399.28 | 3771081.52 |

Floating Cover PM2.5 Unmitigated

| | | | | | | |
|--------------------------------|-------------------------|------------|-------------------|------------|-----------|------------|
| 0.39083 | 386409.38 (06120924) | 3771067.10 | 11.14040 | (06121424) | 385296.78 | 3773131.99 |
| 0.39998 | 385287.93 (06120924) | 3773147.05 | 0.39410 | (06120924) | 385283.50 | 3773159.45 |
| 0.46589 | 385576.69 (07080524) | 3773089.48 | 0.45950 | (07080524) | 385597.95 | 3773060.25 |
| 0.46421 | 385609.46 (06120924) | 3773037.22 | 0.46362 | (07080524) | 385629.84 | 3772997.36 |
| 0.56211 | 385654.64 (06120924) | 3772953.07 | 0.50600 | (06120924) | 385706.01 | 3772876.89 |
| 0.63231 | 385752.07 (06120924) | 3772808.69 | 0.60258 | (06120924) | 385816.74 | 3772724.54 |
| 0.88445 | 385886.71 (07102124) | 3772645.70 | 0.73154 | (07102124) | 385952.26 | 3772579.27 |
| 1.30072 | 386020.46 (07102124) | 3772519.04 | 1.07948 | (07102124) | 386093.98 | 3772463.23 |
| 1.76752 | 386169.27 (06041124) | 3772410.97 | 1.44252 | (07102124) | 386248.11 | 3772359.60 |
| 4.33138 | 386328.71 (06041124) | 3772309.11 | 2.69614 | (06041124) | 386407.55 | 3772253.30 |
| 6.07059 | 387116.28 (06051624) | 3772187.40 | 5.65773 | (06101524) | 387141.00 | 3772141.51 |
| 4.71776 | 387201.01 (06101524) | 3772180.34 | 4.34491 | (07082424) | 387155.12 | 3772229.77 |
| 3.70654 | 386943.29 (06101524) | 3772540.45 | 3.69853 | (06101524) | 386925.64 | 3772582.82 |
| 6.80007 | 386526.69 (06111224) | 3770944.68 | 5.43189 | (06111224) | 386466.67 | 3770937.61 |
| 5.45106 | 386537.28 (06111224) | 3770884.66 | 4.19365 | (06111224) | 386480.80 | 3770881.13 |
| 1.19068 | 387374.01 (06103024) | 3771597.81 | 3.20295 | (07080324) | 384880.19 | 3771187.72 |
| 1.17359 | 384901.45 (07012824) | 3771161.15 | 1.17284 | (06103024) | 384909.41 | 3771118.65 |
| 1.03151 | 384912.07 (07012824) | 3771078.80 | 1.10466 | (07012824) | 384920.04 | 3771052.24 |
| *** AERMOD - VERSION 09292 *** | | | *** Elysian | | | |
| *** 11/23/10 | | | *** Floating PM25 | | | |
| *** 11:11:48 | | | | | | |

PAGE 11

**MODELOPTs: RegDFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

SOURCE GROUP: ALL *** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR
INCLUDING SOURCE(S): PAREA3 , PAREA4 , AREA2 , AREA3

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM.25 IN MICROGRAMS/M**3

| CONC | X-COORD (M) (YYMMDDHH) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) |
|----------|---------------------------|-------------|----------|------------|-------------|-------------|
| 14.22213 | 386476.85 (06121424) | 3771139.46 | 13.55577 | (06013124) | 386470.44 | 3771149.72 |
| 16.22347 | 386460.18 (06121424) | 3771159.97 | 15.37880 | (06121424) | 386449.29 | 3771172.79 |
| 18.20201 | 386440.31 (06011024) | 3771184.33 | 17.12476 | (06011024) | 386434.54 | 3771197.79 |
| 20.99624 | 386405.05 (07112824) | 3771244.59 | 20.78324 | (07112824) | 386409.54 | 3771235.61 |
| 20.31492 | 386416.59 (07112824) | 3771223.43 | 20.72966 | (07112824) | 386421.08 | 3771217.02 |
| 8.02869 | 386426.21 (07012224) | 3771209.97 | 19.60793 | (07112824) | 386274.28 | 3771299.72 |

Floating Cover PM2.5 Unmitigated

| | | | | | | |
|----------|-------------------------|------------|----------|------------|-----------|------------|
| 9.13893 | 386278.77 (07012224) | 3771290.10 | 8.54114 | (07012224) | 386287.75 | 3771280.49 |
| 10.10824 | 386296.08 (06010924) | 3771269.59 | 9.60763 | (07012224) | 386303.13 | 3771259.33 |
| 14.49425 | 386340.31 (06010924) | 3771210.61 | 15.17921 | (06010824) | 386331.34 | 3771222.15 |
| 11.94121 | 386323.00 (06010924) | 3771233.69 | 13.59025 | (06010924) | 386312.75 | 3771248.43 |
| 10.11202 | 386415.31 (06011024) | 3771092.02 | 11.99622 | (06121424) | 386380.05 | 3771051.00 |
| 10.80375 | 386392.23 (06011024) | 3771050.36 | 10.39979 | (06121424) | 386374.29 | 3771063.18 |
| 11.73261 | 386402.49 (06121424) | 3771098.43 | 12.11676 | (06011024) | 386419.80 | 3771082.41 |
| 3.80931 | 386163.39 (06121624) | 3771763.82 | 2.41724 | (06122924) | 386081.33 | 3771480.49 |
| 2.68787 | 386103.77 (06032524) | 3771527.92 | 2.78878 | (06020224) | 386120.44 | 3771576.00 |
| 3.41659 | 386135.82 (07021824) | 3771613.82 | 2.73873 | (06010824) | 386146.72 | 3771651.64 |
| 2.37751 | 386156.33 (07112524) | 3771690.75 | 2.85364 | (07021824) | 386164.67 | 3771730.49 |
| 80.20567 | 386716.60 (06101524) | 3772090.11 | 64.22832 | (06101524) | 386705.70 | 3772082.42 |
| 69.17078 | 386714.67 (06050424) | 3772074.72 | 75.35949 | (06101524) | 386723.00 | 3772061.90 |
| 75.39209 | 386731.99 (06103124) | 3772036.90 | 80.07897 | (06103124) | 386728.13 | 3772051.01 |
| 69.07116 | 386737.11 (06101524) | 3772022.15 | 74.80156 | (07080324) | 386699.29 | 3772099.08 |
| 63.24819 | 386690.31 (07090224) | 3772107.42 | 63.56477 | (06101524) | 386682.62 | 3772113.83 |
| 60.71021 | 386674.29 (06072524) | 3772123.44 | 62.72632 | (07090624) | 386664.67 | 3772134.34 |
| 45.61890 | 386654.42 (07031824) | 3772145.24 | 58.77292 | (06072524) | 386605.70 | 3772127.29 |
| 23.75029 | 386590.95 (06042724) | 3772133.70 | 30.08750 | (06042724) | 386579.42 | 3772139.47 |
| 13.71415 | 386560.18 (06041124) | 3772147.16 | 16.80760 | (06042724) | 386545.44 | 3772154.85 |
| 11.21005 | 386533.26 (06042724) | 3772162.54 | 12.03010 | (06041124) | 386542.88 | 3772179.85 |
| 12.45035 | 386553.13 (06051324) | 3772195.88 | 11.26700 | (06051324) | 386568.52 | 3772208.70 |
| 21.52643 | 386581.98 (07031824) | 3772192.67 | 15.53287 | (07031824) | 386595.44 | 3772181.13 |
| 50.33552 | 386609.54 (07031924) | 3772168.95 | 31.15001 | (07031924) | 386624.29 | 3772152.29 |
| 47.65526 | 386619.16 (07031924) | 3772140.11 | 53.95058 | (07031924) | 386640.31 | 3772163.83 |
| 40.54228 | 386653.77 (06072524) | 3772174.72 | 44.57233 | (06072524) | 386665.95 | 3772186.26 |
| 32.12220 | 386677.49 (06072524) | 3772197.80 | 36.14826 | (06072524) | 386688.39 | 3772208.70 |
| 5.81624 | 386701.21 (06041124) | 3772222.16 | 27.38418 | (06072524) | 386448.64 | 3772217.67 |
| 6.60772 | 386456.34 (06041124) | 3772212.55 | 6.16277 | (06041124) | 386465.31 | 3772206.13 |
| 7.54356 | 386474.29 (06041124) | 3772200.37 | 7.09269 | (06041124) | 386481.34 | 3772194.60 |
| 8.78742 | 386489.03 (06041124) | 3772190.11 | 8.01840 | (06041124) | 386499.29 | 3772183.06 |
| 10.24648 | 386507.62 (06041124) | 3772177.93 | 9.46203 | (06041124) | 386514.67 | 3772171.52 |
| 15.28244 | 386576.85 (07031824) | 3772219.60 | 12.41567 | (07031824) | 386586.47 | 3772209.34 |
| 25.32599 | 386597.36 (07031924) | 3772197.80 | 19.74004 | (07031824) | 386606.98 | 3772187.54 |
| *** | AERMOD - VERSION 09292 | *** | *** | Elysian | | |
| *** | 11/23/10 | | | | | |

Floating Cover PM2.5 Unmitigated

*** Floating PM25

*** 11:11:48

PAGE 12

**MODELOPTs: RegDFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR
SOURCE GROUP: ALL *** INCLUDING SOURCE(S): PAREA3 , PAREA4 , AREA2 , AREA3

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM.25 IN MICROGRAMS/M**3

**

| CONC | X-COORD (M) (YYMMDDHH) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) |
|----------|---------------------------|-------------|----------|------------|-------------|-------------|
| 58.16224 | 386620.44 (07080324) | 3772178.57 | 35.64732 | (07031924) | 386742.87 | 3772003.56 |
| 11.29461 | 386386.30 (06121424) | 3771087.29 | 11.88867 | (06011024) | 386399.28 | 3771081.52 |
| 0.39083 | 386409.38 (06120924) | 3771067.10 | 11.14040 | (06121424) | 385296.78 | 3773131.99 |
| 0.39998 | 385287.93 (06120924) | 3773147.05 | 0.39410 | (06120924) | 385283.50 | 3773159.45 |
| 0.46589 | 385576.69 (07080524) | 3773089.48 | 0.45950 | (07080524) | 385597.95 | 3773060.25 |
| 0.46421 | 385609.46 (06120924) | 3773037.22 | 0.46362 | (07080524) | 385629.84 | 3772997.36 |
| 0.56211 | 385654.64 (06120924) | 3772953.07 | 0.50600 | (06120924) | 385706.01 | 3772876.89 |
| 0.63231 | 385752.07 (06120924) | 3772808.69 | 0.60258 | (06120924) | 385816.74 | 3772724.54 |
| 0.88445 | 385886.71 (07102124) | 3772645.70 | 0.73154 | (07102124) | 385952.26 | 3772579.27 |
| 1.30072 | 386020.46 (07102124) | 3772519.04 | 1.07948 | (07102124) | 386093.98 | 3772463.23 |
| 1.76752 | 386169.27 (06041124) | 3772410.97 | 1.44252 | (07102124) | 386248.11 | 3772359.60 |
| 4.33138 | 386328.71 (06041124) | 3772309.11 | 2.69614 | (06041124) | 386407.55 | 3772253.30 |
| 6.07059 | 387116.28 (06051624) | 3772187.40 | 5.65773 | (06101524) | 387141.00 | 3772141.51 |
| 4.71776 | 387201.01 (06101524) | 3772180.34 | 4.34491 | (07082424) | 387155.12 | 3772229.77 |
| 3.70654 | 386943.29 (06101524) | 3772540.45 | 3.69853 | (06101524) | 386925.64 | 3772582.82 |
| 6.80007 | 386526.69 (06111224) | 3770944.68 | 5.43189 | (06111224) | 386466.67 | 3770937.61 |
| 5.45106 | 386537.28 (06111224) | 3770884.66 | 4.19365 | (06111224) | 386480.80 | 3770881.13 |
| 1.19068 | 387374.01 (06103024) | 3771597.81 | 3.20295 | (07080324) | 384880.19 | 3771187.72 |
| 1.17359 | 384901.45 (07012824) | 3771161.15 | 1.17284 | (06103024) | 384909.41 | 3771118.65 |
| 1.03151 | 384912.07 (07012824) | 3771078.80 | 1.10466 | (07012824) | 384920.04 | 3771052.24 |

*** AERMOD - VERSION 09292 ***
*** 11/23/10

*** Elysian
*** Floating PM25

*** 11:11:48

PAGE 13

**MODELOPTs: RegDFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

*** THE SUMMARY OF HIGHEST 24-HR RESULTS ***

Floating Cover PM2.5 Unmitigated

```

**
** CONC OF PM.25 IN MICROGRAMS/M**3
**
NETWORK
GROUP ID AVERAGE CONC DATE RECEPTOR (XR, YR,
ZELEV, ZHILL, ZFLAG) OF TYPE GRID-ID
-----
SRCGP1 HIGH 1ST HIGH VALUE IS 80.20567 ON 06101524: AT ( 386705.70, 3772082.42,
92.99, 182.00, 0.00) DC
ALL HIGH 1ST HIGH VALUE IS 80.20567 ON 06101524: AT ( 386705.70, 3772082.42,
92.99, 182.00, 0.00) DC

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR
*** AERMOD - VERSION 09292 *** *** Elysian
*** 11/23/10
*** Floating PM25
*** 11:11:48

PAGE 14
**MODELOPTs: RegDFAULT CONC ELEV
NODRYDPLT NOWETDPLT

*** Message Summary : AERMOD Model Execution ***
----- Summary of Total Messages -----
A Total of 0 Fatal Error Message(s)
A Total of 0 Warning Message(s)
A Total of 113 Informational Message(s)
A Total of 17520 Hours Were Processed
A Total of 0 Calm Hours Identified
A Total of 113 Missing Hours Identified ( 0.64 Percent)

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

***** WARNING MESSAGES *****
*** NONE ***

*****
*** AERMOD Finishes Successfully ***
*****

```

Aluminum Cover PM10 Unmitigated

```
**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 6.7.1
** Lakes Environmental Software Inc.
** Date: 11/22/2010
** File: C:\Documents and Settings\jbailey\Desktop\Elysian Park AerMod\elysian\Al_PM10.ADI
**
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**
CO STARTING
  TITLEONE Elysian
  TITLETWO Aluminum PM10
  MODELOPT DFAULT CONC NODRYDPLT NOWETDPLT
  AVERTIME 24
  URBANOPT 9862049 LA
  POLLUTID PM.10
  RUNORNOT RUN
CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
  LOCATION PAREA3 AREAPOLY 386606.494 3771295.572 139.670
** DESCRSRC Reservoir
  LOCATION PAREA4 AREAPOLY 386596.536 3772117.718 96.500
** DESCRSRC Caltrans
  LOCATION AREA2 AREA 386602.251 3772074.114 96.950
  LOCATION AREA3 AREA 386514.382 3771483.886 154.350
** Source Parameters **
  SRCPARAM PAREA3 2.7487E-06 5.000 18
  AREAVERT PAREA3 386606.494 3771295.572 386560.430 3771386.706
  AREAVERT PAREA3 386502.641 3771467.538 386454.064 3771523.011
  AREAVERT PAREA3 386432.288 3771547.577 386455.739 3771575.313
  AREAVERT PAREA3 386485.890 3771583.238 386543.680 3771557.879
  AREAVERT PAREA3 386593.931 3771507.954 386619.057 3771483.387
  AREAVERT PAREA3 386650.046 3771442.179 386660.096 3771427.914
  AREAVERT PAREA3 386676.847 3771408.103 386688.572 3771388.291
  AREAVERT PAREA3 386676.847 3771361.347 386655.909 3771323.308
  AREAVERT PAREA3 386640.833 3771309.044 386614.032 3771295.572
  SRCPARAM PAREA4 9.304E-06 5.000 14
  AREAVERT PAREA4 386596.536 3772117.718 386580.846 3772089.725
  AREAVERT PAREA4 386632.070 3772053.383 386637.838 3772051.173
  AREAVERT PAREA4 386652.144 3772050.928 386668.065 3772039.387
  AREAVERT PAREA4 386682.371 3772010.903 386693.678 3771992.977
  AREAVERT PAREA4 386695.985 3771989.049 386717.213 3771999.362
  AREAVERT PAREA4 386696.677 3772048.472 386683.525 3772065.170
  AREAVERT PAREA4 386672.219 3772075.974 386651.914 3772089.234
  SRCPARAM AREA2 0.0000915057 0.000 107.950 39.380 44.060 0.000
  SRCPARAM AREA3 0.000130084 0.000 107.950 39.380 44.060 0.000
  URBANSRC PAREA3
  URBANSRC PAREA4
  URBANSRC AREA2
  URBANSRC AREA3
  SRCGROUP SRCGP1 PAREA4 PAREA3 AREA2 AREA3
  SRCGROUP ALL
SO FINISHED
**
*****
```

Aluminum Cover PM10 Unmitigated

```
** AERMOD Receptor Pathway
*****
**
**
RE STARTING
  INCLUDED Al_PM10.rou
RE FINISHED
**
*****
** AERMOD Meteorology Pathway
*****
**
**
ME STARTING
  SURFFILE "L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\cela.SFC"
  PROFFILE "L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\cela.PFL"
  SURFDATA 0 2006
  UAIRDATA 3190 2006
  PROFBASE 10 METERS
ME FINISHED
**
*****
** AERMOD Output Pathway
*****
**
**
OU STARTING
  RECTABLE ALLAVE 1ST
  RECTABLE 24 1ST
** Auto-Generated Plotfiles
  PLOTFILE 24 ALL 1ST AL_PM10.AD\24H1GALL.PLT
  PLOTFILE 24 SRCGP1 1ST AL_PM10.AD\24H1G001.PLT
OU FINISHED

*****
*** SETUP Finishes Successfully ***
*****

*** AERMOD - VERSION 09292 ***      *** Elysian
***      11/22/10
***                                     *** Aluminum PM10
***      18:23:43

PAGE 1
**MODELOPTs:  RegDFault CONC
                                                    ELEV
                                                    NODRYDPLT NOWETDPLT
***      MODEL SETUP OPTIONS SUMMARY      ***
-----
**Model Is Setup For Calculation of Average CONCentration Values.

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

**Model Uses URBAN Dispersion Algorithm for the SBL for      4 Source(s),
  for Total of      1 Urban Area(s):
  Urban Population =  9862049.0 ; Urban Roughness Length =  1.000 m

**Model Uses Regulatory DEFAULT Options:
  1. Stack-tip Downwash.
  2. Model Accounts for ELEVated Terrain Effects.
  3. Use Calms Processing Routine.
  4. Use Missing Data Processing Routine.
  5. No Exponential Decay for URBAN/Non-SO2.
  6. Urban Roughness Length of 1.0 Meter Assumed.
```

Aluminum Cover PM10 Unmitigated

**Model Assumes No FLAGPOLE Receptor Heights.
 **Model Calculates 1 Short Term Average(s) of: 24-HR
 **This Run Includes: 4 Source(s); 2 Source Group(s); and 120 Receptor(s)
 **The Model Assumes A Pollutant Type of: PM.10
 **Model Set To Continue RUNning After the Setup Testing.
 **Output Options Selected:
 Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
 Model Outputs External File(s) of High Values for Plotting (PLOTFILE 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) = 10.00 ; Decay Coef. = 0.000
 ; Rot. Angle = 0.0
 Emission Units = GRAMS/SEC ; Emission Rate
 Unit Factor = 0.10000E+07
 Output Units = MICROGRAMS/M**3

**Approximate Storage Requirements of Model = 3.5 MB of RAM.

*** AERMOD - VERSION 09292 *** *** Elysian
 *** 11/22/10
 *** 18:23:43
 *** Aluminum PM10

PAGE 2

**MODELOPTs: RegDFAULT CONC ELEV
 NODRYDPLT NOWETDPLT

*** AREA SOURCE DATA ***

| ORIENT. | INIT. | NUMBER URBAN EMISSION RATE | COORD (SW CORNER) | BASE | RELEASE | X-DIM | Y-DIM |
|---------|----------|----------------------------|-------------------|----------|----------|----------------|------------|
| SOURCE | PART. | (GRAMS/SEC | X | Y | ELEV. | HEIGHT OF AREA | OF AREA OF |
| AREA | SZ | SOURCE SCALAR VARY | (METERS) | (METERS) | (METERS) | (METERS) | (METERS) |
| (DEG.) | (METERS) | CATS. /METER**2) | BY | | | | |

| | | | | | | | | |
|-------|------|-------------|----------|-----------|-------|------|--------|-------|
| AREA2 | 0 | 0.91506E-04 | 386602.3 | 3772074.1 | 97.0 | 0.00 | 107.95 | 39.38 |
| 44.06 | 0.00 | YES | | | | | | |
| AREA3 | 0 | 0.13008E-03 | 386514.4 | 3771483.9 | 154.4 | 0.00 | 107.95 | 39.38 |
| 44.06 | 0.00 | YES | | | | | | |

*** AERMOD - VERSION 09292 *** *** Elysian
 *** 11/22/10
 *** 18:23:43
 *** Aluminum PM10

PAGE 3

**MODELOPTs: RegDFAULT CONC ELEV
 NODRYDPLT NOWETDPLT

*** AREAPOLY SOURCE DATA ***

| URBAN EMISSION RATE | NUMBER EMISSION RATE | LOCATION OF AREA | BASE | RELEASE | NUMBER | INIT. | |
|---------------------|----------------------|------------------|----------|----------|----------|------------------|----------|
| SOURCE | PART. | (GRAMS/SEC | X | Y | ELEV. | HEIGHT OF VERTS. | SZ |
| SOURCE SCALAR VARY | ID | CATS. /METER**2) | (METERS) | (METERS) | (METERS) | (METERS) | (METERS) |
| BY | | | | | | | |

Aluminum Cover PM10 Unmitigated

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-----
PAREA3      0  0.27487E-05  386606.5  3771295.6  139.7   5.00   18   0.00
YES
PAREA4      0  0.93040E-05  386596.5  3772117.7   96.5   5.00   14   0.00
YES
*** AERMOD - VERSION 09292 ***   *** Elysian
***      11/22/10
***      18:23:43
*** Aluminum PM10

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PAGE 4

**MODELOPTs: RegDEFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID SOURCE IDs

SRCGP1 PAREA3 , PAREA4 , AREA2 , AREA3 ,

```

ALL PAREA3 , PAREA4 , AREA2 , AREA3 ,
*** AERMOD - VERSION 09292 ***   *** Elysian
***      11/22/10
***      18:23:43
*** Aluminum PM10

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PAGE 5

**MODELOPTs: RegDEFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

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

```

( 386476.8, 3771139.5, 143.3, 181.0, 0.0); ( 386470.4, 3771149.7,
144.2, 181.0, 0.0);
( 386460.2, 3771160.0, 145.3, 181.0, 0.0); ( 386449.3, 3771172.8,
146.6, 181.0, 0.0);
( 386440.3, 3771184.3, 147.6, 181.0, 0.0); ( 386434.5, 3771197.8,
148.6, 181.0, 0.0);
( 386405.0, 3771244.6, 152.9, 181.0, 0.0); ( 386409.5, 3771235.6,
151.9, 181.0, 0.0);
( 386416.6, 3771223.4, 150.9, 181.0, 0.0); ( 386421.1, 3771217.0,
150.3, 181.0, 0.0);
( 386426.2, 3771210.0, 149.6, 181.0, 0.0); ( 386274.3, 3771299.7,
168.1, 181.0, 0.0);
( 386278.8, 3771290.1, 167.4, 181.0, 0.0); ( 386287.8, 3771280.5,
166.6, 181.0, 0.0);
( 386296.1, 3771269.6, 164.9, 181.0, 0.0); ( 386303.1, 3771259.3,
163.5, 181.0, 0.0);
( 386340.3, 3771210.6, 155.9, 181.0, 0.0); ( 386331.3, 3771222.1,
157.6, 181.0, 0.0);
( 386323.0, 3771233.7, 159.3, 181.0, 0.0); ( 386312.8, 3771248.4,
161.6, 181.0, 0.0);
( 386415.3, 3771092.0, 143.8, 181.0, 0.0); ( 386380.0, 3771051.0,
142.9, 164.0, 0.0);
( 386392.2, 3771050.4, 142.2, 181.0, 0.0); ( 386374.3, 3771063.2,
144.0, 164.0, 0.0);
( 386402.5, 3771098.4, 144.8, 181.0, 0.0); ( 386419.8, 3771082.4,
142.9, 181.0, 0.0);
( 386163.4, 3771763.8, 182.0, 182.0, 0.0); ( 386081.3, 3771480.5,
178.0, 178.0, 0.0);
( 386103.8, 3771527.9, 179.8, 179.8, 0.0); ( 386120.4, 3771576.0,
181.1, 181.1, 0.0);

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Aluminum Cover PM10 Unmitigated

| | | | | |
|------------------------|--------|--------|-------|------------------------|
| (386135.8, 3771613.8, | 182.0, | 182.0, | 0.0); | (386146.7, 3771651.6, |
| 182.0, 182.0, 0.0); | | | | |
| (386156.3, 3771690.8, | 182.0, | 182.0, | 0.0); | (386164.7, 3771730.5, |
| 182.0, 182.0, 0.0); | | | | |
| (386716.6, 3772090.1, | 93.4, | 182.0, | 0.0); | (386705.7, 3772082.4, |
| 93.0, 182.0, 0.0); | | | | |
| (386714.7, 3772074.7, | 93.3, | 182.0, | 0.0); | (386723.0, 3772061.9, |
| 93.7, 182.0, 0.0); | | | | |
| (386732.0, 3772036.9, | 94.0, | 182.0, | 0.0); | (386728.1, 3772051.0, |
| 93.9, 182.0, 0.0); | | | | |
| (386737.1, 3772022.1, | 94.2, | 182.0, | 0.0); | (386699.3, 3772099.1, |
| 92.7, 182.0, 0.0); | | | | |
| (386690.3, 3772107.4, | 92.4, | 182.0, | 0.0); | (386682.6, 3772113.8, |
| 92.1, 182.0, 0.0); | | | | |
| (386674.3, 3772123.4, | 92.3, | 182.0, | 0.0); | (386664.7, 3772134.3, |
| 92.8, 182.0, 0.0); | | | | |
| (386654.4, 3772145.2, | 93.1, | 182.0, | 0.0); | (386605.7, 3772127.3, |
| 95.6, 182.0, 0.0); | | | | |
| (386591.0, 3772133.7, | 96.5, | 182.0, | 0.0); | (386579.4, 3772139.5, |
| 97.2, 182.0, 0.0); | | | | |
| (386560.2, 3772147.2, | 98.4, | 182.0, | 0.0); | (386545.4, 3772154.8, |
| 99.0, 182.0, 0.0); | | | | |
| (386533.3, 3772162.5, | 99.5, | 182.0, | 0.0); | (386542.9, 3772179.8, |
| 98.2, 182.0, 0.0); | | | | |
| (386553.1, 3772195.9, | 96.9, | 182.0, | 0.0); | (386568.5, 3772208.7, |
| 95.5, 182.0, 0.0); | | | | |
| (386582.0, 3772192.7, | 95.3, | 182.0, | 0.0); | (386595.4, 3772181.1, |
| 94.8, 182.0, 0.0); | | | | |
| (386609.5, 3772168.9, | 94.5, | 182.0, | 0.0); | (386624.3, 3772152.3, |
| 94.3, 182.0, 0.0); | | | | |
| (386619.2, 3772140.1, | 94.7, | 182.0, | 0.0); | (386640.3, 3772163.8, |
| 93.5, 182.0, 0.0); | | | | |
| (386653.8, 3772174.7, | 93.0, | 182.0, | 0.0); | (386666.0, 3772186.3, |
| 92.7, 182.0, 0.0); | | | | |
| (386677.5, 3772197.8, | 92.5, | 182.0, | 0.0); | (386688.4, 3772208.7, |
| 92.8, 182.0, 0.0); | | | | |
| (386701.2, 3772222.2, | 93.5, | 182.0, | 0.0); | (386448.6, 3772217.7, |
| 102.7, 182.0, 0.0); | | | | |
| (386456.3, 3772212.5, | 102.4, | 182.0, | 0.0); | (386465.3, 3772206.1, |
| 102.1, 182.0, 0.0); | | | | |
| (386474.3, 3772200.4, | 101.8, | 182.0, | 0.0); | (386481.3, 3772194.6, |
| 101.5, 182.0, 0.0); | | | | |
| (386489.0, 3772190.1, | 101.2, | 182.0, | 0.0); | (386499.3, 3772183.1, |
| 100.9, 182.0, 0.0); | | | | |
| (386507.6, 3772177.9, | 100.5, | 182.0, | 0.0); | (386514.7, 3772171.5, |
| 100.3, 182.0, 0.0); | | | | |
| (386576.8, 3772219.6, | 94.6, | 182.0, | 0.0); | (386586.5, 3772209.3, |
| 94.4, 182.0, 0.0); | | | | |
| (386597.4, 3772197.8, | 94.2, | 182.0, | 0.0); | (386607.0, 3772187.5, |
| 94.0, 182.0, 0.0); | | | | |
| (386620.4, 3772178.6, | 93.9, | 182.0, | 0.0); | (386742.9, 3772003.6, |
| 94.5, 182.0, 0.0); | | | | |
| (386386.3, 3771087.3, | 144.9, | 181.0, | 0.0); | (386399.3, 3771081.5, |
| 143.9, 181.0, 0.0); | | | | |
| (386409.4, 3771067.1, | 142.4, | 181.0, | 0.0); | (385296.8, 3773132.0, |
| 117.7, 182.0, 0.0); | | | | |
| (385287.9, 3773147.0, | 117.7, | 182.0, | 0.0); | (385283.5, 3773159.4, |
| 117.2, 182.0, 0.0); | | | | |
| (385576.7, 3773089.5, | 103.9, | 182.0, | 0.0); | (385598.0, 3773060.2, |
| 104.0, 182.0, 0.0); | | | | |

*** AERMOD - VERSION 09292 ***
 *** 11/22/10
 *** 18:23:43

*** Elysian
 *** Aluminum PM10

PAGE 6
 **MODELOPTs: RegDFault CONC

ELEV
 NODRYDPLT NOWETDPLT

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

Aluminum Cover PM10 Unmitigated

*** AERMOD - VERSION 09292 *** *** Elysian
*** 11/22/10 *** Aluminum PM10
*** 18:23:43

PAGE 8
**MODELOPTs: RegDFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

Surface file: L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met
Data\cela.SFC Met Version: 06341
Profile file: L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met
Data\cela.PFL
Surface format: FREE
Profile format: FREE
Surface station no.: 0 Upper air station no.: 3190
Name: UNKNOWN Name: UNKNOWN
Year: 2006 Year: 2006

Table with 16 columns: YR MO DY JDY HR H0 U* W* DT/DZ ZICNV ZIMCH M-O LEN Z0 BOWEN ALBEDO REF WS. It contains 24 rows of meteorological data for the first 24 hours of the simulation.

Aluminum Cover PM10 Unmitigated

```

06 01 01 1 23 -36.1 0.645 -9.000 -9.000 -999. 1191. 673.0 0.65 1.00 1.00 5.90
82. 21.3 285.4 17.7
06 01 01 1 24 -35.3 0.633 -9.000 -9.000 -999. 1160. 649.7 0.65 1.00 1.00 5.80
84. 21.3 285.9 17.7

```

First hour of profile data

```

YR MO DY HR HEIGHT F WDIR WSPD AMB_TMP sigmaA sigmaW sigmaV
06 01 01 01 17.7 0 -999. -99.00 286.5 99.0 -99.00 -99.00
06 01 01 01 21.3 1 347. 0.70 -999.0 99.0 -99.00 -99.00

```

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

```

*** AERMOD - VERSION 09292 *** *** Elysian
*** 11/22/10
*** Aluminum PM10
*** 18:23:43

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PAGE 9

**MODELOPTs: RegDFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

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*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR
SOURCE GROUP: SRCGP1 ***
INCLUDING SOURCE(S): PAREA3 , PAREA4 , AREA2 , AREA3

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*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM.10 IN MICROGRAMS/M**3

**

| CONC | X-COORD (M) (YYMMDDHH) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) |
|-----------|---------------------------|-------------|-----------|------------|-------------|-------------|
| 58.05380 | 386476.85 | 3771139.46 | 55.07157 | (06013124) | 386470.44 | 3771149.72 |
| | (06121424) | | | | | |
| 68.24595 | 386460.18 | 3771159.97 | 63.85578 | (06121424) | 386449.29 | 3771172.79 |
| | (06121424) | | | | | |
| 81.17957 | 386440.31 | 3771184.33 | 74.67048 | (06011024) | 386434.54 | 3771197.79 |
| | (06011024) | | | | | |
| 97.82125 | 386405.05 | 3771244.59 | 97.35452 | (07112824) | 386409.54 | 3771235.61 |
| | (07112824) | | | | | |
| 92.69101 | 386416.59 | 3771223.43 | 95.49356 | (07112824) | 386421.08 | 3771217.02 |
| | (07112824) | | | | | |
| 36.12159 | 386426.21 | 3771209.97 | 88.22871 | (07112824) | 386274.28 | 3771299.72 |
| | (07012224) | | | | | |
| 42.14612 | 386278.77 | 3771290.10 | 38.77014 | (07012224) | 386287.75 | 3771280.49 |
| | (06121224) | | | | | |
| 45.74775 | 386296.08 | 3771269.59 | 44.50934 | (06121224) | 386303.13 | 3771259.33 |
| | (06010924) | | | | | |
| 66.95448 | 386340.31 | 3771210.61 | 69.85415 | (06010824) | 386331.34 | 3771222.15 |
| | (06010924) | | | | | |
| 55.05200 | 386323.00 | 3771233.69 | 62.98782 | (06010924) | 386312.75 | 3771248.43 |
| | (06010924) | | | | | |
| 42.35676 | 386415.31 | 3771092.02 | 49.51308 | (06121424) | 386380.05 | 3771051.00 |
| | (06011024) | | | | | |
| 46.07466 | 386392.23 | 3771050.36 | 42.38796 | (06121424) | 386374.29 | 3771063.18 |
| | (06011024) | | | | | |
| 48.42806 | 386402.49 | 3771098.43 | 50.87425 | (06011024) | 386419.80 | 3771082.41 |
| | (06121424) | | | | | |
| 17.40352 | 386163.39 | 3771763.82 | 9.46601 | (06122924) | 386081.33 | 3771480.49 |
| | (06121624) | | | | | |
| 12.32096 | 386103.77 | 3771527.92 | 11.37497 | (06020224) | 386120.44 | 3771576.00 |
| | (06032524) | | | | | |
| 15.23454 | 386135.82 | 3771613.82 | 11.84501 | (06032524) | 386146.72 | 3771651.64 |
| | (07021824) | | | | | |
| 9.29073 | 386156.33 | 3771690.75 | 11.96590 | (07021824) | 386164.67 | 3771730.49 |
| | (07112524) | | | | | |
| 308.59054 | 386716.60 | 3772090.11 | 242.28065 | (06101524) | 386705.70 | 3772082.42 |
| | (06101524) | | | | | |

Aluminum Cover PM10 Unmitigated

| | | | | | |
|-----------|------------|-----------|------------|-----------|------------|
| 386714.67 | 3772074.72 | 288.56061 | (06101524) | 386723.00 | 3772061.90 |
| 267.73538 | (06050424) | | | | |
| 386731.99 | 3772036.90 | 314.59176 | (06103124) | 386728.13 | 3772051.01 |
| 291.81593 | (06103124) | | | | |
| 386737.11 | 3772022.15 | 289.69677 | (07080324) | 386699.29 | 3772099.08 |
| 261.79611 | (06101524) | | | | |
| 386690.31 | 3772107.42 | 242.54685 | (07090224) | 386682.62 | 3772113.83 |
| 243.83601 | (07090224) | | | | |
| 386674.29 | 3772123.44 | 240.81899 | (07090624) | 386664.67 | 3772134.34 |
| 237.59575 | (06072524) | | | | |
| 386654.42 | 3772145.24 | 229.53710 | (06072524) | 386605.70 | 3772127.29 |
| 150.67417 | (07031824) | | | | |
| 386590.95 | 3772133.70 | 99.84502 | (06042724) | 386579.42 | 3772139.47 |
| 80.14356 | (06042724) | | | | |
| 386560.18 | 3772147.16 | 58.80771 | (06042724) | 386545.44 | 3772154.85 |
| 48.83448 | (06041124) | | | | |
| 386533.26 | 3772162.54 | 43.53885 | (06041124) | 386542.88 | 3772179.85 |
| 40.30986 | (06042724) | | | | |
| 386553.13 | 3772195.88 | 40.66747 | (06051324) | 386568.52 | 3772208.70 |
| 46.26439 | (06051324) | | | | |
| 386581.98 | 3772192.67 | 55.88961 | (06051324) | 386595.44 | 3772181.13 |
| 72.02544 | (07031824) | | | | |
| 386609.54 | 3772168.95 | 108.90137 | (07031824) | 386624.29 | 3772152.29 |
| 186.10514 | (07031924) | | | | |
| 386619.16 | 3772140.11 | 194.08409 | (07031924) | 386640.31 | 3772163.83 |
| 181.93681 | (07031924) | | | | |
| 386653.77 | 3772174.72 | 172.77358 | (06072524) | 386665.95 | 3772186.26 |
| 158.37900 | (06072524) | | | | |
| 386677.49 | 3772197.80 | 141.63711 | (06072524) | 386688.39 | 3772208.70 |
| 125.77627 | (06072524) | | | | |
| 386701.21 | 3772222.16 | 106.70638 | (06072524) | 386448.64 | 3772217.67 |
| 21.65516 | (06041124) | | | | |
| 386456.34 | 3772212.55 | 22.96201 | (06041124) | 386465.31 | 3772206.13 |
| 24.61306 | (06041124) | | | | |
| 386474.29 | 3772200.37 | 26.41493 | (06041124) | 386481.34 | 3772194.60 |
| 28.04526 | (06041124) | | | | |
| 386489.03 | 3772190.11 | 29.82021 | (06041124) | 386499.29 | 3772183.06 |
| 32.55984 | (06041124) | | | | |
| 386507.62 | 3772177.93 | 34.93386 | (06041124) | 386514.67 | 3772171.52 |
| 37.62747 | (06041124) | | | | |
| 386576.85 | 3772219.60 | 43.07256 | (06051324) | 386586.47 | 3772209.34 |
| 51.03322 | (07031824) | | | | |
| 386597.36 | 3772197.80 | 67.76953 | (07031824) | 386606.98 | 3772187.54 |
| 88.06662 | (07031824) | | | | |

*** AERMOD - VERSION 09292 ***
 *** 11/22/10
 *** 18:23:43

*** Elysian
 *** Aluminum PM10

PAGE 10

**MODELOPTs: RegDFault CONC

ELEV
 NODRYDPLT NOWETDPLT

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: SRCGP1 ***
 INCLUDING SOURCE(S): PAREA3 , PAREA4 , AREA2 , AREA3

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM.10 IN MICROGRAMS/M**3

| CONC | X-COORD (M) (YYMMDDHH) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) |
|-----------|---------------------------|-------------|-----------|------------|-------------|-------------|
| 130.25500 | 386620.44 | 3772178.57 | 130.25500 | (07031924) | 386742.87 | 3772003.56 |
| 50.50295 | 219.61775 | 386386.30 | 50.50295 | (06011024) | 386399.28 | 3771081.52 |
| | 46.42276 | (06011024) | | | | |

Aluminum Cover PM10 Unmitigated

| | | | | | | |
|--------------------------------|-------------------------|------------|-------------------|------------|-----------|------------|
| 1.51046 | 386409.38 (06120924) | 3771067.10 | 45.81697 | (06121424) | 385296.78 | 3773131.99 |
| 1.56304 | 385287.93 (06120924) | 3773147.05 | 1.53080 | (06120924) | 385283.50 | 3773159.45 |
| 1.74599 | 385576.69 (07080524) | 3773089.48 | 1.72818 | (07080524) | 385597.95 | 3773060.25 |
| 1.75348 | 385609.46 (06120924) | 3773037.22 | 1.72482 | (07080524) | 385629.84 | 3772997.36 |
| 2.15298 | 385654.64 (06120924) | 3772953.07 | 1.93111 | (06120924) | 385706.01 | 3772876.89 |
| 2.37247 | 385752.07 (06120924) | 3772808.69 | 2.30074 | (06120924) | 385816.74 | 3772724.54 |
| 3.50722 | 385886.71 (07102124) | 3772645.70 | 2.83230 | (07102124) | 385952.26 | 3772579.27 |
| 5.37793 | 386020.46 (07102124) | 3772519.04 | 4.39487 | (07102124) | 386093.98 | 3772463.23 |
| 6.27465 | 386169.27 (06041124) | 3772410.97 | 5.86229 | (07102124) | 386248.11 | 3772359.60 |
| 16.09797 | 386328.71 (06041124) | 3772309.11 | 9.78680 | (06041124) | 386407.55 | 3772253.30 |
| 22.87984 | 387116.28 (06051624) | 3772187.40 | 21.23113 | (06101524) | 387141.00 | 3772141.51 |
| 17.49720 | 387201.01 (06101524) | 3772180.34 | 16.67239 | (07082424) | 387155.12 | 3772229.77 |
| 13.64047 | 386943.29 (06101524) | 3772540.45 | 13.62919 | (06101524) | 386925.64 | 3772582.82 |
| 26.74157 | 386526.69 (06111224) | 3770944.68 | 20.84277 | (06081724) | 386466.67 | 3770937.61 |
| 21.35192 | 386537.28 (07101824) | 3770884.66 | 16.74406 | (07092524) | 386480.80 | 3770881.13 |
| 5.11115 | 387374.01 (06103024) | 3771597.81 | 12.62920 | (06051624) | 384880.19 | 3771187.72 |
| 5.01445 | 384901.45 (07012824) | 3771161.15 | 4.98957 | (06103024) | 384909.41 | 3771118.65 |
| 4.29660 | 384912.07 (07012824) | 3771078.80 | 4.66328 | (07012824) | 384920.04 | 3771052.24 |
| *** AERMOD - VERSION 09292 *** | | | *** Elysian | | | |
| *** 11/22/10 | | | *** Aluminum PM10 | | | |
| *** 18:23:43 | | | | | | |

PAGE 11

**MODELOPTs: RegDFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

SOURCE GROUP: ALL *** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR
INCLUDING SOURCE(S): PAREA3 , PAREA4 , AREA2 , AREA3

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

| ** CONC OF PM.10 IN MICROGRAMS/M**3 | | | | | | |
|-------------------------------------|-------------------------|------------|----------|------------|-----------|------------|
| CONC | (YYMMDDHH) | | | | | |
| X-COORD (M) | Y-COORD (M) | | | | | |
| CONC | (YYMMDDHH) | | | | | |
| 58.05380 | 386476.85 (06121424) | 3771139.46 | 55.07157 | (06013124) | 386470.44 | 3771149.72 |
| 68.24595 | 386460.18 (06121424) | 3771159.97 | 63.85578 | (06121424) | 386449.29 | 3771172.79 |
| 81.17957 | 386440.31 (06011024) | 3771184.33 | 74.67048 | (06011024) | 386434.54 | 3771197.79 |
| 97.82125 | 386405.05 (07112824) | 3771244.59 | 97.35452 | (07112824) | 386409.54 | 3771235.61 |
| 92.69101 | 386416.59 (07112824) | 3771223.43 | 95.49356 | (07112824) | 386421.08 | 3771217.02 |
| 36.12159 | 386426.21 (07012224) | 3771209.97 | 88.22871 | (07112824) | 386274.28 | 3771299.72 |

Aluminum Cover PM10 Unmitigated

| | | | | | |
|--------------------------------|------------|-------------|------------|-----------|------------|
| 386278.77 | 3771290.10 | 38.77014 | (07012224) | 386287.75 | 3771280.49 |
| 42.14612 | (06121224) | | | | |
| 386296.08 | 3771269.59 | 44.50934 | (06121224) | 386303.13 | 3771259.33 |
| 45.74775 | (06010924) | | | | |
| 386340.31 | 3771210.61 | 69.85415 | (06010824) | 386331.34 | 3771222.15 |
| 66.95448 | (06010924) | | | | |
| 386323.00 | 3771233.69 | 62.98782 | (06010924) | 386312.75 | 3771248.43 |
| 55.05200 | (06010924) | | | | |
| 386415.31 | 3771092.02 | 49.51308 | (06121424) | 386380.05 | 3771051.00 |
| 42.35676 | (06011024) | | | | |
| 386392.23 | 3771050.36 | 42.38796 | (06121424) | 386374.29 | 3771063.18 |
| 46.07466 | (06011024) | | | | |
| 386402.49 | 3771098.43 | 50.87425 | (06011024) | 386419.80 | 3771082.41 |
| 48.42806 | (06121424) | | | | |
| 386163.39 | 3771763.82 | 9.46601 | (06122924) | 386081.33 | 3771480.49 |
| 17.40352 | (06121624) | | | | |
| 386103.77 | 3771527.92 | 11.37497 | (06020224) | 386120.44 | 3771576.00 |
| 12.32096 | (06032524) | | | | |
| 386135.82 | 3771613.82 | 11.84501 | (06032524) | 386146.72 | 3771651.64 |
| 15.23454 | (07021824) | | | | |
| 386156.33 | 3771690.75 | 11.96590 | (07021824) | 386164.67 | 3771730.49 |
| 9.29073 | (07112524) | | | | |
| 386716.60 | 3772090.11 | 242.28065 | (06101524) | 386705.70 | 3772082.42 |
| 308.59054 | (06101524) | | | | |
| 386714.67 | 3772074.72 | 288.56061 | (06101524) | 386723.00 | 3772061.90 |
| 267.73538 | (06050424) | | | | |
| 386731.99 | 3772036.90 | 314.59176 | (06103124) | 386728.13 | 3772051.01 |
| 291.81593 | (06103124) | | | | |
| 386737.11 | 3772022.15 | 289.69677 | (07080324) | 386699.29 | 3772099.08 |
| 261.79611 | (06101524) | | | | |
| 386690.31 | 3772107.42 | 242.54685 | (07090224) | 386682.62 | 3772113.83 |
| 243.83601 | (07090224) | | | | |
| 386674.29 | 3772123.44 | 240.81899 | (07090624) | 386664.67 | 3772134.34 |
| 237.59575 | (06072524) | | | | |
| 386654.42 | 3772145.24 | 229.53710 | (06072524) | 386605.70 | 3772127.29 |
| 150.67417 | (07031824) | | | | |
| 386590.95 | 3772133.70 | 99.84502 | (06042724) | 386579.42 | 3772139.47 |
| 80.14356 | (06042724) | | | | |
| 386560.18 | 3772147.16 | 58.80771 | (06042724) | 386545.44 | 3772154.85 |
| 48.83448 | (06041124) | | | | |
| 386533.26 | 3772162.54 | 43.53885 | (06041124) | 386542.88 | 3772179.85 |
| 40.30986 | (06042724) | | | | |
| 386553.13 | 3772195.88 | 40.66747 | (06051324) | 386568.52 | 3772208.70 |
| 46.26439 | (06051324) | | | | |
| 386581.98 | 3772192.67 | 55.88961 | (06051324) | 386595.44 | 3772181.13 |
| 72.02544 | (07031824) | | | | |
| 386609.54 | 3772168.95 | 108.90137 | (07031824) | 386624.29 | 3772152.29 |
| 186.10514 | (07031924) | | | | |
| 386619.16 | 3772140.11 | 194.08409 | (07031924) | 386640.31 | 3772163.83 |
| 181.93681 | (07031924) | | | | |
| 386653.77 | 3772174.72 | 172.77358 | (06072524) | 386665.95 | 3772186.26 |
| 158.37900 | (06072524) | | | | |
| 386677.49 | 3772197.80 | 141.63711 | (06072524) | 386688.39 | 3772208.70 |
| 125.77627 | (06072524) | | | | |
| 386701.21 | 3772222.16 | 106.70638 | (06072524) | 386448.64 | 3772217.67 |
| 21.65516 | (06041124) | | | | |
| 386456.34 | 3772212.55 | 22.96201 | (06041124) | 386465.31 | 3772206.13 |
| 24.61306 | (06041124) | | | | |
| 386474.29 | 3772200.37 | 26.41493 | (06041124) | 386481.34 | 3772194.60 |
| 28.04526 | (06041124) | | | | |
| 386489.03 | 3772190.11 | 29.82021 | (06041124) | 386499.29 | 3772183.06 |
| 32.55984 | (06041124) | | | | |
| 386507.62 | 3772177.93 | 34.93386 | (06041124) | 386514.67 | 3772171.52 |
| 37.62747 | (06041124) | | | | |
| 386576.85 | 3772219.60 | 43.07256 | (06051324) | 386586.47 | 3772209.34 |
| 51.03322 | (07031824) | | | | |
| 386597.36 | 3772197.80 | 67.76953 | (07031824) | 386606.98 | 3772187.54 |
| 88.06662 | (07031824) | | | | |
| *** AERMOD - VERSION 09292 *** | | *** Elysian | | | |
| *** | 11/22/10 | | | | |

Aluminum Cover PM10 Unmitigated

*** Aluminum PM10

*** 18:23:43

PAGE 12

**MODELOPTs: RegDFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

SOURCE GROUP: ALL *** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR
INCLUDING SOURCE(S): PAREA3 , PAREA4 , AREA2 , AREA3

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM.10 IN MICROGRAMS/M**3

**

| CONC | X-COORD (M) (YYMMDDHH) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) |
|-----------|---------------------------|-------------|-----------|------------|-------------|-------------|
| 219.61775 | 386620.44 | 3772178.57 | 130.25500 | (07031924) | 386742.87 | 3772003.56 |
| 46.42276 | 386386.30 | 3771087.29 | 50.50295 | (06011024) | 386399.28 | 3771081.52 |
| 1.51046 | 386409.38 | 3771067.10 | 45.81697 | (06121424) | 385296.78 | 3773131.99 |
| 1.56304 | 385287.93 | 3773147.05 | 1.53080 | (06120924) | 385283.50 | 3773159.45 |
| 1.74599 | 385576.69 | 3773089.48 | 1.72818 | (07080524) | 385597.95 | 3773060.25 |
| 1.75348 | 385609.46 | 3773037.22 | 1.72482 | (07080524) | 385629.84 | 3772997.36 |
| 2.15298 | 385654.64 | 3772953.07 | 1.93111 | (06120924) | 385706.01 | 3772876.89 |
| 2.37247 | 385752.07 | 3772808.69 | 2.30074 | (06120924) | 385816.74 | 3772724.54 |
| 3.50722 | 385886.71 | 3772645.70 | 2.83230 | (07102124) | 385952.26 | 3772579.27 |
| 5.37793 | 386020.46 | 3772519.04 | 4.39487 | (07102124) | 386093.98 | 3772463.23 |
| 6.27465 | 386169.27 | 3772410.97 | 5.86229 | (07102124) | 386248.11 | 3772359.60 |
| 16.09797 | 386328.71 | 3772309.11 | 9.78680 | (06041124) | 386407.55 | 3772253.30 |
| 22.87984 | 387116.28 | 3772187.40 | 21.23113 | (06101524) | 387141.00 | 3772141.51 |
| 17.49720 | 387201.01 | 3772180.34 | 16.67239 | (07082424) | 387155.12 | 3772229.77 |
| 13.64047 | 386943.29 | 3772540.45 | 13.62919 | (06101524) | 386925.64 | 3772582.82 |
| 26.74157 | 386526.69 | 3770944.68 | 20.84277 | (06081724) | 386466.67 | 3770937.61 |
| 21.35192 | 386537.28 | 3770884.66 | 16.74406 | (07092524) | 386480.80 | 3770881.13 |
| 5.11115 | 387374.01 | 3771597.81 | 12.62920 | (06051624) | 384880.19 | 3771187.72 |
| 5.01445 | 384901.45 | 3771161.15 | 4.98957 | (06103024) | 384909.41 | 3771118.65 |
| 4.29660 | 384912.07 | 3771078.80 | 4.66328 | (07012824) | 384920.04 | 3771052.24 |

*** AERMOD - VERSION 09292 ***
*** 11/22/10

*** Elysian
*** Aluminum PM10

*** 18:23:43

PAGE 13

**MODELOPTs: RegDFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

*** THE SUMMARY OF HIGHEST 24-HR RESULTS ***

Aluminum Cover PM10 Unmitigated

```

**                                     ** CONC OF PM.10   IN MICROGRAMS/M**3
**
**                                     DATE
NETWORK
GROUP ID                               AVERAGE CONC   (YYMMDDHH)      RECEPTOR (XR, YR,
ZELEV, ZHILL, ZFLAG)   OF TYPE  GRID-ID
-----
SRCGP1   HIGH 1ST HIGH VALUE IS   314.59176  ON 06103124: AT ( 386731.99, 3772036.90,
94.04,   182.00,   0.00) DC
ALL      HIGH 1ST HIGH VALUE IS   314.59176  ON 06103124: AT ( 386731.99, 3772036.90,
94.04,   182.00,   0.00) DC

*** RECEPTOR TYPES:  GC = GRIDCART
                       GP = GRIDPOLR
                       DC = DISCCART
                       DP = DISCPOLR
*** AERMOD - VERSION 09292 ***   *** Elysian
***      11/22/10
***                                     *** Aluminum PM10
***      18:23:43

PAGE 14
**MODELOPTs:  RegDFAULT CONC
                                           ELEV
                                           NODRYDPLT NOWETDPLT

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

----- Summary of Total Messages -----
A Total of           0 Fatal Error Message(s)
A Total of           0 Warning Message(s)
A Total of          113 Informational Message(s)

A Total of          17520 Hours Were Processed

A Total of           0 Calm Hours Identified

A Total of           113 Missing Hours Identified ( 0.64 Percent)

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

***** WARNING MESSAGES *****
***      NONE      ***

*****
*** AERMOD Finishes Successfully ***
*****

```

Aluminum Cover NO2 Unmitigated

```
**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 6.7.1
** Lakes Environmental Software Inc.
** Date: 11/22/2010
** File: C:\Documents and Settings\jbailey\Desktop\Elysian Park AerMod\elysian\Al_NO2.ADI
**
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**
CO STARTING
  TITLEONE Elysian
  TITLETWO Aluminum NO2
  MODELOPT DFAULT CONC NODRYDPLT NOWETDPLT
  AVERTIME 1
  URBANOPT 9862049 LA
  POLLUTID NOX
  RUNORNOT RUN
CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
  LOCATION PAREA3 AREAPOLY 386606.494 3771295.572 139.670
** DESCRSRC Reservoir
  LOCATION PAREA4 AREAPOLY 386598.189 3772118.131 96.350
** DESCRSRC Caltrans
** Source Parameters **
  SRCPARAM PAREA3 6.627E-06 5.000 18
  AREAVERT PAREA3 386606.494 3771295.572 386560.430 3771386.706
  AREAVERT PAREA3 386502.641 3771467.538 386454.064 3771523.011
  AREAVERT PAREA3 386432.288 3771547.577 386455.739 3771575.313
  AREAVERT PAREA3 386485.890 3771583.238 386543.680 3771557.879
  AREAVERT PAREA3 386593.931 3771507.954 386619.057 3771483.387
  AREAVERT PAREA3 386650.046 3771442.179 386660.096 3771427.914
  AREAVERT PAREA3 386676.847 3771408.103 386688.572 3771388.291
  AREAVERT PAREA3 386676.847 3771361.347 386655.909 3771323.308
  AREAVERT PAREA3 386640.833 3771309.044 386614.032 3771295.572
  SRCPARAM PAREA4 0.00002139 5.000 14
  AREAVERT PAREA4 386598.189 3772118.131 386582.499 3772090.138
  AREAVERT PAREA4 386633.724 3772053.797 386639.492 3772051.587
  AREAVERT PAREA4 386653.798 3772051.341 386669.719 3772039.800
  AREAVERT PAREA4 386684.025 3772011.316 386695.331 3771993.391
  AREAVERT PAREA4 386697.639 3771989.462 386718.867 3771999.775
  AREAVERT PAREA4 386698.331 3772048.886 386685.179 3772065.583
  AREAVERT PAREA4 386673.872 3772076.387 386653.567 3772089.647
  URBANSRC PAREA3
  URBANSRC PAREA4
  CONCUNIT 531.5 GRAMS/SEC PPM
  SRCGROUP SRCGP1 PAREA4 PAREA3
  SRCGROUP ALL
SO FINISHED
**
*****
** AERMOD Receptor Pathway
*****
**
**
RE STARTING
```


Aluminum Cover NO2 Unmitigated

```
INCLUDED Al_NO2.rou
RE FINISHED
**
*****
** AERMOD Meteorology Pathway
*****
**
**
ME STARTING
SURFFILE "L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\cela.SFC"
PROFFILE "L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\cela.PFL"
SURFDATA 0 2006
UAIRDATA 3190 2006
PROFBASE 10 METERS
ME FINISHED
**
*****
** AERMOD Output Pathway
*****
**
**
OU STARTING
RECTABLE ALLAVE 1ST
RECTABLE 1 1ST
** Auto-Generated Plotfiles
PLOTFILE 1 ALL 1ST AL_NO2.AD\01H1GALL.PLT
PLOTFILE 1 SRCGP1 1ST AL_NO2.AD\01H1G001.PLT
OU FINISHED

*****
*** SETUP Finishes Successfully ***
*****

*** AERMOD - VERSION 09292 ***      *** Elysian
***      11/22/10
***                               *** Aluminum NO2
***      18:15:20

PAGE      1
**MODELOPTs:  RegDFault CONC                                ELEV
                                                         NODRYDPLT NOWETDPLT

***      MODEL SETUP OPTIONS SUMMARY      ***
-----
**Model Is Setup For Calculation of Average CONCentration Values.

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

**Model Uses URBAN Dispersion Algorithm for the SBL for      2 Source(s),
for Total of      1 Urban Area(s):
Urban Population =  9862049.0 ; Urban Roughness Length =  1.000 m

**Model Uses Regulatory DEFAULT Options:
1. Stack-tip Downwash.
2. Model Accounts for ELEVated Terrain Effects.
3. Use Calms Processing Routine.
4. Use Missing Data Processing Routine.
5. No Exponential Decay for URBAN/Non-SO2.
6. Urban Roughness Length of 1.0 Meter Assumed.

**Model Assumes No FLAGPOLE Receptor Heights.

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

**This Run Includes:      2 Source(s);      2 Source Group(s); and      120 Receptor(s)
```

Aluminum Cover NO2 Unmitigated

**The Model Assumes A Pollutant Type of: NOX

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

**Output Options Selected:

Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
 Model Outputs External File(s) of High Values for Plotting (PLOTFILE 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) = 10.00 ; Decay Coef. = 0.000
 ; Rot. Angle = 0.0

Emission Units = GRAMS/SEC ; Emission Rate
 Unit Factor = 531.50
 Output Units = PPM

**Approximate Storage Requirements of Model = 3.5 MB of RAM.

*** AERMOD - VERSION 09292 *** *** Elysian
 *** 11/22/10
 *** Aluminum NO2
 *** 18:15:20

PAGE 2

**MODELOPTs: RegDFAULT CONC

ELEV
 NODRYDPLT NOWETDPLT

*** AREAPOLY SOURCE DATA ***

| URBAN SOURCE | EMISSION RATE | NUMBER | EMISSION RATE | LOCATION OF AREA | BASE | RELEASE | NUMBER | INIT. |
|---------------|-------------------------|----------|---------------|------------------|----------|-----------|----------|----------|
| SOURCE SCALAR | PART. (USER UNITS VARY) | X | Y | ELEV. | HEIGHT | OF VERTS. | SZ | |
| ID | CATS. /METER**2) | (METERS) | (METERS) | (METERS) | (METERS) | (METERS) | (METERS) | (METERS) |

| | | | | | | | | |
|------------|---|-------------|----------|-----------|-------|------|----|------|
| PAREA3 | 0 | 0.66270E-05 | 386606.5 | 3771295.6 | 139.7 | 5.00 | 18 | 0.00 |
| YES PAREA4 | 0 | 0.21390E-04 | 386598.2 | 3772118.1 | 96.3 | 5.00 | 14 | 0.00 |

YES
 *** AERMOD - VERSION 09292 *** *** Elysian
 *** 11/22/10
 *** Aluminum NO2
 *** 18:15:20

PAGE 3

**MODELOPTs: RegDFAULT CONC

ELEV
 NODRYDPLT NOWETDPLT

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID

SOURCE IDs

SRCGP1 PAREA3 , PAREA4 ,

ALL PAREA3 , PAREA4 ,
 *** AERMOD - VERSION 09292 *** *** Elysian
 *** 11/22/10
 *** Aluminum NO2
 *** 18:15:20

Aluminum Cover NO2 Unmitigated

PAGE 4

**MODELOPTs: RegDFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

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

| | | | | |
|------------------------|--------|--------|-------|------------------------|
| (386476.8, 3771139.5, | 143.3, | 181.0, | 0.0); | (386470.4, 3771149.7, |
| 144.2, 181.0, | 0.0); | | | |
| (386460.2, 3771160.0, | 145.3, | 181.0, | 0.0); | (386449.3, 3771172.8, |
| 146.6, 181.0, | 0.0); | | | |
| (386440.3, 3771184.3, | 147.6, | 181.0, | 0.0); | (386434.5, 3771197.8, |
| 148.6, 181.0, | 0.0); | | | |
| (386405.0, 3771244.6, | 152.9, | 181.0, | 0.0); | (386409.5, 3771235.6, |
| 151.9, 181.0, | 0.0); | | | |
| (386416.6, 3771223.4, | 150.9, | 181.0, | 0.0); | (386421.1, 3771217.0, |
| 150.3, 181.0, | 0.0); | | | |
| (386426.2, 3771210.0, | 149.6, | 181.0, | 0.0); | (386274.3, 3771299.7, |
| 168.1, 181.0, | 0.0); | | | |
| (386278.8, 3771290.1, | 167.4, | 181.0, | 0.0); | (386287.8, 3771280.5, |
| 166.6, 181.0, | 0.0); | | | |
| (386296.1, 3771269.6, | 164.9, | 181.0, | 0.0); | (386303.1, 3771259.3, |
| 163.5, 181.0, | 0.0); | | | |
| (386340.3, 3771210.6, | 155.9, | 181.0, | 0.0); | (386331.3, 3771222.1, |
| 157.6, 181.0, | 0.0); | | | |
| (386323.0, 3771233.7, | 159.3, | 181.0, | 0.0); | (386312.8, 3771248.4, |
| 161.6, 181.0, | 0.0); | | | |
| (386415.3, 3771092.0, | 143.8, | 181.0, | 0.0); | (386380.0, 3771051.0, |
| 142.9, 164.0, | 0.0); | | | |
| (386392.2, 3771050.4, | 142.2, | 181.0, | 0.0); | (386374.3, 3771063.2, |
| 144.0, 164.0, | 0.0); | | | |
| (386402.5, 3771098.4, | 144.8, | 181.0, | 0.0); | (386419.8, 3771082.4, |
| 142.9, 181.0, | 0.0); | | | |
| (386163.4, 3771763.8, | 182.0, | 182.0, | 0.0); | (386081.3, 3771480.5, |
| 178.0, 178.0, | 0.0); | | | |
| (386103.8, 3771527.9, | 179.8, | 179.8, | 0.0); | (386120.4, 3771576.0, |
| 181.1, 181.1, | 0.0); | | | |
| (386135.8, 3771613.8, | 182.0, | 182.0, | 0.0); | (386146.7, 3771651.6, |
| 182.0, 182.0, | 0.0); | | | |
| (386156.3, 3771690.8, | 182.0, | 182.0, | 0.0); | (386164.7, 3771730.5, |
| 182.0, 182.0, | 0.0); | | | |
| (386716.6, 3772090.1, | 93.4, | 182.0, | 0.0); | (386705.7, 3772082.4, |
| 93.0, 182.0, | 0.0); | | | |
| (386714.7, 3772074.7, | 93.3, | 182.0, | 0.0); | (386723.0, 3772061.9, |
| 93.7, 182.0, | 0.0); | | | |
| (386732.0, 3772036.9, | 94.0, | 182.0, | 0.0); | (386728.1, 3772051.0, |
| 93.9, 182.0, | 0.0); | | | |
| (386737.1, 3772022.1, | 94.2, | 182.0, | 0.0); | (386699.3, 3772099.1, |
| 92.7, 182.0, | 0.0); | | | |
| (386690.3, 3772107.4, | 92.4, | 182.0, | 0.0); | (386682.6, 3772113.8, |
| 92.1, 182.0, | 0.0); | | | |
| (386674.3, 3772123.4, | 92.3, | 182.0, | 0.0); | (386664.7, 3772134.3, |
| 92.8, 182.0, | 0.0); | | | |
| (386654.4, 3772145.2, | 93.1, | 182.0, | 0.0); | (386605.7, 3772127.3, |
| 95.6, 182.0, | 0.0); | | | |
| (386591.0, 3772133.7, | 96.5, | 182.0, | 0.0); | (386579.4, 3772139.5, |
| 97.2, 182.0, | 0.0); | | | |
| (386560.2, 3772147.2, | 98.4, | 182.0, | 0.0); | (386545.4, 3772154.8, |
| 99.0, 182.0, | 0.0); | | | |
| (386533.3, 3772162.5, | 99.5, | 182.0, | 0.0); | (386542.9, 3772179.8, |
| 98.2, 182.0, | 0.0); | | | |
| (386553.1, 3772195.9, | 96.9, | 182.0, | 0.0); | (386568.5, 3772208.7, |
| 95.5, 182.0, | 0.0); | | | |
| (386582.0, 3772192.7, | 95.3, | 182.0, | 0.0); | (386595.4, 3772181.1, |
| 94.8, 182.0, | 0.0); | | | |
| (386609.5, 3772168.9, | 94.5, | 182.0, | 0.0); | (386624.3, 3772152.3, |
| 94.3, 182.0, | 0.0); | | | |
| (386619.2, 3772140.1, | 94.7, | 182.0, | 0.0); | (386640.3, 3772163.8, |
| 93.5, 182.0, | 0.0); | | | |

Aluminum Cover NO2 Unmitigated

| | | | | |
|--------------------------------|------------------|--------|-------|------------------------|
| (386653.8, 3772174.7, | 93.0, | 182.0, | 0.0); | (386666.0, 3772186.3, |
| 92.7, 182.0, 0.0); | | | | |
| (386677.5, 3772197.8, | 92.5, | 182.0, | 0.0); | (386688.4, 3772208.7, |
| 92.8, 182.0, 0.0); | | | | |
| (386701.2, 3772222.2, | 93.5, | 182.0, | 0.0); | (386448.6, 3772217.7, |
| 102.7, 182.0, 0.0); | | | | |
| (386456.3, 3772212.5, | 102.4, | 182.0, | 0.0); | (386465.3, 3772206.1, |
| 102.1, 182.0, 0.0); | | | | |
| (386474.3, 3772200.4, | 101.8, | 182.0, | 0.0); | (386481.3, 3772194.6, |
| 101.5, 182.0, 0.0); | | | | |
| (386489.0, 3772190.1, | 101.2, | 182.0, | 0.0); | (386499.3, 3772183.1, |
| 100.9, 182.0, 0.0); | | | | |
| (386507.6, 3772177.9, | 100.5, | 182.0, | 0.0); | (386514.7, 3772171.5, |
| 100.3, 182.0, 0.0); | | | | |
| (386576.8, 3772219.6, | 94.6, | 182.0, | 0.0); | (386586.5, 3772209.3, |
| 94.4, 182.0, 0.0); | | | | |
| (386597.4, 3772197.8, | 94.2, | 182.0, | 0.0); | (386607.0, 3772187.5, |
| 94.0, 182.0, 0.0); | | | | |
| (386620.4, 3772178.6, | 93.9, | 182.0, | 0.0); | (386742.9, 3772003.6, |
| 94.5, 182.0, 0.0); | | | | |
| (386386.3, 3771087.3, | 144.9, | 181.0, | 0.0); | (386399.3, 3771081.5, |
| 143.9, 181.0, 0.0); | | | | |
| (386409.4, 3771067.1, | 142.4, | 181.0, | 0.0); | (385296.8, 3773132.0, |
| 117.7, 182.0, 0.0); | | | | |
| (385287.9, 3773147.0, | 117.7, | 182.0, | 0.0); | (385283.5, 3773159.4, |
| 117.2, 182.0, 0.0); | | | | |
| (385576.7, 3773089.5, | 103.9, | 182.0, | 0.0); | (385598.0, 3773060.2, |
| 104.0, 182.0, 0.0); | | | | |
| *** AERMOD - VERSION 09292 *** | *** Elysian | | | |
| *** 11/22/10 | *** Aluminum NO2 | | | |
| *** 18:15:20 | | | | |

PAGE 5

**MODELOPTs: RegDFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

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

| | | | | |
|------------------------|--------|--------|-------|------------------------|
| (385609.5, 3773037.2, | 104.5, | 182.0, | 0.0); | (385629.8, 3772997.4, |
| 105.3, 182.0, 0.0); | | | | |
| (385654.6, 3772953.1, | 106.0, | 182.0, | 0.0); | (385706.0, 3772876.9, |
| 106.7, 182.0, 0.0); | | | | |
| (385752.1, 3772808.7, | 107.3, | 182.0, | 0.0); | (385816.7, 3772724.5, |
| 108.9, 182.0, 0.0); | | | | |
| (385886.7, 3772645.7, | 110.4, | 182.0, | 0.0); | (385952.3, 3772579.3, |
| 111.3, 182.0, 0.0); | | | | |
| (386020.5, 3772519.0, | 111.7, | 182.0, | 0.0); | (386094.0, 3772463.2, |
| 111.1, 182.0, 0.0); | | | | |
| (386169.3, 3772411.0, | 110.4, | 182.0, | 0.0); | (386248.1, 3772359.6, |
| 108.8, 182.0, 0.0); | | | | |
| (386328.7, 3772309.1, | 105.9, | 182.0, | 0.0); | (386407.5, 3772253.3, |
| 103.3, 182.0, 0.0); | | | | |
| (387116.3, 3772187.4, | 108.2, | 182.0, | 0.0); | (387141.0, 3772141.5, |
| 108.9, 108.9, 0.0); | | | | |
| (387201.0, 3772180.3, | 110.6, | 182.0, | 0.0); | (387155.1, 3772229.8, |
| 110.0, 182.0, 0.0); | | | | |
| (386943.3, 3772540.4, | 102.9, | 243.0, | 0.0); | (386925.6, 3772582.8, |
| 102.9, 243.0, 0.0); | | | | |
| (386526.7, 3770944.7, | 129.0, | 131.0, | 0.0); | (386466.7, 3770937.6, |
| 131.1, 131.1, 0.0); | | | | |
| (386537.3, 3770884.7, | 123.8, | 123.8, | 0.0); | (386480.8, 3770881.1, |
| 125.8, 125.8, 0.0); | | | | |
| (387374.0, 3771597.8, | 112.1, | 112.1, | 0.0); | (384880.2, 3771187.7, |
| 166.9, 166.9, 0.0); | | | | |
| (384901.5, 3771161.1, | 167.0, | 167.0, | 0.0); | (384909.4, 3771118.6, |
| 165.9, 165.9, 0.0); | | | | |
| (384912.1, 3771078.8, | 164.8, | 164.8, | 0.0); | (384920.0, 3771052.2, |
| 164.2, 164.2, 0.0); | | | | |

Aluminum Cover NO2 Unmitigated

| | | | | | | | | | | | | | | | |
|------|------|-------|---|------|-------|-------|--------|--------|-------|-------|---------|------|------|------|------|
| 06 | 01 | 01 | 1 | 04 | -1.9 | 0.069 | -9.000 | -9.000 | -999. | 41. | 15.2 | 0.65 | 1.00 | 1.00 | 1.20 |
| 23. | 21.3 | 285.9 | | 17.7 | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 05 | -3.5 | 0.080 | -9.000 | -9.000 | -999. | 52. | 13.1 | 0.65 | 1.00 | 1.00 | 1.40 |
| 61. | 21.3 | 285.4 | | 17.7 | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 06 | -3.0 | 0.086 | -9.000 | -9.000 | -999. | 58. | 19.0 | 0.65 | 1.00 | 1.00 | 1.50 |
| 83. | 21.3 | 285.4 | | 17.7 | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 07 | -6.1 | 0.103 | -9.000 | -9.000 | -999. | 76. | 16.2 | 0.65 | 1.00 | 1.00 | 1.80 |
| 64. | 21.3 | 285.4 | | 17.7 | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 08 | -3.3 | 0.080 | -9.000 | -9.000 | -999. | 52. | 14.1 | 0.65 | 1.00 | 0.55 | 1.40 |
| 46. | 21.3 | 285.4 | | 17.7 | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 09 | 26.6 | 0.304 | 0.644 | 0.005 | 362. | 385. | -95.4 | 0.65 | 1.00 | 0.32 | 2.30 |
| 87. | 21.3 | 286.4 | | 17.7 | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 10 | 21.0 | 0.227 | 0.732 | 0.005 | 675. | 250. | -50.2 | 0.65 | 1.00 | 0.24 | 1.60 |
| 76. | 21.3 | 286.4 | | 17.7 | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 11 | 35.8 | 0.197 | 0.912 | 0.005 | 766. | 201. | -19.2 | 0.65 | 1.00 | 0.21 | 1.20 |
| 66. | 21.3 | 287.5 | | 17.7 | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 12 | 14.9 | 0.281 | 0.686 | 0.005 | 785. | 343. | -135.5 | 0.65 | 1.00 | 0.20 | 2.20 |
| 79. | 21.3 | 287.5 | | 17.7 | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 13 | 26.4 | 0.376 | 0.842 | 0.009 | 818. | 530. | -181.6 | 0.65 | 1.00 | 0.20 | 3.00 |
| 76. | 21.3 | 287.5 | | 17.7 | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 14 | 39.0 | 0.385 | 0.979 | 0.014 | 867. | 549. | -131.8 | 0.65 | 1.00 | 0.21 | 3.00 |
| 80. | 21.3 | 288.1 | | 17.7 | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 15 | 11.4 | 0.277 | 0.653 | 0.014 | 881. | 341. | -168.4 | 0.65 | 1.00 | 0.25 | 2.20 |
| 86. | 21.3 | 287.5 | | 17.7 | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 16 | 0.1 | 0.343 | 0.135 | 0.014 | 881. | 462. | -8888.0 | 0.65 | 1.00 | 0.33 | 3.00 |
| 75. | 21.3 | 287.0 | | 17.7 | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 17 | -13.7 | 0.266 | -9.000 | -9.000 | -999. | 319. | 125.0 | 0.65 | 1.00 | 0.60 | 2.90 |
| 82. | 21.3 | 286.4 | | 17.7 | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 18 | -10.2 | 0.183 | -9.000 | -9.000 | -999. | 183. | 54.5 | 0.65 | 1.00 | 1.00 | 2.50 |
| 101. | 21.3 | 286.4 | | 17.7 | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 19 | -16.1 | 0.289 | -9.000 | -9.000 | -999. | 358. | 135.6 | 0.65 | 1.00 | 1.00 | 3.10 |
| 97. | 21.3 | 285.9 | | 17.7 | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 20 | -25.2 | 0.450 | -9.000 | -9.000 | -999. | 693. | 326.1 | 0.65 | 1.00 | 1.00 | 4.30 |
| 92. | 21.3 | 284.9 | | 17.7 | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 21 | -27.3 | 0.487 | -9.000 | -9.000 | -999. | 781. | 381.9 | 0.65 | 1.00 | 1.00 | 4.60 |
| 88. | 21.3 | 284.2 | | 17.7 | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 22 | -28.0 | 0.499 | -9.000 | -9.000 | -999. | 812. | 402.5 | 0.65 | 1.00 | 1.00 | 4.70 |
| 91. | 21.3 | 284.9 | | 17.7 | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 23 | -36.1 | 0.645 | -9.000 | -9.000 | -999. | 1191. | 673.0 | 0.65 | 1.00 | 1.00 | 5.90 |
| 82. | 21.3 | 285.4 | | 17.7 | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 24 | -35.3 | 0.633 | -9.000 | -9.000 | -999. | 1160. | 649.7 | 0.65 | 1.00 | 1.00 | 5.80 |
| 84. | 21.3 | 285.9 | | 17.7 | | | | | | | | | | | |

First hour of profile data

| YR | MO | DY | HR | HEIGHT | F | WDIR | WSPD | AMB_TMP | sigmaA | sigmaW | sigmaV |
|----|----|----|----|--------|---|-------|--------|---------|--------|--------|--------|
| 06 | 01 | 01 | 01 | 17.7 | 0 | -999. | -99.00 | 286.5 | 99.0 | -99.00 | -99.00 |
| 06 | 01 | 01 | 01 | 21.3 | 1 | 347. | 0.70 | -999.0 | 99.0 | -99.00 | -99.00 |

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

*** AERMOD - VERSION 09292 *** *** Elysian
 *** 11/22/10 *** Aluminum NO2
 *** 18:15:20

PAGE 8

**MODELOPTs: RegDFault CONC

ELEV
 NODRYDPLT NOWETDPLT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: SRCGP1 ***
 INCLUDING SOURCE(S): PAREA3 , PAREA4 ,
 *** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF NOX IN PPM

X-COORD (M) Y-COORD (M) CONC (YYMMDDHH) X-COORD (M) Y-COORD (M)
 CONC (YYMMDDHH)

Aluminum Cover NO2 Unmitigated

| | | | | | | |
|---------|-------------------------|------------|---------|------------|-----------|------------|
| 0.02410 | 386476.85 (06110221) | 3771139.46 | 0.02450 | (06110221) | 386470.44 | 3771149.72 |
| 0.02245 | 386460.18 (07082906) | 3771159.97 | 0.02324 | (06110221) | 386449.29 | 3771172.79 |
| 0.02120 | 386440.31 (07082906) | 3771184.33 | 0.02172 | (07082906) | 386434.54 | 3771197.79 |
| 0.01876 | 386405.05 (07110406) | 3771244.59 | 0.01859 | (07110406) | 386409.54 | 3771235.61 |
| 0.01966 | 386416.59 (07082906) | 3771223.43 | 0.01924 | (06091823) | 386421.08 | 3771217.02 |
| 0.01103 | 386426.21 (07120322) | 3771209.97 | 0.02030 | (07082906) | 386274.28 | 3771299.72 |
| 0.01165 | 386278.77 (07110406) | 3771290.10 | 0.01126 | (07110406) | 386287.75 | 3771280.49 |
| 0.01273 | 386296.08 (07110406) | 3771269.59 | 0.01221 | (07110406) | 386303.13 | 3771259.33 |
| 0.01473 | 386340.31 (07110406) | 3771210.61 | 0.01523 | (07110406) | 386331.34 | 3771222.15 |
| 0.01339 | 386323.00 (07110406) | 3771233.69 | 0.01416 | (07110406) | 386312.75 | 3771248.43 |
| 0.01694 | 386415.31 (06091823) | 3771092.02 | 0.01925 | (07082906) | 386380.05 | 3771051.00 |
| 0.01673 | 386392.23 (06091823) | 3771050.36 | 0.01747 | (07082906) | 386374.29 | 3771063.18 |
| 0.01951 | 386402.49 (07082906) | 3771098.43 | 0.01831 | (07082906) | 386419.80 | 3771082.41 |
| 0.00997 | 386163.39 (07050824) | 3771763.82 | 0.01116 | (07061204) | 386081.33 | 3771480.49 |
| 0.01137 | 386103.77 (06083124) | 3771527.92 | 0.00967 | (07050824) | 386120.44 | 3771576.00 |
| 0.01250 | 386135.82 (06030702) | 3771613.82 | 0.01159 | (06083124) | 386146.72 | 3771651.64 |
| 0.01115 | 386156.33 (07061204) | 3771690.75 | 0.01238 | (06030702) | 386164.67 | 3771730.49 |
| 0.06754 | 386716.60 (07071406) | 3772090.11 | 0.05990 | (07063006) | 386705.70 | 3772082.42 |
| 0.07341 | 386714.67 (07071406) | 3772074.72 | 0.07219 | (07071406) | 386723.00 | 3772061.90 |
| 0.08649 | 386731.99 (07030522) | 3772036.90 | 0.09147 | (07030522) | 386728.13 | 3772051.01 |
| 0.05713 | 386737.11 (07063006) | 3772022.15 | 0.08838 | (06111820) | 386699.29 | 3772099.08 |
| 0.05681 | 386690.31 (07020104) | 3772107.42 | 0.05577 | (07020104) | 386682.62 | 3772113.83 |
| 0.05724 | 386674.29 (07020103) | 3772123.44 | 0.05691 | (07020104) | 386664.67 | 3772134.34 |
| 0.09042 | 386654.42 (07070805) | 3772145.24 | 0.05757 | (07020103) | 386605.70 | 3772127.29 |
| 0.09711 | 386590.95 (06122919) | 3772133.70 | 0.09915 | (06122919) | 386579.42 | 3772139.47 |
| 0.06337 | 386560.18 (06122919) | 3772147.16 | 0.07968 | (06122919) | 386545.44 | 3772154.85 |
| 0.05903 | 386533.26 (06122919) | 3772162.54 | 0.05252 | (06122919) | 386542.88 | 3772179.85 |
| 0.04810 | 386553.13 (07121620) | 3772195.88 | 0.04768 | (07121620) | 386568.52 | 3772208.70 |
| 0.05368 | 386581.98 (07121620) | 3772192.67 | 0.05306 | (07121620) | 386595.44 | 3772181.13 |
| 0.06142 | 386609.54 (07020103) | 3772168.95 | 0.05552 | (07111522) | 386624.29 | 3772152.29 |
| 0.05633 | 386619.16 (07020103) | 3772140.11 | 0.06979 | (07081406) | 386640.31 | 3772163.83 |
| 0.04756 | 386653.77 (07020104) | 3772174.72 | 0.05166 | (07020104) | 386665.95 | 3772186.26 |
| 0.04092 | 386677.49 (07082624) | 3772197.80 | 0.04333 | (07020104) | 386688.39 | 3772208.70 |
| 0.02428 | 386701.21 (07061204) | 3772222.16 | 0.03854 | (07082624) | 386448.64 | 3772217.67 |

Aluminum Cover NO2 Unmitigated

| | | | | | | |
|--------------------------------|-------------------------|------------|------------------|------------|-----------|------------|
| 0.02713 | 386456.34 (07061204) | 3772212.55 | 0.02550 | (07061204) | 386465.31 | 3772206.13 |
| 0.03059 | 386474.29 (07061204) | 3772200.37 | 0.02885 | (07061204) | 386481.34 | 3772194.60 |
| 0.03407 | 386489.03 (07061204) | 3772190.11 | 0.03118 | (07061204) | 386499.29 | 3772183.06 |
| 0.03970 | 386507.62 (07061204) | 3772177.93 | 0.03661 | (07041701) | 386514.67 | 3772171.52 |
| 0.04158 | 386576.85 (07121620) | 3772219.60 | 0.04089 | (07121620) | 386586.47 | 3772209.34 |
| 0.04758 | 386597.36 (07111522) | 3772197.80 | 0.04371 | (07081406) | 386606.98 | 3772187.54 |
| *** AERMOD - VERSION 09292 *** | | | *** Elysian | | | |
| *** 11/22/10 | | | *** Aluminum NO2 | | | |
| *** 18:15:20 | | | | | | |

PAGE 9

**MODELOPTs: RegDFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

SOURCE GROUP: SRCGP1 ***
 *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 INCLUDING SOURCE(S): PAREA3 , PAREA4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

| | | ** CONC OF NOX | | IN PPM | | |
|---------|---------------------------|----------------|---------|------------|-------------|-------------|
| CONC | X-COORD (M) (YYMMDDHH) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) |
| 0.09080 | 386620.44 (06110320) | 3772178.57 | 0.05228 | (07020103) | 386742.87 | 3772003.56 |
| 0.01802 | 386386.30 (06091823) | 3771087.29 | 0.01742 | (06091823) | 386399.28 | 3771081.52 |
| 0.00217 | 386409.38 (07101501) | 3771067.10 | 0.01871 | (07082906) | 385296.78 | 3773131.99 |
| 0.00215 | 385287.93 (07101501) | 3773147.05 | 0.00216 | (07101501) | 385283.50 | 3773159.45 |
| 0.00301 | 385576.69 (07121620) | 3773089.48 | 0.00292 | (07121620) | 385597.95 | 3773060.25 |
| 0.00314 | 385609.46 (07121620) | 3773037.22 | 0.00306 | (07121620) | 385629.84 | 3772997.36 |
| 0.00353 | 385654.64 (07121620) | 3772953.07 | 0.00325 | (07121620) | 385706.01 | 3772876.89 |
| 0.00430 | 385752.07 (07121620) | 3772808.69 | 0.00381 | (07121620) | 385816.74 | 3772724.54 |
| 0.00534 | 385886.71 (07121620) | 3772645.70 | 0.00487 | (07121620) | 385952.26 | 3772579.27 |
| 0.00667 | 386020.46 (07061204) | 3772519.04 | 0.00567 | (07061204) | 386093.98 | 3772463.23 |
| 0.01002 | 386169.27 (07061204) | 3772410.97 | 0.00803 | (07061204) | 386248.11 | 3772359.60 |
| 0.01852 | 386328.71 (07061204) | 3772309.11 | 0.01305 | (07061204) | 386407.55 | 3772253.30 |
| 0.01338 | 387116.28 (06062804) | 3772187.40 | 0.01339 | (07070102) | 387141.00 | 3772141.51 |
| 0.01131 | 387201.01 (07070102) | 3772180.34 | 0.01037 | (06062804) | 387155.12 | 3772229.77 |
| 0.01221 | 386943.29 (07010320) | 3772540.45 | 0.01192 | (07010320) | 386925.64 | 3772582.82 |
| 0.01766 | 386526.69 (06090305) | 3770944.68 | 0.02057 | (06090305) | 386466.67 | 3770937.61 |
| 0.01736 | 386537.28 (06090305) | 3770884.66 | 0.01758 | (06090305) | 386480.80 | 3770881.13 |
| 0.00416 | 387374.01 (07032307) | 3771597.81 | 0.00778 | (06062804) | 384880.19 | 3771187.72 |

Aluminum Cover NO2 Unmitigated

```

384901.45 3771161.15 0.00402 (07081506) 384909.41 3771118.65
0.00432 (07081506)
384912.07 3771078.80 0.00432 (07081506) 384920.04 3771052.24
0.00418 (07081506)
*** AERMOD - VERSION 09292 *** *** Elysian
*** 11/22/10 ***
*** Aluminum NO2
*** 18:15:20

```

PAGE 10

**MODELOPTs: RegDFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

SOURCE GROUP: ALL *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
INCLUDING SOURCE(S): PAREA3 , PAREA4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

| | | ** CONC OF NOX | | IN PPM | |
|---------|---------------------------|----------------|---------|------------|----------------------------|
| CONC | X-COORD (M) (YYMMDDHH) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) Y-COORD (M) |
| 0.02410 | 386476.85 | 3771139.46 | 0.02450 | (06110221) | 386470.44 3771149.72 |
| | (06110221) | | | | |
| 0.02245 | 386460.18 | 3771159.97 | 0.02324 | (06110221) | 386449.29 3771172.79 |
| | (07082906) | | | | |
| 0.02120 | 386440.31 | 3771184.33 | 0.02172 | (07082906) | 386434.54 3771197.79 |
| | (07082906) | | | | |
| 0.01876 | 386405.05 | 3771244.59 | 0.01859 | (07110406) | 386409.54 3771235.61 |
| | (07110406) | | | | |
| 0.01966 | 386416.59 | 3771223.43 | 0.01924 | (06091823) | 386421.08 3771217.02 |
| | (07082906) | | | | |
| 0.01103 | 386426.21 | 3771209.97 | 0.02030 | (07082906) | 386274.28 3771299.72 |
| | (07120322) | | | | |
| 0.01165 | 386278.77 | 3771290.10 | 0.01126 | (07110406) | 386287.75 3771280.49 |
| | (07110406) | | | | |
| 0.01273 | 386296.08 | 3771269.59 | 0.01221 | (07110406) | 386303.13 3771259.33 |
| | (07110406) | | | | |
| 0.01473 | 386340.31 | 3771210.61 | 0.01523 | (07110406) | 386331.34 3771222.15 |
| | (07110406) | | | | |
| 0.01339 | 386323.00 | 3771233.69 | 0.01416 | (07110406) | 386312.75 3771248.43 |
| | (07110406) | | | | |
| 0.01694 | 386415.31 | 3771092.02 | 0.01925 | (07082906) | 386380.05 3771051.00 |
| | (06091823) | | | | |
| 0.01673 | 386392.23 | 3771050.36 | 0.01747 | (07082906) | 386374.29 3771063.18 |
| | (06091823) | | | | |
| 0.01951 | 386402.49 | 3771098.43 | 0.01831 | (07082906) | 386419.80 3771082.41 |
| | (07082906) | | | | |
| 0.00997 | 386163.39 | 3771763.82 | 0.01116 | (07061204) | 386081.33 3771480.49 |
| | (07050824) | | | | |
| 0.01137 | 386103.77 | 3771527.92 | 0.00967 | (07050824) | 386120.44 3771576.00 |
| | (06083124) | | | | |
| 0.01250 | 386135.82 | 3771613.82 | 0.01159 | (06083124) | 386146.72 3771651.64 |
| | (06030702) | | | | |
| 0.01115 | 386156.33 | 3771690.75 | 0.01238 | (06030702) | 386164.67 3771730.49 |
| | (07061204) | | | | |
| 0.06754 | 386716.60 | 3772090.11 | 0.05990 | (07063006) | 386705.70 3772082.42 |
| | (07071406) | | | | |
| 0.07341 | 386714.67 | 3772074.72 | 0.07219 | (07071406) | 386723.00 3772061.90 |
| | (07071406) | | | | |
| 0.08649 | 386731.99 | 3772036.90 | 0.09147 | (07030522) | 386728.13 3772051.01 |
| | (07030522) | | | | |
| 0.05713 | 386737.11 | 3772022.15 | 0.08838 | (06111820) | 386699.29 3772099.08 |
| | (07063006) | | | | |
| 0.05681 | 386690.31 | 3772107.42 | 0.05577 | (07020104) | 386682.62 3772113.83 |
| | (07020104) | | | | |

Aluminum Cover NO2 Unmitigated

| | | | | | | |
|--------------------------------|-------------------------|------------|------------------|------------|-----------|------------|
| 0.05724 | 386674.29 (07020103) | 3772123.44 | 0.05691 | (07020104) | 386664.67 | 3772134.34 |
| 0.09042 | 386654.42 (07070805) | 3772145.24 | 0.05757 | (07020103) | 386605.70 | 3772127.29 |
| 0.09711 | 386590.95 (06122919) | 3772133.70 | 0.09915 | (06122919) | 386579.42 | 3772139.47 |
| 0.06337 | 386560.18 (06122919) | 3772147.16 | 0.07968 | (06122919) | 386545.44 | 3772154.85 |
| 0.05903 | 386533.26 (06122919) | 3772162.54 | 0.05252 | (06122919) | 386542.88 | 3772179.85 |
| 0.04810 | 386553.13 (07121620) | 3772195.88 | 0.04768 | (07121620) | 386568.52 | 3772208.70 |
| 0.05368 | 386581.98 (07121620) | 3772192.67 | 0.05306 | (07121620) | 386595.44 | 3772181.13 |
| 0.06142 | 386609.54 (07020103) | 3772168.95 | 0.05552 | (07111522) | 386624.29 | 3772152.29 |
| 0.05633 | 386619.16 (07020103) | 3772140.11 | 0.06979 | (07081406) | 386640.31 | 3772163.83 |
| 0.04756 | 386653.77 (07020104) | 3772174.72 | 0.05166 | (07020104) | 386665.95 | 3772186.26 |
| 0.04092 | 386677.49 (07082624) | 3772197.80 | 0.04333 | (07020104) | 386688.39 | 3772208.70 |
| 0.02428 | 386701.21 (07061204) | 3772222.16 | 0.03854 | (07082624) | 386448.64 | 3772217.67 |
| 0.02713 | 386456.34 (07061204) | 3772212.55 | 0.02550 | (07061204) | 386465.31 | 3772206.13 |
| 0.03059 | 386474.29 (07061204) | 3772200.37 | 0.02885 | (07061204) | 386481.34 | 3772194.60 |
| 0.03407 | 386489.03 (07061204) | 3772190.11 | 0.03118 | (07061204) | 386499.29 | 3772183.06 |
| 0.03970 | 386507.62 (07061204) | 3772177.93 | 0.03661 | (07041701) | 386514.67 | 3772171.52 |
| 0.04158 | 386576.85 (07121620) | 3772219.60 | 0.04089 | (07121620) | 386586.47 | 3772209.34 |
| 0.04758 | 386597.36 (07111522) | 3772197.80 | 0.04371 | (07081406) | 386606.98 | 3772187.54 |
| *** AERMOD - VERSION 09292 *** | | | *** Elysian | | | |
| *** 11/22/10 | | | *** Aluminum NO2 | | | |
| *** 18:15:20 | | | | | | |

PAGE 11

**MODELOPTs: RegDFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

SOURCE GROUP: ALL *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
INCLUDING SOURCE(S): PAREA3 , PAREA4 ,
*** DISCRETE CARTESIAN RECEPTOR POINTS ***

| | | ** CONC OF NOX | | IN PPM | |
|---------|---------------------------|----------------|---------|------------|----------------------------|
| CONC | X-COORD (M) (YYMMDDHH) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) Y-COORD (M) |
| 0.09080 | 386620.44 (06110320) | 3772178.57 | 0.05228 | (07020103) | 386742.87 3772003.56 |
| 0.01802 | 386386.30 (06091823) | 3771087.29 | 0.01742 | (06091823) | 386399.28 3771081.52 |
| 0.00217 | 386409.38 (07101501) | 3771067.10 | 0.01871 | (07082906) | 385296.78 3773131.99 |
| 0.00215 | 385287.93 (07101501) | 3773147.05 | 0.00216 | (07101501) | 385283.50 3773159.45 |
| 0.00301 | 385576.69 (07121620) | 3773089.48 | 0.00292 | (07121620) | 385597.95 3773060.25 |
| 0.00314 | 385609.46 (07121620) | 3773037.22 | 0.00306 | (07121620) | 385629.84 3772997.36 |

Aluminum Cover NO2 Unmitigated

| | | | | | | |
|---------|-------------------------|------------|---------|------------|-----------|------------|
| 0.00353 | 385654.64 (07121620) | 3772953.07 | 0.00325 | (07121620) | 385706.01 | 3772876.89 |
| 0.00430 | 385752.07 (07121620) | 3772808.69 | 0.00381 | (07121620) | 385816.74 | 3772724.54 |
| 0.00534 | 385886.71 (07121620) | 3772645.70 | 0.00487 | (07121620) | 385952.26 | 3772579.27 |
| 0.00667 | 386020.46 (07061204) | 3772519.04 | 0.00567 | (07061204) | 386093.98 | 3772463.23 |
| 0.01002 | 386169.27 (07061204) | 3772410.97 | 0.00803 | (07061204) | 386248.11 | 3772359.60 |
| 0.01852 | 386328.71 (07061204) | 3772309.11 | 0.01305 | (07061204) | 386407.55 | 3772253.30 |
| 0.01338 | 387116.28 (06062804) | 3772187.40 | 0.01339 | (07070102) | 387141.00 | 3772141.51 |
| 0.01131 | 387201.01 (07070102) | 3772180.34 | 0.01037 | (06062804) | 387155.12 | 3772229.77 |
| 0.01221 | 386943.29 (07010320) | 3772540.45 | 0.01192 | (07010320) | 386925.64 | 3772582.82 |
| 0.01766 | 386526.69 (06090305) | 3770944.68 | 0.02057 | (06090305) | 386466.67 | 3770937.61 |
| 0.01736 | 386537.28 (06090305) | 3770884.66 | 0.01758 | (06090305) | 386480.80 | 3770881.13 |
| 0.00416 | 387374.01 (07032307) | 3771597.81 | 0.00778 | (06062804) | 384880.19 | 3771187.72 |
| 0.00432 | 384901.45 (07081506) | 3771161.15 | 0.00402 | (07081506) | 384909.41 | 3771118.65 |
| 0.00418 | 384912.07 (07081506) | 3771078.80 | 0.00432 | (07081506) | 384920.04 | 3771052.24 |

*** AERMOD - VERSION 09292 *** *** Elysian
 *** 11/22/10
 *** 18:15:20 *** Aluminum NO2

PAGE 12

**MODELOPTs: RegDFAULT CONC

ELEV
 NODRYDPLT NOWETDPLT

*** THE SUMMARY OF HIGHEST 1-HR RESULTS ***

** CONC OF NOX IN PPM

**

| NETWORK | GROUP ID | ZELEV, ZHILL, ZFLAG) | OF TYPE | AVERAGE CONC | DATE | RECEPTOR | (XR, YR, |
|---------|----------|----------------------|---------|--------------|--------------|-----------------|-------------|
| | | | | GRID-ID | (YYMMDDHH) | | |
| SRCGP1 | HIGH | 1ST HIGH VALUE IS | | 0.09915 | ON 06122919: | AT (386590.95, | 3772133.70, |
| 96.54, | 182.00, | 0.00) DC | | | | | |
| ALL | HIGH | 1ST HIGH VALUE IS | | 0.09915 | ON 06122919: | AT (386590.95, | 3772133.70, |
| 96.54, | 182.00, | 0.00) DC | | | | | |

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

*** AERMOD - VERSION 09292 *** *** Elysian
 *** 11/22/10
 *** 18:15:20 *** Aluminum NO2

PAGE 13

**MODELOPTs: RegDFAULT CONC

ELEV
 NODRYDPLT NOWETDPLT

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

Aluminum Cover NO2 Unmitigated

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

A Total of 0 Fatal Error Message(s)
A Total of 0 Warning Message(s)
A Total of 113 Informational Message(s)

A Total of 17520 Hours Were Processed

A Total of 0 Calm Hours Identified

A Total of 113 Missing Hours Identified (0.64 Percent)

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

***** WARNING MESSAGES *****
*** NONE ***

*** AERMOD Finishes Successfully ***

Aluminum Cover CO Unmitigated

```
**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 6.7.1
** Lakes Environmental Software Inc.
** Date: 11/22/2010
** File: C:\Documents and Settings\jbailey\Desktop\Elysian Park AerMod\elysian\Al_CO.ADI
**
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**
CO STARTING
TITLEONE Elysian
TITLETWO Aluminum CO
MODELOPT DFAULT CONC NODRYDPLT NOWETDPLT
AVERTIME 1 8
URBANOPT 9862049 LA
POLLUTID CO
RUNORNOT RUN
CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
LOCATION PAREA3 AREAPOLY 386606.494 3771295.572 139.670
** DESCRSRC Reservoir
LOCATION PAREA4 AREAPOLY 386598.189 3772118.131 96.350
** DESCRSRC Caltrans
** Source Parameters **
SRCPARAM PAREA3 0.0000313487 5.000 18
AREAVERT PAREA3 386606.494 3771295.572 386560.430 3771386.706
AREAVERT PAREA3 386502.641 3771467.538 386454.064 3771523.011
AREAVERT PAREA3 386432.288 3771547.577 386455.739 3771575.313
AREAVERT PAREA3 386485.890 3771583.238 386543.680 3771557.879
AREAVERT PAREA3 386593.931 3771507.954 386619.057 3771483.387
AREAVERT PAREA3 386650.046 3771442.179 386660.096 3771427.914
AREAVERT PAREA3 386676.847 3771408.103 386688.572 3771388.291
AREAVERT PAREA3 386676.847 3771361.347 386655.909 3771323.308
AREAVERT PAREA3 386640.833 3771309.044 386614.032 3771295.572
SRCPARAM PAREA4 0.0001115 5.000 14
AREAVERT PAREA4 386598.189 3772118.131 386582.499 3772090.138
AREAVERT PAREA4 386633.724 3772053.797 386639.492 3772051.587
AREAVERT PAREA4 386653.798 3772051.341 386669.719 3772039.800
AREAVERT PAREA4 386684.025 3772011.316 386695.331 3771993.391
AREAVERT PAREA4 386697.639 3771989.462 386718.867 3771999.775
AREAVERT PAREA4 386698.331 3772048.886 386685.179 3772065.583
AREAVERT PAREA4 386673.872 3772076.387 386653.567 3772089.647
URBANSRC PAREA3
URBANSRC PAREA4
CONCUNIT 873.2 GRAMS/SEC PPM
SRCGROUP SRCGP1 PAREA4 PAREA3
SRCGROUP ALL
SO FINISHED
**
*****
** AERMOD Receptor Pathway
*****
**
**
RE STARTING
```

Aluminum Cover CO Unmitigated

```
INCLUDED Al_CO.rou
RE FINISHED
**
*****
** AERMOD Meteorology Pathway
*****
**
**
ME STARTING
SURFFILE "L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\cela.SFC"
PROFFILE "L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\cela.PFL"
SURFDATA 0 2006
UAIRDATA 3190 2006
PROFBASE 10 METERS
ME FINISHED
**
*****
** AERMOD Output Pathway
*****
**
**
OU STARTING
RECTABLE ALLAVE 1ST
RECTABLE 1 1ST
RECTABLE 8 1ST
** Auto-Generated Plotfiles
PLOTFILE 1 ALL 1ST AL_CO.AD\01H1GALL.PLT
PLOTFILE 8 ALL 1ST AL_CO.AD\08H1GALL.PLT
PLOTFILE 1 SRCGP1 1ST AL_CO.AD\01H1G001.PLT
PLOTFILE 8 SRCGP1 1ST AL_CO.AD\08H1G001.PLT
OU FINISHED

*****
*** SETUP Finishes Successfully ***
*****

*** AERMOD - VERSION 09292 ***      *** Elysian
***      11/22/10
***                                     *** Aluminum CO
***      18:07:02

PAGE 1
**MODELOPTs:  RegDFault CONC                                ELEV
                                                         NODRYDPLT NOWETDPLT

***      MODEL SETUP OPTIONS SUMMARY      ***
-----
**Model Is Setup For Calculation of Average CONCentration Values.

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

**Model Uses URBAN Dispersion Algorithm for the SBL for      2 Source(s),
for Total of      1 Urban Area(s):
Urban Population = 9862049.0 ; Urban Roughness Length = 1.000 m

**Model Uses Regulatory DEFAULT Options:
1. Stack-tip Downwash.
2. Model Accounts for ELEVated Terrain Effects.
3. Use Calms Processing Routine.
4. Use Missing Data Processing Routine.
5. No Exponential Decay for URBAN/Non-SO2.
6. Urban Roughness Length of 1.0 Meter Assumed.

**Model Assumes No FLAGPOLE Receptor Heights.
```

Aluminum Cover CO Unmitigated

**Model Calculates 2 Short Term Average(s) of: 1-HR 8-HR
 **This Run Includes: 2 Source(s); 2 Source Group(s); and 120 Receptor(s)
 **The Model Assumes A Pollutant Type of: CO
 **Model Set To Continue RUNNING After the Setup Testing.

**Output Options Selected:
 Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
 Model Outputs External File(s) of High Values for Plotting (PLOTFILE 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) = 10.00 ; Decay Coef. = 0.000
 ; Rot. Angle = 0.0
 Emission Units = GRAMS/SEC ; Emission Rate
 Unit Factor = 873.20
 Output Units = PPM

**Approximate Storage Requirements of Model = 3.5 MB of RAM.

*** AERMOD - VERSION 09292 *** *** Elysian
 *** 11/22/10
 *** Aluminum CO
 *** 18:07:02

PAGE 2

**MODELOPTs: RegDEFAULT CONC ELEV
 NODRYDPLT NOWETDPLT

*** AREAPOLY SOURCE DATA ***

| URBAN SOURCE | EMISSION RATE | NUMBER | EMISSION RATE | LOCATION OF AREA | BASE | RELEASE | NUMBER | INIT. |
|---------------|--------------------|----------|---------------|------------------|----------|----------|----------|----------|
| SOURCE SCALAR | PART. (USER UNITS) | X | Y | ELEV. | HEIGHT | OF | VERTS. | SZ |
| ID | CATS. /METER**2) | (METERS) | (METERS) | (METERS) | (METERS) | (METERS) | (METERS) | (METERS) |

BY

| | | | | | | | | | |
|--------|--------|-------------|-------------|-----------|-----------|------|------|------|------|
| PAREA3 | 0 | 0.31349E-04 | 386606.5 | 3771295.6 | 139.7 | 5.00 | 18 | 0.00 | |
| YES | PAREA4 | 0 | 0.11150E-03 | 386598.2 | 3772118.1 | 96.3 | 5.00 | 14 | 0.00 |
| YES | | | | | | | | | |

*** AERMOD - VERSION 09292 *** *** Elysian
 *** 11/22/10
 *** Aluminum CO
 *** 18:07:02

PAGE 3

**MODELOPTs: RegDEFAULT CONC ELEV
 NODRYDPLT NOWETDPLT

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID SOURCE IDs

SRCGP1 PAREA3 , PAREA4 ,

ALL PAREA3 , PAREA4 ,

Aluminum Cover CO Unmitigated

*** AERMOD - VERSION 09292 *** *** Elysian
 *** 11/22/10
 *** 18:07:02 *** Aluminum CO

PAGE 4
 **MODELOPTs: RegDFAULT CONC

ELEV
 NODRYDPLT NOWETDPLT

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

| | | | | |
|------------------------|--------|--------|-------|------------------------|
| (386476.8, 3771139.5, | 143.3, | 181.0, | 0.0); | (386470.4, 3771149.7, |
| 144.2, 181.0, | | 0.0); | | |
| (386460.2, 3771160.0, | 145.3, | 181.0, | 0.0); | (386449.3, 3771172.8, |
| 146.6, 181.0, | | 0.0); | | |
| (386440.3, 3771184.3, | 147.6, | 181.0, | 0.0); | (386434.5, 3771197.8, |
| 148.6, 181.0, | | 0.0); | | |
| (386405.0, 3771244.6, | 152.9, | 181.0, | 0.0); | (386409.5, 3771235.6, |
| 151.9, 181.0, | | 0.0); | | |
| (386416.6, 3771223.4, | 150.9, | 181.0, | 0.0); | (386421.1, 3771217.0, |
| 150.3, 181.0, | | 0.0); | | |
| (386426.2, 3771210.0, | 149.6, | 181.0, | 0.0); | (386274.3, 3771299.7, |
| 168.1, 181.0, | | 0.0); | | |
| (386278.8, 3771290.1, | 167.4, | 181.0, | 0.0); | (386287.8, 3771280.5, |
| 166.6, 181.0, | | 0.0); | | |
| (386296.1, 3771269.6, | 164.9, | 181.0, | 0.0); | (386303.1, 3771259.3, |
| 163.5, 181.0, | | 0.0); | | |
| (386340.3, 3771210.6, | 155.9, | 181.0, | 0.0); | (386331.3, 3771222.1, |
| 157.6, 181.0, | | 0.0); | | |
| (386323.0, 3771233.7, | 159.3, | 181.0, | 0.0); | (386312.8, 3771248.4, |
| 161.6, 181.0, | | 0.0); | | |
| (386415.3, 3771092.0, | 143.8, | 181.0, | 0.0); | (386380.0, 3771051.0, |
| 142.9, 164.0, | | 0.0); | | |
| (386392.2, 3771050.4, | 142.2, | 181.0, | 0.0); | (386374.3, 3771063.2, |
| 144.0, 164.0, | | 0.0); | | |
| (386402.5, 3771098.4, | 144.8, | 181.0, | 0.0); | (386419.8, 3771082.4, |
| 142.9, 181.0, | | 0.0); | | |
| (386163.4, 3771763.8, | 182.0, | 182.0, | 0.0); | (386081.3, 3771480.5, |
| 178.0, 178.0, | | 0.0); | | |
| (386103.8, 3771527.9, | 179.8, | 179.8, | 0.0); | (386120.4, 3771576.0, |
| 181.1, 181.1, | | 0.0); | | |
| (386135.8, 3771613.8, | 182.0, | 182.0, | 0.0); | (386146.7, 3771651.6, |
| 182.0, 182.0, | | 0.0); | | |
| (386156.3, 3771690.8, | 182.0, | 182.0, | 0.0); | (386164.7, 3771730.5, |
| 182.0, 182.0, | | 0.0); | | |
| (386716.6, 3772090.1, | 93.4, | 182.0, | 0.0); | (386705.7, 3772082.4, |
| 93.0, 182.0, | | 0.0); | | |
| (386714.7, 3772074.7, | 93.3, | 182.0, | 0.0); | (386723.0, 3772061.9, |
| 93.7, 182.0, | | 0.0); | | |
| (386732.0, 3772036.9, | 94.0, | 182.0, | 0.0); | (386728.1, 3772051.0, |
| 93.9, 182.0, | | 0.0); | | |
| (386737.1, 3772022.1, | 94.2, | 182.0, | 0.0); | (386699.3, 3772099.1, |
| 92.7, 182.0, | | 0.0); | | |
| (386690.3, 3772107.4, | 92.4, | 182.0, | 0.0); | (386682.6, 3772113.8, |
| 92.1, 182.0, | | 0.0); | | |
| (386674.3, 3772123.4, | 92.3, | 182.0, | 0.0); | (386664.7, 3772134.3, |
| 92.8, 182.0, | | 0.0); | | |
| (386654.4, 3772145.2, | 93.1, | 182.0, | 0.0); | (386605.7, 3772127.3, |
| 95.6, 182.0, | | 0.0); | | |
| (386591.0, 3772133.7, | 96.5, | 182.0, | 0.0); | (386579.4, 3772139.5, |
| 97.2, 182.0, | | 0.0); | | |
| (386560.2, 3772147.2, | 98.4, | 182.0, | 0.0); | (386545.4, 3772154.8, |
| 99.0, 182.0, | | 0.0); | | |
| (386533.3, 3772162.5, | 99.5, | 182.0, | 0.0); | (386542.9, 3772179.8, |
| 98.2, 182.0, | | 0.0); | | |
| (386553.1, 3772195.9, | 96.9, | 182.0, | 0.0); | (386568.5, 3772208.7, |
| 95.5, 182.0, | | 0.0); | | |
| (386582.0, 3772192.7, | 95.3, | 182.0, | 0.0); | (386595.4, 3772181.1, |
| 94.8, 182.0, | | 0.0); | | |

Aluminum Cover CO Unmitigated

| | | | | |
|------------------------|--------|--------|-------|------------------------|
| (386609.5, 3772168.9, | 94.5, | 182.0, | 0.0); | (386624.3, 3772152.3, |
| 94.3, 182.0, 0.0); | | | | |
| (386619.2, 3772140.1, | 94.7, | 182.0, | 0.0); | (386640.3, 3772163.8, |
| 93.5, 182.0, 0.0); | | | | |
| (386653.8, 3772174.7, | 93.0, | 182.0, | 0.0); | (386666.0, 3772186.3, |
| 92.7, 182.0, 0.0); | | | | |
| (386677.5, 3772197.8, | 92.5, | 182.0, | 0.0); | (386688.4, 3772208.7, |
| 92.8, 182.0, 0.0); | | | | |
| (386701.2, 3772222.2, | 93.5, | 182.0, | 0.0); | (386448.6, 3772217.7, |
| 102.7, 182.0, 0.0); | | | | |
| (386456.3, 3772212.5, | 102.4, | 182.0, | 0.0); | (386465.3, 3772206.1, |
| 102.1, 182.0, 0.0); | | | | |
| (386474.3, 3772200.4, | 101.8, | 182.0, | 0.0); | (386481.3, 3772194.6, |
| 101.5, 182.0, 0.0); | | | | |
| (386489.0, 3772190.1, | 101.2, | 182.0, | 0.0); | (386499.3, 3772183.1, |
| 100.9, 182.0, 0.0); | | | | |
| (386507.6, 3772177.9, | 100.5, | 182.0, | 0.0); | (386514.7, 3772171.5, |
| 100.3, 182.0, 0.0); | | | | |
| (386576.8, 3772219.6, | 94.6, | 182.0, | 0.0); | (386586.5, 3772209.3, |
| 94.4, 182.0, 0.0); | | | | |
| (386597.4, 3772197.8, | 94.2, | 182.0, | 0.0); | (386607.0, 3772187.5, |
| 94.0, 182.0, 0.0); | | | | |
| (386620.4, 3772178.6, | 93.9, | 182.0, | 0.0); | (386742.9, 3772003.6, |
| 94.5, 182.0, 0.0); | | | | |
| (386386.3, 3771087.3, | 144.9, | 181.0, | 0.0); | (386399.3, 3771081.5, |
| 143.9, 181.0, 0.0); | | | | |
| (386409.4, 3771067.1, | 142.4, | 181.0, | 0.0); | (385296.8, 3773132.0, |
| 117.7, 182.0, 0.0); | | | | |
| (385287.9, 3773147.0, | 117.7, | 182.0, | 0.0); | (385283.5, 3773159.4, |
| 117.2, 182.0, 0.0); | | | | |
| (385576.7, 3773089.5, | 103.9, | 182.0, | 0.0); | (385598.0, 3773060.2, |
| 104.0, 182.0, 0.0); | | | | |

*** AERMOD - VERSION 09292 ***
 *** 11/22/10

*** Elysian
 *** Aluminum CO

*** 18:07:02

PAGE 5

**MODELOPTs: RegDFAULT CONC

ELEV
 NODRYDPLT NOWETDPLT

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

| | | | | |
|------------------------|--------|--------|-------|------------------------|
| (385609.5, 3773037.2, | 104.5, | 182.0, | 0.0); | (385629.8, 3772997.4, |
| 105.3, 182.0, 0.0); | | | | |
| (385654.6, 3772953.1, | 106.0, | 182.0, | 0.0); | (385706.0, 3772876.9, |
| 106.7, 182.0, 0.0); | | | | |
| (385752.1, 3772808.7, | 107.3, | 182.0, | 0.0); | (385816.7, 3772724.5, |
| 108.9, 182.0, 0.0); | | | | |
| (385886.7, 3772645.7, | 110.4, | 182.0, | 0.0); | (385952.3, 3772579.3, |
| 111.3, 182.0, 0.0); | | | | |
| (386020.5, 3772519.0, | 111.7, | 182.0, | 0.0); | (386094.0, 3772463.2, |
| 111.1, 182.0, 0.0); | | | | |
| (386169.3, 3772411.0, | 110.4, | 182.0, | 0.0); | (386248.1, 3772359.6, |
| 108.8, 182.0, 0.0); | | | | |
| (386328.7, 3772309.1, | 105.9, | 182.0, | 0.0); | (386407.5, 3772253.3, |
| 103.3, 182.0, 0.0); | | | | |
| (387116.3, 3772187.4, | 108.2, | 182.0, | 0.0); | (387141.0, 3772141.5, |
| 108.9, 108.9, 0.0); | | | | |
| (387201.0, 3772180.3, | 110.6, | 182.0, | 0.0); | (387155.1, 3772229.8, |
| 110.0, 182.0, 0.0); | | | | |
| (386943.3, 3772540.4, | 102.9, | 243.0, | 0.0); | (386925.6, 3772582.8, |
| 102.9, 243.0, 0.0); | | | | |
| (386526.7, 3770944.7, | 129.0, | 131.0, | 0.0); | (386466.7, 3770937.6, |
| 131.1, 131.1, 0.0); | | | | |
| (386537.3, 3770884.7, | 123.8, | 123.8, | 0.0); | (386480.8, 3770881.1, |
| 125.8, 125.8, 0.0); | | | | |
| (387374.0, 3771597.8, | 112.1, | 112.1, | 0.0); | (384880.2, 3771187.7, |
| 166.9, 166.9, 0.0); | | | | |

Aluminum Cover CO Unmitigated

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      ( 384901.5, 3771161.1, 167.0, 167.0, 0.0);      ( 384909.4, 3771118.6,
165.9, 165.9, 0.0);
      ( 384912.1, 3771078.8, 164.8, 164.8, 0.0);      ( 384920.0, 3771052.2,
164.2, 164.2, 0.0);
*** AERMOD - VERSION 09292 ***      *** Elysian
***      11/22/10
***
***      18:07:02

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PAGE 6

**MODELOPTs: RegDFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

*** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
(1=YES; 0=NO)

```

      1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1  1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
      1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1  1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
      1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1  1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
      1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1  1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
      1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1  1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
      1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1  1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

```

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES

(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

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*** AERMOD - VERSION 09292 ***      *** Elysian
***      11/22/10
***
***      18:07:02

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PAGE 7

**MODELOPTs: RegDFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

```

Surface file:  L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met
Data\cela.SFC   Met Version: 06341
Profile file:  L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met
Data\cela.PFL
Surface format: FREE
Profile format: FREE
Surface station no.: 0
                        Name: UNKNOWN
                        Year: 2006
                        Upper air station no.: 3190
                        Name: UNKNOWN
                        Year: 2006

```

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First 24 hours of scalar data
YR MO DY JDY HR  H0  U*  W*  DT/DZ ZICNV ZIMCH  M-O LEN  Z0  BOWEN ALBEDO  REF WS
WD  HT  REF TA  HT
-----
06 01 01  1 01  -0.9  0.040 -9.000 -9.000 -999.  18.    6.3  0.65  1.00  1.00  0.70
347.  21.3  286.4  17.7

```

Aluminum Cover CO Unmitigated

| | | | | | | | | | | | | | | | |
|------|------|-------|------|----|-------|-------|--------|--------|-------|-------|---------|------|------|------|------|
| 06 | 01 | 01 | 1 | 02 | -3.0 | 0.086 | -9.000 | -9.000 | -999. | 58. | 19.1 | 0.65 | 1.00 | 1.00 | 1.50 |
| 82. | 21.3 | 286.4 | 17.7 | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 03 | -1.3 | 0.057 | -9.000 | -9.000 | -999. | 31. | 12.7 | 0.65 | 1.00 | 1.00 | 1.00 |
| 66. | 21.3 | 286.4 | 17.7 | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 04 | -1.9 | 0.069 | -9.000 | -9.000 | -999. | 41. | 15.2 | 0.65 | 1.00 | 1.00 | 1.20 |
| 23. | 21.3 | 285.9 | 17.7 | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 05 | -3.5 | 0.080 | -9.000 | -9.000 | -999. | 52. | 13.1 | 0.65 | 1.00 | 1.00 | 1.40 |
| 61. | 21.3 | 285.4 | 17.7 | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 06 | -3.0 | 0.086 | -9.000 | -9.000 | -999. | 58. | 19.0 | 0.65 | 1.00 | 1.00 | 1.50 |
| 83. | 21.3 | 285.4 | 17.7 | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 07 | -6.1 | 0.103 | -9.000 | -9.000 | -999. | 76. | 16.2 | 0.65 | 1.00 | 1.00 | 1.80 |
| 64. | 21.3 | 285.4 | 17.7 | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 08 | -3.3 | 0.080 | -9.000 | -9.000 | -999. | 52. | 14.1 | 0.65 | 1.00 | 0.55 | 1.40 |
| 46. | 21.3 | 285.4 | 17.7 | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 09 | 26.6 | 0.304 | 0.644 | 0.005 | 362. | 385. | -95.4 | 0.65 | 1.00 | 0.32 | 2.30 |
| 87. | 21.3 | 286.4 | 17.7 | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 10 | 21.0 | 0.227 | 0.732 | 0.005 | 675. | 250. | -50.2 | 0.65 | 1.00 | 0.24 | 1.60 |
| 76. | 21.3 | 286.4 | 17.7 | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 11 | 35.8 | 0.197 | 0.912 | 0.005 | 766. | 201. | -19.2 | 0.65 | 1.00 | 0.21 | 1.20 |
| 66. | 21.3 | 287.5 | 17.7 | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 12 | 14.9 | 0.281 | 0.686 | 0.005 | 785. | 343. | -135.5 | 0.65 | 1.00 | 0.20 | 2.20 |
| 79. | 21.3 | 287.5 | 17.7 | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 13 | 26.4 | 0.376 | 0.842 | 0.009 | 818. | 530. | -181.6 | 0.65 | 1.00 | 0.20 | 3.00 |
| 76. | 21.3 | 287.5 | 17.7 | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 14 | 39.0 | 0.385 | 0.979 | 0.014 | 867. | 549. | -131.8 | 0.65 | 1.00 | 0.21 | 3.00 |
| 80. | 21.3 | 288.1 | 17.7 | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 15 | 11.4 | 0.277 | 0.653 | 0.014 | 881. | 341. | -168.4 | 0.65 | 1.00 | 0.25 | 2.20 |
| 86. | 21.3 | 287.5 | 17.7 | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 16 | 0.1 | 0.343 | 0.135 | 0.014 | 881. | 462. | -8888.0 | 0.65 | 1.00 | 0.33 | 3.00 |
| 75. | 21.3 | 287.0 | 17.7 | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 17 | -13.7 | 0.266 | -9.000 | -9.000 | -999. | 319. | 125.0 | 0.65 | 1.00 | 0.60 | 2.90 |
| 82. | 21.3 | 286.4 | 17.7 | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 18 | -10.2 | 0.183 | -9.000 | -9.000 | -999. | 183. | 54.5 | 0.65 | 1.00 | 1.00 | 2.50 |
| 101. | 21.3 | 286.4 | 17.7 | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 19 | -16.1 | 0.289 | -9.000 | -9.000 | -999. | 358. | 135.6 | 0.65 | 1.00 | 1.00 | 3.10 |
| 97. | 21.3 | 285.9 | 17.7 | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 20 | -25.2 | 0.450 | -9.000 | -9.000 | -999. | 693. | 326.1 | 0.65 | 1.00 | 1.00 | 4.30 |
| 92. | 21.3 | 284.9 | 17.7 | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 21 | -27.3 | 0.487 | -9.000 | -9.000 | -999. | 781. | 381.9 | 0.65 | 1.00 | 1.00 | 4.60 |
| 88. | 21.3 | 284.2 | 17.7 | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 22 | -28.0 | 0.499 | -9.000 | -9.000 | -999. | 812. | 402.5 | 0.65 | 1.00 | 1.00 | 4.70 |
| 91. | 21.3 | 284.9 | 17.7 | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 23 | -36.1 | 0.645 | -9.000 | -9.000 | -999. | 1191. | 673.0 | 0.65 | 1.00 | 1.00 | 5.90 |
| 82. | 21.3 | 285.4 | 17.7 | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 24 | -35.3 | 0.633 | -9.000 | -9.000 | -999. | 1160. | 649.7 | 0.65 | 1.00 | 1.00 | 5.80 |
| 84. | 21.3 | 285.9 | 17.7 | | | | | | | | | | | | |

First hour of profile data

| YR | MO | DY | HR | HEIGHT | F | WDIR | WSPD | AMB_TMP | sigmaA | sigmaW | sigmaV |
|----|----|----|----|--------|---|-------|--------|---------|--------|--------|--------|
| 06 | 01 | 01 | 01 | 17.7 | 0 | -999. | -99.00 | 286.5 | 99.0 | -99.00 | -99.00 |
| 06 | 01 | 01 | 01 | 21.3 | 1 | 347. | 0.70 | -999.0 | 99.0 | -99.00 | -99.00 |

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

*** AERMOD - VERSION 09292 *** *** Elysian
 *** 11/22/10 *** Aluminum CO
 *** 18:07:02

PAGE 8

**MODELOPTs: RegDFault CONC

ELEV
 NODRYDPLT NOWETDPLT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: SRCGP1 ***
 INCLUDING SOURCE(S): PAREA3 , PAREA4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF CO IN PPM

**

Aluminum Cover CO Unmitigated

| CONC | X-COORD (M) (YYMMDDHH) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) |
|---------|---------------------------|-------------|---------|------------|-------------|-------------|
| 0.19035 | 386476.85 (06110221) | 3771139.46 | 0.19330 | (06110221) | 386470.44 | 3771149.72 |
| 0.17737 | 386460.18 (07082906) | 3771159.97 | 0.18384 | (06110221) | 386449.29 | 3771172.79 |
| 0.16805 | 386440.31 (07082906) | 3771184.33 | 0.17190 | (07082906) | 386434.54 | 3771197.79 |
| 0.14676 | 386405.05 (06091823) | 3771244.59 | 0.14450 | (07110406) | 386409.54 | 3771235.61 |
| 0.15625 | 386416.59 (07082906) | 3771223.43 | 0.15175 | (06091823) | 386421.08 | 3771217.02 |
| 0.08570 | 386426.21 (07120322) | 3771209.97 | 0.16116 | (07082906) | 386274.28 | 3771299.72 |
| 0.09057 | 386278.77 (07110406) | 3771290.10 | 0.08748 | (07110406) | 386287.75 | 3771280.49 |
| 0.09890 | 386296.08 (07110406) | 3771269.59 | 0.09492 | (07110406) | 386303.13 | 3771259.33 |
| 0.11444 | 386340.31 (07110406) | 3771210.61 | 0.11837 | (07110406) | 386331.34 | 3771222.15 |
| 0.10405 | 386323.00 (07110406) | 3771233.69 | 0.11002 | (07110406) | 386312.75 | 3771248.43 |
| 0.13325 | 386415.31 (06091823) | 3771092.02 | 0.15254 | (07082906) | 386380.05 | 3771051.00 |
| 0.13183 | 386392.23 (06091823) | 3771050.36 | 0.13882 | (07082906) | 386374.29 | 3771063.18 |
| 0.15447 | 386402.49 (07082906) | 3771098.43 | 0.14543 | (07082906) | 386419.80 | 3771082.41 |
| 0.07746 | 386163.39 (07050824) | 3771763.82 | 0.08673 | (07061204) | 386081.33 | 3771480.49 |
| 0.08835 | 386103.77 (06083124) | 3771527.92 | 0.07513 | (07050824) | 386120.44 | 3771576.00 |
| 0.09718 | 386135.82 (06030702) | 3771613.82 | 0.09005 | (06083124) | 386146.72 | 3771651.64 |
| 0.08665 | 386156.33 (07061204) | 3771690.75 | 0.09624 | (06030702) | 386164.67 | 3771730.49 |
| 0.57839 | 386716.60 (07071406) | 3772090.11 | 0.51300 | (07063006) | 386705.70 | 3772082.42 |
| 0.62866 | 386714.67 (07071406) | 3772074.72 | 0.61827 | (07071406) | 386723.00 | 3772061.90 |
| 0.74067 | 386731.99 (07030522) | 3772036.90 | 0.78332 | (07030522) | 386728.13 | 3772051.01 |
| 0.48927 | 386737.11 (07063006) | 3772022.15 | 0.75685 | (06111820) | 386699.29 | 3772099.08 |
| 0.47999 | 386690.31 (07020104) | 3772107.42 | 0.47131 | (07020104) | 386682.62 | 3772113.83 |
| 0.48396 | 386674.29 (07020103) | 3772123.44 | 0.48133 | (07020103) | 386664.67 | 3772134.34 |
| 0.77435 | 386654.42 (07070805) | 3772145.24 | 0.48646 | (07020103) | 386605.70 | 3772127.29 |
| 0.83163 | 386590.95 (06122919) | 3772133.70 | 0.84911 | (06122919) | 386579.42 | 3772139.47 |
| 0.54272 | 386560.18 (06122919) | 3772147.16 | 0.68234 | (06122919) | 386545.44 | 3772154.85 |
| 0.50555 | 386533.26 (06122919) | 3772162.54 | 0.44974 | (06122919) | 386542.88 | 3772179.85 |
| 0.41192 | 386553.13 (07121620) | 3772195.88 | 0.40832 | (07121620) | 386568.52 | 3772208.70 |
| 0.45970 | 386581.98 (07121620) | 3772192.67 | 0.45437 | (07121620) | 386595.44 | 3772181.13 |
| 0.51881 | 386609.54 (07020103) | 3772168.95 | 0.47408 | (07111522) | 386624.29 | 3772152.29 |
| 0.47565 | 386619.16 (07020103) | 3772140.11 | 0.59756 | (07081406) | 386640.31 | 3772163.83 |
| 0.40081 | 386653.77 (07020104) | 3772174.72 | 0.43596 | (07020103) | 386665.95 | 3772186.26 |
| 0.34457 | 386677.49 (07082624) | 3772197.80 | 0.36491 | (07020104) | 386688.39 | 3772208.70 |

Aluminum Cover CO Unmitigated

| | | | | | | |
|---------|-------------------------|------------|---------|------------|-----------|------------|
| 0.20792 | 386701.21 (07061204) | 3772222.16 | 0.32417 | (07082624) | 386448.64 | 3772217.67 |
| 0.23235 | 386456.34 (07061204) | 3772212.55 | 0.21836 | (07061204) | 386465.31 | 3772206.13 |
| 0.26198 | 386474.29 (07061204) | 3772200.37 | 0.24710 | (07061204) | 386481.34 | 3772194.60 |
| 0.29180 | 386489.03 (07061204) | 3772190.11 | 0.26706 | (07061204) | 386499.29 | 3772183.06 |
| 0.33998 | 386507.62 (07061204) | 3772177.93 | 0.31349 | (07041701) | 386514.67 | 3772171.52 |
| 0.35612 | 386576.85 (07121620) | 3772219.60 | 0.35015 | (07121620) | 386586.47 | 3772209.34 |
| 0.40612 | 386597.36 (07111522) | 3772197.80 | 0.37423 | (07081406) | 386606.98 | 3772187.54 |

*** AERMOD - VERSION 09292 ***
 *** 11/22/10 ***
 *** 18:07:02 ***

*** Elysian
 *** Aluminum CO

PAGE 9

**MODELOPTs: RegDFAULT CONC

ELEV
 NODRYDPLT NOWETDPLT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: SRCGP1 ***
 INCLUDING SOURCE(S): PAREA3 , PAREA4 ,
 *** DISCRETE CARTESIAN RECEPTOR POINTS ***
 ** CONC OF CO IN PPM

| CONC | X-COORD (M) (YYMMDDHH) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) |
|---------|---------------------------|-------------|---------|------------|-------------|-------------|
| 0.77759 | 386620.44 (06110320) | 3772178.57 | 0.44075 | (07020103) | 386742.87 | 3772003.56 |
| 0.14318 | 386386.30 (07082906) | 3771087.29 | 0.13713 | (06091823) | 386399.28 | 3771081.52 |
| 0.01831 | 386409.38 (07060324) | 3771067.10 | 0.14832 | (07082906) | 385296.78 | 3773131.99 |
| 0.01810 | 385287.93 (07101501) | 3773147.05 | 0.01814 | (07101501) | 385283.50 | 3773159.45 |
| 0.02342 | 385576.69 (07121620) | 3773089.48 | 0.02269 | (07121620) | 385597.95 | 3773060.25 |
| 0.02440 | 385609.46 (07121620) | 3773037.22 | 0.02376 | (07121620) | 385629.84 | 3772997.36 |
| 0.02745 | 385654.64 (07121620) | 3772953.07 | 0.02528 | (07121620) | 385706.01 | 3772876.89 |
| 0.03343 | 385752.07 (07121620) | 3772808.69 | 0.02964 | (07121620) | 385816.74 | 3772724.54 |
| 0.04193 | 385886.71 (07061204) | 3772645.70 | 0.03788 | (07121620) | 385952.26 | 3772579.27 |
| 0.05711 | 386020.46 (07061204) | 3772519.04 | 0.04857 | (07061204) | 386093.98 | 3772463.23 |
| 0.08582 | 386169.27 (07061204) | 3772410.97 | 0.06878 | (07061204) | 386248.11 | 3772359.60 |
| 0.15864 | 386328.71 (07061204) | 3772309.11 | 0.11173 | (07061204) | 386407.55 | 3772253.30 |
| 0.11456 | 387116.28 (06062804) | 3772187.40 | 0.11466 | (07070102) | 387141.00 | 3772141.51 |
| 0.09689 | 387201.01 (07070102) | 3772180.34 | 0.08882 | (06062804) | 387155.12 | 3772229.77 |
| 0.10251 | 386943.29 (07010320) | 3772540.45 | 0.09941 | (07010320) | 386925.64 | 3772582.82 |
| 0.14055 | 386526.69 (06090305) | 3770944.68 | 0.16331 | (06090305) | 386466.67 | 3770937.61 |
| 0.13831 | 386537.28 (06090305) | 3770884.66 | 0.13983 | (06090305) | 386480.80 | 3770881.13 |

Aluminum Cover CO Unmitigated

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387374.01 3771597.81 0.06184 (07070124) 384880.19 3771187.72
0.03232 (07032307)
384901.45 3771161.15 0.03121 (07081506) 384909.41 3771118.65
0.03355 (07081506)
384912.07 3771078.80 0.03358 (07081506) 384920.04 3771052.24
0.03252 (07081506)
*** AERMOD - VERSION 09292 *** *** Elysian
*** 11/22/10 ***
*** 18:07:02 *** Aluminum CO

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PAGE 10

**MODELOPTs: RegDFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

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*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): PAREA3 , PAREA4 ,
*** DISCRETE CARTESIAN RECEPTOR POINTS ***
** CONC OF CO IN PPM

```

| CONC | X-COORD (M) (YYMMDDHH) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) |
|---------|---------------------------|-------------|---------|------------|-------------|-------------|
| 0.19035 | 386476.85 | 3771139.46 | 0.19330 | (06110221) | 386470.44 | 3771149.72 |
| 0.17737 | 386460.18 | 3771159.97 | 0.18384 | (06110221) | 386449.29 | 3771172.79 |
| 0.16805 | 386440.31 | 3771184.33 | 0.17190 | (07082906) | 386434.54 | 3771197.79 |
| 0.14676 | 386405.05 | 3771244.59 | 0.14450 | (07110406) | 386409.54 | 3771235.61 |
| 0.15625 | 386416.59 | 3771223.43 | 0.15175 | (06091823) | 386421.08 | 3771217.02 |
| 0.08570 | 386426.21 | 3771209.97 | 0.16116 | (07082906) | 386274.28 | 3771299.72 |
| 0.09057 | 386278.77 | 3771290.10 | 0.08748 | (07110406) | 386287.75 | 3771280.49 |
| 0.09890 | 386296.08 | 3771269.59 | 0.09492 | (07110406) | 386303.13 | 3771259.33 |
| 0.11444 | 386340.31 | 3771210.61 | 0.11837 | (07110406) | 386331.34 | 3771222.15 |
| 0.10405 | 386323.00 | 3771233.69 | 0.11002 | (07110406) | 386312.75 | 3771248.43 |
| 0.13325 | 386415.31 | 3771092.02 | 0.15254 | (07082906) | 386380.05 | 3771051.00 |
| 0.13183 | 386392.23 | 3771050.36 | 0.13882 | (07082906) | 386374.29 | 3771063.18 |
| 0.15447 | 386402.49 | 3771098.43 | 0.14543 | (07082906) | 386419.80 | 3771082.41 |
| 0.07746 | 386163.39 | 3771763.82 | 0.08673 | (07061204) | 386081.33 | 3771480.49 |
| 0.08835 | 386103.77 | 3771527.92 | 0.07513 | (07050824) | 386120.44 | 3771576.00 |
| 0.09718 | 386135.82 | 3771613.82 | 0.09005 | (06083124) | 386146.72 | 3771651.64 |
| 0.08665 | 386156.33 | 3771690.75 | 0.09624 | (06030702) | 386164.67 | 3771730.49 |
| 0.57839 | 386716.60 | 3772090.11 | 0.51300 | (07063006) | 386705.70 | 3772082.42 |
| 0.62866 | 386714.67 | 3772074.72 | 0.61827 | (07071406) | 386723.00 | 3772061.90 |
| 0.74067 | 386731.99 | 3772036.90 | 0.78332 | (07030522) | 386728.13 | 3772051.01 |
| 0.48927 | 386737.11 | 3772022.15 | 0.75685 | (06111820) | 386699.29 | 3772099.08 |

Aluminum Cover CO Unmitigated

| | | | | | | |
|--------------------------------|-------------------------|------------|-----------------|------------|-----------|------------|
| 0.47999 | 386690.31 (07020104) | 3772107.42 | 0.47131 | (07020104) | 386682.62 | 3772113.83 |
| 0.48396 | 386674.29 (07020103) | 3772123.44 | 0.48133 | (07020103) | 386664.67 | 3772134.34 |
| 0.77435 | 386654.42 (07070805) | 3772145.24 | 0.48646 | (07020103) | 386605.70 | 3772127.29 |
| 0.83163 | 386590.95 (06122919) | 3772133.70 | 0.84911 | (06122919) | 386579.42 | 3772139.47 |
| 0.54272 | 386560.18 (06122919) | 3772147.16 | 0.68234 | (06122919) | 386545.44 | 3772154.85 |
| 0.50555 | 386533.26 (06122919) | 3772162.54 | 0.44974 | (06122919) | 386542.88 | 3772179.85 |
| 0.41192 | 386553.13 (07121620) | 3772195.88 | 0.40832 | (07121620) | 386568.52 | 3772208.70 |
| 0.45970 | 386581.98 (07121620) | 3772192.67 | 0.45437 | (07121620) | 386595.44 | 3772181.13 |
| 0.51881 | 386609.54 (07020103) | 3772168.95 | 0.47408 | (07111522) | 386624.29 | 3772152.29 |
| 0.47565 | 386619.16 (07020103) | 3772140.11 | 0.59756 | (07081406) | 386640.31 | 3772163.83 |
| 0.40081 | 386653.77 (07020104) | 3772174.72 | 0.43596 | (07020103) | 386665.95 | 3772186.26 |
| 0.34457 | 386677.49 (07082624) | 3772197.80 | 0.36491 | (07020104) | 386688.39 | 3772208.70 |
| 0.20792 | 386701.21 (07061204) | 3772222.16 | 0.32417 | (07082624) | 386448.64 | 3772217.67 |
| 0.23235 | 386456.34 (07061204) | 3772212.55 | 0.21836 | (07061204) | 386465.31 | 3772206.13 |
| 0.26198 | 386474.29 (07061204) | 3772200.37 | 0.24710 | (07061204) | 386481.34 | 3772194.60 |
| 0.29180 | 386489.03 (07061204) | 3772190.11 | 0.26706 | (07061204) | 386499.29 | 3772183.06 |
| 0.33998 | 386507.62 (07061204) | 3772177.93 | 0.31349 | (07041701) | 386514.67 | 3772171.52 |
| 0.35612 | 386576.85 (07121620) | 3772219.60 | 0.35015 | (07121620) | 386586.47 | 3772209.34 |
| 0.40612 | 386597.36 (07111522) | 3772197.80 | 0.37423 | (07081406) | 386606.98 | 3772187.54 |
| *** AERMOD - VERSION 09292 *** | | | *** Elysian | | | |
| *** 11/22/10 | | | *** Aluminum CO | | | |
| *** 18:07:02 | | | | | | |

PAGE 11

**MODELOPTs: RegDFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): PAREA3 , PAREA4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF CO IN PPM

**

| CONC | X-COORD (M) (YYMMDDHH) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) |
|---------|---------------------------|-------------|---------|------------|-------------|-------------|
| 0.77759 | 386620.44 (06110320) | 3772178.57 | 0.44075 | (07020103) | 386742.87 | 3772003.56 |
| 0.14318 | 386386.30 (07082906) | 3771087.29 | 0.13713 | (06091823) | 386399.28 | 3771081.52 |
| 0.01831 | 386409.38 (07060324) | 3771067.10 | 0.14832 | (07082906) | 385296.78 | 3773131.99 |
| 0.01810 | 385287.93 (07101501) | 3773147.05 | 0.01814 | (07101501) | 385283.50 | 3773159.45 |
| 0.02342 | 385576.69 (07121620) | 3773089.48 | 0.02269 | (07121620) | 385597.95 | 3773060.25 |

Aluminum Cover CO Unmitigated

| | | | | | | |
|--------------------------------|-------------------------|------------|-----------------|------------|-----------|------------|
| 0.02440 | 385609.46 (07121620) | 3773037.22 | 0.02376 | (07121620) | 385629.84 | 3772997.36 |
| 0.02745 | 385654.64 (07121620) | 3772953.07 | 0.02528 | (07121620) | 385706.01 | 3772876.89 |
| 0.03343 | 385752.07 (07121620) | 3772808.69 | 0.02964 | (07121620) | 385816.74 | 3772724.54 |
| 0.04193 | 385886.71 (07061204) | 3772645.70 | 0.03788 | (07121620) | 385952.26 | 3772579.27 |
| 0.05711 | 386020.46 (07061204) | 3772519.04 | 0.04857 | (07061204) | 386093.98 | 3772463.23 |
| 0.08582 | 386169.27 (07061204) | 3772410.97 | 0.06878 | (07061204) | 386248.11 | 3772359.60 |
| 0.15864 | 386328.71 (07061204) | 3772309.11 | 0.11173 | (07061204) | 386407.55 | 3772253.30 |
| 0.11456 | 387116.28 (06062804) | 3772187.40 | 0.11466 | (07070102) | 387141.00 | 3772141.51 |
| 0.09689 | 387201.01 (07070102) | 3772180.34 | 0.08882 | (06062804) | 387155.12 | 3772229.77 |
| 0.10251 | 386943.29 (07010320) | 3772540.45 | 0.09941 | (07010320) | 386925.64 | 3772582.82 |
| 0.14055 | 386526.69 (06090305) | 3770944.68 | 0.16331 | (06090305) | 386466.67 | 3770937.61 |
| 0.13831 | 386537.28 (06090305) | 3770884.66 | 0.13983 | (06090305) | 386480.80 | 3770881.13 |
| 0.03232 | 387374.01 (07032307) | 3771597.81 | 0.06184 | (07070124) | 384880.19 | 3771187.72 |
| 0.03355 | 384901.45 (07081506) | 3771161.15 | 0.03121 | (07081506) | 384909.41 | 3771118.65 |
| 0.03252 | 384912.07 (07081506) | 3771078.80 | 0.03358 | (07081506) | 384920.04 | 3771052.24 |
| *** AERMOD - VERSION 09292 *** | | | *** Elysian | | | |
| *** 11/22/10 | | | *** Aluminum CO | | | |
| *** 18:07:02 | | | | | | |

PAGE 12

**MODELOPTs: RegDFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

SOURCE GROUP: SRCGP1 *** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR
INCLUDING SOURCE(S): PAREA3 , PAREA4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF CO IN PPM

**

| CONC | X-COORD (M) (YYMMDDHH) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) |
|---------|---------------------------|-------------|---------|------------|-------------|-------------|
| 0.12218 | 386476.85 (07122008) | 3771139.46 | 0.12133 | (07122008) | 386470.44 | 3771149.72 |
| 0.11746 | 386460.18 (07020208) | 3771159.97 | 0.12080 | (07122008) | 386449.29 | 3771172.79 |
| 0.12248 | 386440.31 (06020208) | 3771184.33 | 0.12010 | (06020208) | 386434.54 | 3771197.79 |
| 0.11576 | 386405.05 (06020208) | 3771244.59 | 0.11266 | (06020208) | 386409.54 | 3771235.61 |
| 0.12050 | 386416.59 (06020208) | 3771223.43 | 0.11893 | (06020208) | 386421.08 | 3771217.02 |
| 0.04487 | 386426.21 (07010408) | 3771209.97 | 0.12182 | (06020208) | 386274.28 | 3771299.72 |
| 0.04878 | 386278.77 (06020208) | 3771290.10 | 0.04492 | (06121308) | 386287.75 | 3771280.49 |
| 0.05979 | 386296.08 (06020208) | 3771269.59 | 0.05451 | (06020208) | 386303.13 | 3771259.33 |
| 0.08078 | 386340.31 (06020208) | 3771210.61 | 0.08676 | (06020208) | 386331.34 | 3771222.15 |

Aluminum Cover CO Unmitigated

| | | | | | | |
|---------|----------------------------|------------|---------|-------------|-----------|------------|
| 0.06661 | 386323.00 (06020208) | 3771233.69 | 0.07466 | (06020208) | 386312.75 | 3771248.43 |
| 0.07979 | 386415.31 (07020208) | 3771092.02 | 0.09302 | (07020208) | 386380.05 | 3771051.00 |
| 0.07931 | 386392.23 (07020208) | 3771050.36 | 0.08244 | (07020208) | 386374.29 | 3771063.18 |
| 0.09270 | 386402.49 (07020208) | 3771098.43 | 0.09189 | (07020208) | 386419.80 | 3771082.41 |
| 0.03070 | 386163.39 (06121608) | 3771763.82 | 0.02122 | (06122908) | 386081.33 | 3771480.49 |
| 0.02059 | 386103.77 (06032508) | 3771527.92 | 0.02576 | (06121608) | 386120.44 | 3771576.00 |
| 0.01949 | 386135.82 (06032508) | 3771613.82 | 0.02194 | (06032508) | 386146.72 | 3771651.64 |
| 0.02095 | 386156.33 (06122908) | 3771690.75 | 0.01863 | (07102108) | 386164.67 | 3771730.49 |
| 0.33888 | 386716.60 (07111824) | 3772090.11 | 0.28608 | (07060408) | 386705.70 | 3772082.42 |
| 0.38383 | 386714.67 (07111824) | 3772074.72 | 0.36105 | (07111824) | 386723.00 | 3772061.90 |
| 0.38338 | 386731.99 (07111824) | 3772036.90 | 0.36930 | (06080408) | 386728.13 | 3772051.01 |
| 0.31038 | 386737.11 (07060408) | 3772022.15 | 0.38405 | (07080308) | 386699.29 | 3772099.08 |
| 0.30787 | 386690.31 (07041324) | 3772107.42 | 0.30841 | (07060408) | 386682.62 | 3772113.83 |
| 0.32899 | 386674.29 (07031908) | 3772123.44 | 0.31654 | (07041324) | 386664.67 | 3772134.34 |
| 0.43320 | 386654.42 (07031908) | 3772145.24 | 0.33809 | (07031908) | 386605.70 | 3772127.29 |
| 0.23414 | 386590.95 (06051308) | 3772133.70 | 0.31837 | (07031908) | 386579.42 | 3772139.47 |
| 0.14278 | 386560.18 (06041108) | 3772147.16 | 0.17302 | (06041108) | 386545.44 | 3772154.85 |
| 0.10889 | 386533.26 (06051308) | 3772162.54 | 0.12246 | (06041108) | 386542.88 | 3772179.85 |
| 0.13088 | 386553.13 (07031908) | 3772195.88 | 0.12258 | (06051308) | 386568.52 | 3772208.70 |
| 0.24290 | 386581.98 (07031908) | 3772192.67 | 0.18038 | (07031908) | 386595.44 | 3772181.13 |
| 0.38227 | 386609.54 (07031908) | 3772168.95 | 0.31451 | (07031908) | 386624.29 | 3772152.29 |
| 0.32741 | 386619.16 (07031908) | 3772140.11 | 0.42672 | (07031908) | 386640.31 | 3772163.83 |
| 0.23704 | 386653.77 (07041324) | 3772174.72 | 0.27691 | (07031908) | 386665.95 | 3772186.26 |
| 0.18757 | 386677.49 (07041324) | 3772197.80 | 0.21018 | (07041324) | 386688.39 | 3772208.70 |
| 0.05871 | 386701.21 (06041108) | 3772222.16 | 0.16262 | (07041324) | 386448.64 | 3772217.67 |
| 0.06620 | 386456.34 (06041108) | 3772212.55 | 0.06192 | (06041108) | 386465.31 | 3772206.13 |
| 0.07528 | 386474.29 (06041108) | 3772200.37 | 0.07076 | (06041108) | 386481.34 | 3772194.60 |
| 0.08721 | 386489.03 (06041108) | 3772190.11 | 0.07945 | (06041108) | 386499.29 | 3772183.06 |
| 0.10262 | 386507.62 (06041108) | 3772177.93 | 0.09411 | (06041108) | 386514.67 | 3772171.52 |
| 0.17828 | 386576.85 (07031908) | 3772219.60 | 0.14724 | (07031908) | 386586.47 | 3772209.34 |
| 0.26067 | 386597.36 (07031908) | 3772197.80 | 0.21989 | (07031908) | 386606.98 | 3772187.54 |
| *** | AERMOD - VERSION 09292 *** | | *** | Elysian | | |
| *** | 11/22/10 | | *** | Aluminum CO | | |
| *** | 18:07:02 | | | | | |

PAGE 13

**MODELOPTs: RegDEFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

Aluminum Cover CO Unmitigated

SOURCE GROUP: SRCGP1 *** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR
 INCLUDING SOURCE(S): PAREA3 , PAREA4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF CO IN PPM

**

| CONC | X-COORD (M) (YYMMDDHH) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) |
|---------|---------------------------|-------------|---------|------------|-------------|-------------|
| 0.38608 | 386620.44 (06082908) | 3772178.57 | 0.30187 | (07031908) | 386742.87 | 3772003.56 |
| 0.08754 | 386386.30 (07020208) | 3771087.29 | 0.08601 | (07020208) | 386399.28 | 3771081.52 |
| 0.00409 | 386409.38 (06120908) | 3771067.10 | 0.08817 | (07020208) | 385296.78 | 3773131.99 |
| 0.00405 | 385287.93 (06120908) | 3773147.05 | 0.00406 | (06120908) | 385283.50 | 3773159.45 |
| 0.00546 | 385576.69 (06051308) | 3773089.48 | 0.00533 | (06051308) | 385597.95 | 3773060.25 |
| 0.00559 | 385609.46 (06051308) | 3773037.22 | 0.00551 | (06051308) | 385629.84 | 3772997.36 |
| 0.00608 | 385654.64 (06051308) | 3772953.07 | 0.00572 | (06051308) | 385706.01 | 3772876.89 |
| 0.00711 | 385752.07 (06051308) | 3772808.69 | 0.00645 | (06051308) | 385816.74 | 3772724.54 |
| 0.00898 | 385886.71 (06051308) | 3772645.70 | 0.00800 | (06051308) | 385952.26 | 3772579.27 |
| 0.01140 | 386020.46 (07021824) | 3772519.04 | 0.01011 | (06051308) | 386093.98 | 3772463.23 |
| 0.01985 | 386169.27 (06041108) | 3772410.97 | 0.01443 | (06041108) | 386248.11 | 3772359.60 |
| 0.04408 | 386328.71 (06041108) | 3772309.11 | 0.02885 | (06041108) | 386407.55 | 3772253.30 |
| 0.03900 | 387116.28 (07101324) | 3772187.40 | 0.04460 | (07111924) | 387141.00 | 3772141.51 |
| 0.03984 | 387201.01 (07111924) | 3772180.34 | 0.03213 | (07111924) | 387155.12 | 3772229.77 |
| 0.03447 | 386943.29 (06101508) | 3772540.45 | 0.03514 | (06101508) | 386925.64 | 3772582.82 |
| 0.06250 | 386526.69 (07122008) | 3770944.68 | 0.06316 | (06081708) | 386466.67 | 3770937.61 |
| 0.05259 | 386537.28 (06081708) | 3770884.66 | 0.05352 | (06081708) | 386480.80 | 3770881.13 |
| 0.01266 | 387374.01 (06103008) | 3771597.81 | 0.02789 | (06103108) | 384880.19 | 3771187.72 |
| 0.01273 | 384901.45 (07012808) | 3771161.15 | 0.01267 | (06103008) | 384909.41 | 3771118.65 |
| 0.01201 | 384912.07 (07012808) | 3771078.80 | 0.01241 | (07012808) | 384920.04 | 3771052.24 |

*** AERMOD - VERSION 09292 ***
 *** 11/22/10
 *** 18:07:02

*** Elysian
 *** Aluminum CO

PAGE 14

**MODELOPTs: RegDFAULT CONC

ELEV
 NODRYDPLT NOWETDPLT

SOURCE GROUP: ALL *** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR
 INCLUDING SOURCE(S): PAREA3 , PAREA4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF CO IN PPM

**

Aluminum Cover CO Unmitigated

| CONC | X-COORD (M) (YYMMDDHH) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) |
|---------|---------------------------|-------------|---------|------------|-------------|-------------|
| 0.12218 | 386476.85 (07122008) | 3771139.46 | 0.12133 | (07122008) | 386470.44 | 3771149.72 |
| 0.11746 | 386460.18 (07020208) | 3771159.97 | 0.12080 | (07122008) | 386449.29 | 3771172.79 |
| 0.12248 | 386440.31 (06020208) | 3771184.33 | 0.12010 | (06020208) | 386434.54 | 3771197.79 |
| 0.11576 | 386405.05 (06020208) | 3771244.59 | 0.11266 | (06020208) | 386409.54 | 3771235.61 |
| 0.12050 | 386416.59 (06020208) | 3771223.43 | 0.11893 | (06020208) | 386421.08 | 3771217.02 |
| 0.04487 | 386426.21 (07010408) | 3771209.97 | 0.12182 | (06020208) | 386274.28 | 3771299.72 |
| 0.04878 | 386278.77 (06020208) | 3771290.10 | 0.04492 | (06121308) | 386287.75 | 3771280.49 |
| 0.05979 | 386296.08 (06020208) | 3771269.59 | 0.05451 | (06020208) | 386303.13 | 3771259.33 |
| 0.08078 | 386340.31 (06020208) | 3771210.61 | 0.08676 | (06020208) | 386331.34 | 3771222.15 |
| 0.06661 | 386323.00 (06020208) | 3771233.69 | 0.07466 | (06020208) | 386312.75 | 3771248.43 |
| 0.07979 | 386415.31 (07020208) | 3771092.02 | 0.09302 | (07020208) | 386380.05 | 3771051.00 |
| 0.07931 | 386392.23 (07020208) | 3771050.36 | 0.08244 | (07020208) | 386374.29 | 3771063.18 |
| 0.09270 | 386402.49 (07020208) | 3771098.43 | 0.09189 | (07020208) | 386419.80 | 3771082.41 |
| 0.03070 | 386163.39 (06121608) | 3771763.82 | 0.02122 | (06122908) | 386081.33 | 3771480.49 |
| 0.02059 | 386103.77 (06032508) | 3771527.92 | 0.02576 | (06121608) | 386120.44 | 3771576.00 |
| 0.01949 | 386135.82 (06032508) | 3771613.82 | 0.02194 | (06032508) | 386146.72 | 3771651.64 |
| 0.02095 | 386156.33 (06122908) | 3771690.75 | 0.01863 | (07102108) | 386164.67 | 3771730.49 |
| 0.33888 | 386716.60 (07111824) | 3772090.11 | 0.28608 | (07060408) | 386705.70 | 3772082.42 |
| 0.38383 | 386714.67 (07111824) | 3772074.72 | 0.36105 | (07111824) | 386723.00 | 3772061.90 |
| 0.38338 | 386731.99 (07111824) | 3772036.90 | 0.36930 | (06080408) | 386728.13 | 3772051.01 |
| 0.31038 | 386737.11 (07060408) | 3772022.15 | 0.38405 | (07080308) | 386699.29 | 3772099.08 |
| 0.30787 | 386690.31 (07041324) | 3772107.42 | 0.30841 | (07060408) | 386682.62 | 3772113.83 |
| 0.32899 | 386674.29 (07031908) | 3772123.44 | 0.31654 | (07041324) | 386664.67 | 3772134.34 |
| 0.43320 | 386654.42 (07031908) | 3772145.24 | 0.33809 | (07031908) | 386605.70 | 3772127.29 |
| 0.23414 | 386590.95 (06051308) | 3772133.70 | 0.31837 | (07031908) | 386579.42 | 3772139.47 |
| 0.14278 | 386560.18 (06041108) | 3772147.16 | 0.17302 | (06041108) | 386545.44 | 3772154.85 |
| 0.10889 | 386533.26 (06051308) | 3772162.54 | 0.12246 | (06041108) | 386542.88 | 3772179.85 |
| 0.13088 | 386553.13 (07031908) | 3772195.88 | 0.12258 | (06051308) | 386568.52 | 3772208.70 |
| 0.24290 | 386581.98 (07031908) | 3772192.67 | 0.18038 | (07031908) | 386595.44 | 3772181.13 |
| 0.38227 | 386609.54 (07031908) | 3772168.95 | 0.31451 | (07031908) | 386624.29 | 3772152.29 |
| 0.32741 | 386619.16 (07031908) | 3772140.11 | 0.42672 | (07031908) | 386640.31 | 3772163.83 |
| 0.23704 | 386653.77 (07041324) | 3772174.72 | 0.27691 | (07031908) | 386665.95 | 3772186.26 |
| 0.18757 | 386677.49 (07041324) | 3772197.80 | 0.21018 | (07041324) | 386688.39 | 3772208.70 |

Aluminum Cover CO Unmitigated

| | | | | | | |
|---------|-------------------------|------------|---------|------------|-----------|------------|
| 0.05871 | 386701.21 (06041108) | 3772222.16 | 0.16262 | (07041324) | 386448.64 | 3772217.67 |
| 0.06620 | 386456.34 (06041108) | 3772212.55 | 0.06192 | (06041108) | 386465.31 | 3772206.13 |
| 0.07528 | 386474.29 (06041108) | 3772200.37 | 0.07076 | (06041108) | 386481.34 | 3772194.60 |
| 0.08721 | 386489.03 (06041108) | 3772190.11 | 0.07945 | (06041108) | 386499.29 | 3772183.06 |
| 0.10262 | 386507.62 (06041108) | 3772177.93 | 0.09411 | (06041108) | 386514.67 | 3772171.52 |
| 0.17828 | 386576.85 (07031908) | 3772219.60 | 0.14724 | (07031908) | 386586.47 | 3772209.34 |
| 0.26067 | 386597.36 (07031908) | 3772197.80 | 0.21989 | (07031908) | 386606.98 | 3772187.54 |

*** AERMOD - VERSION 09292 ***
 *** 11/22/10 ***
 *** 18:07:02 ***

*** Elysian
 *** Aluminum CO

PAGE 15

**MODELOPTs: RegDFAULT CONC

ELEV
 NODRYDPLT NOWETDPLT

*** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): PAREA3 , PAREA4 ,
 *** DISCRETE CARTESIAN RECEPTOR POINTS ***
 ** CONC OF CO IN PPM

| CONC | X-COORD (M) (YYMMDDHH) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) |
|---------|---------------------------|-------------|---------|------------|-------------|-------------|
| 0.38608 | 386620.44 (06082908) | 3772178.57 | 0.30187 | (07031908) | 386742.87 | 3772003.56 |
| 0.08754 | 386386.30 (07020208) | 3771087.29 | 0.08601 | (07020208) | 386399.28 | 3771081.52 |
| 0.00409 | 386409.38 (06120908) | 3771067.10 | 0.08817 | (07020208) | 385296.78 | 3773131.99 |
| 0.00405 | 385287.93 (06120908) | 3773147.05 | 0.00406 | (06120908) | 385283.50 | 3773159.45 |
| 0.00546 | 385576.69 (06051308) | 3773089.48 | 0.00533 | (06051308) | 385597.95 | 3773060.25 |
| 0.00559 | 385609.46 (06051308) | 3773037.22 | 0.00551 | (06051308) | 385629.84 | 3772997.36 |
| 0.00608 | 385654.64 (06051308) | 3772953.07 | 0.00572 | (06051308) | 385706.01 | 3772876.89 |
| 0.00711 | 385752.07 (06051308) | 3772808.69 | 0.00645 | (06051308) | 385816.74 | 3772724.54 |
| 0.00898 | 385886.71 (06051308) | 3772645.70 | 0.00800 | (06051308) | 385952.26 | 3772579.27 |
| 0.01140 | 386020.46 (07021824) | 3772519.04 | 0.01011 | (06051308) | 386093.98 | 3772463.23 |
| 0.01985 | 386169.27 (06041108) | 3772410.97 | 0.01443 | (06041108) | 386248.11 | 3772359.60 |
| 0.04408 | 386328.71 (06041108) | 3772309.11 | 0.02885 | (06041108) | 386407.55 | 3772253.30 |
| 0.03900 | 387116.28 (07101324) | 3772187.40 | 0.04460 | (07111924) | 387141.00 | 3772141.51 |
| 0.03984 | 387201.01 (07111924) | 3772180.34 | 0.03213 | (07111924) | 387155.12 | 3772229.77 |
| 0.03447 | 386943.29 (06101508) | 3772540.45 | 0.03514 | (06101508) | 386925.64 | 3772582.82 |
| 0.06250 | 386526.69 (07122008) | 3770944.68 | 0.06316 | (06081708) | 386466.67 | 3770937.61 |
| 0.05259 | 386537.28 (06081708) | 3770884.66 | 0.05352 | (06081708) | 386480.80 | 3770881.13 |

Aluminum Cover CO Unmitigated

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387374.01 3771597.81 0.02789 (06103108) 384880.19 3771187.72
0.01266 (06103008)
384901.45 3771161.15 0.01267 (06103008) 384909.41 3771118.65
0.01273 (07012808)
384912.07 3771078.80 0.01241 (07012808) 384920.04 3771052.24
0.01201 (07012808)
*** AERMOD - VERSION 09292 *** *** Elysian
*** 11/22/10 ***
*** 18:07:02 *** Aluminum CO

```

PAGE 16

**MODELOPTs: RegDFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

*** THE SUMMARY OF HIGHEST 1-HR RESULTS ***

```

** CONC OF CO IN PPM
**
DATE
NETWORK
GROUP ID AVERAGE CONC (YYMMDDHH) RECEPTOR (XR, YR,
ZELEV, ZHILL, ZFLAG) OF TYPE GRID-ID
-----
SRCGP1 HIGH 1ST HIGH VALUE IS 0.84911 ON 06122919: AT ( 386590.95, 3772133.70,
96.54, 182.00, 0.00) DC
ALL HIGH 1ST HIGH VALUE IS 0.84911 ON 06122919: AT ( 386590.95, 3772133.70,
96.54, 182.00, 0.00) DC

```

```

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR
*** AERMOD - VERSION 09292 *** *** Elysian
*** 11/22/10 ***
*** 18:07:02 *** Aluminum CO

```

PAGE 17

**MODELOPTs: RegDFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

*** THE SUMMARY OF HIGHEST 8-HR RESULTS ***

```

** CONC OF CO IN PPM
**
DATE
NETWORK
GROUP ID AVERAGE CONC (YYMMDDHH) RECEPTOR (XR, YR,
ZELEV, ZHILL, ZFLAG) OF TYPE GRID-ID
-----
SRCGP1 HIGH 1ST HIGH VALUE IS 0.43320 ON 07031908: AT ( 386605.70, 3772127.29,
95.60, 182.00, 0.00) DC
ALL HIGH 1ST HIGH VALUE IS 0.43320 ON 07031908: AT ( 386605.70, 3772127.29,
95.60, 182.00, 0.00) DC

```

```

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

```

Aluminum Cover CO Unmitigated

DP = DISCPOLR
*** AERMOD - VERSION 09292 *** *** Elysian
*** 11/22/10 ***
*** Aluminum CO
*** 18:07:02

PAGE 18

**MODELOPTs: RegDFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

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

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

A Total of 0 Fatal Error Message(s)
A Total of 0 Warning Message(s)
A Total of 113 Informational Message(s)

A Total of 17520 Hours Were Processed

A Total of 0 Calm Hours Identified

A Total of 113 Missing Hours Identified (0.64 Percent)

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

***** WARNING MESSAGES *****
*** NONE ***

*** AERMOD Finishes Successfully ***

Aluminum Cover PM2.5 Mitigated

```
**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 6.7.1
** Lakes Environmental Software Inc.
** Date: 11/22/2010
** File: C:\Documents and Settings\jbailey\Desktop\Elysian Park AerMod\elysian\A_PM25M.ADI
**
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**
CO STARTING
TITLEONE Elysian
TITLETWO Aluminum PM25 Mitigated
MODELOPT DFAULT CONC NODRYDPLT NOWETDPLT
AVERTIME 24
URBANOPT 9862049 LA
POLLUTID PM.25
RUNORNOT RUN
CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
LOCATION PAREA3 AREAPOLY 386606.494 3771295.572 139.670
** DESCRSRC Reservoir
LOCATION PAREA4 AREAPOLY 386596.536 3772117.718 96.500
** DESCRSRC Caltrans
LOCATION AREA2 AREA 386602.251 3772074.114 96.950
LOCATION AREA3 AREA 386514.382 3771483.886 154.350
** Source Parameters **
SRCPARAM PAREA3 2.4039E-06 5.000 18
AREAVERT PAREA3 386606.494 3771295.572 386560.430 3771386.706
AREAVERT PAREA3 386502.641 3771467.538 386454.064 3771523.011
AREAVERT PAREA3 386432.288 3771547.577 386455.739 3771575.313
AREAVERT PAREA3 386485.890 3771583.238 386543.680 3771557.879
AREAVERT PAREA3 386593.931 3771507.954 386619.057 3771483.387
AREAVERT PAREA3 386650.046 3771442.179 386660.096 3771427.914
AREAVERT PAREA3 386676.847 3771408.103 386688.572 3771388.291
AREAVERT PAREA3 386676.847 3771361.347 386655.909 3771323.308
AREAVERT PAREA3 386640.833 3771309.044 386614.032 3771295.572
SRCPARAM PAREA4 8.1406E-06 5.000 14
AREAVERT PAREA4 386596.536 3772117.718 386580.846 3772089.725
AREAVERT PAREA4 386632.070 3772053.383 386637.838 3772051.173
AREAVERT PAREA4 386652.144 3772050.928 386668.065 3772039.387
AREAVERT PAREA4 386682.371 3772010.903 386693.678 3771992.977
AREAVERT PAREA4 386695.985 3771989.049 386717.213 3771999.362
AREAVERT PAREA4 386696.677 3772048.472 386683.525 3772065.170
AREAVERT PAREA4 386672.219 3772075.974 386651.914 3772089.234
SRCPARAM AREA2 0.0000189363 0.000 107.950 39.380 44.060 0.000
SRCPARAM AREA3 0.0000244643 0.000 107.950 39.380 44.060 0.000
URBANSRC PAREA3
URBANSRC PAREA4
URBANSRC AREA2
URBANSRC AREA3
SRCGROUP SRCGP1 PAREA4 PAREA3 AREA2 AREA3
SRCGROUP ALL
SO FINISHED
**
*****
```

Aluminum Cover PM2.5 Mitigated

```
** AERMOD Receptor Pathway
*****
**
**
RE STARTING
  INCLUDED A_PM25M.rou
RE FINISHED
**
*****
** AERMOD Meteorology Pathway
*****
**
**
ME STARTING
  SURFFILE "L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\cela.SFC"
  PROFFILE "L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\cela.PFL"
  SURFDATA 0 2006
  UAIRDATA 3190 2006
  PROFBASE 10 METERS
ME FINISHED
**
*****
** AERMOD Output Pathway
*****
**
**
OU STARTING
  RECTABLE ALLAVE 1ST
  RECTABLE 24 1ST
** Auto-Generated Plotfiles
  PLOTFILE 24 ALL 1ST A_PM25M.AD\24H1GALL.PLT
  PLOTFILE 24 SRCGP1 1ST A_PM25M.AD\24H1G001.PLT
OU FINISHED

*****
*** SETUP Finishes Successfully ***
*****

*** AERMOD - VERSION 09292 ***      *** Elysian
***      11/22/10
***                                     *** Aluminum PM25 Mitigated
***      17:57:02

PAGE 1
**MODELOPTs:  RegDFault CONC
                                                    ELEV
                                                    NODRYDPLT NOWETDPLT
***      MODEL SETUP OPTIONS SUMMARY      ***
-----
**Model Is Setup For Calculation of Average CONCentration Values.

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

**Model Uses URBAN Dispersion Algorithm for the SBL for      4 Source(s),
for Total of      1 Urban Area(s):
Urban Population =  9862049.0 ; Urban Roughness Length =  1.000 m

**Model Uses Regulatory DEFAULT Options:
1. Stack-tip Downwash.
2. Model Accounts for ELEVated Terrain Effects.
3. Use Calms Processing Routine.
4. Use Missing Data Processing Routine.
5. No Exponential Decay for URBAN/Non-SO2.
6. Urban Roughness Length of 1.0 Meter Assumed.
```


Aluminum Cover PM2.5 Mitigated

**Model Assumes No FLAGPOLE Receptor Heights.
 **Model Calculates 1 Short Term Average(s) of: 24-HR
 **This Run Includes: 4 Source(s); 2 Source Group(s); and 120 Receptor(s)
 **The Model Assumes A Pollutant Type of: PM.25
 **Model Set To Continue RUNning After the Setup Testing.
 **Output Options Selected:
 Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
 Model Outputs External File(s) of High Values for Plotting (PLOTFILE 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) = 10.00 ; Decay Coef. = 0.000
 ; Rot. Angle = 0.0
 Emission Units = GRAMS/SEC ; Emission Rate
 Unit Factor = 0.10000E+07
 Output Units = MICROGRAMS/M**3

**Approximate Storage Requirements of Model = 3.5 MB of RAM.

*** AERMOD - VERSION 09292 *** ** Elysian
 *** 11/22/10
 *** Aluminum PM25 Mitigated
 *** 17:57:02

PAGE 2

**MODELOPTs: RegDFAULT CONC ELEV
 NODRYDPLT NOWETDPLT

*** AREA SOURCE DATA ***

| ORIENT. | INIT. | NUMBER URBAN EMISSION RATE | COORD (SW CORNER) | | BASE | RELEASE | X-DIM | Y-DIM |
|---------|----------|----------------------------|-------------------|----------|----------|----------|----------|----------|
| SOURCE | PART. | (GRAMS/SEC | X | Y | ELEV. | HEIGHT | OF AREA | OF AREA |
| AREA | SZ | SCALAR VARY | | | | | | |
| (DEG.) | (METERS) | CATS. /METER**2) | (METERS) | (METERS) | (METERS) | (METERS) | (METERS) | (METERS) |
| | | BY | | | | | | |

| | | | | | | | | |
|-------|------|-------------|----------|-----------|-------|------|--------|-------|
| AREA2 | 0 | 0.18936E-04 | 386602.3 | 3772074.1 | 97.0 | 0.00 | 107.95 | 39.38 |
| 44.06 | 0.00 | YES | | | | | | |
| AREA3 | 0 | 0.24464E-04 | 386514.4 | 3771483.9 | 154.4 | 0.00 | 107.95 | 39.38 |
| 44.06 | 0.00 | YES | | | | | | |

*** AERMOD - VERSION 09292 *** ** Elysian
 *** 11/22/10
 *** Aluminum PM25 Mitigated
 *** 17:57:02

PAGE 3

**MODELOPTs: RegDFAULT CONC ELEV
 NODRYDPLT NOWETDPLT

*** AREAPOLY SOURCE DATA ***

| URBAN | EMISSION RATE | NUMBER | LOCATION OF AREA | | BASE | RELEASE | NUMBER | INIT. |
|--------|---------------|------------|------------------|----------|----------|----------|-----------|----------|
| SOURCE | PART. | (GRAMS/SEC | X | Y | ELEV. | HEIGHT | OF VERTS. | SZ |
| SOURCE | SCALAR VARY | | | | | | | |
| ID | CATS. | /METER**2) | (METERS) | (METERS) | (METERS) | (METERS) | (METERS) | (METERS) |
| | | BY | | | | | | |

Aluminum Cover PM2.5 Mitigated

```

-----
PAREA3      0  0.24039E-05  386606.5  3771295.6  139.7   5.00   18   0.00
YES
PAREA4      0  0.81406E-05  386596.5  3772117.7   96.5   5.00   14   0.00
YES
*** AERMOD - VERSION 09292 ***   *** Elysian
***      11/22/10
***      17:57:02
*** Aluminum PM25 Mitigated
  
```

PAGE 4

**MODELOPTs: RegDEFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID SOURCE IDs

SRCGP1 PAREA3 , PAREA4 , AREA2 , AREA3 ,

```

ALL PAREA3 , PAREA4 , AREA2 , AREA3 ,
*** AERMOD - VERSION 09292 ***   *** Elysian
***      11/22/10
***      17:57:02
*** Aluminum PM25 Mitigated
  
```

PAGE 5

**MODELOPTs: RegDEFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

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

```

( 386476.8, 3771139.5, 143.3, 181.0, 0.0); ( 386470.4, 3771149.7,
144.2, 181.0, 0.0);
( 386460.2, 3771160.0, 145.3, 181.0, 0.0); ( 386449.3, 3771172.8,
146.6, 181.0, 0.0);
( 386440.3, 3771184.3, 147.6, 181.0, 0.0); ( 386434.5, 3771197.8,
148.6, 181.0, 0.0);
( 386405.0, 3771244.6, 152.9, 181.0, 0.0); ( 386409.5, 3771235.6,
151.9, 181.0, 0.0);
( 386416.6, 3771223.4, 150.9, 181.0, 0.0); ( 386421.1, 3771217.0,
150.3, 181.0, 0.0);
( 386426.2, 3771210.0, 149.6, 181.0, 0.0); ( 386274.3, 3771299.7,
168.1, 181.0, 0.0);
( 386278.8, 3771290.1, 167.4, 181.0, 0.0); ( 386287.8, 3771280.5,
166.6, 181.0, 0.0);
( 386296.1, 3771269.6, 164.9, 181.0, 0.0); ( 386303.1, 3771259.3,
163.5, 181.0, 0.0);
( 386340.3, 3771210.6, 155.9, 181.0, 0.0); ( 386331.3, 3771222.1,
157.6, 181.0, 0.0);
( 386323.0, 3771233.7, 159.3, 181.0, 0.0); ( 386312.8, 3771248.4,
161.6, 181.0, 0.0);
( 386415.3, 3771092.0, 143.8, 181.0, 0.0); ( 386380.0, 3771051.0,
142.9, 164.0, 0.0);
( 386392.2, 3771050.4, 142.2, 181.0, 0.0); ( 386374.3, 3771063.2,
144.0, 164.0, 0.0);
( 386402.5, 3771098.4, 144.8, 181.0, 0.0); ( 386419.8, 3771082.4,
142.9, 181.0, 0.0);
( 386163.4, 3771763.8, 182.0, 182.0, 0.0); ( 386081.3, 3771480.5,
178.0, 178.0, 0.0);
( 386103.8, 3771527.9, 179.8, 179.8, 0.0); ( 386120.4, 3771576.0,
181.1, 181.1, 0.0);
  
```

Aluminum Cover PM2.5 Mitigated

| | | | | |
|--------------------------------|-----------------------------|--------|-------|------------------------|
| (386135.8, 3771613.8, | 182.0, | 182.0, | 0.0); | (386146.7, 3771651.6, |
| 182.0, 182.0, 0.0); | | | | |
| (386156.3, 3771690.8, | 182.0, | 182.0, | 0.0); | (386164.7, 3771730.5, |
| 182.0, 182.0, 0.0); | | | | |
| (386716.6, 3772090.1, | 93.4, | 182.0, | 0.0); | (386705.7, 3772082.4, |
| 93.0, 182.0, 0.0); | | | | |
| (386714.7, 3772074.7, | 93.3, | 182.0, | 0.0); | (386723.0, 3772061.9, |
| 93.7, 182.0, 0.0); | | | | |
| (386732.0, 3772036.9, | 94.0, | 182.0, | 0.0); | (386728.1, 3772051.0, |
| 93.9, 182.0, 0.0); | | | | |
| (386737.1, 3772022.1, | 94.2, | 182.0, | 0.0); | (386699.3, 3772099.1, |
| 92.7, 182.0, 0.0); | | | | |
| (386690.3, 3772107.4, | 92.4, | 182.0, | 0.0); | (386682.6, 3772113.8, |
| 92.1, 182.0, 0.0); | | | | |
| (386674.3, 3772123.4, | 92.3, | 182.0, | 0.0); | (386664.7, 3772134.3, |
| 92.8, 182.0, 0.0); | | | | |
| (386654.4, 3772145.2, | 93.1, | 182.0, | 0.0); | (386605.7, 3772127.3, |
| 95.6, 182.0, 0.0); | | | | |
| (386591.0, 3772133.7, | 96.5, | 182.0, | 0.0); | (386579.4, 3772139.5, |
| 97.2, 182.0, 0.0); | | | | |
| (386560.2, 3772147.2, | 98.4, | 182.0, | 0.0); | (386545.4, 3772154.8, |
| 99.0, 182.0, 0.0); | | | | |
| (386533.3, 3772162.5, | 99.5, | 182.0, | 0.0); | (386542.9, 3772179.8, |
| 98.2, 182.0, 0.0); | | | | |
| (386553.1, 3772195.9, | 96.9, | 182.0, | 0.0); | (386568.5, 3772208.7, |
| 95.5, 182.0, 0.0); | | | | |
| (386582.0, 3772192.7, | 95.3, | 182.0, | 0.0); | (386595.4, 3772181.1, |
| 94.8, 182.0, 0.0); | | | | |
| (386609.5, 3772168.9, | 94.5, | 182.0, | 0.0); | (386624.3, 3772152.3, |
| 94.3, 182.0, 0.0); | | | | |
| (386619.2, 3772140.1, | 94.7, | 182.0, | 0.0); | (386640.3, 3772163.8, |
| 93.5, 182.0, 0.0); | | | | |
| (386653.8, 3772174.7, | 93.0, | 182.0, | 0.0); | (386666.0, 3772186.3, |
| 92.7, 182.0, 0.0); | | | | |
| (386677.5, 3772197.8, | 92.5, | 182.0, | 0.0); | (386688.4, 3772208.7, |
| 92.8, 182.0, 0.0); | | | | |
| (386701.2, 3772222.2, | 93.5, | 182.0, | 0.0); | (386448.6, 3772217.7, |
| 102.7, 182.0, 0.0); | | | | |
| (386456.3, 3772212.5, | 102.4, | 182.0, | 0.0); | (386465.3, 3772206.1, |
| 102.1, 182.0, 0.0); | | | | |
| (386474.3, 3772200.4, | 101.8, | 182.0, | 0.0); | (386481.3, 3772194.6, |
| 101.5, 182.0, 0.0); | | | | |
| (386489.0, 3772190.1, | 101.2, | 182.0, | 0.0); | (386499.3, 3772183.1, |
| 100.9, 182.0, 0.0); | | | | |
| (386507.6, 3772177.9, | 100.5, | 182.0, | 0.0); | (386514.7, 3772171.5, |
| 100.3, 182.0, 0.0); | | | | |
| (386576.8, 3772219.6, | 94.6, | 182.0, | 0.0); | (386586.5, 3772209.3, |
| 94.4, 182.0, 0.0); | | | | |
| (386597.4, 3772197.8, | 94.2, | 182.0, | 0.0); | (386607.0, 3772187.5, |
| 94.0, 182.0, 0.0); | | | | |
| (386620.4, 3772178.6, | 93.9, | 182.0, | 0.0); | (386742.9, 3772003.6, |
| 94.5, 182.0, 0.0); | | | | |
| (386386.3, 3771087.3, | 144.9, | 181.0, | 0.0); | (386399.3, 3771081.5, |
| 143.9, 181.0, 0.0); | | | | |
| (386409.4, 3771067.1, | 142.4, | 181.0, | 0.0); | (385296.8, 3773132.0, |
| 117.7, 182.0, 0.0); | | | | |
| (385287.9, 3773147.0, | 117.7, | 182.0, | 0.0); | (385283.5, 3773159.4, |
| 117.2, 182.0, 0.0); | | | | |
| (385576.7, 3773089.5, | 103.9, | 182.0, | 0.0); | (385598.0, 3773060.2, |
| 104.0, 182.0, 0.0); | | | | |
| *** AERMOD - VERSION 09292 *** | *** Elysian | | | |
| *** 11/22/10 | *** Aluminum PM25 Mitigated | | | |
| *** 17:57:02 | | | | |

PAGE 6

**MODELOPTs: RegDFault CONC

ELEV
NODRYPLT NOWETDPLT

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

Aluminum Cover PM2.5 Mitigated

(METERS)

| | | | | |
|--------|-------------------------------|--------|-------|------------------------|
| 105.3, | (385609.5, 3773037.2, 104.5, | 182.0, | 0.0); | (385629.8, 3772997.4, |
| 106.7, | (385654.6, 3772953.1, 106.0, | 182.0, | 0.0); | (385706.0, 3772876.9, |
| 108.9, | (385752.1, 3772808.7, 107.3, | 182.0, | 0.0); | (385816.7, 3772724.5, |
| 111.3, | (385886.7, 3772645.7, 110.4, | 182.0, | 0.0); | (385952.3, 3772579.3, |
| 111.1, | (386020.5, 3772519.0, 111.7, | 182.0, | 0.0); | (386094.0, 3772463.2, |
| 108.8, | (386169.3, 3772411.0, 110.4, | 182.0, | 0.0); | (386248.1, 3772359.6, |
| 103.3, | (386328.7, 3772309.1, 105.9, | 182.0, | 0.0); | (386407.5, 3772253.3, |
| 108.9, | (387116.3, 3772187.4, 108.2, | 182.0, | 0.0); | (387141.0, 3772141.5, |
| 110.0, | (387201.0, 3772180.3, 110.6, | 182.0, | 0.0); | (387155.1, 3772229.8, |
| 102.9, | (386943.3, 3772540.4, 102.9, | 243.0, | 0.0); | (386925.6, 3772582.8, |
| 131.1, | (386526.7, 3770944.7, 129.0, | 131.0, | 0.0); | (386466.7, 3770937.6, |
| 125.8, | (386537.3, 3770884.7, 123.8, | 123.8, | 0.0); | (386480.8, 3770881.1, |
| 166.9, | (387374.0, 3771597.8, 112.1, | 112.1, | 0.0); | (384880.2, 3771187.7, |
| 165.9, | (384901.5, 3771161.1, 167.0, | 167.0, | 0.0); | (384909.4, 3771118.6, |
| 164.2, | (384912.1, 3771078.8, 164.8, | 164.8, | 0.0); | (384920.0, 3771052.2, |

*** AERMOD - VERSION 09292 ***
*** 11/22/10

*** Elysian
*** Aluminum PM25 Mitigated

*** 17:57:02

PAGE 7

**MODELOPTs: RegDFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

*** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
(1=YES; 0=NO)

| | | | | |
|---|---------------------|---------------------|---------------------|---------------------|
| 1 | 1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 1 1 |
| 1 | 1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 1 1 |
| 1 | 1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 1 1 |
| 1 | 1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 1 1 |
| 1 | 1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 1 1 |
| 1 | 1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 1 1 |
| 1 | 1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 1 1 |
| 1 | 1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 1 1 |
| 1 | 1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 1 1 |
| 1 | 1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 1 1 |

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES

(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

Aluminum Cover PM2.5 Mitigated

*** AERMOD - VERSION 09292 *** *** Elysian
 *** 11/22/10 *** Aluminum PM25 Mitigated
 *** 17:57:02

PAGE 8
 **MODELOPTs: RegDFault CONC

ELEV
 NODRYDPLT NOWETDPLT

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

Surface file: L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met
 Data\cela.SFC Met Version: 06341
 Profile file: L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met
 Data\cela.PFL
 Surface format: FREE
 Profile format: FREE
 Surface station no.: 0 Upper air station no.: 3190
 Name: UNKNOWN Name: UNKNOWN
 Year: 2006 Year: 2006

| First 24 hours of scalar data | | | | | | | | | | | | | | | | | |
|-------------------------------|------|-------|-----|------|-------|-------|--------|--------|-------|-------|---------|------|------|-------|--------|------|----|
| YR | MO | DY | JDY | HR | H0 | U* | W* | DT/DZ | ZICNV | ZIMCH | M-O | LEN | Z0 | BOWEN | ALBEDO | REF | WS |
| WD | HT | REF | TA | HT | HT | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 01 | -0.9 | 0.040 | -9.000 | -9.000 | -999. | 18. | 6.3 | 0.65 | 1.00 | 1.00 | | 0.70 | |
| 347. | 21.3 | 286.4 | | 17.7 | | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 02 | -3.0 | 0.086 | -9.000 | -9.000 | -999. | 58. | 19.1 | 0.65 | 1.00 | 1.00 | | 1.50 | |
| 82. | 21.3 | 286.4 | | 17.7 | | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 03 | -1.3 | 0.057 | -9.000 | -9.000 | -999. | 31. | 12.7 | 0.65 | 1.00 | 1.00 | | 1.00 | |
| 66. | 21.3 | 286.4 | | 17.7 | | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 04 | -1.9 | 0.069 | -9.000 | -9.000 | -999. | 41. | 15.2 | 0.65 | 1.00 | 1.00 | | 1.20 | |
| 23. | 21.3 | 285.9 | | 17.7 | | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 05 | -3.5 | 0.080 | -9.000 | -9.000 | -999. | 52. | 13.1 | 0.65 | 1.00 | 1.00 | | 1.40 | |
| 61. | 21.3 | 285.4 | | 17.7 | | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 06 | -3.0 | 0.086 | -9.000 | -9.000 | -999. | 58. | 19.0 | 0.65 | 1.00 | 1.00 | | 1.50 | |
| 83. | 21.3 | 285.4 | | 17.7 | | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 07 | -6.1 | 0.103 | -9.000 | -9.000 | -999. | 76. | 16.2 | 0.65 | 1.00 | 1.00 | | 1.80 | |
| 64. | 21.3 | 285.4 | | 17.7 | | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 08 | -3.3 | 0.080 | -9.000 | -9.000 | -999. | 52. | 14.1 | 0.65 | 1.00 | 0.55 | | 1.40 | |
| 46. | 21.3 | 285.4 | | 17.7 | | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 09 | 26.6 | 0.304 | 0.644 | 0.005 | 362. | 385. | -95.4 | 0.65 | 1.00 | 0.32 | | 2.30 | |
| 87. | 21.3 | 286.4 | | 17.7 | | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 10 | 21.0 | 0.227 | 0.732 | 0.005 | 675. | 250. | -50.2 | 0.65 | 1.00 | 0.24 | | 1.60 | |
| 76. | 21.3 | 286.4 | | 17.7 | | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 11 | 35.8 | 0.197 | 0.912 | 0.005 | 766. | 201. | -19.2 | 0.65 | 1.00 | 0.21 | | 1.20 | |
| 66. | 21.3 | 287.5 | | 17.7 | | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 12 | 14.9 | 0.281 | 0.686 | 0.005 | 785. | 343. | -135.5 | 0.65 | 1.00 | 0.20 | | 2.20 | |
| 79. | 21.3 | 287.5 | | 17.7 | | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 13 | 26.4 | 0.376 | 0.842 | 0.009 | 818. | 530. | -181.6 | 0.65 | 1.00 | 0.20 | | 3.00 | |
| 76. | 21.3 | 287.5 | | 17.7 | | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 14 | 39.0 | 0.385 | 0.979 | 0.014 | 867. | 549. | -131.8 | 0.65 | 1.00 | 0.21 | | 3.00 | |
| 80. | 21.3 | 288.1 | | 17.7 | | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 15 | 11.4 | 0.277 | 0.653 | 0.014 | 881. | 341. | -168.4 | 0.65 | 1.00 | 0.25 | | 2.20 | |
| 86. | 21.3 | 287.5 | | 17.7 | | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 16 | 0.1 | 0.343 | 0.135 | 0.014 | 881. | 462. | -8888.0 | 0.65 | 1.00 | 0.33 | | 3.00 | |
| 75. | 21.3 | 287.0 | | 17.7 | | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 17 | -13.7 | 0.266 | -9.000 | -9.000 | -999. | 319. | 125.0 | 0.65 | 1.00 | 0.60 | | 2.90 | |
| 82. | 21.3 | 286.4 | | 17.7 | | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 18 | -10.2 | 0.183 | -9.000 | -9.000 | -999. | 183. | 54.5 | 0.65 | 1.00 | 1.00 | | 2.50 | |
| 101. | 21.3 | 286.4 | | 17.7 | | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 19 | -16.1 | 0.289 | -9.000 | -9.000 | -999. | 358. | 135.6 | 0.65 | 1.00 | 1.00 | | 3.10 | |
| 97. | 21.3 | 285.9 | | 17.7 | | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 20 | -25.2 | 0.450 | -9.000 | -9.000 | -999. | 693. | 326.1 | 0.65 | 1.00 | 1.00 | | 4.30 | |
| 92. | 21.3 | 284.9 | | 17.7 | | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 21 | -27.3 | 0.487 | -9.000 | -9.000 | -999. | 781. | 381.9 | 0.65 | 1.00 | 1.00 | | 4.60 | |
| 88. | 21.3 | 284.2 | | 17.7 | | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 22 | -28.0 | 0.499 | -9.000 | -9.000 | -999. | 812. | 402.5 | 0.65 | 1.00 | 1.00 | | 4.70 | |
| 91. | 21.3 | 284.9 | | 17.7 | | | | | | | | | | | | | |

Aluminum Cover PM2.5 Mitigated

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06 01 01 1 23 -36.1 0.645 -9.000 -9.000 -999. 1191.    673.0 0.65 1.00 1.00 5.90
82. 21.3 285.4 17.7
06 01 01 1 24 -35.3 0.633 -9.000 -9.000 -999. 1160.    649.7 0.65 1.00 1.00 5.80
84. 21.3 285.9 17.7

```

First hour of profile data

```

YR MO DY HR HEIGHT F WDIR WSPD AMB_TMP sigmaA sigmaW sigmaV
06 01 01 01 17.7 0 -999. -99.00 286.5 99.0 -99.00 -99.00
06 01 01 01 21.3 1 347. 0.70 -999.0 99.0 -99.00 -99.00

```

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

*** AERMOD - VERSION 09292 *** *** Elysian

*** 11/22/10

*** Aluminum PM25 Mitigated

*** 17:57:02

PAGE 9

**MODELOPTs: RegDFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR
SOURCE GROUP: SRCGP1 ***
INCLUDING SOURCE(S): PAREA3 , PAREA4 , AREA2 , AREA3

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM.25 IN MICROGRAMS/M**3

**

| CONC | X-COORD (M) (YYMMDDHH) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) |
|----------|---------------------------|-------------|----------|------------|-------------|-------------|
| 15.00052 | 386476.85 (06121424) | 3771139.46 | 14.23108 | (06013124) | 386470.44 | 3771149.72 |
| 17.11300 | 386460.18 (06121424) | 3771159.97 | 16.22388 | (06121424) | 386449.29 | 3771172.79 |
| 19.28445 | 386440.31 (06011024) | 3771184.33 | 18.12611 | (06011024) | 386434.54 | 3771197.79 |
| 22.30116 | 386405.05 (07112824) | 3771244.59 | 22.07760 | (07112824) | 386409.54 | 3771235.61 |
| 21.56290 | 386416.59 (07112824) | 3771223.43 | 22.01040 | (07112824) | 386421.08 | 3771217.02 |
| 8.45357 | 386426.21 (07012224) | 3771209.97 | 20.80207 | (07112824) | 386274.28 | 3771299.72 |
| 9.64920 | 386278.77 (07012224) | 3771290.10 | 9.00485 | (07012224) | 386287.75 | 3771280.49 |
| 10.69916 | 386296.08 (06010924) | 3771269.59 | 10.15465 | (07012224) | 386303.13 | 3771259.33 |
| 15.37870 | 386340.31 (06010924) | 3771210.61 | 16.09754 | (06010824) | 386331.34 | 3771222.15 |
| 12.65874 | 386323.00 (06010924) | 3771233.69 | 14.41783 | (06010924) | 386312.75 | 3771248.43 |
| 10.68203 | 386415.31 (06011024) | 3771092.02 | 12.62209 | (06121424) | 386380.05 | 3771051.00 |
| 11.42091 | 386392.23 (06011024) | 3771050.36 | 10.91993 | (06121424) | 386374.29 | 3771063.18 |
| 12.34967 | 386402.49 (06121424) | 3771098.43 | 12.80380 | (06011024) | 386419.80 | 3771082.41 |
| 4.03941 | 386163.39 (06121624) | 3771763.82 | 2.45837 | (06122924) | 386081.33 | 3771480.49 |
| 2.82100 | 386103.77 (06032524) | 3771527.92 | 2.84050 | (06020224) | 386120.44 | 3771576.00 |
| 3.59277 | 386135.82 (07021824) | 3771613.82 | 2.79146 | (06010824) | 386146.72 | 3771651.64 |
| 2.40827 | 386156.33 (07112524) | 3771690.75 | 2.98151 | (07021824) | 386164.67 | 3771730.49 |
| 79.28838 | 386716.60 (06101524) | 3772090.11 | 63.45775 | (06101524) | 386705.70 | 3772082.42 |

Aluminum Cover PM2.5 Mitigated

| | | | | | |
|-----------|------------|-----------|------------|-----------|------------|
| 386714.67 | 3772074.72 | 74.49555 | (06101524) | 386723.00 | 3772061.90 |
| 68.29246 | (06050424) | 386731.99 | 3772036.90 | 79.12160 | (06103124) |
| 74.43295 | (06103124) | 386737.11 | 3772022.15 | 73.86397 | (07080324) |
| 68.23581 | (06101524) | 386690.31 | 3772107.42 | 62.76512 | (06101524) |
| 62.69049 | (07090224) | 386674.29 | 3772123.44 | 62.10783 | (07090624) |
| 60.28088 | (06072524) | 386654.42 | 3772145.24 | 58.35063 | (06072524) |
| 44.85025 | (07031824) | 386590.95 | 3772133.70 | 29.55332 | (06042724) |
| 23.35919 | (06042724) | 386560.18 | 3772147.16 | 16.57499 | (06042724) |
| 13.54937 | (06041124) | 386533.26 | 3772162.54 | 11.90407 | (06041124) |
| 11.08341 | (06042724) | 386553.13 | 3772195.88 | 11.09245 | (06051324) |
| 12.27316 | (06051324) | 386581.98 | 3772192.67 | 15.34942 | (07031824) |
| 21.24535 | (07031824) | 386609.54 | 3772168.95 | 30.76015 | (07031924) |
| 49.76793 | (07031924) | 386619.16 | 3772140.11 | 53.26634 | (07031924) |
| 47.18617 | (07031924) | 386653.77 | 3772174.72 | 44.28813 | (06072524) |
| 40.32387 | (06072524) | 386677.49 | 3772197.80 | 35.98523 | (06072524) |
| 32.00116 | (06072524) | 386701.21 | 3772222.16 | 27.30500 | (06072524) |
| 5.78364 | (06041124) | 386456.34 | 3772212.55 | 6.12781 | (06041124) |
| 6.56894 | (06041124) | 386474.29 | 3772200.37 | 7.04921 | (06041124) |
| 7.49468 | (06041124) | 386489.03 | 3772190.11 | 7.96423 | (06041124) |
| 8.72212 | (06041124) | 386507.62 | 3772177.93 | 9.38597 | (06041124) |
| 10.15670 | (06041124) | 386576.85 | 3772219.60 | 12.29702 | (07031824) |
| 15.11739 | (07031824) | 386597.36 | 3772197.80 | 19.51161 | (07031824) |
| 25.04918 | (07031924) | | | | |

*** AERMOD - VERSION 09292 ***
 *** 11/22/10
 *** 17:57:02

*** Elysian
 *** Aluminum PM25 Mitigated

PAGE 10

**MODELOPTs: RegDFault CONC

ELEV
 NODRYDPLT NOWETDPLT

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: SRCGP1 ***
 INCLUDING SOURCE(S): PAREA3 , PAREA4 , AREA2 , AREA3

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM.25 IN MICROGRAMS/M**3

**

| CONC | X-COORD (M) (YYMMDDHH) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) |
|----------|---------------------------|-------------|----------|------------|-------------|-------------|
| 57.36129 | 386620.44 | 3772178.57 | 35.27425 | (07031924) | 386742.87 | 3772003.56 |
| | (07080324) | | | | | |
| 11.86450 | 386386.30 | 3771087.29 | 12.56783 | (06011024) | 386399.28 | 3771081.52 |
| | (06121424) | | | | | |

Aluminum Cover PM2.5 Mitigated

| | | | | | | |
|---------|-------------------------|------------|----------|------------|-----------|------------|
| 0.39856 | 386409.38 (06120924) | 3771067.10 | 11.71693 | (06121424) | 385296.78 | 3773131.99 |
| 0.40775 | 385287.93 (06120924) | 3773147.05 | 0.40181 | (06120924) | 385283.50 | 3773159.45 |
| 0.46117 | 385576.69 (07080524) | 3773089.48 | 0.45491 | (07080524) | 385597.95 | 3773060.25 |
| 0.46890 | 385609.46 (06120924) | 3773037.22 | 0.45886 | (07080524) | 385629.84 | 3772997.36 |
| 0.56718 | 385654.64 (06120924) | 3772953.07 | 0.51104 | (06120924) | 385706.01 | 3772876.89 |
| 0.63677 | 385752.07 (06120924) | 3772808.69 | 0.60768 | (06120924) | 385816.74 | 3772724.54 |
| 0.89431 | 385886.71 (07102124) | 3772645.70 | 0.73649 | (07102124) | 385952.26 | 3772579.27 |
| 1.32336 | 386020.46 (07102124) | 3772519.04 | 1.09641 | (07102124) | 386093.98 | 3772463.23 |
| 1.74618 | 386169.27 (06041124) | 3772410.97 | 1.46075 | (07102124) | 386248.11 | 3772359.60 |
| 4.30574 | 386328.71 (06041124) | 3772309.11 | 2.67111 | (06041124) | 386407.55 | 3772253.30 |
| 6.00909 | 387116.28 (06051624) | 3772187.40 | 5.64164 | (06101524) | 387141.00 | 3772141.51 |
| 4.70568 | 387201.01 (06101524) | 3772180.34 | 4.32213 | (07082424) | 387155.12 | 3772229.77 |
| 3.71576 | 386943.29 (06101524) | 3772540.45 | 3.71474 | (06101524) | 386925.64 | 3772582.82 |
| 7.09662 | 386526.69 (06111224) | 3770944.68 | 5.65861 | (06111224) | 386466.67 | 3770937.61 |
| 5.67721 | 386537.28 (06111224) | 3770884.66 | 4.35486 | (06111224) | 386480.80 | 3770881.13 |
| 1.25809 | 387374.01 (06103024) | 3771597.81 | 3.28555 | (06103124) | 384880.19 | 3771187.72 |
| 1.24273 | 384901.45 (07012824) | 3771161.15 | 1.23724 | (06103024) | 384909.41 | 3771118.65 |
| 1.09131 | 384912.07 (07012824) | 3771078.80 | 1.16927 | (07012824) | 384920.04 | 3771052.24 |

*** AERMOD - VERSION 09292 *** *** Elysian
 *** 11/22/10
 *** 17:57:02 *** Aluminum PM25 Mitigated

PAGE 11

**MODELOPTs: RegDFAULT CONC

ELEV
 NODRYDPLT NOWETDPLT

SOURCE GROUP: ALL *** *** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR
 INCLUDING SOURCE(S): PAREA3 , PAREA4 , AREA2 , AREA3

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM.25 IN MICROGRAMS/M**3

**

| CONC | X-COORD (M) (YYMMDDHH) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) |
|----------|---------------------------|-------------|----------|------------|-------------|-------------|
| 15.00052 | 386476.85 (06121424) | 3771139.46 | 14.23108 | (06013124) | 386470.44 | 3771149.72 |
| 17.11300 | 386460.18 (06121424) | 3771159.97 | 16.22388 | (06121424) | 386449.29 | 3771172.79 |
| 19.28445 | 386440.31 (06011024) | 3771184.33 | 18.12611 | (06011024) | 386434.54 | 3771197.79 |
| 22.30116 | 386405.05 (07112824) | 3771244.59 | 22.07760 | (07112824) | 386409.54 | 3771235.61 |
| 21.56290 | 386416.59 (07112824) | 3771223.43 | 22.01040 | (07112824) | 386421.08 | 3771217.02 |
| 8.45357 | 386426.21 (07012224) | 3771209.97 | 20.80207 | (07112824) | 386274.28 | 3771299.72 |

Aluminum Cover PM2.5 Mitigated

| | | | | | | |
|----------|-------------------------|------------|----------|------------|-----------|------------|
| 9.64920 | 386278.77 (07012224) | 3771290.10 | 9.00485 | (07012224) | 386287.75 | 3771280.49 |
| 10.69916 | 386296.08 (06010924) | 3771269.59 | 10.15465 | (07012224) | 386303.13 | 3771259.33 |
| 15.37870 | 386340.31 (06010924) | 3771210.61 | 16.09754 | (06010824) | 386331.34 | 3771222.15 |
| 12.65874 | 386323.00 (06010924) | 3771233.69 | 14.41783 | (06010924) | 386312.75 | 3771248.43 |
| 10.68203 | 386415.31 (06011024) | 3771092.02 | 12.62209 | (06121424) | 386380.05 | 3771051.00 |
| 11.42091 | 386392.23 (06011024) | 3771050.36 | 10.91993 | (06121424) | 386374.29 | 3771063.18 |
| 12.34967 | 386402.49 (06121424) | 3771098.43 | 12.80380 | (06011024) | 386419.80 | 3771082.41 |
| 4.03941 | 386163.39 (06121624) | 3771763.82 | 2.45837 | (06122924) | 386081.33 | 3771480.49 |
| 2.82100 | 386103.77 (06032524) | 3771527.92 | 2.84050 | (06020224) | 386120.44 | 3771576.00 |
| 3.59277 | 386135.82 (07021824) | 3771613.82 | 2.79146 | (06010824) | 386146.72 | 3771651.64 |
| 2.40827 | 386156.33 (07112524) | 3771690.75 | 2.98151 | (07021824) | 386164.67 | 3771730.49 |
| 79.28838 | 386716.60 (06101524) | 3772090.11 | 63.45775 | (06101524) | 386705.70 | 3772082.42 |
| 68.29246 | 386714.67 (06050424) | 3772074.72 | 74.49555 | (06101524) | 386723.00 | 3772061.90 |
| 74.43295 | 386731.99 (06103124) | 3772036.90 | 79.12160 | (06103124) | 386728.13 | 3772051.01 |
| 68.23581 | 386737.11 (06101524) | 3772022.15 | 73.86397 | (07080324) | 386699.29 | 3772099.08 |
| 62.69049 | 386690.31 (07090224) | 3772107.42 | 62.76512 | (06101524) | 386682.62 | 3772113.83 |
| 60.28088 | 386674.29 (06072524) | 3772123.44 | 62.10783 | (07090624) | 386664.67 | 3772134.34 |
| 44.85025 | 386654.42 (07031824) | 3772145.24 | 58.35063 | (06072524) | 386605.70 | 3772127.29 |
| 23.35919 | 386590.95 (06042724) | 3772133.70 | 29.55332 | (06042724) | 386579.42 | 3772139.47 |
| 13.54937 | 386560.18 (06041124) | 3772147.16 | 16.57499 | (06042724) | 386545.44 | 3772154.85 |
| 11.08341 | 386533.26 (06042724) | 3772162.54 | 11.90407 | (06041124) | 386542.88 | 3772179.85 |
| 12.27316 | 386553.13 (06051324) | 3772195.88 | 11.09245 | (06051324) | 386568.52 | 3772208.70 |
| 21.24535 | 386581.98 (07031824) | 3772192.67 | 15.34942 | (07031824) | 386595.44 | 3772181.13 |
| 49.76793 | 386609.54 (07031924) | 3772168.95 | 30.76015 | (07031924) | 386624.29 | 3772152.29 |
| 47.18617 | 386619.16 (07031924) | 3772140.11 | 53.26634 | (07031924) | 386640.31 | 3772163.83 |
| 40.32387 | 386653.77 (06072524) | 3772174.72 | 44.28813 | (06072524) | 386665.95 | 3772186.26 |
| 32.00116 | 386677.49 (06072524) | 3772197.80 | 35.98523 | (06072524) | 386688.39 | 3772208.70 |
| 5.78364 | 386701.21 (06041124) | 3772222.16 | 27.30500 | (06072524) | 386448.64 | 3772217.67 |
| 6.56894 | 386456.34 (06041124) | 3772212.55 | 6.12781 | (06041124) | 386465.31 | 3772206.13 |
| 7.49468 | 386474.29 (06041124) | 3772200.37 | 7.04921 | (06041124) | 386481.34 | 3772194.60 |
| 8.72212 | 386489.03 (06041124) | 3772190.11 | 7.96423 | (06041124) | 386499.29 | 3772183.06 |
| 10.15670 | 386507.62 (06041124) | 3772177.93 | 9.38597 | (06041124) | 386514.67 | 3772171.52 |
| 15.11739 | 386576.85 (07031824) | 3772219.60 | 12.29702 | (07031824) | 386586.47 | 3772209.34 |
| 25.04918 | 386597.36 (07031924) | 3772197.80 | 19.51161 | (07031824) | 386606.98 | 3772187.54 |
| *** | AERMOD - VERSION 09292 | *** | *** | Elysian | | |
| *** | 11/22/10 | | | | | |

Aluminum Cover PM2.5 Mitigated

*** Aluminum PM25 Mitigated

*** 17:57:02

PAGE 12

**MODELOPTs: RegDFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

SOURCE GROUP: ALL *** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR
INCLUDING SOURCE(S): PAREA3 , PAREA4 , AREA2 , AREA3

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM.25 IN MICROGRAMS/M**3

**

| CONC | X-COORD (M) (YYMMDDHH) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) |
|----------|---------------------------|-------------|----------|------------|-------------|-------------|
| 57.36129 | 386620.44 (07080324) | 3772178.57 | 35.27425 | (07031924) | 386742.87 | 3772003.56 |
| 11.86450 | 386386.30 (06121424) | 3771087.29 | 12.56783 | (06011024) | 386399.28 | 3771081.52 |
| 0.39856 | 386409.38 (06120924) | 3771067.10 | 11.71693 | (06121424) | 385296.78 | 3773131.99 |
| 0.40775 | 385287.93 (06120924) | 3773147.05 | 0.40181 | (06120924) | 385283.50 | 3773159.45 |
| 0.46117 | 385576.69 (07080524) | 3773089.48 | 0.45491 | (07080524) | 385597.95 | 3773060.25 |
| 0.46890 | 385609.46 (06120924) | 3773037.22 | 0.45886 | (07080524) | 385629.84 | 3772997.36 |
| 0.56718 | 385654.64 (06120924) | 3772953.07 | 0.51104 | (06120924) | 385706.01 | 3772876.89 |
| 0.63677 | 385752.07 (06120924) | 3772808.69 | 0.60768 | (06120924) | 385816.74 | 3772724.54 |
| 0.89431 | 385886.71 (07102124) | 3772645.70 | 0.73649 | (07102124) | 385952.26 | 3772579.27 |
| 1.32336 | 386020.46 (07102124) | 3772519.04 | 1.09641 | (07102124) | 386093.98 | 3772463.23 |
| 1.74618 | 386169.27 (06041124) | 3772410.97 | 1.46075 | (07102124) | 386248.11 | 3772359.60 |
| 4.30574 | 386328.71 (06041124) | 3772309.11 | 2.67111 | (06041124) | 386407.55 | 3772253.30 |
| 6.00909 | 387116.28 (06051624) | 3772187.40 | 5.64164 | (06101524) | 387141.00 | 3772141.51 |
| 4.70568 | 387201.01 (06101524) | 3772180.34 | 4.32213 | (07082424) | 387155.12 | 3772229.77 |
| 3.71576 | 386943.29 (06101524) | 3772540.45 | 3.71474 | (06101524) | 386925.64 | 3772582.82 |
| 7.09662 | 386526.69 (06111224) | 3770944.68 | 5.65861 | (06111224) | 386466.67 | 3770937.61 |
| 5.67721 | 386537.28 (06111224) | 3770884.66 | 4.35486 | (06111224) | 386480.80 | 3770881.13 |
| 1.25809 | 387374.01 (06103024) | 3771597.81 | 3.28555 | (06103124) | 384880.19 | 3771187.72 |
| 1.24273 | 384901.45 (07012824) | 3771161.15 | 1.23724 | (06103024) | 384909.41 | 3771118.65 |
| 1.09131 | 384912.07 (07012824) | 3771078.80 | 1.16927 | (07012824) | 384920.04 | 3771052.24 |

*** AERMOD - VERSION 09292 ***
*** 11/22/10

*** Elysian

*** Aluminum PM25 Mitigated

*** 17:57:02

PAGE 13

**MODELOPTs: RegDFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

*** THE SUMMARY OF HIGHEST 24-HR RESULTS ***

Aluminum Cover PM2.5 Mitigated

```

**                                     ** CONC OF PM.25   IN MICROGRAMS/M**3
**
**                                     DATE
NETWORK
GROUP ID                               AVERAGE CONC   (YYMMDDHH)      RECEPTOR (XR, YR,
ZELEV, ZHILL, ZFLAG)   OF TYPE  GRID-ID
-----
SRCGP1   HIGH 1ST HIGH VALUE IS      79.28838  ON 06101524: AT ( 386705.70, 3772082.42,
92.99,   182.00,   0.00) DC
ALL      HIGH 1ST HIGH VALUE IS      79.28838  ON 06101524: AT ( 386705.70, 3772082.42,
92.99,   182.00,   0.00) DC

*** RECEPTOR TYPES:  GC = GRIDCART
                       GP = GRIDPOLR
                       DC = DISCCART
                       DP = DISCPOLR
*** AERMOD - VERSION 09292 ***   *** Elysian
***      11/22/10
***                                     *** Aluminum PM25 Mitigated
***      17:57:02

PAGE 14
**MODELOPTs:  RegDFAULT CONC
                                           ELEV
                                           NODRYDPLT NOWETDPLT

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

----- Summary of Total Messages -----
A Total of          0 Fatal Error Message(s)
A Total of          0 Warning Message(s)
A Total of         113 Informational Message(s)

A Total of         17520 Hours Were Processed

A Total of          0 Calm Hours Identified

A Total of         113 Missing Hours Identified ( 0.64 Percent)

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

***** WARNING MESSAGES *****
***      NONE      ***

*****
*** AERMOD Finishes Successfully ***
*****

```

Aluminum Cover PM10 Mitigated

```
**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 6.7.1
** Lakes Environmental Software Inc.
** Date: 10/11/2010
** File: C:\Documents and Settings\jbailey\Desktop\Elysian Park AerMod\elysian\A_PM10M.ADI
**
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**
CO STARTING
  TITLEONE Elysian
  TITLETWO Aluminum PM10 Mitigated
  MODELOPT DFAULT CONC NODRYDPLT NOWETDPLT
  AVERTIME 24
  URBANOPT 9862049 LA
  POLLUTID PM.10
  RUNORNOT RUN
CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
  LOCATION PAREA3 AREAPOLY 386606.494 3771295.572 139.670
** DESCRSRC Reservoir
  LOCATION PAREA4 AREAPOLY 386596.536 3772117.718 96.500
** DESCRSRC Caltrans
  LOCATION AREA2 AREA 386602.251 3772074.114 96.950
  LOCATION AREA3 AREA 386514.382 3771483.886 154.350
** Source Parameters **
  SRCPARAM PAREA3 2.611E-06 5.000 18
  AREAVERT PAREA3 386606.494 3771295.572 386560.430 3771386.706
  AREAVERT PAREA3 386502.641 3771467.538 386454.064 3771523.011
  AREAVERT PAREA3 386432.288 3771547.577 386455.739 3771575.313
  AREAVERT PAREA3 386485.890 3771583.238 386543.680 3771557.879
  AREAVERT PAREA3 386593.931 3771507.954 386619.057 3771483.387
  AREAVERT PAREA3 386650.046 3771442.179 386660.096 3771427.914
  AREAVERT PAREA3 386676.847 3771408.103 386688.572 3771388.291
  AREAVERT PAREA3 386676.847 3771361.347 386655.909 3771323.308
  AREAVERT PAREA3 386640.833 3771309.044 386614.032 3771295.572
  SRCPARAM PAREA4 8.842E-06 5.000 14
  AREAVERT PAREA4 386596.536 3772117.718 386580.846 3772089.725
  AREAVERT PAREA4 386632.070 3772053.383 386637.838 3772051.173
  AREAVERT PAREA4 386652.144 3772050.928 386668.065 3772039.387
  AREAVERT PAREA4 386682.371 3772010.903 386693.678 3771992.977
  AREAVERT PAREA4 386695.985 3771989.049 386717.213 3771999.362
  AREAVERT PAREA4 386696.677 3772048.472 386683.525 3772065.170
  AREAVERT PAREA4 386672.219 3772075.974 386651.914 3772089.234
  SRCPARAM AREA2 0.0000915057 0.000 107.950 39.380 44.060 0.000
  SRCPARAM AREA3 0.0001199689 0.000 107.950 39.380 44.060 0.000
  URBANSRC PAREA3
  URBANSRC PAREA4
  URBANSRC AREA2
  URBANSRC AREA3
  SRCGROUP SRCGP1 PAREA4 PAREA3 AREA2 AREA3
  SRCGROUP ALL
SO FINISHED
**
*****
```

Aluminum Cover PM10 Mitigated

```
** AERMOD Receptor Pathway
*****
**
**
RE STARTING
  INCLUDED A_PM10M.rou
RE FINISHED
**
*****
** AERMOD Meteorology Pathway
*****
**
**
ME STARTING
  SURFFILE "L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\cela.SFC"
  PROFFILE "L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\cela.PFL"
  SURFDATA 0 2006
  UAIRDATA 3190 2006
  PROFBASE 10 METERS
ME FINISHED
**
*****
** AERMOD Output Pathway
*****
**
**
OU STARTING
  RECTABLE ALLAVE 1ST
  RECTABLE 24 1ST
** Auto-Generated Plotfiles
  PLOTFILE 24 ALL 1ST A_PM10M.AD\24H1GALL.PLT
  PLOTFILE 24 SRCGP1 1ST A_PM10M.AD\24H1G001.PLT
OU FINISHED

*****
*** SETUP Finishes Successfully ***
*****

*** AERMOD - VERSION 09292 ***      *** Elysian
***      10/11/10
***                                     *** Aluminum PM10 Mitigated
***      12:50:50

PAGE 1
**MODELOPTs:  RegDFault CONC
                                                    ELEV
                                                    NODRYDPLT NOWETDPLT
***      MODEL SETUP OPTIONS SUMMARY      ***
-----
**Model Is Setup For Calculation of Average CONCentration Values.

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

**Model Uses URBAN Dispersion Algorithm for the SBL for      4 Source(s),
for Total of      1 Urban Area(s):
Urban Population =  9862049.0 ; Urban Roughness Length =  1.000 m

**Model Uses Regulatory DEFAULT Options:
1. Stack-tip Downwash.
2. Model Accounts for ELEVated Terrain Effects.
3. Use Calms Processing Routine.
4. Use Missing Data Processing Routine.
5. No Exponential Decay for URBAN/Non-SO2.
6. Urban Roughness Length of 1.0 Meter Assumed.
```

Aluminum Cover PM10 Mitigated

**Model Assumes No FLAGPOLE Receptor Heights.
 **Model Calculates 1 Short Term Average(s) of: 24-HR
 **This Run Includes: 4 Source(s); 2 Source Group(s); and 115 Receptor(s)
 **The Model Assumes A Pollutant Type of: PM.10
 **Model Set To Continue RUNning After the Setup Testing.
 **Output Options Selected:
 Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
 Model Outputs External File(s) of High Values for Plotting (PLOTFILE 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) = 10.00 ; Decay Coef. = 0.000
 ; Rot. Angle = 0.0
 Emission Units = GRAMS/SEC ; Emission Rate
 Unit Factor = 0.10000E+07
 Output Units = MICROGRAMS/M**3

**Approximate Storage Requirements of Model = 3.5 MB of RAM.

*** AERMOD - VERSION 09292 *** *** Elysian
 *** 10/11/10
 *** 12:50:50
 *** Aluminum PM10 Mitigated

PAGE 2

**MODELOPTs: RegDFAULT CONC ELEV
 NODRYDPLT NOWETDPLT

*** AREA SOURCE DATA ***

| ORIENT. | INIT. | NUMBER URBAN EMISSION RATE | COORD (SW CORNER) | BASE | RELEASE | X-DIM | Y-DIM | |
|---------|----------|----------------------------|-------------------|----------|----------|----------|----------|----------|
| SOURCE | PART. | (GRAMS/SEC | X | Y | ELEV. | HEIGHT | OF AREA | OF AREA |
| AREA | SZ | SCALAR VARY | (METERS) | (METERS) | (METERS) | (METERS) | (METERS) | (METERS) |
| (DEG.) | (METERS) | BY | | | | | | |

| | | | | | | | | |
|-------|------|-------------|----------|-----------|-------|------|--------|-------|
| AREA2 | 0 | 0.91506E-04 | 386602.3 | 3772074.1 | 97.0 | 0.00 | 107.95 | 39.38 |
| 44.06 | 0.00 | YES | | | | | | |
| AREA3 | 0 | 0.11997E-03 | 386514.4 | 3771483.9 | 154.4 | 0.00 | 107.95 | 39.38 |
| 44.06 | 0.00 | YES | | | | | | |

*** AERMOD - VERSION 09292 *** *** Elysian
 *** 10/11/10
 *** 12:50:50
 *** Aluminum PM10 Mitigated

PAGE 3

**MODELOPTs: RegDFAULT CONC ELEV
 NODRYDPLT NOWETDPLT

*** AREAPOLY SOURCE DATA ***

| URBAN EMISSION RATE | NUMBER EMISSION RATE | LOCATION OF AREA | BASE | RELEASE | NUMBER | INIT. | | |
|---------------------|----------------------|------------------|----------|----------|----------|----------|-----------|----------|
| SOURCE | PART. | (GRAMS/SEC | X | Y | ELEV. | HEIGHT | OF VERTS. | SZ |
| SOURCE | SCALAR VARY | (METER**2) | (METERS) | (METERS) | (METERS) | (METERS) | (METERS) | (METERS) |
| ID | CATS. | BY | | | | | | |

Aluminum Cover PM10 Mitigated

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-----
PAREA3      0  0.26110E-05  386606.5  3771295.6  139.7   5.00   18   0.00
YES
PAREA4      0  0.88420E-05  386596.5  3772117.7   96.5   5.00   14   0.00
YES
*** AERMOD - VERSION 09292 ***   *** Elysian
***      10/11/10
***      12:50:50
*** Aluminum PM10 Mitigated

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PAGE 4

**MODELOPTs: RegDEFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID SOURCE IDs

SRCGP1 PAREA3 , PAREA4 , AREA2 , AREA3 ,

```

ALL PAREA3 , PAREA4 , AREA2 , AREA3 ,
*** AERMOD - VERSION 09292 ***   *** Elysian
***      10/11/10
***      12:50:50
*** Aluminum PM10 Mitigated

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PAGE 5

**MODELOPTs: RegDEFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

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

```

( 386476.8, 3771139.5, 143.3, 181.0, 0.0); ( 386470.4, 3771149.7,
144.2, 181.0, 0.0);
( 386460.2, 3771160.0, 145.3, 181.0, 0.0); ( 386449.3, 3771172.8,
146.6, 181.0, 0.0);
( 386440.3, 3771184.3, 147.6, 181.0, 0.0); ( 386434.5, 3771197.8,
148.6, 181.0, 0.0);
( 386405.0, 3771244.6, 152.9, 181.0, 0.0); ( 386409.5, 3771235.6,
151.9, 181.0, 0.0);
( 386416.6, 3771223.4, 150.9, 181.0, 0.0); ( 386421.1, 3771217.0,
150.3, 181.0, 0.0);
( 386426.2, 3771210.0, 149.6, 181.0, 0.0); ( 386274.3, 3771299.7,
168.1, 181.0, 0.0);
( 386278.8, 3771290.1, 167.4, 181.0, 0.0); ( 386287.8, 3771280.5,
166.6, 181.0, 0.0);
( 386296.1, 3771269.6, 164.9, 181.0, 0.0); ( 386303.1, 3771259.3,
163.5, 181.0, 0.0);
( 386340.3, 3771210.6, 155.9, 181.0, 0.0); ( 386331.3, 3771222.1,
157.6, 181.0, 0.0);
( 386323.0, 3771233.7, 159.3, 181.0, 0.0); ( 386312.8, 3771248.4,
161.6, 181.0, 0.0);
( 386415.3, 3771092.0, 143.8, 181.0, 0.0); ( 386380.0, 3771051.0,
142.9, 164.0, 0.0);
( 386392.2, 3771050.4, 142.2, 181.0, 0.0); ( 386374.3, 3771063.2,
144.0, 164.0, 0.0);
( 386402.5, 3771098.4, 144.8, 181.0, 0.0); ( 386419.8, 3771082.4,
142.9, 181.0, 0.0);
( 386163.4, 3771763.8, 182.0, 182.0, 0.0); ( 386081.3, 3771480.5,
178.0, 178.0, 0.0);
( 386103.8, 3771527.9, 179.8, 179.8, 0.0); ( 386120.4, 3771576.0,
181.1, 181.1, 0.0);

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Aluminum Cover PM10 Mitigated

| | | | | |
|--------------------------------|-----------------------------|--------|-------|------------------------|
| (386135.8, 3771613.8, | 182.0, | 182.0, | 0.0); | (386146.7, 3771651.6, |
| 182.0, 182.0, 0.0); | | | | |
| (386156.3, 3771690.8, | 182.0, | 182.0, | 0.0); | (386164.7, 3771730.5, |
| 182.0, 182.0, 0.0); | | | | |
| (386716.6, 3772090.1, | 93.4, | 182.0, | 0.0); | (386705.7, 3772082.4, |
| 93.0, 182.0, 0.0); | | | | |
| (386714.7, 3772074.7, | 93.3, | 182.0, | 0.0); | (386723.0, 3772061.9, |
| 93.7, 182.0, 0.0); | | | | |
| (386732.0, 3772036.9, | 94.0, | 182.0, | 0.0); | (386728.1, 3772051.0, |
| 93.9, 182.0, 0.0); | | | | |
| (386737.1, 3772022.1, | 94.2, | 182.0, | 0.0); | (386699.3, 3772099.1, |
| 92.7, 182.0, 0.0); | | | | |
| (386690.3, 3772107.4, | 92.4, | 182.0, | 0.0); | (386682.6, 3772113.8, |
| 92.1, 182.0, 0.0); | | | | |
| (386674.3, 3772123.4, | 92.3, | 182.0, | 0.0); | (386664.7, 3772134.3, |
| 92.8, 182.0, 0.0); | | | | |
| (386654.4, 3772145.2, | 93.1, | 182.0, | 0.0); | (386605.7, 3772127.3, |
| 95.6, 182.0, 0.0); | | | | |
| (386591.0, 3772133.7, | 96.5, | 182.0, | 0.0); | (386579.4, 3772139.5, |
| 97.2, 182.0, 0.0); | | | | |
| (386560.2, 3772147.2, | 98.4, | 182.0, | 0.0); | (386545.4, 3772154.8, |
| 99.0, 182.0, 0.0); | | | | |
| (386533.3, 3772162.5, | 99.5, | 182.0, | 0.0); | (386542.9, 3772179.8, |
| 98.2, 182.0, 0.0); | | | | |
| (386553.1, 3772195.9, | 96.9, | 182.0, | 0.0); | (386568.5, 3772208.7, |
| 95.5, 182.0, 0.0); | | | | |
| (386582.0, 3772192.7, | 95.3, | 182.0, | 0.0); | (386595.4, 3772181.1, |
| 94.8, 182.0, 0.0); | | | | |
| (386609.5, 3772168.9, | 94.5, | 182.0, | 0.0); | (386624.3, 3772152.3, |
| 94.3, 182.0, 0.0); | | | | |
| (386619.2, 3772140.1, | 94.7, | 182.0, | 0.0); | (386640.3, 3772163.8, |
| 93.5, 182.0, 0.0); | | | | |
| (386653.8, 3772174.7, | 93.0, | 182.0, | 0.0); | (386666.0, 3772186.3, |
| 92.7, 182.0, 0.0); | | | | |
| (386677.5, 3772197.8, | 92.5, | 182.0, | 0.0); | (386688.4, 3772208.7, |
| 92.8, 182.0, 0.0); | | | | |
| (386701.2, 3772222.2, | 93.5, | 182.0, | 0.0); | (386448.6, 3772217.7, |
| 102.7, 182.0, 0.0); | | | | |
| (386456.3, 3772212.5, | 102.4, | 182.0, | 0.0); | (386465.3, 3772206.1, |
| 102.1, 182.0, 0.0); | | | | |
| (386474.3, 3772200.4, | 101.8, | 182.0, | 0.0); | (386481.3, 3772194.6, |
| 101.5, 182.0, 0.0); | | | | |
| (386489.0, 3772190.1, | 101.2, | 182.0, | 0.0); | (386499.3, 3772183.1, |
| 100.9, 182.0, 0.0); | | | | |
| (386507.6, 3772177.9, | 100.5, | 182.0, | 0.0); | (386514.7, 3772171.5, |
| 100.3, 182.0, 0.0); | | | | |
| (386576.8, 3772219.6, | 94.6, | 182.0, | 0.0); | (386586.5, 3772209.3, |
| 94.4, 182.0, 0.0); | | | | |
| (386597.4, 3772197.8, | 94.2, | 182.0, | 0.0); | (386607.0, 3772187.5, |
| 94.0, 182.0, 0.0); | | | | |
| (386620.4, 3772178.6, | 93.9, | 182.0, | 0.0); | (386742.9, 3772003.6, |
| 94.5, 182.0, 0.0); | | | | |
| (386386.3, 3771087.3, | 144.9, | 181.0, | 0.0); | (386399.3, 3771081.5, |
| 143.9, 181.0, 0.0); | | | | |
| (386409.4, 3771067.1, | 142.4, | 181.0, | 0.0); | (385296.8, 3773132.0, |
| 117.7, 182.0, 0.0); | | | | |
| (385287.9, 3773147.0, | 117.7, | 182.0, | 0.0); | (385283.5, 3773159.4, |
| 117.2, 182.0, 0.0); | | | | |
| (385576.7, 3773089.5, | 103.9, | 182.0, | 0.0); | (385598.0, 3773060.2, |
| 104.0, 182.0, 0.0); | | | | |
| *** AERMOD - VERSION 09292 *** | *** Elysian | | | |
| *** 10/11/10 | *** Aluminum PM10 Mitigated | | | |
| *** 12:50:50 | | | | |

PAGE 6

**MODELOPTs: RegDFault CONC

ELEV
NODRYDPLT NOWETDPLT

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

Aluminum Cover PM10 Mitigated

**MODELOPTs: RegDFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

Surface file: L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met
Data\cela.SFC Met Version: 06341
Profile file: L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met
Data\cela.PFL
Surface format: FREE
Profile format: FREE
Surface station no.: 0 Upper air station no.: 3190
Name: UNKNOWN Name: UNKNOWN
Year: 2006 Year: 2006

First 24 hours of scalar data

| YR | MO | DY | JDY | HR | H0 | U* | W* | DT/DZ | ZICNV | ZIMCH | M-O | LEN | Z0 | BOWEN | ALBEDO | REF | WS |
|------|------|-------|-----|------|-------|-------|--------|--------|-------|-------|---------|------|------|-------|--------|------|----|
| WD | HT | REF | TA | HT | | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 01 | -0.9 | 0.040 | -9.000 | -9.000 | -999. | 18. | 6.3 | 0.65 | 1.00 | 1.00 | | 0.70 | |
| 347. | 21.3 | 286.4 | | 17.7 | | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 02 | -3.0 | 0.086 | -9.000 | -9.000 | -999. | 58. | 19.1 | 0.65 | 1.00 | 1.00 | | 1.50 | |
| 82. | 21.3 | 286.4 | | 17.7 | | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 03 | -1.3 | 0.057 | -9.000 | -9.000 | -999. | 31. | 12.7 | 0.65 | 1.00 | 1.00 | | 1.00 | |
| 66. | 21.3 | 286.4 | | 17.7 | | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 04 | -1.9 | 0.069 | -9.000 | -9.000 | -999. | 41. | 15.2 | 0.65 | 1.00 | 1.00 | | 1.20 | |
| 23. | 21.3 | 285.9 | | 17.7 | | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 05 | -3.5 | 0.080 | -9.000 | -9.000 | -999. | 52. | 13.1 | 0.65 | 1.00 | 1.00 | | 1.40 | |
| 61. | 21.3 | 285.4 | | 17.7 | | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 06 | -3.0 | 0.086 | -9.000 | -9.000 | -999. | 58. | 19.0 | 0.65 | 1.00 | 1.00 | | 1.50 | |
| 83. | 21.3 | 285.4 | | 17.7 | | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 07 | -6.1 | 0.103 | -9.000 | -9.000 | -999. | 76. | 16.2 | 0.65 | 1.00 | 1.00 | | 1.80 | |
| 64. | 21.3 | 285.4 | | 17.7 | | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 08 | -3.3 | 0.080 | -9.000 | -9.000 | -999. | 52. | 14.1 | 0.65 | 1.00 | 0.55 | | 1.40 | |
| 46. | 21.3 | 285.4 | | 17.7 | | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 09 | 26.6 | 0.304 | 0.644 | 0.005 | 362. | 385. | -95.4 | 0.65 | 1.00 | 0.32 | | 2.30 | |
| 87. | 21.3 | 286.4 | | 17.7 | | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 10 | 21.0 | 0.227 | 0.732 | 0.005 | 675. | 250. | -50.2 | 0.65 | 1.00 | 0.24 | | 1.60 | |
| 76. | 21.3 | 286.4 | | 17.7 | | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 11 | 35.8 | 0.197 | 0.912 | 0.005 | 766. | 201. | -19.2 | 0.65 | 1.00 | 0.21 | | 1.20 | |
| 66. | 21.3 | 287.5 | | 17.7 | | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 12 | 14.9 | 0.281 | 0.686 | 0.005 | 785. | 343. | -135.5 | 0.65 | 1.00 | 0.20 | | 2.20 | |
| 79. | 21.3 | 287.5 | | 17.7 | | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 13 | 26.4 | 0.376 | 0.842 | 0.009 | 818. | 530. | -181.6 | 0.65 | 1.00 | 0.20 | | 3.00 | |
| 76. | 21.3 | 287.5 | | 17.7 | | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 14 | 39.0 | 0.385 | 0.979 | 0.014 | 867. | 549. | -131.8 | 0.65 | 1.00 | 0.21 | | 3.00 | |
| 80. | 21.3 | 288.1 | | 17.7 | | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 15 | 11.4 | 0.277 | 0.653 | 0.014 | 881. | 341. | -168.4 | 0.65 | 1.00 | 0.25 | | 2.20 | |
| 86. | 21.3 | 287.5 | | 17.7 | | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 16 | 0.1 | 0.343 | 0.135 | 0.014 | 881. | 462. | -8888.0 | 0.65 | 1.00 | 0.33 | | 3.00 | |
| 75. | 21.3 | 287.0 | | 17.7 | | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 17 | -13.7 | 0.266 | -9.000 | -9.000 | -999. | 319. | 125.0 | 0.65 | 1.00 | 0.60 | | 2.90 | |
| 82. | 21.3 | 286.4 | | 17.7 | | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 18 | -10.2 | 0.183 | -9.000 | -9.000 | -999. | 183. | 54.5 | 0.65 | 1.00 | 1.00 | | 2.50 | |
| 101. | 21.3 | 286.4 | | 17.7 | | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 19 | -16.1 | 0.289 | -9.000 | -9.000 | -999. | 358. | 135.6 | 0.65 | 1.00 | 1.00 | | 3.10 | |
| 97. | 21.3 | 285.9 | | 17.7 | | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 20 | -25.2 | 0.450 | -9.000 | -9.000 | -999. | 693. | 326.1 | 0.65 | 1.00 | 1.00 | | 4.30 | |
| 92. | 21.3 | 284.9 | | 17.7 | | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 21 | -27.3 | 0.487 | -9.000 | -9.000 | -999. | 781. | 381.9 | 0.65 | 1.00 | 1.00 | | 4.60 | |
| 88. | 21.3 | 284.2 | | 17.7 | | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 22 | -28.0 | 0.499 | -9.000 | -9.000 | -999. | 812. | 402.5 | 0.65 | 1.00 | 1.00 | | 4.70 | |
| 91. | 21.3 | 284.9 | | 17.7 | | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 23 | -36.1 | 0.645 | -9.000 | -9.000 | -999. | 1191. | 673.0 | 0.65 | 1.00 | 1.00 | | 5.90 | |
| 82. | 21.3 | 285.4 | | 17.7 | | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 24 | -35.3 | 0.633 | -9.000 | -9.000 | -999. | 1160. | 649.7 | 0.65 | 1.00 | 1.00 | | 5.80 | |
| 84. | 21.3 | 285.9 | | 17.7 | | | | | | | | | | | | | |

First hour of profile data

Aluminum Cover PM10 Mitigated

```

YR MO DY HR HEIGHT F WDIR WSPD AMB_TMP sigmaA sigmaW sigmaV
06 01 01 01 17.7 0 -999. -99.00 286.5 99.0 -99.00 -99.00
06 01 01 01 21.3 1 347. 0.70 -999.0 99.0 -99.00 -99.00
  
```

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

*** AERMOD - VERSION 09292 *** *** Elysian

*** 10/11/10

*** Aluminum PM10 Mitigated

*** 12:50:50

PAGE 9

**MODELOPTs: RegDFault CONC

ELEV
NODRYDPLT NOWETDPLT

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR
SOURCE GROUP: SRCGP1 ***
INCLUDING SOURCE(S): PAREA3 , PAREA4 , AREA2 , AREA3

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM.10 IN MICROGRAMS/M**3

**

| CONC | X-COORD (M) (YYMMDDHH) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) |
|-----------|---------------------------|-------------|-----------|------------|-------------|-------------|
| 53.80053 | 386476.85 (06121424) | 3771139.46 | 51.32726 | (06013124) | 386470.44 | 3771149.72 |
| 63.29958 | 386460.18 (06121424) | 3771159.97 | 59.19489 | (06121424) | 386449.29 | 3771172.79 |
| 75.08960 | 386440.31 (06011024) | 3771184.33 | 69.09503 | (06011024) | 386434.54 | 3771197.79 |
| 90.38972 | 386405.05 (07112824) | 3771244.59 | 89.95925 | (07112824) | 386409.54 | 3771235.61 |
| 85.65884 | 386416.59 (07112824) | 3771223.43 | 88.24290 | (07112824) | 386421.08 | 3771217.02 |
| 33.64971 | 386426.21 (07012224) | 3771209.97 | 81.54436 | (07112824) | 386274.28 | 3771299.72 |
| 39.07807 | 386278.77 (06121224) | 3771290.10 | 36.07461 | (07012224) | 386287.75 | 3771280.49 |
| 42.36332 | 386296.08 (06010924) | 3771269.59 | 41.27047 | (06121224) | 386303.13 | 3771259.33 |
| 61.90473 | 386340.31 (06010924) | 3771210.61 | 64.63486 | (06010824) | 386331.34 | 3771222.15 |
| 50.93367 | 386323.00 (06010924) | 3771233.69 | 58.24641 | (06010924) | 386312.75 | 3771248.43 |
| 39.21333 | 386415.31 (06011024) | 3771092.02 | 46.02077 | (06121424) | 386380.05 | 3771051.00 |
| 42.64349 | 386392.23 (06011024) | 3771050.36 | 39.47518 | (06121424) | 386374.29 | 3771063.18 |
| 44.98897 | 386402.49 (06121424) | 3771098.43 | 47.09598 | (06011024) | 386419.80 | 3771082.41 |
| 16.09578 | 386163.39 (06121624) | 3771763.82 | 9.10594 | (06122924) | 386081.33 | 3771480.49 |
| 11.50753 | 386103.77 (06032524) | 3771527.92 | 10.91709 | (06020224) | 386120.44 | 3771576.00 |
| 14.17719 | 386135.82 (07021824) | 3771613.82 | 11.09033 | (06032524) | 386146.72 | 3771651.64 |
| 8.95197 | 386156.33 (07112524) | 3771690.75 | 11.20440 | (07021824) | 386164.67 | 3771730.49 |
| 306.92029 | 386716.60 (06101524) | 3772090.11 | 240.75247 | (06101524) | 386705.70 | 3772082.42 |
| 266.77200 | 386714.67 (06050424) | 3772074.72 | 286.89702 | (06101524) | 386723.00 | 3772061.90 |
| 290.77197 | 386731.99 (06103124) | 3772036.90 | 313.54963 | (06103124) | 386728.13 | 3772051.01 |
| 260.27824 | 386737.11 (06101524) | 3772022.15 | 288.60691 | (07080324) | 386699.29 | 3772099.08 |

Aluminum Cover PM10 Mitigated

| | | | | | |
|--------------------------------|------------|-----------------------------|------------|-----------|------------|
| 386690.31 | 3772107.42 | 240.43770 | (07090224) | 386682.62 | 3772113.83 |
| 241.68810 | (07090224) | | | | |
| 386674.29 | 3772123.44 | 238.95872 | (07090624) | 386664.67 | 3772134.34 |
| 235.24616 | (06072524) | | | | |
| 386654.42 | 3772145.24 | 227.26795 | (06072524) | 386605.70 | 3772127.29 |
| 148.98792 | (07031824) | | | | |
| 386590.95 | 3772133.70 | 98.88284 | (06042724) | 386579.42 | 3772139.47 |
| 79.34767 | (06042724) | | | | |
| 386560.18 | 3772147.16 | 58.20796 | (06042724) | 386545.44 | 3772154.85 |
| 48.26603 | (06041124) | | | | |
| 386533.26 | 3772162.54 | 43.00330 | (06041124) | 386542.88 | 3772179.85 |
| 39.87171 | (06042724) | | | | |
| 386553.13 | 3772195.88 | 40.46684 | (06051324) | 386568.52 | 3772208.70 |
| 46.06241 | (06051324) | | | | |
| 386581.98 | 3772192.67 | 55.64718 | (06051324) | 386595.44 | 3772181.13 |
| 70.93950 | (07031824) | | | | |
| 386609.54 | 3772168.95 | 107.69077 | (07031824) | 386624.29 | 3772152.29 |
| 184.46144 | (07031924) | | | | |
| 386619.16 | 3772140.11 | 192.25882 | (07031924) | 386640.31 | 3772163.83 |
| 180.51231 | (07031924) | | | | |
| 386653.77 | 3772174.72 | 170.77701 | (06072524) | 386665.95 | 3772186.26 |
| 156.45408 | (06072524) | | | | |
| 386677.49 | 3772197.80 | 139.79325 | (06072524) | 386688.39 | 3772208.70 |
| 124.01218 | (06072524) | | | | |
| 386701.21 | 3772222.16 | 105.04537 | (06072524) | 386448.64 | 3772217.67 |
| 21.32162 | (06041124) | | | | |
| 386456.34 | 3772212.55 | 22.60794 | (06041124) | 386465.31 | 3772206.13 |
| 24.23497 | (06041124) | | | | |
| 386474.29 | 3772200.37 | 26.01397 | (06041124) | 386481.34 | 3772194.60 |
| 27.62534 | (06041124) | | | | |
| 386489.03 | 3772190.11 | 29.38318 | (06041124) | 386499.29 | 3772183.06 |
| 32.09819 | (06041124) | | | | |
| 386507.62 | 3772177.93 | 34.45384 | (06041124) | 386514.67 | 3772171.52 |
| 37.12746 | (06041124) | | | | |
| 386576.85 | 3772219.60 | 42.88789 | (06051324) | 386586.47 | 3772209.34 |
| 50.10628 | (07031824) | | | | |
| 386597.36 | 3772197.80 | 66.77024 | (07031824) | 386606.98 | 3772187.54 |
| 86.99724 | (07031824) | | | | |
| *** AERMOD - VERSION 09292 *** | | *** Elysian | | | |
| *** 10/11/10 | | *** Aluminum PM10 Mitigated | | | |
| *** 12:50:50 | | | | | |

PAGE 10

**MODELOPTs: RegDFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR
SOURCE GROUP: SRCGP1 ***
INCLUDING SOURCE(S): PAREA3 , PAREA4 , AREA2 , AREA3

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM.10 IN MICROGRAMS/M**3

| CONC | X-COORD (M) (YYMMDDHH) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) |
|-----------|---------------------------|-------------|-----------|------------|-------------|-------------|
| 218.67789 | 386620.44 | 3772178.57 | 128.85123 | (07031924) | 386742.87 | 3772003.56 |
| 42.98935 | 386386.30 | 3771087.29 | 46.74206 | (06011024) | 386399.28 | 3771081.52 |
| 1.44953 | 386409.38 | 3771067.10 | 42.59689 | (06121424) | 385296.78 | 3773131.99 |
| 1.50179 | 385287.93 | 3773147.05 | 1.47001 | (06120924) | 385283.50 | 3773159.45 |
| 1.73823 | 385576.69 | 3773089.48 | 1.72062 | (07080524) | 385597.95 | 3773060.25 |

Aluminum Cover PM10 Mitigated

| | | | | | | |
|----------|-------------------------|------------|----------|------------|-----------|------------|
| 1.73132 | 385609.46 (06041124) | 3773037.22 | 1.71686 | (07080524) | 385629.84 | 3772997.36 |
| 2.09246 | 385654.64 (06120924) | 3772953.07 | 1.87860 | (06041124) | 385706.01 | 3772876.89 |
| 2.30895 | 385752.07 (06120924) | 3772808.69 | 2.23733 | (06120924) | 385816.74 | 3772724.54 |
| 3.41083 | 385886.71 (07102124) | 3772645.70 | 2.76964 | (07102124) | 385952.26 | 3772579.27 |
| 5.19056 | 386020.46 (07102124) | 3772519.04 | 4.25048 | (07102124) | 386093.98 | 3772463.23 |
| 6.22918 | 386169.27 (06041124) | 3772410.97 | 5.68826 | (07102124) | 386248.11 | 3772359.60 |
| 15.87258 | 386328.71 (06041124) | 3772309.11 | 9.69363 | (06041124) | 386407.55 | 3772253.30 |
| 22.71967 | 387116.28 (06051624) | 3772187.40 | 20.90187 | (06101524) | 387141.00 | 3772141.51 |
| 17.20580 | 387201.01 (06101524) | 3772180.34 | 16.43813 | (07082424) | 387155.12 | 3772229.77 |
| 13.31289 | 386943.29 (06101524) | 3772540.45 | 13.26965 | (06101524) | 386925.64 | 3772582.82 |
| 25.05320 | 386526.69 (06111224) | 3770944.68 | 19.62238 | (06081724) | 386466.67 | 3770937.61 |
| 20.13971 | 386537.28 (07101824) | 3770884.66 | 15.74083 | (07092524) | 386480.80 | 3770881.13 |
| | 387374.01 | 3771597.81 | 12.11412 | (07080324) | | |

*** AERMOD - VERSION 09292 *** *** Elysian
 *** 10/11/10
 *** 12:50:50 *** Aluminum PM10 Mitigated

PAGE 11

**MODELOPTs: RegDFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

SOURCE GROUP: ALL *** *** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR
 INCLUDING SOURCE(S): PAREA3 , PAREA4 , AREA2 , AREA3

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM.10 IN MICROGRAMS/M**3

**

| CONC | X-COORD (M) (YYMMDDHH) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) |
|----------|---------------------------|-------------|----------|------------|-------------|-------------|
| 53.80053 | 386476.85 (06121424) | 3771139.46 | 51.32726 | (06013124) | 386470.44 | 3771149.72 |
| 63.29958 | 386460.18 (06121424) | 3771159.97 | 59.19489 | (06121424) | 386449.29 | 3771172.79 |
| 75.08960 | 386440.31 (06011024) | 3771184.33 | 69.09503 | (06011024) | 386434.54 | 3771197.79 |
| 90.38972 | 386405.05 (07112824) | 3771244.59 | 89.95925 | (07112824) | 386409.54 | 3771235.61 |
| 85.65884 | 386416.59 (07112824) | 3771223.43 | 88.24290 | (07112824) | 386421.08 | 3771217.02 |
| 33.64971 | 386426.21 (07012224) | 3771209.97 | 81.54436 | (07112824) | 386274.28 | 3771299.72 |
| 39.07807 | 386278.77 (06121224) | 3771290.10 | 36.07461 | (07012224) | 386287.75 | 3771280.49 |
| 42.36332 | 386296.08 (06010924) | 3771269.59 | 41.27047 | (06121224) | 386303.13 | 3771259.33 |
| 61.90473 | 386340.31 (06010924) | 3771210.61 | 64.63486 | (06010824) | 386331.34 | 3771222.15 |
| 50.93367 | 386323.00 (06010924) | 3771233.69 | 58.24641 | (06010924) | 386312.75 | 3771248.43 |
| 39.21333 | 386415.31 (06011024) | 3771092.02 | 46.02077 | (06121424) | 386380.05 | 3771051.00 |

Aluminum Cover PM10 Mitigated

| | | | | | |
|-----------|------------|-----------|------------|-----------|------------|
| 386392.23 | 3771050.36 | 39.47518 | (06121424) | 386374.29 | 3771063.18 |
| 42.64349 | (06011024) | | | | |
| 386402.49 | 3771098.43 | 47.09598 | (06011024) | 386419.80 | 3771082.41 |
| 44.98897 | (06121424) | | | | |
| 386163.39 | 3771763.82 | 9.10594 | (06122924) | 386081.33 | 3771480.49 |
| 16.09578 | (06121624) | | | | |
| 386103.77 | 3771527.92 | 10.91709 | (06020224) | 386120.44 | 3771576.00 |
| 11.50753 | (06032524) | | | | |
| 386135.82 | 3771613.82 | 11.09033 | (06032524) | 386146.72 | 3771651.64 |
| 14.17719 | (07021824) | | | | |
| 386156.33 | 3771690.75 | 11.20440 | (07021824) | 386164.67 | 3771730.49 |
| 8.95197 | (07112524) | | | | |
| 386716.60 | 3772090.11 | 240.75247 | (06101524) | 386705.70 | 3772082.42 |
| 306.92029 | (06101524) | | | | |
| 386714.67 | 3772074.72 | 286.89702 | (06101524) | 386723.00 | 3772061.90 |
| 266.77200 | (06050424) | | | | |
| 386731.99 | 3772036.90 | 313.54963 | (06103124) | 386728.13 | 3772051.01 |
| 290.77197 | (06103124) | | | | |
| 386737.11 | 3772022.15 | 288.60691 | (07080324) | 386699.29 | 3772099.08 |
| 260.27824 | (06101524) | | | | |
| 386690.31 | 3772107.42 | 240.43770 | (07090224) | 386682.62 | 3772113.83 |
| 241.68810 | (07090224) | | | | |
| 386674.29 | 3772123.44 | 238.95872 | (07090624) | 386664.67 | 3772134.34 |
| 235.24616 | (06072524) | | | | |
| 386654.42 | 3772145.24 | 227.26795 | (06072524) | 386605.70 | 3772127.29 |
| 148.98792 | (07031824) | | | | |
| 386590.95 | 3772133.70 | 98.88284 | (06042724) | 386579.42 | 3772139.47 |
| 79.34767 | (06042724) | | | | |
| 386560.18 | 3772147.16 | 58.20796 | (06042724) | 386545.44 | 3772154.85 |
| 48.26603 | (06041124) | | | | |
| 386533.26 | 3772162.54 | 43.00330 | (06041124) | 386542.88 | 3772179.85 |
| 39.87171 | (06042724) | | | | |
| 386553.13 | 3772195.88 | 40.46684 | (06051324) | 386568.52 | 3772208.70 |
| 46.06241 | (06051324) | | | | |
| 386581.98 | 3772192.67 | 55.64718 | (06051324) | 386595.44 | 3772181.13 |
| 70.93950 | (07031824) | | | | |
| 386609.54 | 3772168.95 | 107.69077 | (07031824) | 386624.29 | 3772152.29 |
| 184.46144 | (07031924) | | | | |
| 386619.16 | 3772140.11 | 192.25882 | (07031924) | 386640.31 | 3772163.83 |
| 180.51231 | (07031924) | | | | |
| 386653.77 | 3772174.72 | 170.77701 | (06072524) | 386665.95 | 3772186.26 |
| 156.45408 | (06072524) | | | | |
| 386677.49 | 3772197.80 | 139.79325 | (06072524) | 386688.39 | 3772208.70 |
| 124.01218 | (06072524) | | | | |
| 386701.21 | 3772222.16 | 105.04537 | (06072524) | 386448.64 | 3772217.67 |
| 21.32162 | (06041124) | | | | |
| 386456.34 | 3772212.55 | 22.60794 | (06041124) | 386465.31 | 3772206.13 |
| 24.23497 | (06041124) | | | | |
| 386474.29 | 3772200.37 | 26.01397 | (06041124) | 386481.34 | 3772194.60 |
| 27.62534 | (06041124) | | | | |
| 386489.03 | 3772190.11 | 29.38318 | (06041124) | 386499.29 | 3772183.06 |
| 32.09819 | (06041124) | | | | |
| 386507.62 | 3772177.93 | 34.45384 | (06041124) | 386514.67 | 3772171.52 |
| 37.12746 | (06041124) | | | | |
| 386576.85 | 3772219.60 | 42.88789 | (06051324) | 386586.47 | 3772209.34 |
| 50.10628 | (07031824) | | | | |
| 386597.36 | 3772197.80 | 66.77024 | (07031824) | 386606.98 | 3772187.54 |
| 86.99724 | (07031824) | | | | |

*** AERMOD - VERSION 09292 ***
 *** 10/11/10

*** Elysian

*** Aluminum PM10 Mitigated

*** 12:50:50

PAGE 12

**MODELOPTs: RegDEFAULT CONC

ELEV
 NODRYDPLT NOWETDPLT

SOURCE GROUP: ALL

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR
 INCLUDING SOURCE(S): PAREA3 , PAREA4 , AREA2 , AREA3

Aluminum Cover PM10 Mitigated

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM.10 IN MICROGRAMS/M**3

**

| CONC | X-COORD (M) (YYMMDDHH) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) |
|-----------|--------------------------------|-------------|-----------------------------|------------|-------------|-------------|
| 218.67789 | 386620.44 | 3772178.57 | 128.85123 | (07031924) | 386742.87 | 3772003.56 |
| | (07080324) | | | | | |
| 42.98935 | 386386.30 | 3771087.29 | 46.74206 | (06011024) | 386399.28 | 3771081.52 |
| | (06121424) | | | | | |
| 1.44953 | 386409.38 | 3771067.10 | 42.59689 | (06121424) | 385296.78 | 3773131.99 |
| | (06120924) | | | | | |
| 1.50179 | 385287.93 | 3773147.05 | 1.47001 | (06120924) | 385283.50 | 3773159.45 |
| | (06120924) | | | | | |
| 1.73823 | 385576.69 | 3773089.48 | 1.72062 | (07080524) | 385597.95 | 3773060.25 |
| | (07080524) | | | | | |
| 1.73132 | 385609.46 | 3773037.22 | 1.71686 | (07080524) | 385629.84 | 3772997.36 |
| | (06041124) | | | | | |
| 2.09246 | 385654.64 | 3772953.07 | 1.87860 | (06041124) | 385706.01 | 3772876.89 |
| | (06120924) | | | | | |
| 2.30895 | 385752.07 | 3772808.69 | 2.23733 | (06120924) | 385816.74 | 3772724.54 |
| | (06120924) | | | | | |
| 3.41083 | 385886.71 | 3772645.70 | 2.76964 | (07102124) | 385952.26 | 3772579.27 |
| | (07102124) | | | | | |
| 5.19056 | 386020.46 | 3772519.04 | 4.25048 | (07102124) | 386093.98 | 3772463.23 |
| | (07102124) | | | | | |
| 6.22918 | 386169.27 | 3772410.97 | 5.68826 | (07102124) | 386248.11 | 3772359.60 |
| | (06041124) | | | | | |
| 15.87258 | 386328.71 | 3772309.11 | 9.69363 | (06041124) | 386407.55 | 3772253.30 |
| | (06041124) | | | | | |
| 22.71967 | 387116.28 | 3772187.40 | 20.90187 | (06101524) | 387141.00 | 3772141.51 |
| | (06051624) | | | | | |
| 17.20580 | 387201.01 | 3772180.34 | 16.43813 | (07082424) | 387155.12 | 3772229.77 |
| | (06101524) | | | | | |
| 13.31289 | 386943.29 | 3772540.45 | 13.26965 | (06101524) | 386925.64 | 3772582.82 |
| | (06101524) | | | | | |
| 25.05320 | 386526.69 | 3770944.68 | 19.62238 | (06081724) | 386466.67 | 3770937.61 |
| | (06111224) | | | | | |
| 20.13971 | 386537.28 | 3770884.66 | 15.74083 | (07092524) | 386480.80 | 3770881.13 |
| | (07101824) | | | | | |
| | 387374.01 | 3771597.81 | 12.11412 | (07080324) | | |
| | | | | | | |
| | *** AERMOD - VERSION 09292 *** | | *** Elysian | | | |
| | *** 10/11/10 | | *** Aluminum PM10 Mitigated | | | |
| | *** 12:50:50 | | | | | |

PAGE 13

**MODELOPTs: RegDEFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

*** THE SUMMARY OF HIGHEST 24-HR RESULTS ***

** CONC OF PM.10 IN MICROGRAMS/M**3

**

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

SRCGP1 HIGH 1ST HIGH VALUE IS 313.54963 ON 06103124: AT (386731.99, 3772036.90,
94.04, 182.00, 0.00) DC

Aluminum Cover PM10 Mitigated

ALL HIGH 1ST HIGH VALUE IS 313.54963 ON 06103124: AT (386731.99, 3772036.90,
94.04, 182.00, 0.00) DC

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

*** AERMOD - VERSION 09292 *** *** Elysian
*** 10/11/10 *** Aluminum PM10 Mitigated
*** 12:50:50

PAGE 14

**MODELOPTs: RegDFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

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

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

A Total of 0 Fatal Error Message(s)
A Total of 0 Warning Message(s)
A Total of 113 Informational Message(s)

A Total of 17520 Hours Were Processed

A Total of 0 Calm Hours Identified

A Total of 113 Missing Hours Identified (0.64 Percent)

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

***** WARNING MESSAGES *****
*** NONE ***

*** AERMOD Finishes Successfully ***

Aluminum Cover NO2 Mitigated

```
**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 6.7.1
** Lakes Environmental Software Inc.
** Date: 11/22/2010
** File: C:\Documents and Settings\jbailey\Desktop\Elysian Park AerMod\elysian\A_NO2M.ADI
**
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**
CO STARTING
TITLEONE Elysian
TITLETWO Aluminum NO2 Mitigated
MODELOPT DFAULT CONC NODRYDPLT NOWETDPLT
AVERTIME 1
URBANOPT 9862049 LA
POLLUTID NOX
RUNORNOT RUN
CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
LOCATION PAREA3 AREAPOLY 386606.494 3771295.572 139.670
** DESCRSRC Reservoir
LOCATION PAREA4 AREAPOLY 386598.189 3772118.131 96.350
** DESCRSRC Caltrans
** Source Parameters **
SRCPARAM PAREA3 6.295E-06 5.000 18
AREAVERT PAREA3 386606.494 3771295.572 386560.430 3771386.706
AREAVERT PAREA3 386502.641 3771467.538 386454.064 3771523.011
AREAVERT PAREA3 386432.288 3771547.577 386455.739 3771575.313
AREAVERT PAREA3 386485.890 3771583.238 386543.680 3771557.879
AREAVERT PAREA3 386593.931 3771507.954 386619.057 3771483.387
AREAVERT PAREA3 386650.046 3771442.179 386660.096 3771427.914
AREAVERT PAREA3 386676.847 3771408.103 386688.572 3771388.291
AREAVERT PAREA3 386676.847 3771361.347 386655.909 3771323.308
AREAVERT PAREA3 386640.833 3771309.044 386614.032 3771295.572
SRCPARAM PAREA4 0.0000203238 5.000 14
AREAVERT PAREA4 386598.189 3772118.131 386582.499 3772090.138
AREAVERT PAREA4 386633.724 3772053.797 386639.492 3772051.587
AREAVERT PAREA4 386653.798 3772051.341 386669.719 3772039.800
AREAVERT PAREA4 386684.025 3772011.316 386695.331 3771993.391
AREAVERT PAREA4 386697.639 3771989.462 386718.867 3771999.775
AREAVERT PAREA4 386698.331 3772048.886 386685.179 3772065.583
AREAVERT PAREA4 386673.872 3772076.387 386653.567 3772089.647
URBANSRC PAREA3
URBANSRC PAREA4
CONCUNIT 531.5 GRAMS/SEC PPM
SRCGROUP SRCGP1 PAREA4 PAREA3
SRCGROUP ALL
SO FINISHED
**
*****
** AERMOD Receptor Pathway
*****
**
**
RE STARTING
```

Aluminum Cover NO2 Mitigated

```
INCLUDED A_NO2M.rou
RE FINISHED
**
*****
** AERMOD Meteorology Pathway
*****
**
**
ME STARTING
SURFFILE "L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\cela.SFC"
PROFFILE "L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\cela.PFL"
SURFDATA 0 2006
UAIRDATA 3190 2006
PROFBASE 10 METERS
ME FINISHED
**
*****
** AERMOD Output Pathway
*****
**
**
OU STARTING
RECTABLE ALLAVE 1ST
RECTABLE 1 1ST
** Auto-Generated Plotfiles
PLOTFILE 1 ALL 1ST A_NO2M.AD\01H1GALL.PLT
PLOTFILE 1 SRCGP1 1ST A_NO2M.AD\01H1G001.PLT
OU FINISHED

*****
*** SETUP Finishes Successfully ***
*****

*** AERMOD - VERSION 09292 ***      *** Elysian
***      11/22/10
***                               *** Aluminum NO2 Mitigated
***      17:44:03

PAGE      1
**MODELOPTs:  RegDFault CONC
                                                    ELEV
                                                    NODRYDPLT NOWETDPLT

***      MODEL SETUP OPTIONS SUMMARY      ***
-----
**Model Is Setup For Calculation of Average CONCentration Values.

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

**Model Uses URBAN Dispersion Algorithm for the SBL for      2 Source(s),
for Total of      1 Urban Area(s):
Urban Population = 9862049.0 ; Urban Roughness Length = 1.000 m

**Model Uses Regulatory DEFAULT Options:
1. Stack-tip Downwash.
2. Model Accounts for ELEVated Terrain Effects.
3. Use Calms Processing Routine.
4. Use Missing Data Processing Routine.
5. No Exponential Decay for URBAN/Non-SO2.
6. Urban Roughness Length of 1.0 Meter Assumed.

**Model Assumes No FLAGPOLE Receptor Heights.

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

**This Run Includes:      2 Source(s);      2 Source Group(s); and      120 Receptor(s)
```

Aluminum Cover NO2 Mitigated

**The Model Assumes A Pollutant Type of: NOX

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

**Output Options Selected:

Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
 Model Outputs External File(s) of High Values for Plotting (PLOTFILE 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) = 10.00 ; Decay Coef. = 0.000
 ; Rot. Angle = 0.0

Emission Units = GRAMS/SEC ; Emission Rate
 Unit Factor = 531.50
 Output Units = PPM

**Approximate Storage Requirements of Model = 3.5 MB of RAM.

*** AERMOD - VERSION 09292 *** *** Elysian
 *** 11/22/10
 *** Aluminum NO2 Mitigated
 *** 17:44:03

PAGE 2

**MODELOPTs: RegDFAULT CONC ELEV
 NODRYDPLT NOWETDPLT

*** AREAPOLY SOURCE DATA ***

| URBAN SOURCE | EMISSION RATE | NUMBER | EMISSION RATE | LOCATION OF AREA | BASE | RELEASE | NUMBER | INIT. |
|---------------|---------------|--------------|---------------|------------------|----------|----------|-----------|----------|
| SOURCE SCALAR | PART. VARY | (USER UNITS) | (USER UNITS) | X Y | ELEV. | HEIGHT | OF VERTS. | SZ |
| ID | CATS. | /METER**2) | (METERS) | (METERS) | (METERS) | (METERS) | (METERS) | (METERS) |

| | | | | | | | | |
|--------|---|-------------|----------|-----------|-------|------|----|------|
| PAREA3 | 0 | 0.62950E-05 | 386606.5 | 3771295.6 | 139.7 | 5.00 | 18 | 0.00 |
| PAREA4 | 0 | 0.20324E-04 | 386598.2 | 3772118.1 | 96.3 | 5.00 | 14 | 0.00 |

*** AERMOD - VERSION 09292 *** *** Elysian
 *** 11/22/10
 *** Aluminum NO2 Mitigated
 *** 17:44:03

PAGE 3

**MODELOPTs: RegDFAULT CONC ELEV
 NODRYDPLT NOWETDPLT

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID SOURCE IDs

SRCGP1 PAREA3 , PAREA4 ,

ALL PAREA3 , PAREA4 ,
 *** AERMOD - VERSION 09292 *** *** Elysian
 *** 11/22/10
 *** Aluminum NO2 Mitigated
 *** 17:44:03

Aluminum Cover NO2 Mitigated

PAGE 4

**MODELOPTs: RegDFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

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

| | | | | |
|------------------------|--------|--------|-------|------------------------|
| (386476.8, 3771139.5, | 143.3, | 181.0, | 0.0); | (386470.4, 3771149.7, |
| 144.2, 181.0, 0.0); | | | | |
| (386460.2, 3771160.0, | 145.3, | 181.0, | 0.0); | (386449.3, 3771172.8, |
| 146.6, 181.0, 0.0); | | | | |
| (386440.3, 3771184.3, | 147.6, | 181.0, | 0.0); | (386434.5, 3771197.8, |
| 148.6, 181.0, 0.0); | | | | |
| (386405.0, 3771244.6, | 152.9, | 181.0, | 0.0); | (386409.5, 3771235.6, |
| 151.9, 181.0, 0.0); | | | | |
| (386416.6, 3771223.4, | 150.9, | 181.0, | 0.0); | (386421.1, 3771217.0, |
| 150.3, 181.0, 0.0); | | | | |
| (386426.2, 3771210.0, | 149.6, | 181.0, | 0.0); | (386274.3, 3771299.7, |
| 168.1, 181.0, 0.0); | | | | |
| (386278.8, 3771290.1, | 167.4, | 181.0, | 0.0); | (386287.8, 3771280.5, |
| 166.6, 181.0, 0.0); | | | | |
| (386296.1, 3771269.6, | 164.9, | 181.0, | 0.0); | (386303.1, 3771259.3, |
| 163.5, 181.0, 0.0); | | | | |
| (386340.3, 3771210.6, | 155.9, | 181.0, | 0.0); | (386331.3, 3771222.1, |
| 157.6, 181.0, 0.0); | | | | |
| (386323.0, 3771233.7, | 159.3, | 181.0, | 0.0); | (386312.8, 3771248.4, |
| 161.6, 181.0, 0.0); | | | | |
| (386415.3, 3771092.0, | 143.8, | 181.0, | 0.0); | (386380.0, 3771051.0, |
| 142.9, 164.0, 0.0); | | | | |
| (386392.2, 3771050.4, | 142.2, | 181.0, | 0.0); | (386374.3, 3771063.2, |
| 144.0, 164.0, 0.0); | | | | |
| (386402.5, 3771098.4, | 144.8, | 181.0, | 0.0); | (386419.8, 3771082.4, |
| 142.9, 181.0, 0.0); | | | | |
| (386163.4, 3771763.8, | 182.0, | 182.0, | 0.0); | (386081.3, 3771480.5, |
| 178.0, 178.0, 0.0); | | | | |
| (386103.8, 3771527.9, | 179.8, | 179.8, | 0.0); | (386120.4, 3771576.0, |
| 181.1, 181.1, 0.0); | | | | |
| (386135.8, 3771613.8, | 182.0, | 182.0, | 0.0); | (386146.7, 3771651.6, |
| 182.0, 182.0, 0.0); | | | | |
| (386156.3, 3771690.8, | 182.0, | 182.0, | 0.0); | (386164.7, 3771730.5, |
| 182.0, 182.0, 0.0); | | | | |
| (386716.6, 3772090.1, | 93.4, | 182.0, | 0.0); | (386705.7, 3772082.4, |
| 93.0, 182.0, 0.0); | | | | |
| (386714.7, 3772074.7, | 93.3, | 182.0, | 0.0); | (386723.0, 3772061.9, |
| 93.7, 182.0, 0.0); | | | | |
| (386732.0, 3772036.9, | 94.0, | 182.0, | 0.0); | (386728.1, 3772051.0, |
| 93.9, 182.0, 0.0); | | | | |
| (386737.1, 3772022.1, | 94.2, | 182.0, | 0.0); | (386699.3, 3772099.1, |
| 92.7, 182.0, 0.0); | | | | |
| (386690.3, 3772107.4, | 92.4, | 182.0, | 0.0); | (386682.6, 3772113.8, |
| 92.1, 182.0, 0.0); | | | | |
| (386674.3, 3772123.4, | 92.3, | 182.0, | 0.0); | (386664.7, 3772134.3, |
| 92.8, 182.0, 0.0); | | | | |
| (386654.4, 3772145.2, | 93.1, | 182.0, | 0.0); | (386605.7, 3772127.3, |
| 95.6, 182.0, 0.0); | | | | |
| (386591.0, 3772133.7, | 96.5, | 182.0, | 0.0); | (386579.4, 3772139.5, |
| 97.2, 182.0, 0.0); | | | | |
| (386560.2, 3772147.2, | 98.4, | 182.0, | 0.0); | (386545.4, 3772154.8, |
| 99.0, 182.0, 0.0); | | | | |
| (386533.3, 3772162.5, | 99.5, | 182.0, | 0.0); | (386542.9, 3772179.8, |
| 98.2, 182.0, 0.0); | | | | |
| (386553.1, 3772195.9, | 96.9, | 182.0, | 0.0); | (386568.5, 3772208.7, |
| 95.5, 182.0, 0.0); | | | | |
| (386582.0, 3772192.7, | 95.3, | 182.0, | 0.0); | (386595.4, 3772181.1, |
| 94.8, 182.0, 0.0); | | | | |
| (386609.5, 3772168.9, | 94.5, | 182.0, | 0.0); | (386624.3, 3772152.3, |
| 94.3, 182.0, 0.0); | | | | |
| (386619.2, 3772140.1, | 94.7, | 182.0, | 0.0); | (386640.3, 3772163.8, |
| 93.5, 182.0, 0.0); | | | | |

Aluminum Cover NO2 Mitigated

| | | | | |
|--------------------------------|----------------------------|--------|-------|------------------------|
| (386653.8, 3772174.7, | 93.0, | 182.0, | 0.0); | (386666.0, 3772186.3, |
| 92.7, 182.0, 0.0); | | | | |
| (386677.5, 3772197.8, | 92.5, | 182.0, | 0.0); | (386688.4, 3772208.7, |
| 92.8, 182.0, 0.0); | | | | |
| (386701.2, 3772222.2, | 93.5, | 182.0, | 0.0); | (386448.6, 3772217.7, |
| 102.7, 182.0, 0.0); | | | | |
| (386456.3, 3772212.5, | 102.4, | 182.0, | 0.0); | (386465.3, 3772206.1, |
| 102.1, 182.0, 0.0); | | | | |
| (386474.3, 3772200.4, | 101.8, | 182.0, | 0.0); | (386481.3, 3772194.6, |
| 101.5, 182.0, 0.0); | | | | |
| (386489.0, 3772190.1, | 101.2, | 182.0, | 0.0); | (386499.3, 3772183.1, |
| 100.9, 182.0, 0.0); | | | | |
| (386507.6, 3772177.9, | 100.5, | 182.0, | 0.0); | (386514.7, 3772171.5, |
| 100.3, 182.0, 0.0); | | | | |
| (386576.8, 3772219.6, | 94.6, | 182.0, | 0.0); | (386586.5, 3772209.3, |
| 94.4, 182.0, 0.0); | | | | |
| (386597.4, 3772197.8, | 94.2, | 182.0, | 0.0); | (386607.0, 3772187.5, |
| 94.0, 182.0, 0.0); | | | | |
| (386620.4, 3772178.6, | 93.9, | 182.0, | 0.0); | (386742.9, 3772003.6, |
| 94.5, 182.0, 0.0); | | | | |
| (386386.3, 3771087.3, | 144.9, | 181.0, | 0.0); | (386399.3, 3771081.5, |
| 143.9, 181.0, 0.0); | | | | |
| (386409.4, 3771067.1, | 142.4, | 181.0, | 0.0); | (385296.8, 3773132.0, |
| 117.7, 182.0, 0.0); | | | | |
| (385287.9, 3773147.0, | 117.7, | 182.0, | 0.0); | (385283.5, 3773159.4, |
| 117.2, 182.0, 0.0); | | | | |
| (385576.7, 3773089.5, | 103.9, | 182.0, | 0.0); | (385598.0, 3773060.2, |
| 104.0, 182.0, 0.0); | | | | |
| *** AERMOD - VERSION 09292 *** | *** Elysian | | | |
| *** 11/22/10 | *** Aluminum NO2 Mitigated | | | |
| *** 17:44:03 | | | | |

PAGE 5

**MODELOPTs: RegDFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

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

| | | | | |
|------------------------|--------|--------|-------|------------------------|
| (385609.5, 3773037.2, | 104.5, | 182.0, | 0.0); | (385629.8, 3772997.4, |
| 105.3, 182.0, 0.0); | | | | |
| (385654.6, 3772953.1, | 106.0, | 182.0, | 0.0); | (385706.0, 3772876.9, |
| 106.7, 182.0, 0.0); | | | | |
| (385752.1, 3772808.7, | 107.3, | 182.0, | 0.0); | (385816.7, 3772724.5, |
| 108.9, 182.0, 0.0); | | | | |
| (385886.7, 3772645.7, | 110.4, | 182.0, | 0.0); | (385952.3, 3772579.3, |
| 111.3, 182.0, 0.0); | | | | |
| (386020.5, 3772519.0, | 111.7, | 182.0, | 0.0); | (386094.0, 3772463.2, |
| 111.1, 182.0, 0.0); | | | | |
| (386169.3, 3772411.0, | 110.4, | 182.0, | 0.0); | (386248.1, 3772359.6, |
| 108.8, 182.0, 0.0); | | | | |
| (386328.7, 3772309.1, | 105.9, | 182.0, | 0.0); | (386407.5, 3772253.3, |
| 103.3, 182.0, 0.0); | | | | |
| (387116.3, 3772187.4, | 108.2, | 182.0, | 0.0); | (387141.0, 3772141.5, |
| 108.9, 108.9, 0.0); | | | | |
| (387201.0, 3772180.3, | 110.6, | 182.0, | 0.0); | (387155.1, 3772229.8, |
| 110.0, 182.0, 0.0); | | | | |
| (386943.3, 3772540.4, | 102.9, | 243.0, | 0.0); | (386925.6, 3772582.8, |
| 102.9, 243.0, 0.0); | | | | |
| (386526.7, 3770944.7, | 129.0, | 131.0, | 0.0); | (386466.7, 3770937.6, |
| 131.1, 131.1, 0.0); | | | | |
| (386537.3, 3770884.7, | 123.8, | 123.8, | 0.0); | (386480.8, 3770881.1, |
| 125.8, 125.8, 0.0); | | | | |
| (387374.0, 3771597.8, | 112.1, | 112.1, | 0.0); | (384880.2, 3771187.7, |
| 166.9, 166.9, 0.0); | | | | |
| (384901.5, 3771161.1, | 167.0, | 167.0, | 0.0); | (384909.4, 3771118.6, |
| 165.9, 165.9, 0.0); | | | | |
| (384912.1, 3771078.8, | 164.8, | 164.8, | 0.0); | (384920.0, 3771052.2, |
| 164.2, 164.2, 0.0); | | | | |

Aluminum Cover NO2 Mitigated

| | | | | | | | | | | | | | | | |
|------|------|-------|---|------|-------|-------|--------|--------|-------|-------|---------|------|------|------|------|
| 06 | 01 | 01 | 1 | 04 | -1.9 | 0.069 | -9.000 | -9.000 | -999. | 41. | 15.2 | 0.65 | 1.00 | 1.00 | 1.20 |
| 23. | 21.3 | 285.9 | | 17.7 | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 05 | -3.5 | 0.080 | -9.000 | -9.000 | -999. | 52. | 13.1 | 0.65 | 1.00 | 1.00 | 1.40 |
| 61. | 21.3 | 285.4 | | 17.7 | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 06 | -3.0 | 0.086 | -9.000 | -9.000 | -999. | 58. | 19.0 | 0.65 | 1.00 | 1.00 | 1.50 |
| 83. | 21.3 | 285.4 | | 17.7 | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 07 | -6.1 | 0.103 | -9.000 | -9.000 | -999. | 76. | 16.2 | 0.65 | 1.00 | 1.00 | 1.80 |
| 64. | 21.3 | 285.4 | | 17.7 | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 08 | -3.3 | 0.080 | -9.000 | -9.000 | -999. | 52. | 14.1 | 0.65 | 1.00 | 0.55 | 1.40 |
| 46. | 21.3 | 285.4 | | 17.7 | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 09 | 26.6 | 0.304 | 0.644 | 0.005 | 362. | 385. | -95.4 | 0.65 | 1.00 | 0.32 | 2.30 |
| 87. | 21.3 | 286.4 | | 17.7 | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 10 | 21.0 | 0.227 | 0.732 | 0.005 | 675. | 250. | -50.2 | 0.65 | 1.00 | 0.24 | 1.60 |
| 76. | 21.3 | 286.4 | | 17.7 | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 11 | 35.8 | 0.197 | 0.912 | 0.005 | 766. | 201. | -19.2 | 0.65 | 1.00 | 0.21 | 1.20 |
| 66. | 21.3 | 287.5 | | 17.7 | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 12 | 14.9 | 0.281 | 0.686 | 0.005 | 785. | 343. | -135.5 | 0.65 | 1.00 | 0.20 | 2.20 |
| 79. | 21.3 | 287.5 | | 17.7 | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 13 | 26.4 | 0.376 | 0.842 | 0.009 | 818. | 530. | -181.6 | 0.65 | 1.00 | 0.20 | 3.00 |
| 76. | 21.3 | 287.5 | | 17.7 | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 14 | 39.0 | 0.385 | 0.979 | 0.014 | 867. | 549. | -131.8 | 0.65 | 1.00 | 0.21 | 3.00 |
| 80. | 21.3 | 288.1 | | 17.7 | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 15 | 11.4 | 0.277 | 0.653 | 0.014 | 881. | 341. | -168.4 | 0.65 | 1.00 | 0.25 | 2.20 |
| 86. | 21.3 | 287.5 | | 17.7 | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 16 | 0.1 | 0.343 | 0.135 | 0.014 | 881. | 462. | -8888.0 | 0.65 | 1.00 | 0.33 | 3.00 |
| 75. | 21.3 | 287.0 | | 17.7 | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 17 | -13.7 | 0.266 | -9.000 | -9.000 | -999. | 319. | 125.0 | 0.65 | 1.00 | 0.60 | 2.90 |
| 82. | 21.3 | 286.4 | | 17.7 | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 18 | -10.2 | 0.183 | -9.000 | -9.000 | -999. | 183. | 54.5 | 0.65 | 1.00 | 1.00 | 2.50 |
| 101. | 21.3 | 286.4 | | 17.7 | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 19 | -16.1 | 0.289 | -9.000 | -9.000 | -999. | 358. | 135.6 | 0.65 | 1.00 | 1.00 | 3.10 |
| 97. | 21.3 | 285.9 | | 17.7 | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 20 | -25.2 | 0.450 | -9.000 | -9.000 | -999. | 693. | 326.1 | 0.65 | 1.00 | 1.00 | 4.30 |
| 92. | 21.3 | 284.9 | | 17.7 | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 21 | -27.3 | 0.487 | -9.000 | -9.000 | -999. | 781. | 381.9 | 0.65 | 1.00 | 1.00 | 4.60 |
| 88. | 21.3 | 284.2 | | 17.7 | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 22 | -28.0 | 0.499 | -9.000 | -9.000 | -999. | 812. | 402.5 | 0.65 | 1.00 | 1.00 | 4.70 |
| 91. | 21.3 | 284.9 | | 17.7 | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 23 | -36.1 | 0.645 | -9.000 | -9.000 | -999. | 1191. | 673.0 | 0.65 | 1.00 | 1.00 | 5.90 |
| 82. | 21.3 | 285.4 | | 17.7 | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 24 | -35.3 | 0.633 | -9.000 | -9.000 | -999. | 1160. | 649.7 | 0.65 | 1.00 | 1.00 | 5.80 |
| 84. | 21.3 | 285.9 | | 17.7 | | | | | | | | | | | |

First hour of profile data

| YR | MO | DY | HR | HEIGHT | F | WDIR | WSPD | AMB_TMP | sigmaA | sigmaW | sigmaV |
|----|----|----|----|--------|---|-------|--------|---------|--------|--------|--------|
| 06 | 01 | 01 | 01 | 17.7 | 0 | -999. | -99.00 | 286.5 | 99.0 | -99.00 | -99.00 |
| 06 | 01 | 01 | 01 | 21.3 | 1 | 347. | 0.70 | -999.0 | 99.0 | -99.00 | -99.00 |

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

*** AERMOD - VERSION 09292 *** *** Elysian

*** 11/22/10

*** Aluminum NO2 Mitigated

*** 17:44:03

PAGE 8

**MODELOPTs: RegDFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
SOURCE GROUP: SRCGP1 ***

INCLUDING SOURCE(S): PAREA3 , PAREA4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF NOX IN PPM

**

| CONC | X-COORD (M) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) |
|------|-------------|-------------|------|------------|-------------|-------------|
| | | | | | | |

Aluminum Cover NO2 Mitigated

| | | | | | | |
|---------|-------------------------|------------|---------|------------|-----------|------------|
| 0.02289 | 386476.85 (06110221) | 3771139.46 | 0.02327 | (06110221) | 386470.44 | 3771149.72 |
| 0.02132 | 386460.18 (07082906) | 3771159.97 | 0.02207 | (06110221) | 386449.29 | 3771172.79 |
| 0.02014 | 386440.31 (07082906) | 3771184.33 | 0.02063 | (07082906) | 386434.54 | 3771197.79 |
| 0.01782 | 386405.05 (07110406) | 3771244.59 | 0.01766 | (07110406) | 386409.54 | 3771235.61 |
| 0.01867 | 386416.59 (07082906) | 3771223.43 | 0.01828 | (06091823) | 386421.08 | 3771217.02 |
| 0.01047 | 386426.21 (07120322) | 3771209.97 | 0.01928 | (07082906) | 386274.28 | 3771299.72 |
| 0.01107 | 386278.77 (07110406) | 3771290.10 | 0.01069 | (07110406) | 386287.75 | 3771280.49 |
| 0.01209 | 386296.08 (07110406) | 3771269.59 | 0.01160 | (07110406) | 386303.13 | 3771259.33 |
| 0.01399 | 386340.31 (07110406) | 3771210.61 | 0.01447 | (07110406) | 386331.34 | 3771222.15 |
| 0.01272 | 386323.00 (07110406) | 3771233.69 | 0.01345 | (07110406) | 386312.75 | 3771248.43 |
| 0.01609 | 386415.31 (06091823) | 3771092.02 | 0.01828 | (07082906) | 386380.05 | 3771051.00 |
| 0.01589 | 386392.23 (06091823) | 3771050.36 | 0.01660 | (07082906) | 386374.29 | 3771063.18 |
| 0.01853 | 386402.49 (07082906) | 3771098.43 | 0.01739 | (07082906) | 386419.80 | 3771082.41 |
| 0.00947 | 386163.39 (07050824) | 3771763.82 | 0.01060 | (07061204) | 386081.33 | 3771480.49 |
| 0.01080 | 386103.77 (06083124) | 3771527.92 | 0.00918 | (07050824) | 386120.44 | 3771576.00 |
| 0.01188 | 386135.82 (06030702) | 3771613.82 | 0.01101 | (06083124) | 386146.72 | 3771651.64 |
| 0.01059 | 386156.33 (07061204) | 3771690.75 | 0.01176 | (06030702) | 386164.67 | 3771730.49 |
| 0.06417 | 386716.60 (07071406) | 3772090.11 | 0.05692 | (07063006) | 386705.70 | 3772082.42 |
| 0.06975 | 386714.67 (07071406) | 3772074.72 | 0.06860 | (07071406) | 386723.00 | 3772061.90 |
| 0.08218 | 386731.99 (07030522) | 3772036.90 | 0.08691 | (07030522) | 386728.13 | 3772051.01 |
| 0.05428 | 386737.11 (07063006) | 3772022.15 | 0.08397 | (06111820) | 386699.29 | 3772099.08 |
| 0.05397 | 386690.31 (07020104) | 3772107.42 | 0.05298 | (07020104) | 386682.62 | 3772113.83 |
| 0.05439 | 386674.29 (07020103) | 3772123.44 | 0.05407 | (07020104) | 386664.67 | 3772134.34 |
| 0.08591 | 386654.42 (07070805) | 3772145.24 | 0.05469 | (07020103) | 386605.70 | 3772127.29 |
| 0.09227 | 386590.95 (06122919) | 3772133.70 | 0.09421 | (06122919) | 386579.42 | 3772139.47 |
| 0.06021 | 386560.18 (06122919) | 3772147.16 | 0.07570 | (06122919) | 386545.44 | 3772154.85 |
| 0.05609 | 386533.26 (06122919) | 3772162.54 | 0.04990 | (06122919) | 386542.88 | 3772179.85 |
| 0.04570 | 386553.13 (07121620) | 3772195.88 | 0.04530 | (07121620) | 386568.52 | 3772208.70 |
| 0.05100 | 386581.98 (07121620) | 3772192.67 | 0.05041 | (07121620) | 386595.44 | 3772181.13 |
| 0.05835 | 386609.54 (07020103) | 3772168.95 | 0.05275 | (07111522) | 386624.29 | 3772152.29 |
| 0.05352 | 386619.16 (07020103) | 3772140.11 | 0.06631 | (07081406) | 386640.31 | 3772163.83 |
| 0.04519 | 386653.77 (07020104) | 3772174.72 | 0.04909 | (07020104) | 386665.95 | 3772186.26 |
| 0.03888 | 386677.49 (07082624) | 3772197.80 | 0.04117 | (07020104) | 386688.39 | 3772208.70 |
| 0.02307 | 386701.21 (07061204) | 3772222.16 | 0.03662 | (07082624) | 386448.64 | 3772217.67 |

Aluminum Cover NO2 Mitigated

| | | | | | | |
|---------|-------------------------|------------|---------|------------|-----------|------------|
| 0.02578 | 386456.34 (07061204) | 3772212.55 | 0.02423 | (07061204) | 386465.31 | 3772206.13 |
| 0.02907 | 386474.29 (07061204) | 3772200.37 | 0.02742 | (07061204) | 386481.34 | 3772194.60 |
| 0.03237 | 386489.03 (07061204) | 3772190.11 | 0.02963 | (07061204) | 386499.29 | 3772183.06 |
| 0.03772 | 386507.62 (07061204) | 3772177.93 | 0.03478 | (07041701) | 386514.67 | 3772171.52 |
| 0.03951 | 386576.85 (07121620) | 3772219.60 | 0.03885 | (07121620) | 386586.47 | 3772209.34 |
| 0.04521 | 386597.36 (07111522) | 3772197.80 | 0.04153 | (07081406) | 386606.98 | 3772187.54 |

*** AERMOD - VERSION 09292 ***
 *** 11/22/10
 *** 17:44:03

*** Elysian
 *** Aluminum NO2 Mitigated

PAGE 9

**MODELOPTs: RegDFAULT CONC

ELEV
 NODRYDPLT NOWETDPLT

SOURCE GROUP: SRCGP1 ***
 *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 INCLUDING SOURCE(S): PAREA3 , PAREA4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

| | | ** CONC OF NOX | | IN PPM | | |
|---------|---------------------------|----------------|---------|------------|-------------|-------------|
| CONC | X-COORD (M) (YYMMDDHH) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) |
| 0.08627 | 386620.44 (06110320) | 3772178.57 | 0.04967 | (07020103) | 386742.87 | 3772003.56 |
| 0.01712 | 386386.30 (06091823) | 3771087.29 | 0.01655 | (06091823) | 386399.28 | 3771081.52 |
| 0.00206 | 386409.38 (07101501) | 3771067.10 | 0.01777 | (07082906) | 385296.78 | 3773131.99 |
| 0.00204 | 385287.93 (07101501) | 3773147.05 | 0.00205 | (07101501) | 385283.50 | 3773159.45 |
| 0.00286 | 385576.69 (07121620) | 3773089.48 | 0.00277 | (07121620) | 385597.95 | 3773060.25 |
| 0.00298 | 385609.46 (07121620) | 3773037.22 | 0.00290 | (07121620) | 385629.84 | 3772997.36 |
| 0.00335 | 385654.64 (07121620) | 3772953.07 | 0.00309 | (07121620) | 385706.01 | 3772876.89 |
| 0.00409 | 385752.07 (07121620) | 3772808.69 | 0.00362 | (07121620) | 385816.74 | 3772724.54 |
| 0.00507 | 385886.71 (07121620) | 3772645.70 | 0.00463 | (07121620) | 385952.26 | 3772579.27 |
| 0.00634 | 386020.46 (07061204) | 3772519.04 | 0.00539 | (07061204) | 386093.98 | 3772463.23 |
| 0.00952 | 386169.27 (07061204) | 3772410.97 | 0.00763 | (07061204) | 386248.11 | 3772359.60 |
| 0.01760 | 386328.71 (07061204) | 3772309.11 | 0.01240 | (07061204) | 386407.55 | 3772253.30 |
| 0.01271 | 387116.28 (06062804) | 3772187.40 | 0.01272 | (07070102) | 387141.00 | 3772141.51 |
| 0.01075 | 387201.01 (07070102) | 3772180.34 | 0.00985 | (06062804) | 387155.12 | 3772229.77 |
| 0.01160 | 386943.29 (07010320) | 3772540.45 | 0.01132 | (07010320) | 386925.64 | 3772582.82 |
| 0.01678 | 386526.69 (06090305) | 3770944.68 | 0.01954 | (06090305) | 386466.67 | 3770937.61 |
| 0.01649 | 386537.28 (06090305) | 3770884.66 | 0.01670 | (06090305) | 386480.80 | 3770881.13 |
| 0.00395 | 387374.01 (07032307) | 3771597.81 | 0.00739 | (06062804) | 384880.19 | 3771187.72 |

Aluminum Cover NO2 Mitigated

```

384901.45 3771161.15 0.00381 (07081506) 384909.41 3771118.65
0.00410 (07081506)
384912.07 3771078.80 0.00410 (07081506) 384920.04 3771052.24
0.00397 (07081506)
*** AERMOD - VERSION 09292 *** *** Elysian
*** 11/22/10 ***
*** Aluminum NO2 Mitigated
*** 17:44:03

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PAGE 10

**MODELOPTs: RegDFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

SOURCE GROUP: ALL *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
INCLUDING SOURCE(S): PAREA3 , PAREA4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

| | | ** CONC OF NOX | | IN PPM | |
|---------|---------------------------|----------------|---------|------------|----------------------------|
| CONC | X-COORD (M) (YYMMDDHH) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) Y-COORD (M) |
| 0.02289 | 386476.85 | 3771139.46 | 0.02327 | (06110221) | 386470.44 3771149.72 |
| | (06110221) | | | | |
| 0.02132 | 386460.18 | 3771159.97 | 0.02207 | (06110221) | 386449.29 3771172.79 |
| | (07082906) | | | | |
| 0.02014 | 386440.31 | 3771184.33 | 0.02063 | (07082906) | 386434.54 3771197.79 |
| | (07082906) | | | | |
| 0.01782 | 386405.05 | 3771244.59 | 0.01766 | (07110406) | 386409.54 3771235.61 |
| | (07110406) | | | | |
| 0.01867 | 386416.59 | 3771223.43 | 0.01828 | (06091823) | 386421.08 3771217.02 |
| | (07082906) | | | | |
| 0.01047 | 386426.21 | 3771209.97 | 0.01928 | (07082906) | 386274.28 3771299.72 |
| | (07120322) | | | | |
| 0.01107 | 386278.77 | 3771290.10 | 0.01069 | (07110406) | 386287.75 3771280.49 |
| | (07110406) | | | | |
| 0.01209 | 386296.08 | 3771269.59 | 0.01160 | (07110406) | 386303.13 3771259.33 |
| | (07110406) | | | | |
| 0.01399 | 386340.31 | 3771210.61 | 0.01447 | (07110406) | 386331.34 3771222.15 |
| | (07110406) | | | | |
| 0.01272 | 386323.00 | 3771233.69 | 0.01345 | (07110406) | 386312.75 3771248.43 |
| | (07110406) | | | | |
| 0.01609 | 386415.31 | 3771092.02 | 0.01828 | (07082906) | 386380.05 3771051.00 |
| | (06091823) | | | | |
| 0.01589 | 386392.23 | 3771050.36 | 0.01660 | (07082906) | 386374.29 3771063.18 |
| | (06091823) | | | | |
| 0.01853 | 386402.49 | 3771098.43 | 0.01739 | (07082906) | 386419.80 3771082.41 |
| | (07082906) | | | | |
| 0.00947 | 386163.39 | 3771763.82 | 0.01060 | (07061204) | 386081.33 3771480.49 |
| | (07050824) | | | | |
| 0.01080 | 386103.77 | 3771527.92 | 0.00918 | (07050824) | 386120.44 3771576.00 |
| | (06083124) | | | | |
| 0.01188 | 386135.82 | 3771613.82 | 0.01101 | (06083124) | 386146.72 3771651.64 |
| | (06030702) | | | | |
| 0.01059 | 386156.33 | 3771690.75 | 0.01176 | (06030702) | 386164.67 3771730.49 |
| | (07061204) | | | | |
| 0.06417 | 386716.60 | 3772090.11 | 0.05692 | (07063006) | 386705.70 3772082.42 |
| | (07071406) | | | | |
| 0.06975 | 386714.67 | 3772074.72 | 0.06860 | (07071406) | 386723.00 3772061.90 |
| | (07071406) | | | | |
| 0.08218 | 386731.99 | 3772036.90 | 0.08691 | (07030522) | 386728.13 3772051.01 |
| | (07030522) | | | | |
| 0.05428 | 386737.11 | 3772022.15 | 0.08397 | (06111820) | 386699.29 3772099.08 |
| | (07063006) | | | | |
| 0.05397 | 386690.31 | 3772107.42 | 0.05298 | (07020104) | 386682.62 3772113.83 |
| | (07020104) | | | | |

Aluminum Cover NO2 Mitigated

| | | | | | | |
|---------|-------------------------|------------|---------|------------|-----------|------------|
| 0.05439 | 386674.29 (07020103) | 3772123.44 | 0.05407 | (07020104) | 386664.67 | 3772134.34 |
| 0.08591 | 386654.42 (07070805) | 3772145.24 | 0.05469 | (07020103) | 386605.70 | 3772127.29 |
| 0.09227 | 386590.95 (06122919) | 3772133.70 | 0.09421 | (06122919) | 386579.42 | 3772139.47 |
| 0.06021 | 386560.18 (06122919) | 3772147.16 | 0.07570 | (06122919) | 386545.44 | 3772154.85 |
| 0.05609 | 386533.26 (06122919) | 3772162.54 | 0.04990 | (06122919) | 386542.88 | 3772179.85 |
| 0.04570 | 386553.13 (07121620) | 3772195.88 | 0.04530 | (07121620) | 386568.52 | 3772208.70 |
| 0.05100 | 386581.98 (07121620) | 3772192.67 | 0.05041 | (07121620) | 386595.44 | 3772181.13 |
| 0.05835 | 386609.54 (07020103) | 3772168.95 | 0.05275 | (07111522) | 386624.29 | 3772152.29 |
| 0.05352 | 386619.16 (07020103) | 3772140.11 | 0.06631 | (07081406) | 386640.31 | 3772163.83 |
| 0.04519 | 386653.77 (07020104) | 3772174.72 | 0.04909 | (07020104) | 386665.95 | 3772186.26 |
| 0.03888 | 386677.49 (07082624) | 3772197.80 | 0.04117 | (07020104) | 386688.39 | 3772208.70 |
| 0.02307 | 386701.21 (07061204) | 3772222.16 | 0.03662 | (07082624) | 386448.64 | 3772217.67 |
| 0.02578 | 386456.34 (07061204) | 3772212.55 | 0.02423 | (07061204) | 386465.31 | 3772206.13 |
| 0.02907 | 386474.29 (07061204) | 3772200.37 | 0.02742 | (07061204) | 386481.34 | 3772194.60 |
| 0.03237 | 386489.03 (07061204) | 3772190.11 | 0.02963 | (07061204) | 386499.29 | 3772183.06 |
| 0.03772 | 386507.62 (07061204) | 3772177.93 | 0.03478 | (07041701) | 386514.67 | 3772171.52 |
| 0.03951 | 386576.85 (07121620) | 3772219.60 | 0.03885 | (07121620) | 386586.47 | 3772209.34 |
| 0.04521 | 386597.36 (07111522) | 3772197.80 | 0.04153 | (07081406) | 386606.98 | 3772187.54 |

*** AERMOD - VERSION 09292 *** *** Elysian
 *** 11/22/10
 *** 17:44:03 *** Aluminum NO2 Mitigated

PAGE 11

**MODELOPTs: RegDFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

SOURCE GROUP: ALL *** *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 INCLUDING SOURCE(S): PAREA3 , PAREA4 ,
 *** DISCRETE CARTESIAN RECEPTOR POINTS ***

| | | ** CONC OF NOX | | IN PPM | |
|---------|---------------------------|----------------|---------|------------|----------------------------|
| CONC | X-COORD (M) (YYMMDDHH) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) Y-COORD (M) |
| 0.08627 | 386620.44 (06110320) | 3772178.57 | 0.04967 | (07020103) | 386742.87 3772003.56 |
| 0.01712 | 386386.30 (06091823) | 3771087.29 | 0.01655 | (06091823) | 386399.28 3771081.52 |
| 0.00206 | 386409.38 (07101501) | 3771067.10 | 0.01777 | (07082906) | 385296.78 3773131.99 |
| 0.00204 | 385287.93 (07101501) | 3773147.05 | 0.00205 | (07101501) | 385283.50 3773159.45 |
| 0.00286 | 385576.69 (07121620) | 3773089.48 | 0.00277 | (07121620) | 385597.95 3773060.25 |
| 0.00298 | 385609.46 (07121620) | 3773037.22 | 0.00290 | (07121620) | 385629.84 3772997.36 |

Aluminum Cover NO2 Mitigated

| | | | | | | |
|---------|-------------------------|------------|---------|------------|-----------|------------|
| 0.00335 | 385654.64 (07121620) | 3772953.07 | 0.00309 | (07121620) | 385706.01 | 3772876.89 |
| 0.00409 | 385752.07 (07121620) | 3772808.69 | 0.00362 | (07121620) | 385816.74 | 3772724.54 |
| 0.00507 | 385886.71 (07121620) | 3772645.70 | 0.00463 | (07121620) | 385952.26 | 3772579.27 |
| 0.00634 | 386020.46 (07061204) | 3772519.04 | 0.00539 | (07061204) | 386093.98 | 3772463.23 |
| 0.00952 | 386169.27 (07061204) | 3772410.97 | 0.00763 | (07061204) | 386248.11 | 3772359.60 |
| 0.01760 | 386328.71 (07061204) | 3772309.11 | 0.01240 | (07061204) | 386407.55 | 3772253.30 |
| 0.01271 | 387116.28 (06062804) | 3772187.40 | 0.01272 | (07070102) | 387141.00 | 3772141.51 |
| 0.01075 | 387201.01 (07070102) | 3772180.34 | 0.00985 | (06062804) | 387155.12 | 3772229.77 |
| 0.01160 | 386943.29 (07010320) | 3772540.45 | 0.01132 | (07010320) | 386925.64 | 3772582.82 |
| 0.01678 | 386526.69 (06090305) | 3770944.68 | 0.01954 | (06090305) | 386466.67 | 3770937.61 |
| 0.01649 | 386537.28 (06090305) | 3770884.66 | 0.01670 | (06090305) | 386480.80 | 3770881.13 |
| 0.00395 | 387374.01 (07032307) | 3771597.81 | 0.00739 | (06062804) | 384880.19 | 3771187.72 |
| 0.00410 | 384901.45 (07081506) | 3771161.15 | 0.00381 | (07081506) | 384909.41 | 3771118.65 |
| 0.00397 | 384912.07 (07081506) | 3771078.80 | 0.00410 | (07081506) | 384920.04 | 3771052.24 |

*** AERMOD - VERSION 09292 *** *** Elysian
 *** 11/22/10 *** Aluminum NO2 Mitigated
 *** 17:44:03

PAGE 12

**MODELOPTs: RegDFAULT CONC

ELEV
 NODRYDPLT NOWETDPLT

*** THE SUMMARY OF HIGHEST 1-HR RESULTS ***

** CONC OF NOX IN PPM

**

| NETWORK | GROUP ID | ZELEV, ZHILL, ZFLAG) | OF TYPE | AVERAGE CONC | DATE | RECEPTOR | (XR, YR, |
|---------|----------|----------------------|---------|--------------|-------------------|------------|-------------|
| | | | | GRID-ID | (YYMMDDHH) | | |
| SRCGP1 | HIGH | 1ST HIGH VALUE IS | | 0.09421 | ON 06122919: AT (| 386590.95, | 3772133.70, |
| 96.54, | 182.00, | 0.00) DC | | | | | |
| ALL | HIGH | 1ST HIGH VALUE IS | | 0.09421 | ON 06122919: AT (| 386590.95, | 3772133.70, |
| 96.54, | 182.00, | 0.00) DC | | | | | |

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

*** AERMOD - VERSION 09292 *** *** Elysian
 *** 11/22/10 *** Aluminum NO2 Mitigated
 *** 17:44:03

PAGE 13

**MODELOPTs: RegDFAULT CONC

ELEV
 NODRYDPLT NOWETDPLT

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

Aluminum Cover NO2 Mitigated

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

A Total of 0 Fatal Error Message(s)
A Total of 0 Warning Message(s)
A Total of 113 Informational Message(s)

A Total of 17520 Hours Were Processed

A Total of 0 Calm Hours Identified

A Total of 113 Missing Hours Identified (0.64 Percent)

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

***** WARNING MESSAGES *****
*** NONE ***

*** AERMOD Finishes Successfully ***

Aluminum Cover CO Mitigated

```
**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 6.7.1
** Lakes Environmental Software Inc.
** Date: 11/22/2010
** File: C:\Documents and Settings\jbailey\Desktop\Elysian Park AerMod\elysian\A_COM.ADI
**
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**
CO STARTING
TITLEONE Elysian
TITLETWO Aluminum CO Mitigated
MODELOPT DFAULT CONC NODRYDPLT NOWETDPLT
AVERTIME 1 8
URBANOPT 9862049 LA
POLLUTID CO
RUNORNOT RUN
CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
LOCATION PAREA3 AREAPOLY 386606.494 3771295.572 139.670
** DESCRSRC Reservoir
LOCATION PAREA4 AREAPOLY 386598.189 3772118.131 96.350
** DESCRSRC Caltrans
** Source Parameters **
SRCPARAM PAREA3 0.000029779 5.000 18
AREAVERT PAREA3 386606.494 3771295.572 386560.430 3771386.706
AREAVERT PAREA3 386502.641 3771467.538 386454.064 3771523.011
AREAVERT PAREA3 386432.288 3771547.577 386455.739 3771575.313
AREAVERT PAREA3 386485.890 3771583.238 386543.680 3771557.879
AREAVERT PAREA3 386593.931 3771507.954 386619.057 3771483.387
AREAVERT PAREA3 386650.046 3771442.179 386660.096 3771427.914
AREAVERT PAREA3 386676.847 3771408.103 386688.572 3771388.291
AREAVERT PAREA3 386676.847 3771361.347 386655.909 3771323.308
AREAVERT PAREA3 386640.833 3771309.044 386614.032 3771295.572
SRCPARAM PAREA4 0.000105883 5.000 14
AREAVERT PAREA4 386598.189 3772118.131 386582.499 3772090.138
AREAVERT PAREA4 386633.724 3772053.797 386639.492 3772051.587
AREAVERT PAREA4 386653.798 3772051.341 386669.719 3772039.800
AREAVERT PAREA4 386684.025 3772011.316 386695.331 3771993.391
AREAVERT PAREA4 386697.639 3771989.462 386718.867 3771999.775
AREAVERT PAREA4 386698.331 3772048.886 386685.179 3772065.583
AREAVERT PAREA4 386673.872 3772076.387 386653.567 3772089.647
URBANSRC PAREA3
URBANSRC PAREA4
CONCUNIT 873.2 GRAMS/SEC PPM
SRCGROUP SRCGP1 PAREA4 PAREA3
SRCGROUP ALL
SO FINISHED
**
*****
** AERMOD Receptor Pathway
*****
**
**
RE STARTING
```

Aluminum Cover CO Mitigated

```
INCLUDED A_COM.rou
RE FINISHED
**
*****
** AERMOD Meteorology Pathway
*****
**
**
ME STARTING
SURFFILE "L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\cela.SFC"
PROFFILE "L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\cela.PFL"
SURFDATA 0 2006
UAIRDATA 3190 2006
PROFBASE 10 METERS
ME FINISHED
**
*****
** AERMOD Output Pathway
*****
**
**
OU STARTING
RECTABLE ALLAVE 1ST
RECTABLE 1 1ST
RECTABLE 8 1ST
** Auto-Generated Plotfiles
PLOTFILE 1 ALL 1ST A_COM.AD\01H1GALL.PLT
PLOTFILE 8 ALL 1ST A_COM.AD\08H1GALL.PLT
PLOTFILE 1 SRCGP1 1ST A_COM.AD\01H1G001.PLT
PLOTFILE 8 SRCGP1 1ST A_COM.AD\08H1G001.PLT
OU FINISHED

*****
*** SETUP Finishes Successfully ***
*****

*** AERMOD - VERSION 09292 ***      *** Elysian
***      11/22/10
***                                     *** Aluminum CO Mitigated
***      17:33:57

PAGE 1
**MODELOPTs:  RegDFault CONC
                                                    ELEV
                                                    NODRYDPLT NOWETDPLT

***      MODEL SETUP OPTIONS SUMMARY      ***
-----

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

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

**Model Uses URBAN Dispersion Algorithm for the SBL for      2 Source(s),
for Total of      1 Urban Area(s):
Urban Population = 9862049.0 ; Urban Roughness Length = 1.000 m

**Model Uses Regulatory DEFAULT Options:
1. Stack-tip Downwash.
2. Model Accounts for ELEVated Terrain Effects.
3. Use Calms Processing Routine.
4. Use Missing Data Processing Routine.
5. No Exponential Decay for URBAN/Non-SO2.
6. Urban Roughness Length of 1.0 Meter Assumed.

**Model Assumes No FLAGPOLE Receptor Heights.
```

Aluminum Cover CO Mitigated

**Model Calculates 2 Short Term Average(s) of: 1-HR 8-HR
 **This Run Includes: 2 Source(s); 2 Source Group(s); and 120 Receptor(s)
 **The Model Assumes A Pollutant Type of: CO
 **Model Set To Continue RUNNING After the Setup Testing.
 **Output Options Selected:
 Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
 Model Outputs External File(s) of High Values for Plotting (PLOTFILE 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) = 10.00 ; Decay Coef. = 0.000
 ; Rot. Angle = 0.0
 Emission Units = GRAMS/SEC ; Emission Rate
 Unit Factor = 873.20
 Output Units = PPM
 **Approximate Storage Requirements of Model = 3.5 MB of RAM.
 *** AERMOD - VERSION 09292 *** *** Elysian
 *** 11/22/10
 *** Aluminum CO Mitigated
 *** 17:33:57

PAGE 2

**MODELOPTs: RegDEFAULT CONC
 ELEV
 NODRYDPLT NOWETDPLT

*** AREAPOLY SOURCE DATA ***

| URBAN SOURCE | EMISSION RATE | NUMBER | EMISSION RATE | LOCATION OF AREA | BASE | RELEASE | NUMBER | INIT. |
|---------------|--------------------|----------|---------------|------------------|----------|----------|----------|----------|
| SOURCE SCALAR | PART. (USER UNITS) | X | Y | ELEV. | HEIGHT | OF | VERTS. | SZ |
| ID | CATS. /METER**2) | (METERS) | (METERS) | (METERS) | (METERS) | (METERS) | (METERS) | (METERS) |

| | | | | | | | | |
|--------|---|-------------|----------|-----------|-------|------|----|------|
| PAREA3 | 0 | 0.29779E-04 | 386606.5 | 3771295.6 | 139.7 | 5.00 | 18 | 0.00 |
| YES | | | | | | | | |
| PAREA4 | 0 | 0.10588E-03 | 386598.2 | 3772118.1 | 96.3 | 5.00 | 14 | 0.00 |
| YES | | | | | | | | |

*** AERMOD - VERSION 09292 *** *** Elysian
 *** 11/22/10
 *** Aluminum CO Mitigated
 *** 17:33:57

PAGE 3

**MODELOPTs: RegDEFAULT CONC
 ELEV
 NODRYDPLT NOWETDPLT

*** SOURCE IDs DEFINING SOURCE GROUPS ***

| GROUP ID | SOURCE IDs |
|----------|-------------------|
| SRCGP1 | PAREA3 , PAREA4 , |
| ALL | PAREA3 , PAREA4 , |

Aluminum Cover CO Mitigated

*** AERMOD - VERSION 09292 ***
 *** 11/22/10
 *** 17:33:57

*** Elysian
 *** Aluminum CO Mitigated

PAGE 4
 **MODELOPTs: RegDFAULT CONC

ELEV
 NODRYDPLT NOWETDPLT

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

| | | | | |
|------------------------|--------|--------|-------|------------------------|
| (386476.8, 3771139.5, | 143.3, | 181.0, | 0.0); | (386470.4, 3771149.7, |
| 144.2, 181.0, 0.0); | | | | |
| (386460.2, 3771160.0, | 145.3, | 181.0, | 0.0); | (386449.3, 3771172.8, |
| 146.6, 181.0, 0.0); | | | | |
| (386440.3, 3771184.3, | 147.6, | 181.0, | 0.0); | (386434.5, 3771197.8, |
| 148.6, 181.0, 0.0); | | | | |
| (386405.0, 3771244.6, | 152.9, | 181.0, | 0.0); | (386409.5, 3771235.6, |
| 151.9, 181.0, 0.0); | | | | |
| (386416.6, 3771223.4, | 150.9, | 181.0, | 0.0); | (386421.1, 3771217.0, |
| 150.3, 181.0, 0.0); | | | | |
| (386426.2, 3771210.0, | 149.6, | 181.0, | 0.0); | (386274.3, 3771299.7, |
| 168.1, 181.0, 0.0); | | | | |
| (386278.8, 3771290.1, | 167.4, | 181.0, | 0.0); | (386287.8, 3771280.5, |
| 166.6, 181.0, 0.0); | | | | |
| (386296.1, 3771269.6, | 164.9, | 181.0, | 0.0); | (386303.1, 3771259.3, |
| 163.5, 181.0, 0.0); | | | | |
| (386340.3, 3771210.6, | 155.9, | 181.0, | 0.0); | (386331.3, 3771222.1, |
| 157.6, 181.0, 0.0); | | | | |
| (386323.0, 3771233.7, | 159.3, | 181.0, | 0.0); | (386312.8, 3771248.4, |
| 161.6, 181.0, 0.0); | | | | |
| (386415.3, 3771092.0, | 143.8, | 181.0, | 0.0); | (386380.0, 3771051.0, |
| 142.9, 164.0, 0.0); | | | | |
| (386392.2, 3771050.4, | 142.2, | 181.0, | 0.0); | (386374.3, 3771063.2, |
| 144.0, 164.0, 0.0); | | | | |
| (386402.5, 3771098.4, | 144.8, | 181.0, | 0.0); | (386419.8, 3771082.4, |
| 142.9, 181.0, 0.0); | | | | |
| (386163.4, 3771763.8, | 182.0, | 182.0, | 0.0); | (386081.3, 3771480.5, |
| 178.0, 178.0, 0.0); | | | | |
| (386103.8, 3771527.9, | 179.8, | 179.8, | 0.0); | (386120.4, 3771576.0, |
| 181.1, 181.1, 0.0); | | | | |
| (386135.8, 3771613.8, | 182.0, | 182.0, | 0.0); | (386146.7, 3771651.6, |
| 182.0, 182.0, 0.0); | | | | |
| (386156.3, 3771690.8, | 182.0, | 182.0, | 0.0); | (386164.7, 3771730.5, |
| 182.0, 182.0, 0.0); | | | | |
| (386716.6, 3772090.1, | 93.4, | 182.0, | 0.0); | (386705.7, 3772082.4, |
| 93.0, 182.0, 0.0); | | | | |
| (386714.7, 3772074.7, | 93.3, | 182.0, | 0.0); | (386723.0, 3772061.9, |
| 93.7, 182.0, 0.0); | | | | |
| (386732.0, 3772036.9, | 94.0, | 182.0, | 0.0); | (386728.1, 3772051.0, |
| 93.9, 182.0, 0.0); | | | | |
| (386737.1, 3772022.1, | 94.2, | 182.0, | 0.0); | (386699.3, 3772099.1, |
| 92.7, 182.0, 0.0); | | | | |
| (386690.3, 3772107.4, | 92.4, | 182.0, | 0.0); | (386682.6, 3772113.8, |
| 92.1, 182.0, 0.0); | | | | |
| (386674.3, 3772123.4, | 92.3, | 182.0, | 0.0); | (386664.7, 3772134.3, |
| 92.8, 182.0, 0.0); | | | | |
| (386654.4, 3772145.2, | 93.1, | 182.0, | 0.0); | (386605.7, 3772127.3, |
| 95.6, 182.0, 0.0); | | | | |
| (386591.0, 3772133.7, | 96.5, | 182.0, | 0.0); | (386579.4, 3772139.5, |
| 97.2, 182.0, 0.0); | | | | |
| (386560.2, 3772147.2, | 98.4, | 182.0, | 0.0); | (386545.4, 3772154.8, |
| 99.0, 182.0, 0.0); | | | | |
| (386533.3, 3772162.5, | 99.5, | 182.0, | 0.0); | (386542.9, 3772179.8, |
| 98.2, 182.0, 0.0); | | | | |
| (386553.1, 3772195.9, | 96.9, | 182.0, | 0.0); | (386568.5, 3772208.7, |
| 95.5, 182.0, 0.0); | | | | |
| (386582.0, 3772192.7, | 95.3, | 182.0, | 0.0); | (386595.4, 3772181.1, |
| 94.8, 182.0, 0.0); | | | | |

Aluminum Cover CO Mitigated

| | | | | |
|--------------------------------|---------------------------|--------|-------|------------------------|
| (386609.5, 3772168.9, | 94.5, | 182.0, | 0.0); | (386624.3, 3772152.3, |
| 94.3, 182.0, 0.0); | | | | |
| (386619.2, 3772140.1, | 94.7, | 182.0, | 0.0); | (386640.3, 3772163.8, |
| 93.5, 182.0, 0.0); | | | | |
| (386653.8, 3772174.7, | 93.0, | 182.0, | 0.0); | (386666.0, 3772186.3, |
| 92.7, 182.0, 0.0); | | | | |
| (386677.5, 3772197.8, | 92.5, | 182.0, | 0.0); | (386688.4, 3772208.7, |
| 92.8, 182.0, 0.0); | | | | |
| (386701.2, 3772222.2, | 93.5, | 182.0, | 0.0); | (386448.6, 3772217.7, |
| 102.7, 182.0, 0.0); | | | | |
| (386456.3, 3772212.5, | 102.4, | 182.0, | 0.0); | (386465.3, 3772206.1, |
| 102.1, 182.0, 0.0); | | | | |
| (386474.3, 3772200.4, | 101.8, | 182.0, | 0.0); | (386481.3, 3772194.6, |
| 101.5, 182.0, 0.0); | | | | |
| (386489.0, 3772190.1, | 101.2, | 182.0, | 0.0); | (386499.3, 3772183.1, |
| 100.9, 182.0, 0.0); | | | | |
| (386507.6, 3772177.9, | 100.5, | 182.0, | 0.0); | (386514.7, 3772171.5, |
| 100.3, 182.0, 0.0); | | | | |
| (386576.8, 3772219.6, | 94.6, | 182.0, | 0.0); | (386586.5, 3772209.3, |
| 94.4, 182.0, 0.0); | | | | |
| (386597.4, 3772197.8, | 94.2, | 182.0, | 0.0); | (386607.0, 3772187.5, |
| 94.0, 182.0, 0.0); | | | | |
| (386620.4, 3772178.6, | 93.9, | 182.0, | 0.0); | (386742.9, 3772003.6, |
| 94.5, 182.0, 0.0); | | | | |
| (386386.3, 3771087.3, | 144.9, | 181.0, | 0.0); | (386399.3, 3771081.5, |
| 143.9, 181.0, 0.0); | | | | |
| (386409.4, 3771067.1, | 142.4, | 181.0, | 0.0); | (385296.8, 3773132.0, |
| 117.7, 182.0, 0.0); | | | | |
| (385287.9, 3773147.0, | 117.7, | 182.0, | 0.0); | (385283.5, 3773159.4, |
| 117.2, 182.0, 0.0); | | | | |
| (385576.7, 3773089.5, | 103.9, | 182.0, | 0.0); | (385598.0, 3773060.2, |
| 104.0, 182.0, 0.0); | | | | |
| *** AERMOD - VERSION 09292 *** | *** Elysian | | | |
| *** 11/22/10 | *** Aluminum CO Mitigated | | | |
| *** 17:33:57 | | | | |

PAGE 5

**MODELOPTs: RegDFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

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

| | | | | |
|------------------------|--------|--------|-------|------------------------|
| (385609.5, 3773037.2, | 104.5, | 182.0, | 0.0); | (385629.8, 3772997.4, |
| 105.3, 182.0, 0.0); | | | | |
| (385654.6, 3772953.1, | 106.0, | 182.0, | 0.0); | (385706.0, 3772876.9, |
| 106.7, 182.0, 0.0); | | | | |
| (385752.1, 3772808.7, | 107.3, | 182.0, | 0.0); | (385816.7, 3772724.5, |
| 108.9, 182.0, 0.0); | | | | |
| (385886.7, 3772645.7, | 110.4, | 182.0, | 0.0); | (385952.3, 3772579.3, |
| 111.3, 182.0, 0.0); | | | | |
| (386020.5, 3772519.0, | 111.7, | 182.0, | 0.0); | (386094.0, 3772463.2, |
| 111.1, 182.0, 0.0); | | | | |
| (386169.3, 3772411.0, | 110.4, | 182.0, | 0.0); | (386248.1, 3772359.6, |
| 108.8, 182.0, 0.0); | | | | |
| (386328.7, 3772309.1, | 105.9, | 182.0, | 0.0); | (386407.5, 3772253.3, |
| 103.3, 182.0, 0.0); | | | | |
| (387116.3, 3772187.4, | 108.2, | 182.0, | 0.0); | (387141.0, 3772141.5, |
| 108.9, 108.9, 0.0); | | | | |
| (387201.0, 3772180.3, | 110.6, | 182.0, | 0.0); | (387155.1, 3772229.8, |
| 110.0, 182.0, 0.0); | | | | |
| (386943.3, 3772540.4, | 102.9, | 243.0, | 0.0); | (386925.6, 3772582.8, |
| 102.9, 243.0, 0.0); | | | | |
| (386526.7, 3770944.7, | 129.0, | 131.0, | 0.0); | (386466.7, 3770937.6, |
| 131.1, 131.1, 0.0); | | | | |
| (386537.3, 3770884.7, | 123.8, | 123.8, | 0.0); | (386480.8, 3770881.1, |
| 125.8, 125.8, 0.0); | | | | |
| (387374.0, 3771597.8, | 112.1, | 112.1, | 0.0); | (384880.2, 3771187.7, |
| 166.9, 166.9, 0.0); | | | | |

Aluminum Cover CO Mitigated

| | | | | | | | | | | | | | | | |
|------|------|-------|------|----|-------|-------|--------|--------|-------|-------|---------|------|------|------|------|
| 06 | 01 | 01 | 1 | 02 | -3.0 | 0.086 | -9.000 | -9.000 | -999. | 58. | 19.1 | 0.65 | 1.00 | 1.00 | 1.50 |
| 82. | 21.3 | 286.4 | 17.7 | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 03 | -1.3 | 0.057 | -9.000 | -9.000 | -999. | 31. | 12.7 | 0.65 | 1.00 | 1.00 | 1.00 |
| 66. | 21.3 | 286.4 | 17.7 | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 04 | -1.9 | 0.069 | -9.000 | -9.000 | -999. | 41. | 15.2 | 0.65 | 1.00 | 1.00 | 1.20 |
| 23. | 21.3 | 285.9 | 17.7 | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 05 | -3.5 | 0.080 | -9.000 | -9.000 | -999. | 52. | 13.1 | 0.65 | 1.00 | 1.00 | 1.40 |
| 61. | 21.3 | 285.4 | 17.7 | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 06 | -3.0 | 0.086 | -9.000 | -9.000 | -999. | 58. | 19.0 | 0.65 | 1.00 | 1.00 | 1.50 |
| 83. | 21.3 | 285.4 | 17.7 | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 07 | -6.1 | 0.103 | -9.000 | -9.000 | -999. | 76. | 16.2 | 0.65 | 1.00 | 1.00 | 1.80 |
| 64. | 21.3 | 285.4 | 17.7 | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 08 | -3.3 | 0.080 | -9.000 | -9.000 | -999. | 52. | 14.1 | 0.65 | 1.00 | 0.55 | 1.40 |
| 46. | 21.3 | 285.4 | 17.7 | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 09 | 26.6 | 0.304 | 0.644 | 0.005 | 362. | 385. | -95.4 | 0.65 | 1.00 | 0.32 | 2.30 |
| 87. | 21.3 | 286.4 | 17.7 | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 10 | 21.0 | 0.227 | 0.732 | 0.005 | 675. | 250. | -50.2 | 0.65 | 1.00 | 0.24 | 1.60 |
| 76. | 21.3 | 286.4 | 17.7 | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 11 | 35.8 | 0.197 | 0.912 | 0.005 | 766. | 201. | -19.2 | 0.65 | 1.00 | 0.21 | 1.20 |
| 66. | 21.3 | 287.5 | 17.7 | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 12 | 14.9 | 0.281 | 0.686 | 0.005 | 785. | 343. | -135.5 | 0.65 | 1.00 | 0.20 | 2.20 |
| 79. | 21.3 | 287.5 | 17.7 | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 13 | 26.4 | 0.376 | 0.842 | 0.009 | 818. | 530. | -181.6 | 0.65 | 1.00 | 0.20 | 3.00 |
| 76. | 21.3 | 287.5 | 17.7 | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 14 | 39.0 | 0.385 | 0.979 | 0.014 | 867. | 549. | -131.8 | 0.65 | 1.00 | 0.21 | 3.00 |
| 80. | 21.3 | 288.1 | 17.7 | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 15 | 11.4 | 0.277 | 0.653 | 0.014 | 881. | 341. | -168.4 | 0.65 | 1.00 | 0.25 | 2.20 |
| 86. | 21.3 | 287.5 | 17.7 | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 16 | 0.1 | 0.343 | 0.135 | 0.014 | 881. | 462. | -8888.0 | 0.65 | 1.00 | 0.33 | 3.00 |
| 75. | 21.3 | 287.0 | 17.7 | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 17 | -13.7 | 0.266 | -9.000 | -9.000 | -999. | 319. | 125.0 | 0.65 | 1.00 | 0.60 | 2.90 |
| 82. | 21.3 | 286.4 | 17.7 | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 18 | -10.2 | 0.183 | -9.000 | -9.000 | -999. | 183. | 54.5 | 0.65 | 1.00 | 1.00 | 2.50 |
| 101. | 21.3 | 286.4 | 17.7 | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 19 | -16.1 | 0.289 | -9.000 | -9.000 | -999. | 358. | 135.6 | 0.65 | 1.00 | 1.00 | 3.10 |
| 97. | 21.3 | 285.9 | 17.7 | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 20 | -25.2 | 0.450 | -9.000 | -9.000 | -999. | 693. | 326.1 | 0.65 | 1.00 | 1.00 | 4.30 |
| 92. | 21.3 | 284.9 | 17.7 | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 21 | -27.3 | 0.487 | -9.000 | -9.000 | -999. | 781. | 381.9 | 0.65 | 1.00 | 1.00 | 4.60 |
| 88. | 21.3 | 284.2 | 17.7 | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 22 | -28.0 | 0.499 | -9.000 | -9.000 | -999. | 812. | 402.5 | 0.65 | 1.00 | 1.00 | 4.70 |
| 91. | 21.3 | 284.9 | 17.7 | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 23 | -36.1 | 0.645 | -9.000 | -9.000 | -999. | 1191. | 673.0 | 0.65 | 1.00 | 1.00 | 5.90 |
| 82. | 21.3 | 285.4 | 17.7 | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 24 | -35.3 | 0.633 | -9.000 | -9.000 | -999. | 1160. | 649.7 | 0.65 | 1.00 | 1.00 | 5.80 |
| 84. | 21.3 | 285.9 | 17.7 | | | | | | | | | | | | |

First hour of profile data

| YR | MO | DY | HR | HEIGHT | F | WDIR | WSPD | AMB_TMP | sigmaA | sigmaW | sigmaV |
|----|----|----|----|--------|---|-------|--------|---------|--------|--------|--------|
| 06 | 01 | 01 | 01 | 17.7 | 0 | -999. | -99.00 | 286.5 | 99.0 | -99.00 | -99.00 |
| 06 | 01 | 01 | 01 | 21.3 | 1 | 347. | 0.70 | -999.0 | 99.0 | -99.00 | -99.00 |

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

*** AERMOD - VERSION 09292 *** *** Elysian

*** 11/22/10

*** Aluminum CO Mitigated

*** 17:33:57

PAGE 8

**MODELOPTs: RegDFault CONC

ELEV
NODRYDPLT NOWETDPLT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
SOURCE GROUP: SRCGP1 ***
INCLUDING SOURCE(S): PAREA3 , PAREA4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF CO IN PPM

**

Aluminum Cover CO Mitigated

| CONC | X-COORD (M) (YYMMDDHH) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) |
|---------|---------------------------|-------------|---------|------------|-------------|-------------|
| 0.18081 | 386476.85 (06110221) | 3771139.46 | 0.18361 | (06110221) | 386470.44 | 3771149.72 |
| 0.16848 | 386460.18 (07082906) | 3771159.97 | 0.17462 | (06110221) | 386449.29 | 3771172.79 |
| 0.15963 | 386440.31 (07082906) | 3771184.33 | 0.16328 | (07082906) | 386434.54 | 3771197.79 |
| 0.13941 | 386405.05 (06091823) | 3771244.59 | 0.13727 | (07110406) | 386409.54 | 3771235.61 |
| 0.14842 | 386416.59 (07082906) | 3771223.43 | 0.14414 | (06091823) | 386421.08 | 3771217.02 |
| 0.08141 | 386426.21 (07120322) | 3771209.97 | 0.15308 | (07082906) | 386274.28 | 3771299.72 |
| 0.08604 | 386278.77 (07110406) | 3771290.10 | 0.08310 | (07110406) | 386287.75 | 3771280.49 |
| 0.09395 | 386296.08 (07110406) | 3771269.59 | 0.09017 | (07110406) | 386303.13 | 3771259.33 |
| 0.10871 | 386340.31 (07110406) | 3771210.61 | 0.11245 | (07110406) | 386331.34 | 3771222.15 |
| 0.09884 | 386323.00 (07110406) | 3771233.69 | 0.10451 | (07110406) | 386312.75 | 3771248.43 |
| 0.12657 | 386415.31 (06091823) | 3771092.02 | 0.14489 | (07082906) | 386380.05 | 3771051.00 |
| 0.12522 | 386392.23 (06091823) | 3771050.36 | 0.13186 | (07082906) | 386374.29 | 3771063.18 |
| 0.14672 | 386402.49 (07082906) | 3771098.43 | 0.13814 | (07082906) | 386419.80 | 3771082.41 |
| 0.07358 | 386163.39 (07050824) | 3771763.82 | 0.08239 | (07061204) | 386081.33 | 3771480.49 |
| 0.08392 | 386103.77 (06083124) | 3771527.92 | 0.07137 | (07050824) | 386120.44 | 3771576.00 |
| 0.09232 | 386135.82 (06030702) | 3771613.82 | 0.08554 | (06083124) | 386146.72 | 3771651.64 |
| 0.08231 | 386156.33 (07061204) | 3771690.75 | 0.09142 | (06030702) | 386164.67 | 3771730.49 |
| 0.54926 | 386716.60 (07071406) | 3772090.11 | 0.48716 | (07063006) | 386705.70 | 3772082.42 |
| 0.59699 | 386714.67 (07071406) | 3772074.72 | 0.58712 | (07071406) | 386723.00 | 3772061.90 |
| 0.70335 | 386731.99 (07030522) | 3772036.90 | 0.74385 | (07030522) | 386728.13 | 3772051.01 |
| 0.46462 | 386737.11 (07063006) | 3772022.15 | 0.71872 | (06111820) | 386699.29 | 3772099.08 |
| 0.45583 | 386690.31 (07020104) | 3772107.42 | 0.44758 | (07020104) | 386682.62 | 3772113.83 |
| 0.45960 | 386674.29 (07020103) | 3772123.44 | 0.45710 | (07020103) | 386664.67 | 3772134.34 |
| 0.73534 | 386654.42 (07070805) | 3772145.24 | 0.46198 | (07020103) | 386605.70 | 3772127.29 |
| 0.78973 | 386590.95 (06122919) | 3772133.70 | 0.80633 | (06122919) | 386579.42 | 3772139.47 |
| 0.51538 | 386560.18 (06122919) | 3772147.16 | 0.64796 | (06122919) | 386545.44 | 3772154.85 |
| 0.48008 | 386533.26 (06122919) | 3772162.54 | 0.42708 | (06122919) | 386542.88 | 3772179.85 |
| 0.39117 | 386553.13 (07121620) | 3772195.88 | 0.38775 | (07121620) | 386568.52 | 3772208.70 |
| 0.43654 | 386581.98 (07121620) | 3772192.67 | 0.43148 | (07121620) | 386595.44 | 3772181.13 |
| 0.49269 | 386609.54 (07020103) | 3772168.95 | 0.45020 | (07111522) | 386624.29 | 3772152.29 |
| 0.45171 | 386619.16 (07020103) | 3772140.11 | 0.56745 | (07081406) | 386640.31 | 3772163.83 |
| 0.38064 | 386653.77 (07020104) | 3772174.72 | 0.41402 | (07020103) | 386665.95 | 3772186.26 |
| 0.32723 | 386677.49 (07082624) | 3772197.80 | 0.34654 | (07020104) | 386688.39 | 3772208.70 |

Aluminum Cover CO Mitigated

| | | | | | | |
|---------|-------------------------|------------|---------|------------|-----------|------------|
| 0.19744 | 386701.21 (07061204) | 3772222.16 | 0.30785 | (07082624) | 386448.64 | 3772217.67 |
| 0.22065 | 386456.34 (07061204) | 3772212.55 | 0.20736 | (07061204) | 386465.31 | 3772206.13 |
| 0.24878 | 386474.29 (07061204) | 3772200.37 | 0.23465 | (07061204) | 386481.34 | 3772194.60 |
| 0.27710 | 386489.03 (07061204) | 3772190.11 | 0.25361 | (07061204) | 386499.29 | 3772183.06 |
| 0.32285 | 386507.62 (07061204) | 3772177.93 | 0.29769 | (07041701) | 386514.67 | 3772171.52 |
| 0.33818 | 386576.85 (07121620) | 3772219.60 | 0.33251 | (07121620) | 386586.47 | 3772209.34 |
| 0.38566 | 386597.36 (07111522) | 3772197.80 | 0.35538 | (07081406) | 386606.98 | 3772187.54 |

*** AERMOD - VERSION 09292 ***
 *** 11/22/10
 *** 17:33:57

*** Elysian
 *** Aluminum CO Mitigated

PAGE 9

**MODELOPTs: RegDFAULT CONC

ELEV
 NODRYDPLT NOWETDPLT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: SRCGP1 ***
 INCLUDING SOURCE(S): PAREA3 , PAREA4 ,
 *** DISCRETE CARTESIAN RECEPTOR POINTS ***
 ** CONC OF CO IN PPM

| CONC | X-COORD (M) (YYMMDDHH) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) |
|---------|---------------------------|-------------|---------|------------|-------------|-------------|
| 0.73842 | 386620.44 (06110320) | 3772178.57 | 0.41857 | (07020103) | 386742.87 | 3772003.56 |
| 0.13600 | 386386.30 (07082906) | 3771087.29 | 0.13026 | (06091823) | 386399.28 | 3771081.52 |
| 0.01738 | 386409.38 (07060324) | 3771067.10 | 0.14089 | (07082906) | 385296.78 | 3773131.99 |
| 0.01719 | 385287.93 (07101501) | 3773147.05 | 0.01723 | (07101501) | 385283.50 | 3773159.45 |
| 0.02225 | 385576.69 (07121620) | 3773089.48 | 0.02156 | (07121620) | 385597.95 | 3773060.25 |
| 0.02318 | 385609.46 (07121620) | 3773037.22 | 0.02257 | (07121620) | 385629.84 | 3772997.36 |
| 0.02607 | 385654.64 (07121620) | 3772953.07 | 0.02401 | (07121620) | 385706.01 | 3772876.89 |
| 0.03176 | 385752.07 (07121620) | 3772808.69 | 0.02815 | (07121620) | 385816.74 | 3772724.54 |
| 0.03982 | 385886.71 (07061204) | 3772645.70 | 0.03598 | (07121620) | 385952.26 | 3772579.27 |
| 0.05423 | 386020.46 (07061204) | 3772519.04 | 0.04612 | (07061204) | 386093.98 | 3772463.23 |
| 0.08149 | 386169.27 (07061204) | 3772410.97 | 0.06531 | (07061204) | 386248.11 | 3772359.60 |
| 0.15065 | 386328.71 (07061204) | 3772309.11 | 0.10610 | (07061204) | 386407.55 | 3772253.30 |
| 0.10879 | 387116.28 (06062804) | 3772187.40 | 0.10888 | (07070102) | 387141.00 | 3772141.51 |
| 0.09201 | 387201.01 (07070102) | 3772180.34 | 0.08434 | (06062804) | 387155.12 | 3772229.77 |
| 0.09735 | 386943.29 (07010320) | 3772540.45 | 0.09441 | (07010320) | 386925.64 | 3772582.82 |
| 0.13350 | 386526.69 (06090305) | 3770944.68 | 0.15512 | (06090305) | 386466.67 | 3770937.61 |
| 0.13137 | 386537.28 (06090305) | 3770884.66 | 0.13282 | (06090305) | 386480.80 | 3770881.13 |

Aluminum Cover CO Mitigated

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387374.01 3771597.81 0.05872 (07070124) 384880.19 3771187.72
0.03070 (07032307)
384901.45 3771161.15 0.02965 (07081506) 384909.41 3771118.65
0.03187 (07081506)
384912.07 3771078.80 0.03190 (07081506) 384920.04 3771052.24
0.03089 (07081506)
*** AERMOD - VERSION 09292 *** *** Elysian
*** 11/22/10 ***
*** 17:33:57 *** Aluminum CO Mitigated

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PAGE 10

**MODELOPTs: RegDFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

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*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
SOURCE GROUP: ALL *** INCLUDING SOURCE(S): PAREA3 , PAREA4 ,
*** DISCRETE CARTESIAN RECEPTOR POINTS ***
** CONC OF CO IN PPM

```

| CONC | X-COORD (M) (YYMMDDHH) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) |
|---------|---------------------------|-------------|---------|------------|-------------|-------------|
| 0.18081 | 386476.85 (06110221) | 3771139.46 | 0.18361 | (06110221) | 386470.44 | 3771149.72 |
| 0.16848 | 386460.18 (07082906) | 3771159.97 | 0.17462 | (06110221) | 386449.29 | 3771172.79 |
| 0.15963 | 386440.31 (07082906) | 3771184.33 | 0.16328 | (07082906) | 386434.54 | 3771197.79 |
| 0.13941 | 386405.05 (06091823) | 3771244.59 | 0.13727 | (07110406) | 386409.54 | 3771235.61 |
| 0.14842 | 386416.59 (07082906) | 3771223.43 | 0.14414 | (06091823) | 386421.08 | 3771217.02 |
| 0.08141 | 386426.21 (07120322) | 3771209.97 | 0.15308 | (07082906) | 386274.28 | 3771299.72 |
| 0.08604 | 386278.77 (07110406) | 3771290.10 | 0.08310 | (07110406) | 386287.75 | 3771280.49 |
| 0.09395 | 386296.08 (07110406) | 3771269.59 | 0.09017 | (07110406) | 386303.13 | 3771259.33 |
| 0.10871 | 386340.31 (07110406) | 3771210.61 | 0.11245 | (07110406) | 386331.34 | 3771222.15 |
| 0.09884 | 386323.00 (07110406) | 3771233.69 | 0.10451 | (07110406) | 386312.75 | 3771248.43 |
| 0.12657 | 386415.31 (06091823) | 3771092.02 | 0.14489 | (07082906) | 386380.05 | 3771051.00 |
| 0.12522 | 386392.23 (06091823) | 3771050.36 | 0.13186 | (07082906) | 386374.29 | 3771063.18 |
| 0.14672 | 386402.49 (07082906) | 3771098.43 | 0.13814 | (07082906) | 386419.80 | 3771082.41 |
| 0.07358 | 386163.39 (07050824) | 3771763.82 | 0.08239 | (07061204) | 386081.33 | 3771480.49 |
| 0.08392 | 386103.77 (06083124) | 3771527.92 | 0.07137 | (07050824) | 386120.44 | 3771576.00 |
| 0.09232 | 386135.82 (06030702) | 3771613.82 | 0.08554 | (06083124) | 386146.72 | 3771651.64 |
| 0.08231 | 386156.33 (07061204) | 3771690.75 | 0.09142 | (06030702) | 386164.67 | 3771730.49 |
| 0.54926 | 386716.60 (07071406) | 3772090.11 | 0.48716 | (07063006) | 386705.70 | 3772082.42 |
| 0.59699 | 386714.67 (07071406) | 3772074.72 | 0.58712 | (07071406) | 386723.00 | 3772061.90 |
| 0.70335 | 386731.99 (07030522) | 3772036.90 | 0.74385 | (07030522) | 386728.13 | 3772051.01 |
| 0.46462 | 386737.11 (07063006) | 3772022.15 | 0.71872 | (06111820) | 386699.29 | 3772099.08 |

Aluminum Cover CO Mitigated

| | | | | | | |
|--------------------------------|-------------------------|------------|---------------------------|------------|-----------|------------|
| 0.45583 | 386690.31 (07020104) | 3772107.42 | 0.44758 | (07020104) | 386682.62 | 3772113.83 |
| 0.45960 | 386674.29 (07020103) | 3772123.44 | 0.45710 | (07020103) | 386664.67 | 3772134.34 |
| 0.73534 | 386654.42 (07070805) | 3772145.24 | 0.46198 | (07020103) | 386605.70 | 3772127.29 |
| 0.78973 | 386590.95 (06122919) | 3772133.70 | 0.80633 | (06122919) | 386579.42 | 3772139.47 |
| 0.51538 | 386560.18 (06122919) | 3772147.16 | 0.64796 | (06122919) | 386545.44 | 3772154.85 |
| 0.48008 | 386533.26 (06122919) | 3772162.54 | 0.42708 | (06122919) | 386542.88 | 3772179.85 |
| 0.39117 | 386553.13 (07121620) | 3772195.88 | 0.38775 | (07121620) | 386568.52 | 3772208.70 |
| 0.43654 | 386581.98 (07121620) | 3772192.67 | 0.43148 | (07121620) | 386595.44 | 3772181.13 |
| 0.49269 | 386609.54 (07020103) | 3772168.95 | 0.45020 | (07111522) | 386624.29 | 3772152.29 |
| 0.45171 | 386619.16 (07020103) | 3772140.11 | 0.56745 | (07081406) | 386640.31 | 3772163.83 |
| 0.38064 | 386653.77 (07020104) | 3772174.72 | 0.41402 | (07020103) | 386665.95 | 3772186.26 |
| 0.32723 | 386677.49 (07082624) | 3772197.80 | 0.34654 | (07020104) | 386688.39 | 3772208.70 |
| 0.19744 | 386701.21 (07061204) | 3772222.16 | 0.30785 | (07082624) | 386448.64 | 3772217.67 |
| 0.22065 | 386456.34 (07061204) | 3772212.55 | 0.20736 | (07061204) | 386465.31 | 3772206.13 |
| 0.24878 | 386474.29 (07061204) | 3772200.37 | 0.23465 | (07061204) | 386481.34 | 3772194.60 |
| 0.27710 | 386489.03 (07061204) | 3772190.11 | 0.25361 | (07061204) | 386499.29 | 3772183.06 |
| 0.32285 | 386507.62 (07061204) | 3772177.93 | 0.29769 | (07041701) | 386514.67 | 3772171.52 |
| 0.33818 | 386576.85 (07121620) | 3772219.60 | 0.33251 | (07121620) | 386586.47 | 3772209.34 |
| 0.38566 | 386597.36 (07111522) | 3772197.80 | 0.35538 | (07081406) | 386606.98 | 3772187.54 |
| *** AERMOD - VERSION 09292 *** | | | *** Elysian | | | |
| *** 11/22/10 | | | *** Aluminum CO Mitigated | | | |
| *** 17:33:57 | | | | | | |

PAGE 11

**MODELOPTs: RegDFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

SOURCE GROUP: ALL *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
INCLUDING SOURCE(S): PAREA3 , PAREA4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF CO IN PPM

**

| CONC | X-COORD (M) (YYMMDDHH) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) |
|---------|---------------------------|-------------|---------|------------|-------------|-------------|
| 0.73842 | 386620.44 (06110320) | 3772178.57 | 0.41857 | (07020103) | 386742.87 | 3772003.56 |
| 0.13600 | 386386.30 (07082906) | 3771087.29 | 0.13026 | (06091823) | 386399.28 | 3771081.52 |
| 0.01738 | 386409.38 (07060324) | 3771067.10 | 0.14089 | (07082906) | 385296.78 | 3773131.99 |
| 0.01719 | 385287.93 (07101501) | 3773147.05 | 0.01723 | (07101501) | 385283.50 | 3773159.45 |
| 0.02225 | 385576.69 (07121620) | 3773089.48 | 0.02156 | (07121620) | 385597.95 | 3773060.25 |

Aluminum Cover CO Mitigated

| | | | | | | |
|---------|-------------------------|------------|---------|------------|-----------|------------|
| 0.02318 | 385609.46 (07121620) | 3773037.22 | 0.02257 | (07121620) | 385629.84 | 3772997.36 |
| 0.02607 | 385654.64 (07121620) | 3772953.07 | 0.02401 | (07121620) | 385706.01 | 3772876.89 |
| 0.03176 | 385752.07 (07121620) | 3772808.69 | 0.02815 | (07121620) | 385816.74 | 3772724.54 |
| 0.03982 | 385886.71 (07061204) | 3772645.70 | 0.03598 | (07121620) | 385952.26 | 3772579.27 |
| 0.05423 | 386020.46 (07061204) | 3772519.04 | 0.04612 | (07061204) | 386093.98 | 3772463.23 |
| 0.08149 | 386169.27 (07061204) | 3772410.97 | 0.06531 | (07061204) | 386248.11 | 3772359.60 |
| 0.15065 | 386328.71 (07061204) | 3772309.11 | 0.10610 | (07061204) | 386407.55 | 3772253.30 |
| 0.10879 | 387116.28 (06062804) | 3772187.40 | 0.10888 | (07070102) | 387141.00 | 3772141.51 |
| 0.09201 | 387201.01 (07070102) | 3772180.34 | 0.08434 | (06062804) | 387155.12 | 3772229.77 |
| 0.09735 | 386943.29 (07010320) | 3772540.45 | 0.09441 | (07010320) | 386925.64 | 3772582.82 |
| 0.13350 | 386526.69 (06090305) | 3770944.68 | 0.15512 | (06090305) | 386466.67 | 3770937.61 |
| 0.13137 | 386537.28 (06090305) | 3770884.66 | 0.13282 | (06090305) | 386480.80 | 3770881.13 |
| 0.03070 | 387374.01 (07032307) | 3771597.81 | 0.05872 | (07070124) | 384880.19 | 3771187.72 |
| 0.03187 | 384901.45 (07081506) | 3771161.15 | 0.02965 | (07081506) | 384909.41 | 3771118.65 |
| 0.03089 | 384912.07 (07081506) | 3771078.80 | 0.03190 | (07081506) | 384920.04 | 3771052.24 |

*** AERMOD - VERSION 09292 ***
 *** 11/22/10
 *** 17:33:57

*** Elysian
 *** Aluminum CO Mitigated

PAGE 12

**MODELOPTs: RegDFAULT CONC

ELEV
 NODRYDPLT NOWETDPLT

SOURCE GROUP: SRCGP1 *** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR
 INCLUDING SOURCE(S): PAREA3 , PAREA4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF CO IN PPM

**

| CONC | X-COORD (M) (YYMMDDHH) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) |
|---------|---------------------------|-------------|---------|------------|-------------|-------------|
| 0.11606 | 386476.85 (07122008) | 3771139.46 | 0.11525 | (07122008) | 386470.44 | 3771149.72 |
| 0.11157 | 386460.18 (07020208) | 3771159.97 | 0.11475 | (07122008) | 386449.29 | 3771172.79 |
| 0.11634 | 386440.31 (06020208) | 3771184.33 | 0.11408 | (06020208) | 386434.54 | 3771197.79 |
| 0.10996 | 386405.05 (06020208) | 3771244.59 | 0.10701 | (06020208) | 386409.54 | 3771235.61 |
| 0.11446 | 386416.59 (06020208) | 3771223.43 | 0.11298 | (06020208) | 386421.08 | 3771217.02 |
| 0.04263 | 386426.21 (07010408) | 3771209.97 | 0.11571 | (06020208) | 386274.28 | 3771299.72 |
| 0.04634 | 386278.77 (06020208) | 3771290.10 | 0.04267 | (06121308) | 386287.75 | 3771280.49 |
| 0.05680 | 386296.08 (06020208) | 3771269.59 | 0.05178 | (06020208) | 386303.13 | 3771259.33 |
| 0.07673 | 386340.31 (06020208) | 3771210.61 | 0.08241 | (06020208) | 386331.34 | 3771222.15 |

Aluminum Cover CO Mitigated

| | | | | | | |
|---------|----------------------------|------------|---------|-----------------------|-----------|------------|
| 0.06327 | 386323.00 (06020208) | 3771233.69 | 0.07092 | (06020208) | 386312.75 | 3771248.43 |
| 0.07580 | 386415.31 (07020208) | 3771092.02 | 0.08836 | (07020208) | 386380.05 | 3771051.00 |
| 0.07534 | 386392.23 (07020208) | 3771050.36 | 0.07830 | (07020208) | 386374.29 | 3771063.18 |
| 0.08806 | 386402.49 (07020208) | 3771098.43 | 0.08728 | (07020208) | 386419.80 | 3771082.41 |
| 0.02916 | 386163.39 (06121608) | 3771763.82 | 0.02015 | (06122908) | 386081.33 | 3771480.49 |
| 0.01956 | 386103.77 (06032508) | 3771527.92 | 0.02447 | (06121608) | 386120.44 | 3771576.00 |
| 0.01852 | 386135.82 (06032508) | 3771613.82 | 0.02084 | (06032508) | 386146.72 | 3771651.64 |
| 0.01989 | 386156.33 (06122908) | 3771690.75 | 0.01770 | (07102108) | 386164.67 | 3771730.49 |
| 0.32181 | 386716.60 (07111824) | 3772090.11 | 0.27167 | (07060408) | 386705.70 | 3772082.42 |
| 0.36449 | 386714.67 (07111824) | 3772074.72 | 0.34286 | (07111824) | 386723.00 | 3772061.90 |
| 0.36407 | 386731.99 (07111824) | 3772036.90 | 0.35070 | (06080408) | 386728.13 | 3772051.01 |
| 0.29474 | 386737.11 (07060408) | 3772022.15 | 0.36470 | (07080308) | 386699.29 | 3772099.08 |
| 0.29237 | 386690.31 (07041324) | 3772107.42 | 0.29288 | (07060408) | 386682.62 | 3772113.83 |
| 0.31242 | 386674.29 (07031908) | 3772123.44 | 0.30061 | (07041324) | 386664.67 | 3772134.34 |
| 0.41139 | 386654.42 (07031908) | 3772145.24 | 0.32107 | (07031908) | 386605.70 | 3772127.29 |
| 0.22235 | 386590.95 (06051308) | 3772133.70 | 0.30235 | (07031908) | 386579.42 | 3772139.47 |
| 0.13559 | 386560.18 (06041108) | 3772147.16 | 0.16431 | (06041108) | 386545.44 | 3772154.85 |
| 0.10340 | 386533.26 (06051308) | 3772162.54 | 0.11630 | (06041108) | 386542.88 | 3772179.85 |
| 0.12429 | 386553.13 (07031908) | 3772195.88 | 0.11641 | (06051308) | 386568.52 | 3772208.70 |
| 0.23067 | 386581.98 (07031908) | 3772192.67 | 0.17131 | (07031908) | 386595.44 | 3772181.13 |
| 0.36302 | 386609.54 (07031908) | 3772168.95 | 0.29867 | (07031908) | 386624.29 | 3772152.29 |
| 0.31092 | 386619.16 (07031908) | 3772140.11 | 0.40523 | (07031908) | 386640.31 | 3772163.83 |
| 0.22511 | 386653.77 (07041324) | 3772174.72 | 0.26296 | (07031908) | 386665.95 | 3772186.26 |
| 0.17813 | 386677.49 (07041324) | 3772197.80 | 0.19960 | (07041324) | 386688.39 | 3772208.70 |
| 0.05576 | 386701.21 (06041108) | 3772222.16 | 0.15444 | (07041324) | 386448.64 | 3772217.67 |
| 0.06287 | 386456.34 (06041108) | 3772212.55 | 0.05881 | (06041108) | 386465.31 | 3772206.13 |
| 0.07149 | 386474.29 (06041108) | 3772200.37 | 0.06720 | (06041108) | 386481.34 | 3772194.60 |
| 0.08282 | 386489.03 (06041108) | 3772190.11 | 0.07546 | (06041108) | 386499.29 | 3772183.06 |
| 0.09745 | 386507.62 (06041108) | 3772177.93 | 0.08937 | (06041108) | 386514.67 | 3772171.52 |
| 0.16931 | 386576.85 (07031908) | 3772219.60 | 0.13984 | (07031908) | 386586.47 | 3772209.34 |
| 0.24755 | 386597.36 (07031908) | 3772197.80 | 0.20882 | (07031908) | 386606.98 | 3772187.54 |
| *** | AERMOD - VERSION 09292 *** | | *** | Elysian | | |
| *** | 11/22/10 | | *** | Aluminum CO Mitigated | | |
| *** | 17:33:57 | | | | | |

PAGE 13

**MODELOPTs: RegDEFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

Aluminum Cover CO Mitigated

*** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: SRCGP1 ***
 INCLUDING SOURCE(S): PAREA3 , PAREA4 ,
 *** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF CO IN PPM

| CONC | X-COORD (M) (YYMMDDHH) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) |
|---------|---------------------------|-------------|---------|------------|-------------|-------------|
| 0.36663 | 386620.44 | 3772178.57 | 0.28667 | (07031908) | 386742.87 | 3772003.56 |
| | (06082908) | | | | | |
| 0.08315 | 386386.30 | 3771087.29 | 0.08170 | (07020208) | 386399.28 | 3771081.52 |
| | (07020208) | | | | | |
| 0.00388 | 386409.38 | 3771067.10 | 0.08376 | (07020208) | 385296.78 | 3773131.99 |
| | (06120908) | | | | | |
| 0.00385 | 385287.93 | 3773147.05 | 0.00386 | (06120908) | 385283.50 | 3773159.45 |
| | (06120908) | | | | | |
| 0.00519 | 385576.69 | 3773089.48 | 0.00506 | (06051308) | 385597.95 | 3773060.25 |
| | (06051308) | | | | | |
| 0.00531 | 385609.46 | 3773037.22 | 0.00523 | (06051308) | 385629.84 | 3772997.36 |
| | (06051308) | | | | | |
| 0.00578 | 385654.64 | 3772953.07 | 0.00543 | (06051308) | 385706.01 | 3772876.89 |
| | (06051308) | | | | | |
| 0.00675 | 385752.07 | 3772808.69 | 0.00613 | (06051308) | 385816.74 | 3772724.54 |
| | (06051308) | | | | | |
| 0.00853 | 385886.71 | 3772645.70 | 0.00760 | (06051308) | 385952.26 | 3772579.27 |
| | (06051308) | | | | | |
| 0.01082 | 386020.46 | 3772519.04 | 0.00960 | (06051308) | 386093.98 | 3772463.23 |
| | (07021824) | | | | | |
| 0.01885 | 386169.27 | 3772410.97 | 0.01371 | (06041108) | 386248.11 | 3772359.60 |
| | (06041108) | | | | | |
| 0.04186 | 386328.71 | 3772309.11 | 0.02740 | (06041108) | 386407.55 | 3772253.30 |
| | (06041108) | | | | | |
| 0.03704 | 387116.28 | 3772187.40 | 0.04236 | (07111924) | 387141.00 | 3772141.51 |
| | (07101324) | | | | | |
| 0.03783 | 387201.01 | 3772180.34 | 0.03051 | (07111924) | 387155.12 | 3772229.77 |
| | (07111924) | | | | | |
| 0.03274 | 386943.29 | 3772540.45 | 0.03338 | (06101508) | 386925.64 | 3772582.82 |
| | (06101508) | | | | | |
| 0.05937 | 386526.69 | 3770944.68 | 0.06000 | (06081708) | 386466.67 | 3770937.61 |
| | (07122008) | | | | | |
| 0.04996 | 386537.28 | 3770884.66 | 0.05083 | (06081708) | 386480.80 | 3770881.13 |
| | (06081708) | | | | | |
| 0.01202 | 387374.01 | 3771597.81 | 0.02649 | (06103108) | 384880.19 | 3771187.72 |
| | (06103008) | | | | | |
| 0.01210 | 384901.45 | 3771161.15 | 0.01203 | (06103008) | 384909.41 | 3771118.65 |
| | (07012808) | | | | | |
| 0.01141 | 384912.07 | 3771078.80 | 0.01179 | (07012808) | 384920.04 | 3771052.24 |
| | (07012808) | | | | | |

*** AERMOD - VERSION 09292 ***
 *** 11/22/10 ***
 *** Elysian ***
 *** Aluminum CO Mitigated ***
 *** 17:33:57 ***

PAGE 14
 **MODELOPTs: RegDFAULT CONC

ELEV
 NODRYDPLT NOWETDPLT

*** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): PAREA3 , PAREA4 ,
 *** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF CO IN PPM

**

Aluminum Cover CO Mitigated

| CONC | X-COORD (M) (YYMMDDHH) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) |
|---------|---------------------------|-------------|---------|------------|-------------|-------------|
| 0.11606 | 386476.85 (07122008) | 3771139.46 | 0.11525 | (07122008) | 386470.44 | 3771149.72 |
| 0.11157 | 386460.18 (07020208) | 3771159.97 | 0.11475 | (07122008) | 386449.29 | 3771172.79 |
| 0.11634 | 386440.31 (06020208) | 3771184.33 | 0.11408 | (06020208) | 386434.54 | 3771197.79 |
| 0.10996 | 386405.05 (06020208) | 3771244.59 | 0.10701 | (06020208) | 386409.54 | 3771235.61 |
| 0.11446 | 386416.59 (06020208) | 3771223.43 | 0.11298 | (06020208) | 386421.08 | 3771217.02 |
| 0.04263 | 386426.21 (07010408) | 3771209.97 | 0.11571 | (06020208) | 386274.28 | 3771299.72 |
| 0.04634 | 386278.77 (06020208) | 3771290.10 | 0.04267 | (06121308) | 386287.75 | 3771280.49 |
| 0.05680 | 386296.08 (06020208) | 3771269.59 | 0.05178 | (06020208) | 386303.13 | 3771259.33 |
| 0.07673 | 386340.31 (06020208) | 3771210.61 | 0.08241 | (06020208) | 386331.34 | 3771222.15 |
| 0.06327 | 386323.00 (06020208) | 3771233.69 | 0.07092 | (06020208) | 386312.75 | 3771248.43 |
| 0.07580 | 386415.31 (07020208) | 3771092.02 | 0.08836 | (07020208) | 386380.05 | 3771051.00 |
| 0.07534 | 386392.23 (07020208) | 3771050.36 | 0.07830 | (07020208) | 386374.29 | 3771063.18 |
| 0.08806 | 386402.49 (07020208) | 3771098.43 | 0.08728 | (07020208) | 386419.80 | 3771082.41 |
| 0.02916 | 386163.39 (06121608) | 3771763.82 | 0.02015 | (06122908) | 386081.33 | 3771480.49 |
| 0.01956 | 386103.77 (06032508) | 3771527.92 | 0.02447 | (06121608) | 386120.44 | 3771576.00 |
| 0.01852 | 386135.82 (06032508) | 3771613.82 | 0.02084 | (06032508) | 386146.72 | 3771651.64 |
| 0.01989 | 386156.33 (06122908) | 3771690.75 | 0.01770 | (07102108) | 386164.67 | 3771730.49 |
| 0.32181 | 386716.60 (07111824) | 3772090.11 | 0.27167 | (07060408) | 386705.70 | 3772082.42 |
| 0.36449 | 386714.67 (07111824) | 3772074.72 | 0.34286 | (07111824) | 386723.00 | 3772061.90 |
| 0.36407 | 386731.99 (07111824) | 3772036.90 | 0.35070 | (06080408) | 386728.13 | 3772051.01 |
| 0.29474 | 386737.11 (07060408) | 3772022.15 | 0.36470 | (07080308) | 386699.29 | 3772099.08 |
| 0.29237 | 386690.31 (07041324) | 3772107.42 | 0.29288 | (07060408) | 386682.62 | 3772113.83 |
| 0.31242 | 386674.29 (07031908) | 3772123.44 | 0.30061 | (07041324) | 386664.67 | 3772134.34 |
| 0.41139 | 386654.42 (07031908) | 3772145.24 | 0.32107 | (07031908) | 386605.70 | 3772127.29 |
| 0.22235 | 386590.95 (06051308) | 3772133.70 | 0.30235 | (07031908) | 386579.42 | 3772139.47 |
| 0.13559 | 386560.18 (06041108) | 3772147.16 | 0.16431 | (06041108) | 386545.44 | 3772154.85 |
| 0.10340 | 386533.26 (06051308) | 3772162.54 | 0.11630 | (06041108) | 386542.88 | 3772179.85 |
| 0.12429 | 386553.13 (07031908) | 3772195.88 | 0.11641 | (06051308) | 386568.52 | 3772208.70 |
| 0.23067 | 386581.98 (07031908) | 3772192.67 | 0.17131 | (07031908) | 386595.44 | 3772181.13 |
| 0.36302 | 386609.54 (07031908) | 3772168.95 | 0.29867 | (07031908) | 386624.29 | 3772152.29 |
| 0.31092 | 386619.16 (07031908) | 3772140.11 | 0.40523 | (07031908) | 386640.31 | 3772163.83 |
| 0.22511 | 386653.77 (07041324) | 3772174.72 | 0.26296 | (07031908) | 386665.95 | 3772186.26 |
| 0.17813 | 386677.49 (07041324) | 3772197.80 | 0.19960 | (07041324) | 386688.39 | 3772208.70 |

Aluminum Cover CO Mitigated

| | | | | | | |
|---------|-------------------------|------------|---------|------------|-----------|------------|
| 0.05576 | 386701.21 (06041108) | 3772222.16 | 0.15444 | (07041324) | 386448.64 | 3772217.67 |
| 0.06287 | 386456.34 (06041108) | 3772212.55 | 0.05881 | (06041108) | 386465.31 | 3772206.13 |
| 0.07149 | 386474.29 (06041108) | 3772200.37 | 0.06720 | (06041108) | 386481.34 | 3772194.60 |
| 0.08282 | 386489.03 (06041108) | 3772190.11 | 0.07546 | (06041108) | 386499.29 | 3772183.06 |
| 0.09745 | 386507.62 (06041108) | 3772177.93 | 0.08937 | (06041108) | 386514.67 | 3772171.52 |
| 0.16931 | 386576.85 (07031908) | 3772219.60 | 0.13984 | (07031908) | 386586.47 | 3772209.34 |
| 0.24755 | 386597.36 (07031908) | 3772197.80 | 0.20882 | (07031908) | 386606.98 | 3772187.54 |

*** AERMOD - VERSION 09292 ***
 *** 11/22/10 ***
 *** 17:33:57 ***

*** Elysian
 *** Aluminum CO Mitigated

PAGE 15

**MODELOPTs: RegDFAULT CONC

ELEV
 NODRYDPLT NOWETDPLT

*** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): PAREA3 , PAREA4 ,
 *** DISCRETE CARTESIAN RECEPTOR POINTS ***
 ** CONC OF CO IN PPM

| CONC | X-COORD (M) (YYMMDDHH) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) |
|---------|---------------------------|-------------|---------|------------|-------------|-------------|
| 0.36663 | 386620.44 (06082908) | 3772178.57 | 0.28667 | (07031908) | 386742.87 | 3772003.56 |
| 0.08315 | 386386.30 (07020208) | 3771087.29 | 0.08170 | (07020208) | 386399.28 | 3771081.52 |
| 0.00388 | 386409.38 (06120908) | 3771067.10 | 0.08376 | (07020208) | 385296.78 | 3773131.99 |
| 0.00385 | 385287.93 (06120908) | 3773147.05 | 0.00386 | (06120908) | 385283.50 | 3773159.45 |
| 0.00519 | 385576.69 (06051308) | 3773089.48 | 0.00506 | (06051308) | 385597.95 | 3773060.25 |
| 0.00531 | 385609.46 (06051308) | 3773037.22 | 0.00523 | (06051308) | 385629.84 | 3772997.36 |
| 0.00578 | 385654.64 (06051308) | 3772953.07 | 0.00543 | (06051308) | 385706.01 | 3772876.89 |
| 0.00675 | 385752.07 (06051308) | 3772808.69 | 0.00613 | (06051308) | 385816.74 | 3772724.54 |
| 0.00853 | 385886.71 (06051308) | 3772645.70 | 0.00760 | (06051308) | 385952.26 | 3772579.27 |
| 0.01082 | 386020.46 (07021824) | 3772519.04 | 0.00960 | (06051308) | 386093.98 | 3772463.23 |
| 0.01885 | 386169.27 (06041108) | 3772410.97 | 0.01371 | (06041108) | 386248.11 | 3772359.60 |
| 0.04186 | 386328.71 (06041108) | 3772309.11 | 0.02740 | (06041108) | 386407.55 | 3772253.30 |
| 0.03704 | 387116.28 (07101324) | 3772187.40 | 0.04236 | (07111924) | 387141.00 | 3772141.51 |
| 0.03783 | 387201.01 (07111924) | 3772180.34 | 0.03051 | (07111924) | 387155.12 | 3772229.77 |
| 0.03274 | 386943.29 (06101508) | 3772540.45 | 0.03338 | (06101508) | 386925.64 | 3772582.82 |
| 0.05937 | 386526.69 (07122008) | 3770944.68 | 0.06000 | (06081708) | 386466.67 | 3770937.61 |
| 0.04996 | 386537.28 (06081708) | 3770884.66 | 0.05083 | (06081708) | 386480.80 | 3770881.13 |

Aluminum Cover CO Mitigated

```

387374.01 3771597.81 0.02649 (06103108) 384880.19 3771187.72
0.01202 (06103008)
384901.45 3771161.15 0.01203 (06103008) 384909.41 3771118.65
0.01210 (07012808)
384912.07 3771078.80 0.01179 (07012808) 384920.04 3771052.24
0.01141 (07012808)
*** AERMOD - VERSION 09292 *** *** Elysian
*** 11/22/10 ***
*** 17:33:57 *** Aluminum CO Mitigated

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PAGE 16

**MODELOPTs: RegDEFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

*** THE SUMMARY OF HIGHEST 1-HR RESULTS ***

```

** CONC OF CO IN PPM
**
DATE
NETWORK
GROUP ID OF TYPE AVERAGE CONC (YYMMDDHH) RECEPTOR (XR, YR,
ZELEV, ZHILL, ZFLAG) OF TYPE GRID-ID
-----
SRCGP1 HIGH 1ST HIGH VALUE IS 0.80633 ON 06122919: AT ( 386590.95, 3772133.70,
96.54, 182.00, 0.00) DC
ALL HIGH 1ST HIGH VALUE IS 0.80633 ON 06122919: AT ( 386590.95, 3772133.70,
96.54, 182.00, 0.00) DC

```

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

```

*** AERMOD - VERSION 09292 *** *** Elysian
*** 11/22/10 ***
*** 17:33:57 *** Aluminum CO Mitigated

```

PAGE 17

**MODELOPTs: RegDEFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

*** THE SUMMARY OF HIGHEST 8-HR RESULTS ***

```

** CONC OF CO IN PPM
**
DATE
NETWORK
GROUP ID OF TYPE AVERAGE CONC (YYMMDDHH) RECEPTOR (XR, YR,
ZELEV, ZHILL, ZFLAG) OF TYPE GRID-ID
-----
SRCGP1 HIGH 1ST HIGH VALUE IS 0.41139 ON 07031908: AT ( 386605.70, 3772127.29,
95.60, 182.00, 0.00) DC
ALL HIGH 1ST HIGH VALUE IS 0.41139 ON 07031908: AT ( 386605.70, 3772127.29,
95.60, 182.00, 0.00) DC

```

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

Aluminum Cover CO Mitigated

DP = DISCPOLR
*** AERMOD - VERSION 09292 *** *** Elysian
*** 11/22/10 *** Aluminum CO Mitigated
*** 17:33:57

PAGE 18

**MODELOPTs: RegDEFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

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

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

A Total of 0 Fatal Error Message(s)
A Total of 0 Warning Message(s)
A Total of 113 Informational Message(s)

A Total of 17520 Hours Were Processed

A Total of 0 Calm Hours Identified

A Total of 113 Missing Hours Identified (0.64 Percent)

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

***** WARNING MESSAGES *****
*** NONE ***

*** AERMOD Finishes Successfully ***

Aluminum Cover PM2.5 Unmitigated

```
**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 6.7.1
** Lakes Environmental Software Inc.
** Date: 11/22/2010
** File: C:\Documents and Settings\jbailey\Desktop\Elysian Park AerMod\elysian\Al_PM25.ADI
**
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**
CO STARTING
  TITLEONE Elysian
  TITLETWO Aluminum PM25
  MODELOPT DFAULT CONC NODRYDPLT NOWETDPLT
  AVERTIME 24
  URBANOPT 9862049 LA
  POLLUTID PM.25
  RUNORNOT RUN
CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
  LOCATION PAREA3 AREAPOLY 386606.494 3771295.572 139.670
** DESCRSRC Reservoir
  LOCATION PAREA4 AREAPOLY 386596.536 3772117.718 96.500
** DESCRSRC Caltrans
  LOCATION AREA2 AREA 386602.251 3772074.114 96.950
  LOCATION AREA3 AREA 386514.382 3771483.886 154.350
** Source Parameters **
  SRCPARAM PAREA3 2.5287E-06 5.000 18
  AREAVERT PAREA3 386606.494 3771295.572 386560.430 3771386.706
  AREAVERT PAREA3 386502.641 3771467.538 386454.064 3771523.011
  AREAVERT PAREA3 386432.288 3771547.577 386455.739 3771575.313
  AREAVERT PAREA3 386485.890 3771583.238 386543.680 3771557.879
  AREAVERT PAREA3 386593.931 3771507.954 386619.057 3771483.387
  AREAVERT PAREA3 386650.046 3771442.179 386660.096 3771427.914
  AREAVERT PAREA3 386676.847 3771408.103 386688.572 3771388.291
  AREAVERT PAREA3 386676.847 3771361.347 386655.909 3771323.308
  AREAVERT PAREA3 386640.833 3771309.044 386614.032 3771295.572
  SRCPARAM PAREA4 8.5652E-06 5.000 14
  AREAVERT PAREA4 386596.536 3772117.718 386580.846 3772089.725
  AREAVERT PAREA4 386632.070 3772053.383 386637.838 3772051.173
  AREAVERT PAREA4 386652.144 3772050.928 386668.065 3772039.387
  AREAVERT PAREA4 386682.371 3772010.903 386693.678 3771992.977
  AREAVERT PAREA4 386695.985 3771989.049 386717.213 3771999.362
  AREAVERT PAREA4 386696.677 3772048.472 386683.525 3772065.170
  AREAVERT PAREA4 386672.219 3772075.974 386651.914 3772089.234
  SRCPARAM AREA2 0.0000189363 0.000 107.950 39.380 44.060 0.000
  SRCPARAM AREA3 0.0000270518 0.000 107.950 39.380 44.060 0.000
  URBANSRC PAREA3
  URBANSRC PAREA4
  URBANSRC AREA2
  URBANSRC AREA3
  SRCGROUP SRCGP1 PAREA4 PAREA3 AREA2 AREA3
  SRCGROUP ALL
SO FINISHED
**
*****
```


Aluminum Cover PM2.5 Unmitigated

```
** AERMOD Receptor Pathway
*****
**
**
RE STARTING
  INCLUDED Al_PM25.rou
RE FINISHED
**
*****
** AERMOD Meteorology Pathway
*****
**
**
ME STARTING
  SURFFILE "L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\cela.SFC"
  PROFFILE "L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\cela.PFL"
  SURFDATA 0 2006
  UAIRDATA 3190 2006
  PROFBASE 10 METERS
ME FINISHED
**
*****
** AERMOD Output Pathway
*****
**
**
OU STARTING
  RECTABLE ALLAVE 1ST
  RECTABLE 24 1ST
** Auto-Generated Plotfiles
  PLOTFILE 24 ALL 1ST AL_PM25.AD\24H1GALL.PLT
  PLOTFILE 24 SRCGP1 1ST AL_PM25.AD\24H1G001.PLT
OU FINISHED

*****
*** SETUP Finishes Successfully ***
*****

*** AERMOD - VERSION 09292 ***      *** Elysian
***      11/22/10
***                                     *** Aluminum PM25
***      18:34:43

PAGE 1
**MODELOPTs:  RegDFault CONC
                                                    ELEV
                                                    NODRYDPLT NOWETDPLT
***      MODEL SETUP OPTIONS SUMMARY      ***
-----
**Model Is Setup For Calculation of Average CONCentration Values.

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

**Model Uses URBAN Dispersion Algorithm for the SBL for      4 Source(s),
for Total of      1 Urban Area(s):
Urban Population =  9862049.0 ; Urban Roughness Length =  1.000 m

**Model Uses Regulatory DEFAULT Options:
1. Stack-tip Downwash.
2. Model Accounts for ELEVated Terrain Effects.
3. Use Calms Processing Routine.
4. Use Missing Data Processing Routine.
5. No Exponential Decay for URBAN/Non-SO2.
6. Urban Roughness Length of 1.0 Meter Assumed.
```

Aluminum Cover PM2.5 Unmitigated

**Model Assumes No FLAGPOLE Receptor Heights.
 **Model Calculates 1 Short Term Average(s) of: 24-HR
 **This Run Includes: 4 Source(s); 2 Source Group(s); and 120 Receptor(s)
 **The Model Assumes A Pollutant Type of: PM.25
 **Model Set To Continue RUNning After the Setup Testing.
 **Output Options Selected:
 Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
 Model Outputs External File(s) of High Values for Plotting (PLOTFILE 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) = 10.00 ; Decay Coef. = 0.000
 ; Rot. Angle = 0.0
 Emission Units = GRAMS/SEC ; Emission Rate
 Unit Factor = 0.10000E+07
 Output Units = MICROGRAMS/M**3

**Approximate Storage Requirements of Model = 3.5 MB of RAM.

*** AERMOD - VERSION 09292 *** *** Elysian
 *** 11/22/10
 *** 18:34:43
 *** Aluminum PM25

PAGE 2

**MODELOPTs: RegDFAULT CONC ELEV
 NODRYDPLT NOWETDPLT

*** AREA SOURCE DATA ***

| ORIENT. | INIT. | NUMBER URBAN EMISSION RATE | COORD (SW CORNER) | BASE | RELEASE | X-DIM | Y-DIM |
|---------|----------|----------------------------|-------------------|----------|----------|----------|----------|
| SOURCE | PART. | (GRAMS/SEC | X | Y | ELEV. | HEIGHT | OF AREA |
| AREA | SZ | SOURCE SCALAR VARY | (METERS) | (METERS) | (METERS) | (METERS) | OF AREA |
| (DEG.) | (METERS) | CATS. /METER**2) | (METERS) | (METERS) | (METERS) | (METERS) | (METERS) |
| | | BY | | | | | |

| | | | | | | | | |
|-------|------|-------------|----------|-----------|-------|------|--------|-------|
| AREA2 | 0 | 0.18936E-04 | 386602.3 | 3772074.1 | 97.0 | 0.00 | 107.95 | 39.38 |
| 44.06 | 0.00 | YES | | | | | | |
| AREA3 | 0 | 0.27052E-04 | 386514.4 | 3771483.9 | 154.4 | 0.00 | 107.95 | 39.38 |
| 44.06 | 0.00 | YES | | | | | | |

*** AERMOD - VERSION 09292 *** *** Elysian
 *** 11/22/10
 *** 18:34:43
 *** Aluminum PM25

PAGE 3

**MODELOPTs: RegDFAULT CONC ELEV
 NODRYDPLT NOWETDPLT

*** AREAPOLY SOURCE DATA ***

| URBAN | EMISSION RATE | NUMBER | EMISSION RATE | LOCATION OF AREA | BASE | RELEASE | NUMBER | INIT. |
|--------|------------------|------------|---------------|------------------|----------|----------|-----------|----------|
| SOURCE | PART. | (GRAMS/SEC | X | Y | ELEV. | HEIGHT | OF VERTS. | SZ |
| SOURCE | SCALAR VARY | (METERS) | (METERS) | (METERS) | (METERS) | (METERS) | (METERS) | (METERS) |
| ID | CATS. /METER**2) | (METERS) | (METERS) | (METERS) | (METERS) | (METERS) | (METERS) | (METERS) |
| BY | | | | | | | | |

Aluminum Cover PM2.5 Unmitigated

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-----
PAREA3      0  0.25287E-05  386606.5  3771295.6  139.7  5.00  18  0.00
YES
PAREA4      0  0.85652E-05  386596.5  3772117.7  96.5  5.00  14  0.00
YES
*** AERMOD - VERSION 09292 ***   *** Elysian
***      11/22/10
***      18:34:43
*** Aluminum PM25

```

PAGE 4

**MODELOPTs: RegDEFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID SOURCE IDs

SRCGP1 PAREA3 , PAREA4 , AREA2 , AREA3 ,

```

ALL PAREA3 , PAREA4 , AREA2 , AREA3 ,
*** AERMOD - VERSION 09292 ***   *** Elysian
***      11/22/10
***      18:34:43
*** Aluminum PM25

```

PAGE 5

**MODELOPTs: RegDEFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

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

```

( 386476.8, 3771139.5, 143.3, 181.0, 0.0); ( 386470.4, 3771149.7,
144.2, 181.0, 0.0);
( 386460.2, 3771160.0, 145.3, 181.0, 0.0); ( 386449.3, 3771172.8,
146.6, 181.0, 0.0);
( 386440.3, 3771184.3, 147.6, 181.0, 0.0); ( 386434.5, 3771197.8,
148.6, 181.0, 0.0);
( 386405.0, 3771244.6, 152.9, 181.0, 0.0); ( 386409.5, 3771235.6,
151.9, 181.0, 0.0);
( 386416.6, 3771223.4, 150.9, 181.0, 0.0); ( 386421.1, 3771217.0,
150.3, 181.0, 0.0);
( 386426.2, 3771210.0, 149.6, 181.0, 0.0); ( 386274.3, 3771299.7,
168.1, 181.0, 0.0);
( 386278.8, 3771290.1, 167.4, 181.0, 0.0); ( 386287.8, 3771280.5,
166.6, 181.0, 0.0);
( 386296.1, 3771269.6, 164.9, 181.0, 0.0); ( 386303.1, 3771259.3,
163.5, 181.0, 0.0);
( 386340.3, 3771210.6, 155.9, 181.0, 0.0); ( 386331.3, 3771222.1,
157.6, 181.0, 0.0);
( 386323.0, 3771233.7, 159.3, 181.0, 0.0); ( 386312.8, 3771248.4,
161.6, 181.0, 0.0);
( 386415.3, 3771092.0, 143.8, 181.0, 0.0); ( 386380.0, 3771051.0,
142.9, 164.0, 0.0);
( 386392.2, 3771050.4, 142.2, 181.0, 0.0); ( 386374.3, 3771063.2,
144.0, 164.0, 0.0);
( 386402.5, 3771098.4, 144.8, 181.0, 0.0); ( 386419.8, 3771082.4,
142.9, 181.0, 0.0);
( 386163.4, 3771763.8, 182.0, 182.0, 0.0); ( 386081.3, 3771480.5,
178.0, 178.0, 0.0);
( 386103.8, 3771527.9, 179.8, 179.8, 0.0); ( 386120.4, 3771576.0,
181.1, 181.1, 0.0);

```

Aluminum Cover PM2.5 Unmitigated

| | | | | |
|------------------------|--------|--------|-------|------------------------|
| (386135.8, 3771613.8, | 182.0, | 182.0, | 0.0); | (386146.7, 3771651.6, |
| 182.0, 182.0, 0.0); | | | | |
| (386156.3, 3771690.8, | 182.0, | 182.0, | 0.0); | (386164.7, 3771730.5, |
| 182.0, 182.0, 0.0); | | | | |
| (386716.6, 3772090.1, | 93.4, | 182.0, | 0.0); | (386705.7, 3772082.4, |
| 93.0, 182.0, 0.0); | | | | |
| (386714.7, 3772074.7, | 93.3, | 182.0, | 0.0); | (386723.0, 3772061.9, |
| 93.7, 182.0, 0.0); | | | | |
| (386732.0, 3772036.9, | 94.0, | 182.0, | 0.0); | (386728.1, 3772051.0, |
| 93.9, 182.0, 0.0); | | | | |
| (386737.1, 3772022.1, | 94.2, | 182.0, | 0.0); | (386699.3, 3772099.1, |
| 92.7, 182.0, 0.0); | | | | |
| (386690.3, 3772107.4, | 92.4, | 182.0, | 0.0); | (386682.6, 3772113.8, |
| 92.1, 182.0, 0.0); | | | | |
| (386674.3, 3772123.4, | 92.3, | 182.0, | 0.0); | (386664.7, 3772134.3, |
| 92.8, 182.0, 0.0); | | | | |
| (386654.4, 3772145.2, | 93.1, | 182.0, | 0.0); | (386605.7, 3772127.3, |
| 95.6, 182.0, 0.0); | | | | |
| (386591.0, 3772133.7, | 96.5, | 182.0, | 0.0); | (386579.4, 3772139.5, |
| 97.2, 182.0, 0.0); | | | | |
| (386560.2, 3772147.2, | 98.4, | 182.0, | 0.0); | (386545.4, 3772154.8, |
| 99.0, 182.0, 0.0); | | | | |
| (386533.3, 3772162.5, | 99.5, | 182.0, | 0.0); | (386542.9, 3772179.8, |
| 98.2, 182.0, 0.0); | | | | |
| (386553.1, 3772195.9, | 96.9, | 182.0, | 0.0); | (386568.5, 3772208.7, |
| 95.5, 182.0, 0.0); | | | | |
| (386582.0, 3772192.7, | 95.3, | 182.0, | 0.0); | (386595.4, 3772181.1, |
| 94.8, 182.0, 0.0); | | | | |
| (386609.5, 3772168.9, | 94.5, | 182.0, | 0.0); | (386624.3, 3772152.3, |
| 94.3, 182.0, 0.0); | | | | |
| (386619.2, 3772140.1, | 94.7, | 182.0, | 0.0); | (386640.3, 3772163.8, |
| 93.5, 182.0, 0.0); | | | | |
| (386653.8, 3772174.7, | 93.0, | 182.0, | 0.0); | (386666.0, 3772186.3, |
| 92.7, 182.0, 0.0); | | | | |
| (386677.5, 3772197.8, | 92.5, | 182.0, | 0.0); | (386688.4, 3772208.7, |
| 92.8, 182.0, 0.0); | | | | |
| (386701.2, 3772222.2, | 93.5, | 182.0, | 0.0); | (386448.6, 3772217.7, |
| 102.7, 182.0, 0.0); | | | | |
| (386456.3, 3772212.5, | 102.4, | 182.0, | 0.0); | (386465.3, 3772206.1, |
| 102.1, 182.0, 0.0); | | | | |
| (386474.3, 3772200.4, | 101.8, | 182.0, | 0.0); | (386481.3, 3772194.6, |
| 101.5, 182.0, 0.0); | | | | |
| (386489.0, 3772190.1, | 101.2, | 182.0, | 0.0); | (386499.3, 3772183.1, |
| 100.9, 182.0, 0.0); | | | | |
| (386507.6, 3772177.9, | 100.5, | 182.0, | 0.0); | (386514.7, 3772171.5, |
| 100.3, 182.0, 0.0); | | | | |
| (386576.8, 3772219.6, | 94.6, | 182.0, | 0.0); | (386586.5, 3772209.3, |
| 94.4, 182.0, 0.0); | | | | |
| (386597.4, 3772197.8, | 94.2, | 182.0, | 0.0); | (386607.0, 3772187.5, |
| 94.0, 182.0, 0.0); | | | | |
| (386620.4, 3772178.6, | 93.9, | 182.0, | 0.0); | (386742.9, 3772003.6, |
| 94.5, 182.0, 0.0); | | | | |
| (386386.3, 3771087.3, | 144.9, | 181.0, | 0.0); | (386399.3, 3771081.5, |
| 143.9, 181.0, 0.0); | | | | |
| (386409.4, 3771067.1, | 142.4, | 181.0, | 0.0); | (385296.8, 3773132.0, |
| 117.7, 182.0, 0.0); | | | | |
| (385287.9, 3773147.0, | 117.7, | 182.0, | 0.0); | (385283.5, 3773159.4, |
| 117.2, 182.0, 0.0); | | | | |
| (385576.7, 3773089.5, | 103.9, | 182.0, | 0.0); | (385598.0, 3773060.2, |
| 104.0, 182.0, 0.0); | | | | |

*** AERMOD - VERSION 09292 ***
 *** 11/22/10
 *** 18:34:43

*** Elysian
 *** Aluminum PM25

PAGE 6
 **MODELOPTs: RegDFault CONC

ELEV
 NODRYPLT NOWETDPLT

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

Aluminum Cover PM2.5 Unmitigated

*** AERMOD - VERSION 09292 *** *** Elysian
 *** 11/22/10
 *** 18:34:43 *** Aluminum PM25

PAGE 8
 **MODELOPTs: RegDEFAULT CONC

ELEV
 NODRYDPLT NOWETDPLT

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

Surface file: L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met
 Data\cela.SFC Met Version: 06341
 Profile file: L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met
 Data\cela.PFL
 Surface format: FREE
 Profile format: FREE
 Surface station no.: 0 Upper air station no.: 3190
 Name: UNKNOWN Name: UNKNOWN
 Year: 2006 Year: 2006

| First 24 hours of scalar data | | | | | | | | | | | | | | | | | |
|-------------------------------|----|------|-------|------|-------|-------|--------|--------|-------|-------|---------|------|------|-------|--------|-----|----|
| YR | MO | DY | JDY | HR | H0 | U* | W* | DT/DZ | ZICNV | ZIMCH | M-O | LEN | Z0 | BOWEN | ALBEDO | REF | WS |
| WD | HT | REF | TA | HT | | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 01 | -0.9 | 0.040 | -9.000 | -9.000 | -999. | 18. | 6.3 | 0.65 | 1.00 | 1.00 | 0.70 | | |
| 347. | | 21.3 | 286.4 | 17.7 | | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 02 | -3.0 | 0.086 | -9.000 | -9.000 | -999. | 58. | 19.1 | 0.65 | 1.00 | 1.00 | 1.50 | | |
| 82. | | 21.3 | 286.4 | 17.7 | | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 03 | -1.3 | 0.057 | -9.000 | -9.000 | -999. | 31. | 12.7 | 0.65 | 1.00 | 1.00 | 1.00 | | |
| 66. | | 21.3 | 286.4 | 17.7 | | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 04 | -1.9 | 0.069 | -9.000 | -9.000 | -999. | 41. | 15.2 | 0.65 | 1.00 | 1.00 | 1.20 | | |
| 23. | | 21.3 | 285.9 | 17.7 | | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 05 | -3.5 | 0.080 | -9.000 | -9.000 | -999. | 52. | 13.1 | 0.65 | 1.00 | 1.00 | 1.40 | | |
| 61. | | 21.3 | 285.4 | 17.7 | | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 06 | -3.0 | 0.086 | -9.000 | -9.000 | -999. | 58. | 19.0 | 0.65 | 1.00 | 1.00 | 1.50 | | |
| 83. | | 21.3 | 285.4 | 17.7 | | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 07 | -6.1 | 0.103 | -9.000 | -9.000 | -999. | 76. | 16.2 | 0.65 | 1.00 | 1.00 | 1.80 | | |
| 64. | | 21.3 | 285.4 | 17.7 | | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 08 | -3.3 | 0.080 | -9.000 | -9.000 | -999. | 52. | 14.1 | 0.65 | 1.00 | 0.55 | 1.40 | | |
| 46. | | 21.3 | 285.4 | 17.7 | | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 09 | 26.6 | 0.304 | 0.644 | 0.005 | 362. | 385. | -95.4 | 0.65 | 1.00 | 0.32 | 2.30 | | |
| 87. | | 21.3 | 286.4 | 17.7 | | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 10 | 21.0 | 0.227 | 0.732 | 0.005 | 675. | 250. | -50.2 | 0.65 | 1.00 | 0.24 | 1.60 | | |
| 76. | | 21.3 | 286.4 | 17.7 | | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 11 | 35.8 | 0.197 | 0.912 | 0.005 | 766. | 201. | -19.2 | 0.65 | 1.00 | 0.21 | 1.20 | | |
| 66. | | 21.3 | 287.5 | 17.7 | | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 12 | 14.9 | 0.281 | 0.686 | 0.005 | 785. | 343. | -135.5 | 0.65 | 1.00 | 0.20 | 2.20 | | |
| 79. | | 21.3 | 287.5 | 17.7 | | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 13 | 26.4 | 0.376 | 0.842 | 0.009 | 818. | 530. | -181.6 | 0.65 | 1.00 | 0.20 | 3.00 | | |
| 76. | | 21.3 | 287.5 | 17.7 | | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 14 | 39.0 | 0.385 | 0.979 | 0.014 | 867. | 549. | -131.8 | 0.65 | 1.00 | 0.21 | 3.00 | | |
| 80. | | 21.3 | 288.1 | 17.7 | | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 15 | 11.4 | 0.277 | 0.653 | 0.014 | 881. | 341. | -168.4 | 0.65 | 1.00 | 0.25 | 2.20 | | |
| 86. | | 21.3 | 287.5 | 17.7 | | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 16 | 0.1 | 0.343 | 0.135 | 0.014 | 881. | 462. | -8888.0 | 0.65 | 1.00 | 0.33 | 3.00 | | |
| 75. | | 21.3 | 287.0 | 17.7 | | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 17 | -13.7 | 0.266 | -9.000 | -9.000 | -999. | 319. | 125.0 | 0.65 | 1.00 | 0.60 | 2.90 | | |
| 82. | | 21.3 | 286.4 | 17.7 | | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 18 | -10.2 | 0.183 | -9.000 | -9.000 | -999. | 183. | 54.5 | 0.65 | 1.00 | 1.00 | 2.50 | | |
| 101. | | 21.3 | 286.4 | 17.7 | | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 19 | -16.1 | 0.289 | -9.000 | -9.000 | -999. | 358. | 135.6 | 0.65 | 1.00 | 1.00 | 3.10 | | |
| 97. | | 21.3 | 285.9 | 17.7 | | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 20 | -25.2 | 0.450 | -9.000 | -9.000 | -999. | 693. | 326.1 | 0.65 | 1.00 | 1.00 | 4.30 | | |
| 92. | | 21.3 | 284.9 | 17.7 | | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 21 | -27.3 | 0.487 | -9.000 | -9.000 | -999. | 781. | 381.9 | 0.65 | 1.00 | 1.00 | 4.60 | | |
| 88. | | 21.3 | 284.2 | 17.7 | | | | | | | | | | | | | |
| 06 | 01 | 01 | 1 | 22 | -28.0 | 0.499 | -9.000 | -9.000 | -999. | 812. | 402.5 | 0.65 | 1.00 | 1.00 | 4.70 | | |
| 91. | | 21.3 | 284.9 | 17.7 | | | | | | | | | | | | | |

Aluminum Cover PM2.5 Unmitigated

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06 01 01 1 23 -36.1 0.645 -9.000 -9.000 -999. 1191. 673.0 0.65 1.00 1.00 5.90
82. 21.3 285.4 17.7
06 01 01 1 24 -35.3 0.633 -9.000 -9.000 -999. 1160. 649.7 0.65 1.00 1.00 5.80
84. 21.3 285.9 17.7

```

First hour of profile data

```

YR MO DY HR HEIGHT F WDIR WSPD AMB_TMP sigmaA sigmaW sigmaV
06 01 01 01 17.7 0 -999. -99.00 286.5 99.0 -99.00 -99.00
06 01 01 01 21.3 1 347. 0.70 -999.0 99.0 -99.00 -99.00

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

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*** AERMOD - VERSION 09292 *** *** Elysian
*** 11/22/10
*** Aluminum PM25
*** 18:34:43

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PAGE 9

**MODELOPTs: RegDFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

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*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR
SOURCE GROUP: SRCGP1 ***
INCLUDING SOURCE(S): PAREA3 , PAREA4 , AREA2 , AREA3

```

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM.25 IN MICROGRAMS/M**3

**

| CONC | X-COORD (M) (YYMMDDHH) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) |
|----------|---------------------------|-------------|----------|------------|-------------|-------------|
| 16.28132 | 386476.85 | 3771139.46 | 15.36852 | (06013124) | 386470.44 | 3771149.72 |
| 18.57934 | 386460.18 | 3771159.97 | 17.61479 | (06121424) | 386449.29 | 3771172.79 |
| 21.03237 | 386440.31 | 3771184.33 | 19.74547 | (06011024) | 386434.54 | 3771197.79 |
| 24.38736 | 386405.05 | 3771244.59 | 24.14803 | (07112824) | 386409.54 | 3771235.61 |
| 23.55779 | 386416.59 | 3771223.43 | 24.05738 | (07112824) | 386421.08 | 3771217.02 |
| 9.16166 | 386426.21 | 3771209.97 | 22.71173 | (07112824) | 386274.28 | 3771299.72 |
| 10.48888 | 386278.77 | 3771290.10 | 9.77290 | (07012224) | 386287.75 | 3771280.49 |
| 11.66344 | 386296.08 | 3771269.59 | 11.05043 | (07012224) | 386303.13 | 3771259.33 |
| 16.80229 | 386340.31 | 3771210.61 | 17.57215 | (06010824) | 386331.34 | 3771222.15 |
| 13.82093 | 386323.00 | 3771233.69 | 15.75225 | (06010924) | 386312.75 | 3771248.43 |
| 11.61467 | 386415.31 | 3771092.02 | 13.67011 | (06121424) | 386380.05 | 3771051.00 |
| 12.42904 | 386392.23 | 3771050.36 | 11.80206 | (06121424) | 386374.29 | 3771063.18 |
| 13.38116 | 386402.49 | 3771098.43 | 13.92344 | (06011024) | 386419.80 | 3771082.41 |
| 4.41016 | 386163.39 | 3771763.82 | 2.57877 | (06122924) | 386081.33 | 3771480.49 |
| 3.05161 | 386103.77 | 3771527.92 | 2.98646 | (06020224) | 386120.44 | 3771576.00 |
| 3.89672 | 386135.82 | 3771613.82 | 2.98204 | (06032524) | 386146.72 | 3771651.64 |
| 2.52234 | 386156.33 | 3771690.75 | 3.20945 | (07021824) | 386164.67 | 3771730.49 |
| 80.48214 | 386716.60 | 3772090.11 | 64.51139 | (06101524) | 386705.70 | 3772082.42 |

Aluminum Cover PM2.5 Unmitigated

| | | | | | | |
|----------|-------------------------|------------|----------|------------|-----------|------------|
| 69.17430 | 386714.67 (06050424) | 3772074.72 | 75.65614 | (06101524) | 386723.00 | 3772061.90 |
| 75.39240 | 386731.99 (06103124) | 3772036.90 | 80.07936 | (06103124) | 386728.13 | 3772051.01 |
| 69.32254 | 386737.11 (06101524) | 3772022.15 | 74.82935 | (07080324) | 386699.29 | 3772099.08 |
| 63.85703 | 386690.31 (07090224) | 3772107.42 | 63.79585 | (06101524) | 386682.62 | 3772113.83 |
| 61.44718 | 386674.29 (06072524) | 3772123.44 | 63.19951 | (07090624) | 386664.67 | 3772134.34 |
| 45.96309 | 386654.42 (07031824) | 3772145.24 | 59.48270 | (06072524) | 386605.70 | 3772127.29 |
| 23.90006 | 386590.95 (06042724) | 3772133.70 | 30.24121 | (06042724) | 386579.42 | 3772139.47 |
| 13.86811 | 386560.18 (06041124) | 3772147.16 | 16.94866 | (06042724) | 386545.44 | 3772154.85 |
| 11.33329 | 386533.26 (06042724) | 3772162.54 | 12.18739 | (06041124) | 386542.88 | 3772179.85 |
| 12.45789 | 386553.13 (06051324) | 3772195.88 | 11.27572 | (06051324) | 386568.52 | 3772208.70 |
| 21.84266 | 386581.98 (07031824) | 3772192.67 | 15.84914 | (07031824) | 386595.44 | 3772181.13 |
| 50.75239 | 386609.54 (07031924) | 3772168.95 | 31.58432 | (07031924) | 386624.29 | 3772152.29 |
| 48.02874 | 386619.16 (07031924) | 3772140.11 | 54.38882 | (07031924) | 386640.31 | 3772163.83 |
| 41.20400 | 386653.77 (06072524) | 3772174.72 | 45.23515 | (06072524) | 386665.95 | 3772186.26 |
| 32.76196 | 386677.49 (06072524) | 3772197.80 | 36.80136 | (06072524) | 386688.39 | 3772208.70 |
| 5.93585 | 386701.21 (06041124) | 3772222.16 | 28.00193 | (06072524) | 386448.64 | 3772217.67 |
| 6.74145 | 386456.34 (06041124) | 3772212.55 | 6.28908 | (06041124) | 386465.31 | 3772206.13 |
| 7.68881 | 386474.29 (06041124) | 3772200.37 | 7.23304 | (06041124) | 386481.34 | 3772194.60 |
| 8.94161 | 386489.03 (06041124) | 3772190.11 | 8.16789 | (06041124) | 386499.29 | 3772183.06 |
| 10.40514 | 386507.62 (06041124) | 3772177.93 | 9.61873 | (06041124) | 386514.67 | 3772171.52 |
| 15.58578 | 386576.85 (07031824) | 3772219.60 | 12.71655 | (07031824) | 386586.47 | 3772209.34 |
| 25.74961 | 386597.36 (07031924) | 3772197.80 | 20.04443 | (07031824) | 386606.98 | 3772187.54 |

*** AERMOD - VERSION 09292 ***
 *** 11/22/10
 *** 18:34:43

*** Elysian
 *** Aluminum PM25

PAGE 10

**MODELOPTs: RegDFault CONC

ELEV
 NODRYDPLT NOWETDPLT

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR
 SOURCE GROUP: SRCGP1 ***
 INCLUDING SOURCE(S): PAREA3 , PAREA4 , AREA2 , AREA3

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM.25 IN MICROGRAMS/M**3

| CONC | X-COORD (M) (YYMMDDHH) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) |
|----------|---------------------------|-------------|----------|------------|-------------|-------------|
| 58.18967 | 386620.44 | 3772178.57 | 36.05234 | (07031924) | 386742.87 | 3772003.56 |
| 12.82730 | 386386.30 | 3771087.29 | 13.67519 | (06011024) | 386399.28 | 3771081.52 |

Aluminum Cover PM2.5 Unmitigated

| | | | | | | |
|--------------------------------|-------------------------|------------|-------------------|------------|-----------|------------|
| 0.41901 | 386409.38 (06120924) | 3771067.10 | 12.68541 | (06121424) | 385296.78 | 3773131.99 |
| 0.42819 | 385287.93 (06120924) | 3773147.05 | 0.42217 | (06120924) | 385283.50 | 3773159.45 |
| 0.46807 | 385576.69 (07080524) | 3773089.48 | 0.46164 | (07080524) | 385597.95 | 3773060.25 |
| 0.48844 | 385609.46 (06120924) | 3773037.22 | 0.46592 | (07080524) | 385629.84 | 3772997.36 |
| 0.58924 | 385654.64 (06120924) | 3772953.07 | 0.53178 | (06120924) | 385706.01 | 3772876.89 |
| 0.66080 | 385752.07 (06120924) | 3772808.69 | 0.63099 | (06120924) | 385816.74 | 3772724.54 |
| 0.92822 | 385886.71 (07102124) | 3772645.70 | 0.76051 | (07102124) | 385952.26 | 3772579.27 |
| 1.38363 | 386020.46 (07102124) | 3772519.04 | 1.14405 | (07102124) | 386093.98 | 3772463.23 |
| 1.78000 | 386169.27 (06041124) | 3772410.97 | 1.51925 | (07102124) | 386248.11 | 3772359.60 |
| 4.41315 | 386328.71 (06041124) | 3772309.11 | 2.72726 | (06041124) | 386407.55 | 3772253.30 |
| 6.11358 | 387116.28 (06051624) | 3772187.40 | 5.79001 | (06101524) | 387141.00 | 3772141.51 |
| 4.83603 | 387201.01 (06101524) | 3772180.34 | 4.42697 | (07082424) | 387155.12 | 3772229.77 |
| 3.84651 | 386943.29 (06101524) | 3772540.45 | 3.85408 | (06101524) | 386925.64 | 3772582.82 |
| 7.62321 | 386526.69 (06111224) | 3770944.68 | 6.07019 | (06111224) | 386466.67 | 3770937.61 |
| 6.08930 | 386537.28 (06111224) | 3770884.66 | 4.65872 | (06111224) | 386480.80 | 3770881.13 |
| 1.36849 | 387374.01 (06103024) | 3771597.81 | 3.51030 | (06103124) | 384880.19 | 3771187.72 |
| 1.35350 | 384901.45 (07012824) | 3771161.15 | 1.34333 | (06103024) | 384909.41 | 3771118.65 |
| 1.18725 | 384912.07 (07012824) | 3771078.80 | 1.27281 | (07012824) | 384920.04 | 3771052.24 |
| *** AERMOD - VERSION 09292 *** | | | *** Elysian | | | |
| *** 11/22/10 | | | *** Aluminum PM25 | | | |
| *** 18:34:43 | | | | | | |

PAGE 11

**MODELOPTs: RegDFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

SOURCE GROUP: ALL *** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR
INCLUDING SOURCE(S): PAREA3 , PAREA4 , AREA2 , AREA3

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM.25 IN MICROGRAMS/M**3

**

| CONC | X-COORD (M) (YYMMDDHH) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) |
|----------|---------------------------|-------------|----------|------------|-------------|-------------|
| 16.28132 | 386476.85 (06121424) | 3771139.46 | 15.36852 | (06013124) | 386470.44 | 3771149.72 |
| 18.57934 | 386460.18 (06121424) | 3771159.97 | 17.61479 | (06121424) | 386449.29 | 3771172.79 |
| 21.03237 | 386440.31 (06011024) | 3771184.33 | 19.74547 | (06011024) | 386434.54 | 3771197.79 |
| 24.38736 | 386405.05 (07112824) | 3771244.59 | 24.14803 | (07112824) | 386409.54 | 3771235.61 |
| 23.55779 | 386416.59 (07112824) | 3771223.43 | 24.05738 | (07112824) | 386421.08 | 3771217.02 |
| 9.16166 | 386426.21 (07012224) | 3771209.97 | 22.71173 | (07112824) | 386274.28 | 3771299.72 |

Aluminum Cover PM2.5 Unmitigated

| | | | | | |
|--------------------------------|------------|-------------|------------|-----------|------------|
| 386278.77 | 3771290.10 | 9.77290 | (07012224) | 386287.75 | 3771280.49 |
| 10.48888 | (07012224) | | | | |
| 386296.08 | 3771269.59 | 11.05043 | (07012224) | 386303.13 | 3771259.33 |
| 11.66344 | (06010924) | | | | |
| 386340.31 | 3771210.61 | 17.57215 | (06010824) | 386331.34 | 3771222.15 |
| 16.80229 | (06010924) | | | | |
| 386323.00 | 3771233.69 | 15.75225 | (06010924) | 386312.75 | 3771248.43 |
| 13.82093 | (06010924) | | | | |
| 386415.31 | 3771092.02 | 13.67011 | (06121424) | 386380.05 | 3771051.00 |
| 11.61467 | (06011024) | | | | |
| 386392.23 | 3771050.36 | 11.80206 | (06121424) | 386374.29 | 3771063.18 |
| 12.42904 | (06011024) | | | | |
| 386402.49 | 3771098.43 | 13.92344 | (06011024) | 386419.80 | 3771082.41 |
| 13.38116 | (06121424) | | | | |
| 386163.39 | 3771763.82 | 2.57877 | (06122924) | 386081.33 | 3771480.49 |
| 4.41016 | (06121624) | | | | |
| 386103.77 | 3771527.92 | 2.98646 | (06020224) | 386120.44 | 3771576.00 |
| 3.05161 | (06032524) | | | | |
| 386135.82 | 3771613.82 | 2.98204 | (06032524) | 386146.72 | 3771651.64 |
| 3.89672 | (07021824) | | | | |
| 386156.33 | 3771690.75 | 3.20945 | (07021824) | 386164.67 | 3771730.49 |
| 2.52234 | (07112524) | | | | |
| 386716.60 | 3772090.11 | 64.51139 | (06101524) | 386705.70 | 3772082.42 |
| 80.48214 | (06101524) | | | | |
| 386714.67 | 3772074.72 | 75.65614 | (06101524) | 386723.00 | 3772061.90 |
| 69.17430 | (06050424) | | | | |
| 386731.99 | 3772036.90 | 80.07936 | (06103124) | 386728.13 | 3772051.01 |
| 75.39240 | (06103124) | | | | |
| 386737.11 | 3772022.15 | 74.82935 | (07080324) | 386699.29 | 3772099.08 |
| 69.32254 | (06101524) | | | | |
| 386690.31 | 3772107.42 | 63.79585 | (06101524) | 386682.62 | 3772113.83 |
| 63.85703 | (07090224) | | | | |
| 386674.29 | 3772123.44 | 63.19951 | (07090624) | 386664.67 | 3772134.34 |
| 61.44718 | (06072524) | | | | |
| 386654.42 | 3772145.24 | 59.48270 | (06072524) | 386605.70 | 3772127.29 |
| 45.96309 | (07031824) | | | | |
| 386590.95 | 3772133.70 | 30.24121 | (06042724) | 386579.42 | 3772139.47 |
| 23.90006 | (06042724) | | | | |
| 386560.18 | 3772147.16 | 16.94866 | (06042724) | 386545.44 | 3772154.85 |
| 13.86811 | (06041124) | | | | |
| 386533.26 | 3772162.54 | 12.18739 | (06041124) | 386542.88 | 3772179.85 |
| 11.33329 | (06042724) | | | | |
| 386553.13 | 3772195.88 | 11.27572 | (06051324) | 386568.52 | 3772208.70 |
| 12.45789 | (06051324) | | | | |
| 386581.98 | 3772192.67 | 15.84914 | (07031824) | 386595.44 | 3772181.13 |
| 21.84266 | (07031824) | | | | |
| 386609.54 | 3772168.95 | 31.58432 | (07031924) | 386624.29 | 3772152.29 |
| 50.75239 | (07031924) | | | | |
| 386619.16 | 3772140.11 | 54.38882 | (07031924) | 386640.31 | 3772163.83 |
| 48.02874 | (07031924) | | | | |
| 386653.77 | 3772174.72 | 45.23515 | (06072524) | 386665.95 | 3772186.26 |
| 41.20400 | (06072524) | | | | |
| 386677.49 | 3772197.80 | 36.80136 | (06072524) | 386688.39 | 3772208.70 |
| 32.76196 | (06072524) | | | | |
| 386701.21 | 3772222.16 | 28.00193 | (06072524) | 386448.64 | 3772217.67 |
| 5.93585 | (06041124) | | | | |
| 386456.34 | 3772212.55 | 6.28908 | (06041124) | 386465.31 | 3772206.13 |
| 6.74145 | (06041124) | | | | |
| 386474.29 | 3772200.37 | 7.23304 | (06041124) | 386481.34 | 3772194.60 |
| 7.68881 | (06041124) | | | | |
| 386489.03 | 3772190.11 | 8.16789 | (06041124) | 386499.29 | 3772183.06 |
| 8.94161 | (06041124) | | | | |
| 386507.62 | 3772177.93 | 9.61873 | (06041124) | 386514.67 | 3772171.52 |
| 10.40514 | (06041124) | | | | |
| 386576.85 | 3772219.60 | 12.71655 | (07031824) | 386586.47 | 3772209.34 |
| 15.58578 | (07031824) | | | | |
| 386597.36 | 3772197.80 | 20.04443 | (07031824) | 386606.98 | 3772187.54 |
| 25.74961 | (07031924) | | | | |
| *** AERMOD - VERSION 09292 *** | | *** Elysian | | | |
| *** | 11/22/10 | | | | |

Aluminum Cover PM2.5 Unmitigated

*** Aluminum PM25

*** 18:34:43

PAGE 12

**MODELOPTs: RegDFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR
SOURCE GROUP: ALL *** INCLUDING SOURCE(S): PAREA3 , PAREA4 , AREA2 , AREA3

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM.25 IN MICROGRAMS/M**3

**

| CONC | X-COORD (M) (YYMMDDHH) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) |
|----------|---------------------------|-------------|----------|------------|-------------|-------------|
| 58.18967 | 386620.44 (07080324) | 3772178.57 | 36.05234 | (07031924) | 386742.87 | 3772003.56 |
| 12.82730 | 386386.30 (06121424) | 3771087.29 | 13.67519 | (06011024) | 386399.28 | 3771081.52 |
| 0.41901 | 386409.38 (06120924) | 3771067.10 | 12.68541 | (06121424) | 385296.78 | 3773131.99 |
| 0.42819 | 385287.93 (06120924) | 3773147.05 | 0.42217 | (06120924) | 385283.50 | 3773159.45 |
| 0.46807 | 385576.69 (07080524) | 3773089.48 | 0.46164 | (07080524) | 385597.95 | 3773060.25 |
| 0.48844 | 385609.46 (06120924) | 3773037.22 | 0.46592 | (07080524) | 385629.84 | 3772997.36 |
| 0.58924 | 385654.64 (06120924) | 3772953.07 | 0.53178 | (06120924) | 385706.01 | 3772876.89 |
| 0.66080 | 385752.07 (06120924) | 3772808.69 | 0.63099 | (06120924) | 385816.74 | 3772724.54 |
| 0.92822 | 385886.71 (07102124) | 3772645.70 | 0.76051 | (07102124) | 385952.26 | 3772579.27 |
| 1.38363 | 386020.46 (07102124) | 3772519.04 | 1.14405 | (07102124) | 386093.98 | 3772463.23 |
| 1.78000 | 386169.27 (06041124) | 3772410.97 | 1.51925 | (07102124) | 386248.11 | 3772359.60 |
| 4.41315 | 386328.71 (06041124) | 3772309.11 | 2.72726 | (06041124) | 386407.55 | 3772253.30 |
| 6.11358 | 387116.28 (06051624) | 3772187.40 | 5.79001 | (06101524) | 387141.00 | 3772141.51 |
| 4.83603 | 387201.01 (06101524) | 3772180.34 | 4.42697 | (07082424) | 387155.12 | 3772229.77 |
| 3.84651 | 386943.29 (06101524) | 3772540.45 | 3.85408 | (06101524) | 386925.64 | 3772582.82 |
| 7.62321 | 386526.69 (06111224) | 3770944.68 | 6.07019 | (06111224) | 386466.67 | 3770937.61 |
| 6.08930 | 386537.28 (06111224) | 3770884.66 | 4.65872 | (06111224) | 386480.80 | 3770881.13 |
| 1.36849 | 387374.01 (06103024) | 3771597.81 | 3.51030 | (06103124) | 384880.19 | 3771187.72 |
| 1.35350 | 384901.45 (07012824) | 3771161.15 | 1.34333 | (06103024) | 384909.41 | 3771118.65 |
| 1.18725 | 384912.07 (07012824) | 3771078.80 | 1.27281 | (07012824) | 384920.04 | 3771052.24 |

*** AERMOD - VERSION 09292 ***
*** 11/22/10

*** Elysian

*** Aluminum PM25

*** 18:34:43

PAGE 13

**MODELOPTs: RegDFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

*** THE SUMMARY OF HIGHEST 24-HR RESULTS ***

Aluminum Cover PM2.5 Unmitigated

```

**                                     ** CONC OF PM.25   IN MICROGRAMS/M**3
**
                                     DATE
NETWORK
GROUP ID                            AVERAGE CONC   (YYMMDDHH)      RECEPTOR (XR, YR,
ZELEV, ZHILL, ZFLAG)                OF TYPE  GRID-ID
-----
SRCGP1  HIGH 1ST HIGH VALUE IS      80.48214 ON 06101524: AT ( 386705.70, 3772082.42,
92.99,  182.00,  0.00) DC
ALL     HIGH 1ST HIGH VALUE IS      80.48214 ON 06101524: AT ( 386705.70, 3772082.42,
92.99,  182.00,  0.00) DC

*** RECEPTOR TYPES:  GC = GRIDCART
                       GP = GRIDPOLR
                       DC = DISCCART
                       DP = DISCPOLR
*** AERMOD - VERSION 09292 ***   *** Elysian
***      11/22/10
***                               *** Aluminum PM25
***      18:34:43

PAGE 14
**MODELOPTs:  RegDFAULT CONC
                                     ELEV
                                     NODRYDPLT NOWETDPLT

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

----- Summary of Total Messages -----
A Total of          0 Fatal Error Message(s)
A Total of          0 Warning Message(s)
A Total of         113 Informational Message(s)

A Total of         17520 Hours Were Processed

A Total of          0 Calm Hours Identified

A Total of         113 Missing Hours Identified ( 0.64 Percent)

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

***** WARNING MESSAGES *****
***      NONE      ***

*****
*** AERMOD Finishes Successfully ***
*****

```

Appendix E

Health Risk Assessment Dispersion Modeling

UNMITIGATED CONSTRUCTION EMISSIONS CALCULATIONS

| Buried Concrete Cover Off-Road Equipment Emissions | |
|--|--------|
| Daily Emissions (ppd) | PM2.5 |
| | 3.9 |
| Conversion to Grams/Second | PM2.5 |
| | 0.0614 |

(pounds/day) * (453.59 grams/pound) * (1 day/8 hours) * (1 hour/60 mins) * (1 min/60 secs)

Haul Truck Emissions Calcs

| Total Trucks | Construction Schedule | | | | | Trips/Day | Work Schedule | |
|--------------|-----------------------|---------------|--------------|-------------|------------|-----------|----------------|---------------|
| | Weeks/Year | Days Per Week | Total Months | Total Weeks | Total Days | | Equip. Hrs/Day | Truck Hrs/Day |
| 47,300 | 50 | 5 | 63 | 252 | 1260 | 38 | 8 | 8 |

IDLE EMISSIONS CALCS $(gr/idle-hr) * (min/day \text{ of idle}) * (1 \text{ day}/480 \text{ min}) * (1 \text{ hr}/3600 \text{ sec}) * (\text{truck trips}/\text{day}) = \text{Daily Emissions (g/sec)}$

| Emission Type | Emissions (g/idle-hr) | Time Idle (mins) | Single Truck Emissions (g/sec) | Total Daily (g/sec) |
|---------------|-----------------------|------------------|--------------------------------|---------------------|
| PM2.5 | 0.9 | 5 | 2.6042E-06 | 0.000098 |

OFF-SITE TRUCK TRAVEL $(gr/mi) * (mi/trip) * (\text{trips}/\text{day}) * (1 \text{ day}/\text{hours of haul activity}) * (1 \text{ hour}/60 \text{ min}) * (1 \text{ min}/60 \text{ sec}) = \text{Daily Emissions (g/sec)}$

| Emission Type | Emissions (g/mi) | Trips/Day | Distance Traveled | | Single Truck Emissions (g/sec) | Total Daily (g/sec) |
|---------------|------------------|-----------|--------------------|----------------------|--------------------------------|---------------------|
| | | | to Freeway (miles) | Truck Haul Hours/Day | | |
| PM2.5 | 0.272 | 1 | 1 | 3.0 | 2.8333E-05 | 0.001064 |

ON-SITE TRUCK TRAVEL $(gr/mi) * (mi/trip) * (\text{trips}/\text{day}) * (1 \text{ day}/\text{hours of haul activity}) * (1 \text{ hour}/60 \text{ min}) * (1 \text{ min}/60 \text{ sec}) = \text{Daily Emissions (g/sec)}$

| Emission Type | Emissions (g/mi) | Trips/Day | Distance Traveled | | Single Truck Emissions (g/sec) | Total Daily (g/sec) |
|---------------|------------------|-----------|-----------------------|----------------------|--------------------------------|---------------------|
| | | | to Haul Route (miles) | Truck Haul Hours/Day | | |
| PM2.5 | 0.744 | 1 | 1 | 0.1 | 2.8417E-06 | 0.000107 |

Diesel trucks are prohibited from idling more than 5 minutes on and off site.

Idle = 0mph
 Off-site = 30mph
 On-site = 10mph

Floating Cover Off-Road Equipment Emissions

| | |
|----------------------------|--------|
| Daily Emissions (ppd) | PM2.5 |
| | 4.5 |
| Conversion to Grams/Second | PM2.5 |
| | 0.0709 |

$(\text{pounds/day}) * (453.59 \text{ grams/pound}) * (1 \text{ day}/8 \text{ hours}) * (1 \text{ hour}/60 \text{ mins}) * (1 \text{ min}/60 \text{ secs})$

Haul Truck Emissions Calcs

| Total Trucks | Construction Schedule | | | | | Trips/Day | Work Schedule | |
|--------------|-----------------------|---------------|--------------|-------------|------------|-----------|----------------|---------------|
| | Weeks/Year | Days Per Week | Total Months | Total Weeks | Total Days | | Equip. Hrs/Day | Truck Hrs/Day |
| 17,050 | 50 | 5 | 31 | 124 | 620 | 28 | 8 | 8 |

IDLE EMISSIONS CALCS $(\text{gr}/\text{idle-hr}) * (\text{min}/\text{day of idle}) * (1 \text{ day}/480 \text{ min}) * (1 \text{ hr}/3600 \text{ sec}) * (\text{truck trips}/\text{day}) = \text{Daily Emissions (g/sec)}$

| Emission Type | Emissions (g/idle-hr) | Single Truck | | |
|---------------|-----------------------|------------------|-------------------|---------------------|
| | | Time Idle (mins) | Emissions (g/sec) | Total Daily (g/sec) |
| PM2.5 | 1.024 | 5 | 2.9630E-06 | 0.00008 |

OFF-SITE TRUCK TRAVEL $(\text{gr}/\text{mi}) * (\text{mi}/\text{trip}) * (\text{trips}/\text{day}) * (1 \text{ day}/\text{hours of haul activity}) * (1 \text{ hour}/60 \text{ min}) * (1 \text{ min}/60 \text{ sec}) = \text{Daily Emissions (g/sec)}$

| Emission Type | Emissions (g/mi) | Trips/Day | Distance Traveled to | | Single Truck | |
|---------------|------------------|-----------|----------------------|----------------------|-------------------|---------------------|
| | | | Freeway (miles) | Truck Haul Hours/Day | Emissions (g/sec) | Total Daily (g/sec) |
| PM2.5 | 0.317 | 1 | 3.0 | 8 | 3.3021E-05 | 0.00091 |

ON-SITE TRUCK TRAVEL $(\text{gr}/\text{mi}) * (\text{mi}/\text{trip}) * (\text{trips}/\text{day}) * (1 \text{ day}/\text{hours of haul activity}) * (1 \text{ hour}/60 \text{ min}) * (1 \text{ min}/60 \text{ sec}) = \text{Daily Emissions (g/sec)}$

| Emission Type | Emissions (g/mi) | Trips/Day | Distance Traveled to | | Single Truck | |
|---------------|------------------|-----------|----------------------|----------------------|-------------------|---------------------|
| | | | Haul Route (miles) | Truck Haul Hours/Day | Emissions (g/sec) | Total Daily (g/sec) |
| PM2.5 | 0.898 | 1 | 0.1 | 8 | 3.1181E-06 | 0.00009 |

Diesel trucks are prohibited from idling more than 5 minutes on and off site.

Idle = 0mph
 Off-site = 30mph
 On-site = 10mph

Aluminum Cover Off-Road Equipment Emissions

| | | |
|----------------------------|-------|--------|
| Daily Emissions (ppd) | PM2.5 | 4.9 |
| Conversion to Grams/Second | PM2.5 | 0.0772 |

$(\text{pounds/day}) * (453.59 \text{ grams/pound}) * (1 \text{ day}/8 \text{ hours}) * (1 \text{ hour}/60 \text{ mins}) * (1 \text{ min}/60 \text{ secs})$

Haul Truck Emissions Calcs

| Total Trucks | Construction Schedule | | | | | Trips/Day | Work Schedule | |
|--------------|-----------------------|---------------|--------------|-------------|------------|-----------|----------------|---------------|
| | Weeks/Year | Days Per Week | Total Months | Total Weeks | Total Days | | Equip. Hrs/Day | Truck Hrs/Day |
| 24,046 | 50 | 5 | 53 | 212 | 1060 | 23 | 8 | 8 |

IDLE EMISSIONS CALCS $(\text{gr}/\text{idle-hr}) * (\text{min}/\text{day of idle}) * (1 \text{ day}/480 \text{ min}) * (1 \text{ hr}/3600 \text{ sec}) * (\text{truck trips}/\text{day}) = \text{Daily Emissions (g/sec)}$

| Emission Type | Emissions (g/idle-hr) | Single Truck | | |
|---------------|-----------------------|------------------|-------------------|---------------------|
| | | Time Idle (mins) | Emissions (g/sec) | Total Daily (g/sec) |
| PM2.5 | 1.024 | 5 | 2.9630E-06 | 0.00007 |

OFF-SITE TRUCK TRAVEL $(\text{gr}/\text{mi}) * (\text{mi}/\text{trip}) * (\text{trips}/\text{day}) * (1 \text{ day}/\text{hours of haul activity}) * (1 \text{ hour}/60 \text{ min}) * (1 \text{ min}/60 \text{ sec}) = \text{Daily Emissions (g/sec)}$

| Emission Type | Emissions (g/mi) | Trips/Day | Distance Traveled to | | Single Truck | |
|---------------|------------------|-----------|----------------------|----------------------|-------------------|---------------------|
| | | | Freeway (miles) | Truck Haul Hours/Day | Emissions (g/sec) | Total Daily (g/sec) |
| PM2.5 | 0.317 | 1 | 3.0 | 8 | 3.3021E-05 | 0.00075 |

ON-SITE TRUCK TRAVEL $(\text{gr}/\text{mi}) * (\text{mi}/\text{trip}) * (\text{trips}/\text{day}) * (1 \text{ day}/\text{hours of haul activity}) * (1 \text{ hour}/60 \text{ min}) * (1 \text{ min}/60 \text{ sec}) = \text{Daily Emissions (g/sec)}$

| Emission Type | Emissions (g/mi) | Trips/Day | Distance Traveled to | | Single Truck | |
|---------------|------------------|-----------|----------------------|----------------------|-------------------|---------------------|
| | | | Haul Route (miles) | Truck Haul Hours/Day | Emissions (g/sec) | Total Daily (g/sec) |
| PM2.5 | 0.898 | 1 | 0.1 | 8 | 3.1181E-06 | 0.00007 |

Diesel trucks are prohibited from idling more than 5 minutes on and off site.

Idle = 0mph
 Off-site = 30mph
 On-site = 10mph

Inlet Line Off-Road Equipment Emissions

| | |
|----------------------------|--------|
| Daily Emissions (ppd) | PM2.5 |
| | 2.9 |
| Conversion to Grams/Second | PM2.5 |
| | 0.0457 |

$(pounds/day) * (453.59 \text{ grams/pound}) * (1 \text{ day}/8 \text{ hours}) * (1 \text{ hour}/60 \text{ mins}) * (1 \text{ min}/60 \text{ secs})$

Haul Truck Emissions Calcs

| Total Trucks | Construction Schedule | | | | | Trips/Day | Work Schedule | |
|--------------|-----------------------|---------------|--------------|-------------|------------|-----------|----------------|---------------|
| | Weeks/Year | Days Per Week | Total Months | Total Weeks | Total Days | | Equip. Hrs/Day | Truck Hrs/Day |
| 5,641 | 50 | 5 | 22 | 88 | 440 | 13 | 8 | 8 |

IDLE EMISSIONS CALCS $(gr/idle-hr) * (min/day \text{ of idle}) * (1 \text{ day}/480 \text{ min}) * (1 \text{ hr}/3600 \text{ sec}) * (\text{truck trips}/\text{day}) = \text{Daily Emissions (g/sec)}$

| Emission Type | Emissions (g/idle-hr) | Time Idle (mins) | Single Truck | |
|---------------|-----------------------|------------------|-------------------|---------------------|
| | | | Emissions (g/sec) | Total Daily (g/sec) |
| PM2.5 | 0.9 | 5 | 2.6042E-06 | 0.00003 |

OFF-SITE TRUCK TRAVEL $(gr/mi) * (mi/trip) * (\text{trips}/\text{day}) * (1 \text{ day}/\text{hours of haul activity}) * (1 \text{ hour}/60 \text{ min}) * (1 \text{ min}/60 \text{ sec}) = \text{Daily Emissions (g/sec)}$

| Emission Type | Emissions (g/mi) | Trips/Day | Distance Traveled to | | Single Truck | | |
|---------------|------------------|-----------|----------------------|----------------------|-------------------|---------------------|---------|
| | | | Freeway (miles) | Truck Haul Hours/Day | Emissions (g/sec) | Total Daily (g/sec) | |
| PM2.5 | 0.272 | 1 | 1 | 0.2 | 8 | 1.8889E-06 | 0.00002 |

ON-SITE TRUCK TRAVEL $(gr/mi) * (mi/trip) * (\text{trips}/\text{day}) * (1 \text{ day}/\text{hours of haul activity}) * (1 \text{ hour}/60 \text{ min}) * (1 \text{ min}/60 \text{ sec}) = \text{Daily Emissions (g/sec)}$

| Emission Type | Emissions (g/mi) | Trips/Day | Distance Traveled to Haul Route | | Single Truck | | |
|---------------|------------------|-----------|---------------------------------|----------------------|-------------------|---------------------|---------|
| | | | (miles) | Truck Haul Hours/Day | Emissions (g/sec) | Total Daily (g/sec) | |
| PM2.5 | 0.744 | 0 | 0 | 0.0 | 8 | 0.0000E+00 | 0.00000 |

Diesel trucks are prohibited from idling more than 5 minutes on and off site.

Idle = 0mph
 Off-site = 30mph
 On-site = 10mph

Buried Reservoir HRA

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**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 6.7.1
** Lakes Environmental Software Inc.
** Date: 1/25/2011
** File: C:\Documents and Settings\jbailey\Desktop\HRA 1_25\Diesel HRA Internal\B_RS_HRA.ADI
**
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**
CO STARTING
TITLEONE Elysian
TITLETWO Buried Reservoir HRA
MODELOPT DFAULT CONC NODRYDPLT NOWETDPLT
AVERTIME ANNUAL
URBANOPT 9862049 LA
POLLUTID PM.25
RUNORNOT RUN
CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
LOCATION RESEQUIP AREAPOLY 386606.494 3771295.572 139.670
** DESCRSRC Reservoir Equipment
LOCATION RESIDLE AREAPOLY 386606.494 3771295.572 139.670
** DESCRSRC Reservoir Idle
LOCATION RESONTRU AREAPOLY 386606.494 3771295.572 139.670
** DESCRSRC Reservoir On-site Truck
** Line Source represented by Separated Volume Sources
** -----
** LINE Source ID = RESOFFHL
** DESCRSRC Reservoir Haul Trucks
** Length of Side = 10.00
** Emission Rate = 0.001064
** Vertical Dimension = 1.16
** SZINIT = 0.54
** Nodes = 73
** 386729.85, 3771529.57, 121.41, 1.52, 0.0
** 385682.70, 3772787.09, 111.56, 1.52, 9.30
** -----
LOCATION L0001490 VOLUME 386725.336 3771531.732 121.67
LOCATION L0001491 VOLUME 386707.303 3771540.374 122.87
LOCATION L0001492 VOLUME 386689.269 3771549.015 124.24
LOCATION L0001493 VOLUME 386671.235 3771557.656 126.11
LOCATION L0001494 VOLUME 386653.202 3771566.297 129.80
LOCATION L0001495 VOLUME 386635.168 3771574.938 133.39
LOCATION L0001496 VOLUME 386617.134 3771583.579 136.91
LOCATION L0001497 VOLUME 386599.116 3771592.253 140.33
LOCATION L0001498 VOLUME 386581.099 3771600.928 144.21
LOCATION L0001499 VOLUME 386563.082 3771609.603 148.19
LOCATION L0001500 VOLUME 386546.900 3771620.766 151.30
LOCATION L0001501 VOLUME 386533.293 3771635.420 153.44
LOCATION L0001502 VOLUME 386521.215 3771650.856 155.11
LOCATION L0001503 VOLUME 386517.294 3771670.465 154.84
LOCATION L0001504 VOLUME 386513.372 3771690.074 154.94
LOCATION L0001505 VOLUME 386510.665 3771709.664 152.78
LOCATION L0001506 VOLUME 386515.161 3771729.149 146.52
LOCATION L0001507 VOLUME 386516.237 3771748.891 141.58
LOCATION L0001508 VOLUME 386514.376 3771768.679 137.63
LOCATION L0001509 VOLUME 386500.236 3771782.819 138.73
LOCATION L0001510 VOLUME 386483.394 3771786.898 142.87
LOCATION L0001511 VOLUME 386464.072 3771781.746 150.29
LOCATION L0001512 VOLUME 386445.517 3771785.810 154.81
LOCATION L0001513 VOLUME 386427.067 3771790.465 158.19
LOCATION L0001514 VOLUME 386408.141 3771784.437 164.34
LOCATION L0001515 VOLUME 386398.429 3771766.956 169.80
LOCATION L0001516 VOLUME 386395.215 3771747.501 173.71
LOCATION L0001517 VOLUME 386397.623 3771728.356 176.78
LOCATION L0001518 VOLUME 386405.709 3771710.376 179.73
LOCATION L0001519 VOLUME 386400.859 3771690.976 181.59
LOCATION L0001520 VOLUME 386390.001 3771675.190 181.02
LOCATION L0001521 VOLUME 386375.203 3771661.765 180.94
LOCATION L0001522 VOLUME 386367.081 3771643.492 180.79
LOCATION L0001523 VOLUME 386374.788 3771626.331 179.95
LOCATION L0001524 VOLUME 386387.150 3771610.669 178.58
LOCATION L0001525 VOLUME 386392.988 3771592.455 177.17
LOCATION L0001526 VOLUME 386389.456 3771574.475 176.54
LOCATION L0001527 VOLUME 386378.442 3771558.218 176.98
LOCATION L0001528 VOLUME 386383.750 3771542.378 175.58
LOCATION L0001529 VOLUME 386397.890 3771528.238 172.86
LOCATION L0001530 VOLUME 386412.064 3771514.133 169.79
LOCATION L0001531 VOLUME 386426.581 3771500.380 166.97
LOCATION L0001532 VOLUME 386441.098 3771486.627 164.31
LOCATION L0001533 VOLUME 386455.615 3771472.874 161.92
LOCATION L0001534 VOLUME 386469.460 3771459.004 159.74
LOCATION L0001535 VOLUME 386477.735 3771440.799 158.25
LOCATION L0001536 VOLUME 386490.133 3771425.288 156.42
LOCATION L0001537 VOLUME 386503.481 3771410.399 154.37
LOCATION L0001538 VOLUME 386516.830 3771395.510 152.35
LOCATION L0001539 VOLUME 386530.179 3771380.621 150.43
LOCATION L0001540 VOLUME 386542.508 3771365.058 148.71
LOCATION L0001541 VOLUME 386550.965 3771346.937 147.42
LOCATION L0001542 VOLUME 386559.421 3771328.816 146.21
LOCATION L0001543 VOLUME 386567.877 3771310.695 144.48
LOCATION L0001544 VOLUME 386572.680 3771292.135 143.02
LOCATION L0001545 VOLUME 386568.758 3771272.526 142.30
LOCATION L0001546 VOLUME 386564.836 3771252.917 141.57
LOCATION L0001547 VOLUME 386550.574 3771239.602 142.12
LOCATION L0001548 VOLUME 386533.905 3771228.889 143.13
LOCATION L0001549 VOLUME 386515.446 3771221.197 144.42
LOCATION L0001550 VOLUME 386499.719 3771209.068 144.90
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Buried Reservoir HRA

| | | | | | |
|----------|----------|--------|------------|-------------|--------|
| LOCATION | L0001551 | VOLUME | 386484.536 | 3771196.054 | 145.30 |
| LOCATION | L0001552 | VOLUME | 386474.816 | 3771179.259 | 145.19 |
| LOCATION | L0001553 | VOLUME | 386466.741 | 3771169.997 | 145.30 |
| LOCATION | L0001554 | VOLUME | 386455.321 | 3771186.413 | 146.76 |
| LOCATION | L0001555 | VOLUME | 386443.902 | 3771202.828 | 148.22 |
| LOCATION | L0001556 | VOLUME | 386432.482 | 3771219.244 | 149.67 |
| LOCATION | L0001557 | VOLUME | 386421.062 | 3771235.660 | 151.14 |
| LOCATION | L0001558 | VOLUME | 386409.643 | 3771252.075 | 153.16 |
| LOCATION | L0001559 | VOLUME | 386398.223 | 3771268.491 | 155.26 |
| LOCATION | L0001560 | VOLUME | 386389.387 | 3771286.298 | 157.36 |
| LOCATION | L0001561 | VOLUME | 386381.960 | 3771304.865 | 159.46 |
| LOCATION | L0001562 | VOLUME | 386372.998 | 3771322.713 | 161.66 |
| LOCATION | L0001563 | VOLUME | 386363.489 | 3771340.304 | 163.92 |
| LOCATION | L0001564 | VOLUME | 386353.980 | 3771357.896 | 166.44 |
| LOCATION | L0001565 | VOLUME | 386344.471 | 3771375.487 | 169.10 |
| LOCATION | L0001566 | VOLUME | 386334.962 | 3771393.079 | 171.90 |
| LOCATION | L0001567 | VOLUME | 386319.778 | 3771405.359 | 174.97 |
| LOCATION | L0001568 | VOLUME | 386302.855 | 3771416.014 | 178.24 |
| LOCATION | L0001569 | VOLUME | 386285.933 | 3771426.669 | 180.93 |
| LOCATION | L0001570 | VOLUME | 386269.011 | 3771437.323 | 180.30 |
| LOCATION | L0001571 | VOLUME | 386261.198 | 3771455.708 | 180.43 |
| LOCATION | L0001572 | VOLUME | 386253.438 | 3771474.138 | 180.72 |
| LOCATION | L0001573 | VOLUME | 386252.124 | 3771493.238 | 181.28 |
| LOCATION | L0001574 | VOLUME | 386255.930 | 3771512.869 | 181.90 |
| LOCATION | L0001575 | VOLUME | 386259.736 | 3771532.501 | 182.00 |
| LOCATION | L0001576 | VOLUME | 386263.542 | 3771552.132 | 182.00 |
| LOCATION | L0001577 | VOLUME | 386267.348 | 3771571.763 | 182.00 |
| LOCATION | L0001578 | VOLUME | 386271.154 | 3771591.395 | 182.00 |
| LOCATION | L0001579 | VOLUME | 386274.960 | 3771611.026 | 182.00 |
| LOCATION | L0001580 | VOLUME | 386278.767 | 3771630.658 | 182.00 |
| LOCATION | L0001581 | VOLUME | 386282.573 | 3771650.289 | 182.00 |
| LOCATION | L0001582 | VOLUME | 386286.379 | 3771669.921 | 182.00 |
| LOCATION | L0001583 | VOLUME | 386290.185 | 3771689.552 | 182.00 |
| LOCATION | L0001584 | VOLUME | 386293.991 | 3771709.184 | 181.97 |
| LOCATION | L0001585 | VOLUME | 386286.825 | 3771726.752 | 182.00 |
| LOCATION | L0001586 | VOLUME | 386276.147 | 3771743.659 | 182.00 |
| LOCATION | L0001587 | VOLUME | 386266.374 | 3771760.871 | 182.00 |
| LOCATION | L0001588 | VOLUME | 386264.641 | 3771780.793 | 182.00 |
| LOCATION | L0001589 | VOLUME | 386262.909 | 3771800.715 | 181.66 |
| LOCATION | L0001590 | VOLUME | 386263.214 | 3771820.533 | 180.73 |
| LOCATION | L0001591 | VOLUME | 386266.956 | 3771840.177 | 179.65 |
| LOCATION | L0001592 | VOLUME | 386270.697 | 3771859.821 | 178.43 |
| LOCATION | L0001593 | VOLUME | 386274.439 | 3771879.465 | 177.08 |
| LOCATION | L0001594 | VOLUME | 386278.181 | 3771899.109 | 174.54 |
| LOCATION | L0001595 | VOLUME | 386279.351 | 3771918.713 | 171.67 |
| LOCATION | L0001596 | VOLUME | 386271.435 | 3771933.774 | 171.18 |
| LOCATION | L0001597 | VOLUME | 386251.438 | 3771933.774 | 175.19 |
| LOCATION | L0001598 | VOLUME | 386233.440 | 3771926.611 | 179.02 |
| LOCATION | L0001599 | VOLUME | 386216.333 | 3771916.256 | 182.00 |
| LOCATION | L0001600 | VOLUME | 386199.225 | 3771905.902 | 182.00 |
| LOCATION | L0001601 | VOLUME | 386182.118 | 3771895.547 | 182.00 |
| LOCATION | L0001602 | VOLUME | 386165.010 | 3771885.193 | 182.00 |
| LOCATION | L0001603 | VOLUME | 386146.638 | 3771878.988 | 182.00 |
| LOCATION | L0001604 | VOLUME | 386126.663 | 3771878.037 | 182.00 |
| LOCATION | L0001605 | VOLUME | 386106.689 | 3771877.086 | 182.00 |
| LOCATION | L0001606 | VOLUME | 386112.843 | 3771859.263 | 182.00 |
| LOCATION | L0001607 | VOLUME | 386120.195 | 3771840.666 | 182.00 |
| LOCATION | L0001608 | VOLUME | 386127.548 | 3771822.070 | 182.00 |
| LOCATION | L0001609 | VOLUME | 386134.900 | 3771803.473 | 182.00 |
| LOCATION | L0001610 | VOLUME | 386142.252 | 3771784.877 | 182.00 |
| LOCATION | L0001611 | VOLUME | 386145.109 | 3771765.634 | 182.00 |
| LOCATION | L0001612 | VOLUME | 386143.299 | 3771745.719 | 182.00 |
| LOCATION | L0001613 | VOLUME | 386141.488 | 3771725.804 | 182.00 |
| LOCATION | L0001614 | VOLUME | 386135.478 | 3771706.798 | 182.00 |
| LOCATION | L0001615 | VOLUME | 386128.892 | 3771687.917 | 181.98 |
| LOCATION | L0001616 | VOLUME | 386122.305 | 3771669.035 | 181.93 |
| LOCATION | L0001617 | VOLUME | 386115.719 | 3771650.154 | 181.84 |
| LOCATION | L0001618 | VOLUME | 386109.132 | 3771631.273 | 181.72 |
| LOCATION | L0001619 | VOLUME | 386101.675 | 3771612.743 | 181.56 |
| LOCATION | L0001620 | VOLUME | 386093.333 | 3771594.569 | 181.10 |
| LOCATION | L0001621 | VOLUME | 386084.991 | 3771576.395 | 180.60 |
| LOCATION | L0001622 | VOLUME | 386076.649 | 3771558.221 | 180.10 |
| LOCATION | L0001623 | VOLUME | 386068.307 | 3771540.047 | 179.59 |
| LOCATION | L0001624 | VOLUME | 386059.964 | 3771521.873 | 179.09 |
| LOCATION | L0001625 | VOLUME | 386051.622 | 3771503.699 | 178.70 |
| LOCATION | L0001626 | VOLUME | 386043.280 | 3771485.525 | 178.37 |
| LOCATION | L0001627 | VOLUME | 386029.150 | 3771481.644 | 178.69 |
| LOCATION | L0001628 | VOLUME | 386010.513 | 3771488.892 | 179.46 |
| LOCATION | L0001629 | VOLUME | 385991.875 | 3771496.140 | 180.19 |
| LOCATION | L0001630 | VOLUME | 385973.238 | 3771503.388 | 180.79 |
| LOCATION | L0001631 | VOLUME | 385954.601 | 3771510.635 | 181.22 |
| LOCATION | L0001632 | VOLUME | 385935.963 | 3771517.883 | 181.57 |
| LOCATION | L0001633 | VOLUME | 385917.326 | 3771525.131 | 181.84 |
| LOCATION | L0001634 | VOLUME | 385898.689 | 3771532.379 | 182.00 |
| LOCATION | L0001635 | VOLUME | 385880.051 | 3771539.627 | 182.00 |
| LOCATION | L0001636 | VOLUME | 385861.414 | 3771546.875 | 182.00 |
| LOCATION | L0001637 | VOLUME | 385842.777 | 3771554.123 | 182.00 |
| LOCATION | L0001638 | VOLUME | 385824.139 | 3771561.370 | 182.00 |
| LOCATION | L0001639 | VOLUME | 385805.502 | 3771568.618 | 182.00 |
| LOCATION | L0001640 | VOLUME | 385786.865 | 3771575.866 | 182.00 |
| LOCATION | L0001641 | VOLUME | 385768.227 | 3771583.114 | 182.00 |
| LOCATION | L0001642 | VOLUME | 385749.590 | 3771590.362 | 182.00 |
| LOCATION | L0001643 | VOLUME | 385730.953 | 3771597.610 | 182.00 |
| LOCATION | L0001644 | VOLUME | 385712.315 | 3771604.857 | 182.00 |
| LOCATION | L0001645 | VOLUME | 385693.678 | 3771612.105 | 182.00 |
| LOCATION | L0001646 | VOLUME | 385675.041 | 3771619.353 | 182.00 |
| LOCATION | L0001647 | VOLUME | 385656.403 | 3771626.601 | 182.00 |
| LOCATION | L0001648 | VOLUME | 385637.766 | 3771633.849 | 182.00 |
| LOCATION | L0001649 | VOLUME | 385619.129 | 3771641.097 | 182.00 |
| LOCATION | L0001650 | VOLUME | 385599.525 | 3771642.098 | 182.00 |
| LOCATION | L0001651 | VOLUME | 385579.568 | 3771640.825 | 182.00 |
| LOCATION | L0001652 | VOLUME | 385559.612 | 3771639.551 | 182.00 |
| LOCATION | L0001653 | VOLUME | 385539.655 | 3771638.277 | 182.00 |
| LOCATION | L0001654 | VOLUME | 385519.699 | 3771637.003 | 182.00 |
| LOCATION | L0001655 | VOLUME | 385500.188 | 3771634.268 | 182.00 |
| LOCATION | L0001656 | VOLUME | 385482.915 | 3771624.192 | 182.00 |
| LOCATION | L0001657 | VOLUME | 385465.642 | 3771614.116 | 182.00 |
| LOCATION | L0001658 | VOLUME | 385448.369 | 3771604.040 | 182.00 |
| LOCATION | L0001659 | VOLUME | 385431.281 | 3771593.655 | 182.00 |
| LOCATION | L0001660 | VOLUME | 385414.218 | 3771583.227 | 182.00 |
| LOCATION | L0001661 | VOLUME | 385399.826 | 3771570.167 | 182.00 |
| LOCATION | L0001662 | VOLUME | 385389.645 | 3771552.955 | 182.00 |
| LOCATION | L0001663 | VOLUME | 385379.463 | 3771535.744 | 182.00 |
| LOCATION | L0001664 | VOLUME | 385369.282 | 3771518.533 | 182.00 |

Buried Reservoir HRA

| | | | | | |
|----------|----------|--------|------------|-------------|--------|
| LOCATION | L0001665 | VOLUME | 385359.101 | 3771501.322 | 182.00 |
| LOCATION | L0001666 | VOLUME | 385348.920 | 3771484.111 | 182.00 |
| LOCATION | L0001667 | VOLUME | 385338.738 | 3771466.900 | 182.00 |
| LOCATION | L0001668 | VOLUME | 385328.557 | 3771449.689 | 182.00 |
| LOCATION | L0001669 | VOLUME | 385318.376 | 3771432.477 | 182.00 |
| LOCATION | L0001670 | VOLUME | 385308.195 | 3771415.266 | 182.00 |
| LOCATION | L0001671 | VOLUME | 385293.194 | 3771414.892 | 182.00 |
| LOCATION | L0001672 | VOLUME | 385275.448 | 3771424.109 | 182.00 |
| LOCATION | L0001673 | VOLUME | 385257.701 | 3771433.326 | 182.00 |
| LOCATION | L0001674 | VOLUME | 385239.955 | 3771442.543 | 182.00 |
| LOCATION | L0001675 | VOLUME | 385222.209 | 3771451.760 | 182.00 |
| LOCATION | L0001676 | VOLUME | 385204.463 | 3771460.977 | 182.00 |
| LOCATION | L0001677 | VOLUME | 385186.717 | 3771470.194 | 182.00 |
| LOCATION | L0001678 | VOLUME | 385168.970 | 3771479.411 | 182.00 |
| LOCATION | L0001679 | VOLUME | 385151.224 | 3771488.628 | 182.00 |
| LOCATION | L0001680 | VOLUME | 385133.478 | 3771497.845 | 182.00 |
| LOCATION | L0001681 | VOLUME | 385115.732 | 3771507.063 | 182.00 |
| LOCATION | L0001682 | VOLUME | 385097.986 | 3771516.280 | 182.00 |
| LOCATION | L0001683 | VOLUME | 385080.239 | 3771525.497 | 182.00 |
| LOCATION | L0001684 | VOLUME | 385062.493 | 3771534.714 | 182.00 |
| LOCATION | L0001685 | VOLUME | 385044.747 | 3771543.931 | 181.97 |
| LOCATION | L0001686 | VOLUME | 385027.001 | 3771553.148 | 181.90 |
| LOCATION | L0001687 | VOLUME | 385009.255 | 3771562.365 | 181.78 |
| LOCATION | L0001688 | VOLUME | 384994.660 | 3771575.038 | 181.60 |
| LOCATION | L0001689 | VOLUME | 384983.846 | 3771591.859 | 181.36 |
| LOCATION | L0001690 | VOLUME | 384983.078 | 3771608.977 | 181.16 |
| LOCATION | L0001691 | VOLUME | 384992.882 | 3771626.405 | 181.10 |
| LOCATION | L0001692 | VOLUME | 385002.605 | 3771643.879 | 181.09 |
| LOCATION | L0001693 | VOLUME | 385012.156 | 3771661.448 | 181.12 |
| LOCATION | L0001694 | VOLUME | 385021.707 | 3771679.016 | 181.19 |
| LOCATION | L0001695 | VOLUME | 385031.258 | 3771696.585 | 181.31 |
| LOCATION | L0001696 | VOLUME | 385040.809 | 3771714.154 | 181.48 |
| LOCATION | L0001697 | VOLUME | 385050.359 | 3771731.723 | 181.74 |
| LOCATION | L0001698 | VOLUME | 385059.910 | 3771749.292 | 181.97 |
| LOCATION | L0001699 | VOLUME | 385069.461 | 3771766.860 | 182.00 |
| LOCATION | L0001700 | VOLUME | 385079.012 | 3771784.429 | 182.00 |
| LOCATION | L0001701 | VOLUME | 385088.563 | 3771801.998 | 182.00 |
| LOCATION | L0001702 | VOLUME | 385098.114 | 3771819.567 | 182.00 |
| LOCATION | L0001703 | VOLUME | 385107.664 | 3771837.136 | 182.00 |
| LOCATION | L0001704 | VOLUME | 385117.215 | 3771854.704 | 182.00 |
| LOCATION | L0001705 | VOLUME | 385126.766 | 3771872.273 | 182.00 |
| LOCATION | L0001706 | VOLUME | 385136.317 | 3771889.842 | 182.00 |
| LOCATION | L0001707 | VOLUME | 385145.868 | 3771907.411 | 182.00 |
| LOCATION | L0001708 | VOLUME | 385155.419 | 3771924.980 | 182.00 |
| LOCATION | L0001709 | VOLUME | 385164.969 | 3771942.548 | 182.00 |
| LOCATION | L0001710 | VOLUME | 385174.520 | 3771960.117 | 182.00 |
| LOCATION | L0001711 | VOLUME | 385184.071 | 3771977.686 | 182.00 |
| LOCATION | L0001712 | VOLUME | 385194.622 | 3771994.255 | 182.00 |
| LOCATION | L0001713 | VOLUME | 385204.173 | 3772008.960 | 182.00 |
| LOCATION | L0001714 | VOLUME | 385222.239 | 3772023.487 | 182.00 |
| LOCATION | L0001715 | VOLUME | 385235.981 | 3772038.014 | 182.00 |
| LOCATION | L0001716 | VOLUME | 385249.723 | 3772052.541 | 182.00 |
| LOCATION | L0001717 | VOLUME | 385263.465 | 3772067.069 | 182.00 |
| LOCATION | L0001718 | VOLUME | 385277.207 | 3772081.596 | 182.00 |
| LOCATION | L0001719 | VOLUME | 385290.949 | 3772096.123 | 182.00 |
| LOCATION | L0001720 | VOLUME | 385304.691 | 3772110.650 | 182.00 |
| LOCATION | L0001721 | VOLUME | 385318.433 | 3772125.177 | 182.00 |
| LOCATION | L0001722 | VOLUME | 385332.175 | 3772139.705 | 182.00 |
| LOCATION | L0001723 | VOLUME | 385345.917 | 3772154.232 | 182.00 |
| LOCATION | L0001724 | VOLUME | 385359.750 | 3772168.760 | 182.00 |
| LOCATION | L0001725 | VOLUME | 385373.890 | 3772182.810 | 182.00 |
| LOCATION | L0001726 | VOLUME | 385388.030 | 3772196.950 | 182.00 |
| LOCATION | L0001727 | VOLUME | 385402.170 | 3772211.090 | 182.00 |
| LOCATION | L0001728 | VOLUME | 385416.310 | 3772225.230 | 182.00 |
| LOCATION | L0001729 | VOLUME | 385430.450 | 3772239.370 | 182.00 |
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| LOCATION | L0001731 | VOLUME | 385458.730 | 3772267.650 | 181.99 |
| LOCATION | L0001732 | VOLUME | 385472.870 | 3772281.790 | 181.85 |
| LOCATION | L0001733 | VOLUME | 385487.010 | 3772295.930 | 181.55 |
| LOCATION | L0001734 | VOLUME | 385501.150 | 3772310.071 | 181.07 |
| LOCATION | L0001735 | VOLUME | 385515.291 | 3772324.211 | 180.43 |
| LOCATION | L0001736 | VOLUME | 385529.431 | 3772338.351 | 179.61 |
| LOCATION | L0001737 | VOLUME | 385543.571 | 3772352.491 | 178.80 |
| LOCATION | L0001738 | VOLUME | 385557.711 | 3772366.631 | 178.00 |
| LOCATION | L0001739 | VOLUME | 385568.982 | 3772383.157 | 174.07 |
| LOCATION | L0001740 | VOLUME | 385580.311 | 3772399.635 | 171.01 |
| LOCATION | L0001741 | VOLUME | 385588.915 | 3772417.586 | 167.65 |
| LOCATION | L0001742 | VOLUME | 385596.486 | 3772436.094 | 164.08 |
| LOCATION | L0001743 | VOLUME | 385604.058 | 3772454.602 | 160.38 |
| LOCATION | L0001744 | VOLUME | 385611.629 | 3772473.110 | 156.67 |
| LOCATION | L0001745 | VOLUME | 385619.201 | 3772491.619 | 152.80 |
| LOCATION | L0001746 | VOLUME | 385626.772 | 3772510.127 | 148.67 |
| LOCATION | L0001747 | VOLUME | 385634.344 | 3772528.635 | 144.26 |
| LOCATION | L0001748 | VOLUME | 385641.915 | 3772547.143 | 139.92 |
| LOCATION | L0001749 | VOLUME | 385649.487 | 3772565.651 | 136.05 |
| LOCATION | L0001750 | VOLUME | 385657.059 | 3772584.160 | 132.14 |
| LOCATION | L0001751 | VOLUME | 385664.630 | 3772602.668 | 128.19 |
| LOCATION | L0001752 | VOLUME | 385667.061 | 3772621.790 | 124.98 |
| LOCATION | L0001753 | VOLUME | 385664.065 | 3772641.562 | 123.15 |
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| LOCATION | L0001755 | VOLUME | 385658.074 | 3772681.105 | 120.46 |
| LOCATION | L0001756 | VOLUME | 385651.247 | 3772699.524 | 119.46 |
| LOCATION | L0001757 | VOLUME | 385641.171 | 3772716.797 | 118.61 |
| LOCATION | L0001758 | VOLUME | 385631.095 | 3772734.070 | 118.13 |
| LOCATION | L0001759 | VOLUME | 385621.019 | 3772751.343 | 118.20 |
| LOCATION | L0001760 | VOLUME | 385610.943 | 3772768.616 | 118.31 |
| LOCATION | L0001761 | VOLUME | 385600.867 | 3772785.889 | 118.76 |
| LOCATION | L0001762 | VOLUME | 385590.791 | 3772803.162 | 118.61 |
| LOCATION | L0001763 | VOLUME | 385580.715 | 3772820.435 | 117.96 |
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| LOCATION | L0001765 | VOLUME | 385560.564 | 3772854.981 | 117.45 |
| LOCATION | L0001766 | VOLUME | 385550.488 | 3772872.254 | 117.16 |
| LOCATION | L0001767 | VOLUME | 385541.027 | 3772889.527 | 116.87 |
| LOCATION | L0001768 | VOLUME | 385531.316 | 3772907.800 | 116.55 |
| LOCATION | L0001769 | VOLUME | 385521.478 | 3772924.750 | 116.06 |
| LOCATION | L0001770 | VOLUME | 385508.382 | 3772939.862 | 115.86 |
| LOCATION | L0001771 | VOLUME | 385495.285 | 3772954.974 | 115.60 |
| LOCATION | L0001772 | VOLUME | 385482.188 | 3772970.085 | 115.28 |
| LOCATION | L0001773 | VOLUME | 385469.092 | 3772985.197 | 114.91 |
| LOCATION | L0001774 | VOLUME | 385455.995 | 3773000.308 | 114.57 |
| LOCATION | L0001775 | VOLUME | 385442.898 | 3773015.420 | 114.35 |
| LOCATION | L0001776 | VOLUME | 385429.802 | 3773030.531 | 114.15 |
| LOCATION | L0001777 | VOLUME | 385415.131 | 3773044.120 | 114.05 |
| LOCATION | L0001778 | VOLUME | 385400.458 | 3773057.706 | 113.90 |

Buried Reservoir HRA

LOCATION L0001779 VOLUME 385385.785 3773071.292 113.70
LOCATION L0001780 VOLUME 385371.112 3773084.879 114.09
LOCATION L0001781 VOLUME 385367.792 3773102.493 113.14
LOCATION L0001782 VOLUME 385383.809 3773110.925 111.44
LOCATION L0001783 VOLUME 385401.399 3773105.589 110.95
LOCATION L0001784 VOLUME 385414.637 3773090.601 111.28
LOCATION L0001785 VOLUME 385427.875 3773075.613 111.61
LOCATION L0001786 VOLUME 385441.112 3773060.625 111.90
LOCATION L0001787 VOLUME 385454.350 3773045.637 112.12
LOCATION L0001788 VOLUME 385467.588 3773030.649 112.35
LOCATION L0001789 VOLUME 385480.825 3773015.660 112.62
LOCATION L0001790 VOLUME 385494.063 3773000.672 112.92
LOCATION L0001791 VOLUME 385507.301 3772985.684 113.26
LOCATION L0001792 VOLUME 385520.539 3772970.696 113.54
LOCATION L0001793 VOLUME 385533.776 3772955.708 113.76
LOCATION L0001794 VOLUME 385547.014 3772940.720 113.76
LOCATION L0001795 VOLUME 385560.252 3772925.732 113.69
LOCATION L0001796 VOLUME 385573.489 3772910.743 113.62
LOCATION L0001797 VOLUME 385586.727 3772895.755 113.55
LOCATION L0001798 VOLUME 385599.965 3772880.767 113.48
LOCATION L0001799 VOLUME 385613.202 3772865.779 113.41
LOCATION L0001800 VOLUME 385626.440 3772850.791 113.34
LOCATION L0001801 VOLUME 385639.678 3772835.803 113.27
LOCATION L0001802 VOLUME 385652.916 3772820.814 113.20
LOCATION L0001803 VOLUME 385666.153 3772805.826 112.92
LOCATION L0001804 VOLUME 385679.391 3772790.838 112.53
** End of Line Source
LOCATION CALXPQ AREAPOLY 386596.536 3772117.718 96.500
** DESCRSRC Caltrans Equipment
LOCATION CALIDL AREAPOLY 386596.536 3772117.718 96.500
** DESCRSRC Caltrans Idle
** Line Source represented by Separated Volume Sources
**-----
** LINE Source ID = CALHAUL
** DESCRSRC Caltrans Haul Trucks
** Length of Side = 15.00
** Emission Rate = 0.00002
** Vertical Dimension = 1.16
** SZINIT = 0.54
** Nodes = 2
** 386679.66, 3772075.63, 92.09, 0.00, 0.0
** 386421.41, 3772187.54, 105.89, 0.00, 13.77
**-----
LOCATION L0001371 VOLUME 386672.778 3772078.612 92.46
LOCATION L0001372 VOLUME 386645.613 3772090.384 94.03
LOCATION L0001373 VOLUME 386618.448 3772102.156 95.41
LOCATION L0001374 VOLUME 386591.283 3772113.927 97.03
LOCATION L0001375 VOLUME 386564.118 3772125.699 98.89
LOCATION L0001376 VOLUME 386536.952 3772137.471 100.48
LOCATION L0001377 VOLUME 386509.787 3772149.243 101.78
LOCATION L0001378 VOLUME 386482.622 3772161.014 102.89
LOCATION L0001379 VOLUME 386455.457 3772172.786 104.17
LOCATION L0001380 VOLUME 386428.292 3772184.558 105.59
** End of Line Source
** Source Parameters **
SRCPARAM RESEQUIP 2.0164E-06 5.000 18
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AREAVERT RESEQUIP 386502.641 3771467.538 386454.064 3771523.011
AREAVERT RESEQUIP 386432.288 3771547.577 386455.739 3771575.313
AREAVERT RESEQUIP 386485.890 3771583.238 386543.680 3771557.879
AREAVERT RESEQUIP 386593.931 3771507.954 386619.057 3771483.387
AREAVERT RESEQUIP 386650.046 3771442.179 386660.096 3771427.914
AREAVERT RESEQUIP 386676.847 3771408.103 386688.572 3771388.291
AREAVERT RESEQUIP 386676.847 3771361.347 386655.909 3771323.308
AREAVERT RESEQUIP 386640.833 3771309.044 386614.032 3771295.572
SRCPARAM RESIDLE 3.2183E-09 5.000 18 0.000
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AREAVERT RESIDLE 386502.641 3771467.538 386454.064 3771523.011
AREAVERT RESIDLE 386432.288 3771547.577 386455.739 3771575.313
AREAVERT RESIDLE 386485.890 3771583.238 386543.680 3771557.879
AREAVERT RESIDLE 386593.931 3771507.954 386619.057 3771483.387
AREAVERT RESIDLE 386650.046 3771442.179 386660.096 3771427.914
AREAVERT RESIDLE 386676.847 3771408.103 386688.572 3771388.291
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AREAVERT RESONTRU 386432.288 3771547.577 386455.739 3771575.313
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AREAVERT RESONTRU 386593.931 3771507.954 386619.057 3771483.387
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Buried Reservoir HRA

SRCPARAM L0001747 3.3778E-06 1.52 9.30 0.54
SRCPARAM L0001748 3.3778E-06 1.52 9.30 0.54
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Buried Reservoir HRA

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Buried Reservoir HRA

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** AERMOD Meteorology Pathway
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  UAIRDATA 3190 2006
  PROFBASE 10 METERS
ME FINISHED
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** AERMOD Output Pathway
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OU STARTING
** Auto-Generated Plotfiles
  PLOTFILE ANNUAL ALL B_RS_HRA.AD\AN00GALL.PLT
  PLOTFILE ANNUAL SRCGP1 B_RS_HRA.AD\AN00G001.PLT
OU FINISHED

*****
*** SETUP Finishes Successfully ***
*****

*** AERMOD - VERSION 09292 ***    *** Elysian                    ***          01/25/11
                                   *** Buried Reservoir HRA          ***          12:59:47
                                                                                                     ***          PAGE   1

**MODELOPTs:  RegDFAULT CONC                ELEV
                                                    NODRYDPLT NOWETDPLT

-----
*** MODEL SETUP OPTIONS SUMMARY ***
-----

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

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

**Model Uses URBAN Dispersion Algorithm for the SBL for 318 Source(s),
  for Total of 1 Urban Area(s):
  Urban Population = 9862049.0 ; Urban Roughness Length = 1.000 m

**Model Uses Regulatory DEFAULT Options:
  1. Stack-tip Downwash.
  2. Model Accounts for ELEVated Terrain Effects.
  3. Use Calms Processing Routine.
  4. Use Missing Data Processing Routine.
  5. No Exponential Decay for URBAN/Non-SO2.
  6. Urban Roughness Length of 1.0 Meter Assumed.

**Model Assumes No FLAGPOLE Receptor Heights.

**Model Calculates ANNUAL Averages Only

**This Run Includes: 330 Source(s); 2 Source Group(s); and 120 Receptor(s)

**The Model Assumes A Pollutant Type of: PM.25

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

**Output Options Selected:
  Model Outputs Tables of ANNUAL Averages by Receptor
  Model Outputs External File(s) of High Values for Plotting (PLOTFILE 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) = 10.00 ; Decay Coef. = 0.000 ; Rot. Angle = 0.0
  Emission Units = GRAMS/SEC ; Emission Rate Unit Factor = 0.10000E+07
  Output Units = MICROGRAMS/M**3

**Approximate Storage Requirements of Model = 3.8 MB of RAM.

*** AERMOD - VERSION 09292 ***    *** Elysian                    ***          01/25/11
                                   *** Buried Reservoir HRA          ***          12:59:47
                                                                                                     ***          PAGE   2

**MODELOPTs:  RegDFAULT CONC                ELEV
                                                    NODRYDPLT NOWETDPLT

-----
*** VOLUME SOURCE DATA ***
-----
SOURCE      NUMBER EMISSION RATE      BASE  RELEASE  INIT.  INIT.  URBAN  EMISSION RATE
ID          PART.  (GRAMS/SEC)      X      Y      ELEV.  HEIGHT  SY     SZ     SOURCE  SCALAR VARY
              CATS.              (METERS) (METERS) (METERS) (METERS) (METERS) (METERS)
-----
L0001490    0    0.33778E-05    386725.3 3771531.7 121.7  1.52  9.30  0.54  YES
L0001491    0    0.33778E-05    386707.3 3771540.4 122.9  1.52  9.30  0.54  YES
L0001492    0    0.33778E-05    386689.3 3771549.0 124.2  1.52  9.30  0.54  YES
L0001493    0    0.33778E-05    386671.2 3771557.7 126.1  1.52  9.30  0.54  YES
L0001494    0    0.33778E-05    386653.2 3771566.3 129.8  1.52  9.30  0.54  YES
L0001495    0    0.33778E-05    386635.2 3771574.9 133.4  1.52  9.30  0.54  YES
L0001496    0    0.33778E-05    386617.1 3771583.6 136.9  1.52  9.30  0.54  YES
L0001497    0    0.33778E-05    386599.1 3771592.3 140.3  1.52  9.30  0.54  YES

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Buried Reservoir HRA

| | | | | | | | | | | | | |
|--------------------------------|---|-------------|----------|-----------|-------|------|------|------|-----|--------------------------|-----|----------|
| L0001498 | 0 | 0.33778E-05 | 386581.1 | 3771600.9 | 144.2 | 1.52 | 9.30 | 0.54 | YES | | | |
| L0001499 | 0 | 0.33778E-05 | 386563.1 | 3771609.6 | 148.2 | 1.52 | 9.30 | 0.54 | YES | | | |
| L0001500 | 0 | 0.33778E-05 | 386546.9 | 3771620.8 | 151.3 | 1.52 | 9.30 | 0.54 | YES | | | |
| L0001501 | 0 | 0.33778E-05 | 386533.3 | 3771635.4 | 153.4 | 1.52 | 9.30 | 0.54 | YES | | | |
| L0001502 | 0 | 0.33778E-05 | 386521.2 | 3771650.9 | 155.1 | 1.52 | 9.30 | 0.54 | YES | | | |
| L0001503 | 0 | 0.33778E-05 | 386517.3 | 3771670.5 | 154.8 | 1.52 | 9.30 | 0.54 | YES | | | |
| L0001504 | 0 | 0.33778E-05 | 386513.4 | 3771690.1 | 154.9 | 1.52 | 9.30 | 0.54 | YES | | | |
| L0001505 | 0 | 0.33778E-05 | 386510.7 | 3771709.7 | 152.8 | 1.52 | 9.30 | 0.54 | YES | | | |
| L0001506 | 0 | 0.33778E-05 | 386515.2 | 3771729.1 | 146.5 | 1.52 | 9.30 | 0.54 | YES | | | |
| L0001507 | 0 | 0.33778E-05 | 386516.2 | 3771748.9 | 141.6 | 1.52 | 9.30 | 0.54 | YES | | | |
| L0001508 | 0 | 0.33778E-05 | 386514.4 | 3771768.7 | 137.6 | 1.52 | 9.30 | 0.54 | YES | | | |
| L0001509 | 0 | 0.33778E-05 | 386500.2 | 3771782.8 | 138.7 | 1.52 | 9.30 | 0.54 | YES | | | |
| L0001510 | 0 | 0.33778E-05 | 386483.4 | 3771786.9 | 142.9 | 1.52 | 9.30 | 0.54 | YES | | | |
| L0001511 | 0 | 0.33778E-05 | 386464.1 | 3771781.7 | 150.3 | 1.52 | 9.30 | 0.54 | YES | | | |
| L0001512 | 0 | 0.33778E-05 | 386445.5 | 3771785.8 | 154.8 | 1.52 | 9.30 | 0.54 | YES | | | |
| L0001513 | 0 | 0.33778E-05 | 386427.1 | 3771790.5 | 158.2 | 1.52 | 9.30 | 0.54 | YES | | | |
| L0001514 | 0 | 0.33778E-05 | 386408.1 | 3771784.4 | 164.3 | 1.52 | 9.30 | 0.54 | YES | | | |
| L0001515 | 0 | 0.33778E-05 | 386398.4 | 3771767.0 | 169.8 | 1.52 | 9.30 | 0.54 | YES | | | |
| L0001516 | 0 | 0.33778E-05 | 386395.2 | 3771747.5 | 173.7 | 1.52 | 9.30 | 0.54 | YES | | | |
| L0001517 | 0 | 0.33778E-05 | 386397.6 | 3771728.4 | 176.8 | 1.52 | 9.30 | 0.54 | YES | | | |
| L0001518 | 0 | 0.33778E-05 | 386405.7 | 3771710.4 | 179.7 | 1.52 | 9.30 | 0.54 | YES | | | |
| L0001519 | 0 | 0.33778E-05 | 386400.9 | 3771691.0 | 181.6 | 1.52 | 9.30 | 0.54 | YES | | | |
| L0001520 | 0 | 0.33778E-05 | 386390.0 | 3771675.2 | 181.0 | 1.52 | 9.30 | 0.54 | YES | | | |
| L0001521 | 0 | 0.33778E-05 | 386375.2 | 3771661.8 | 180.9 | 1.52 | 9.30 | 0.54 | YES | | | |
| L0001522 | 0 | 0.33778E-05 | 386367.1 | 3771643.5 | 180.8 | 1.52 | 9.30 | 0.54 | YES | | | |
| L0001523 | 0 | 0.33778E-05 | 386374.8 | 3771626.3 | 180.0 | 1.52 | 9.30 | 0.54 | YES | | | |
| L0001524 | 0 | 0.33778E-05 | 386387.1 | 3771610.7 | 178.6 | 1.52 | 9.30 | 0.54 | YES | | | |
| L0001525 | 0 | 0.33778E-05 | 386393.0 | 3771592.5 | 177.2 | 1.52 | 9.30 | 0.54 | YES | | | |
| L0001526 | 0 | 0.33778E-05 | 386389.5 | 3771574.5 | 176.5 | 1.52 | 9.30 | 0.54 | YES | | | |
| L0001527 | 0 | 0.33778E-05 | 386378.4 | 3771558.2 | 177.0 | 1.52 | 9.30 | 0.54 | YES | | | |
| L0001528 | 0 | 0.33778E-05 | 386383.8 | 3771542.4 | 175.6 | 1.52 | 9.30 | 0.54 | YES | | | |
| L0001529 | 0 | 0.33778E-05 | 386397.9 | 3771528.2 | 172.9 | 1.52 | 9.30 | 0.54 | YES | | | |
| *** AERMOD - VERSION 09292 *** | | | | | | | | | | *** Elysian | *** | 01/25/11 |
| | | | | | | | | | | *** Buried Reservoir HRA | *** | 12:59:47 |
| **MODELOPTs: RegDEFAULT CONC | | | | | | | | | | ELEV | | PAGE 3 |
| | | | | | | | | | | NODRYDPLT NOWETDPLT | | |
| *** VOLUME SOURCE DATA *** | | | | | | | | | | | | |

| SOURCE ID | NUMBER PART. CATS. | EMISSION RATE (GRAMS/SEC) | X (METERS) | Y (METERS) | BASE ELEV. (METERS) | RELEASE HEIGHT (METERS) | INIT. SY (METERS) | INIT. SZ (METERS) | URBAN SOURCE | EMISSION RATE SCALAR | VARY BY | |
|--------------------------------|--------------------|---------------------------|------------|------------|---------------------|-------------------------|-------------------|-------------------|--------------|--------------------------|---------|----------|
| L0001530 | 0 | 0.33778E-05 | 386412.1 | 3771514.1 | 169.8 | 1.52 | 9.30 | 0.54 | YES | | | |
| L0001531 | 0 | 0.33778E-05 | 386426.6 | 3771500.4 | 167.0 | 1.52 | 9.30 | 0.54 | YES | | | |
| L0001532 | 0 | 0.33778E-05 | 386441.1 | 3771486.6 | 164.3 | 1.52 | 9.30 | 0.54 | YES | | | |
| L0001533 | 0 | 0.33778E-05 | 386455.6 | 3771472.9 | 161.9 | 1.52 | 9.30 | 0.54 | YES | | | |
| L0001534 | 0 | 0.33778E-05 | 386469.5 | 3771459.0 | 159.7 | 1.52 | 9.30 | 0.54 | YES | | | |
| L0001535 | 0 | 0.33778E-05 | 386477.7 | 3771440.8 | 158.2 | 1.52 | 9.30 | 0.54 | YES | | | |
| L0001536 | 0 | 0.33778E-05 | 386490.1 | 3771425.3 | 156.4 | 1.52 | 9.30 | 0.54 | YES | | | |
| L0001537 | 0 | 0.33778E-05 | 386503.5 | 3771410.4 | 154.4 | 1.52 | 9.30 | 0.54 | YES | | | |
| L0001538 | 0 | 0.33778E-05 | 386516.8 | 3771395.5 | 152.4 | 1.52 | 9.30 | 0.54 | YES | | | |
| L0001539 | 0 | 0.33778E-05 | 386530.2 | 3771380.6 | 150.4 | 1.52 | 9.30 | 0.54 | YES | | | |
| L0001540 | 0 | 0.33778E-05 | 386542.5 | 3771365.1 | 148.7 | 1.52 | 9.30 | 0.54 | YES | | | |
| L0001541 | 0 | 0.33778E-05 | 386551.0 | 3771346.9 | 147.4 | 1.52 | 9.30 | 0.54 | YES | | | |
| L0001542 | 0 | 0.33778E-05 | 386559.4 | 3771328.8 | 146.2 | 1.52 | 9.30 | 0.54 | YES | | | |
| L0001543 | 0 | 0.33778E-05 | 386567.9 | 3771310.7 | 144.5 | 1.52 | 9.30 | 0.54 | YES | | | |
| L0001544 | 0 | 0.33778E-05 | 386572.7 | 3771292.1 | 143.0 | 1.52 | 9.30 | 0.54 | YES | | | |
| L0001545 | 0 | 0.33778E-05 | 386568.8 | 3771272.5 | 142.3 | 1.52 | 9.30 | 0.54 | YES | | | |
| L0001546 | 0 | 0.33778E-05 | 386564.8 | 3771252.9 | 141.6 | 1.52 | 9.30 | 0.54 | YES | | | |
| L0001547 | 0 | 0.33778E-05 | 386550.6 | 3771239.6 | 142.1 | 1.52 | 9.30 | 0.54 | YES | | | |
| L0001548 | 0 | 0.33778E-05 | 386533.9 | 3771228.9 | 143.1 | 1.52 | 9.30 | 0.54 | YES | | | |
| L0001549 | 0 | 0.33778E-05 | 386515.4 | 3771221.2 | 144.4 | 1.52 | 9.30 | 0.54 | YES | | | |
| L0001550 | 0 | 0.33778E-05 | 386499.7 | 3771209.1 | 144.9 | 1.52 | 9.30 | 0.54 | YES | | | |
| L0001551 | 0 | 0.33778E-05 | 386484.5 | 3771196.1 | 145.3 | 1.52 | 9.30 | 0.54 | YES | | | |
| L0001552 | 0 | 0.33778E-05 | 386474.8 | 3771179.3 | 145.2 | 1.52 | 9.30 | 0.54 | YES | | | |
| L0001553 | 0 | 0.33778E-05 | 386466.7 | 3771170.0 | 145.3 | 1.52 | 9.30 | 0.54 | YES | | | |
| L0001554 | 0 | 0.33778E-05 | 386455.3 | 3771186.4 | 146.8 | 1.52 | 9.30 | 0.54 | YES | | | |
| L0001555 | 0 | 0.33778E-05 | 386443.9 | 3771202.8 | 148.2 | 1.52 | 9.30 | 0.54 | YES | | | |
| L0001556 | 0 | 0.33778E-05 | 386432.5 | 3771219.2 | 149.7 | 1.52 | 9.30 | 0.54 | YES | | | |
| L0001557 | 0 | 0.33778E-05 | 386421.1 | 3771235.7 | 151.1 | 1.52 | 9.30 | 0.54 | YES | | | |
| L0001558 | 0 | 0.33778E-05 | 386409.6 | 3771252.1 | 153.2 | 1.52 | 9.30 | 0.54 | YES | | | |
| L0001559 | 0 | 0.33778E-05 | 386398.2 | 3771268.5 | 155.3 | 1.52 | 9.30 | 0.54 | YES | | | |
| L0001560 | 0 | 0.33778E-05 | 386389.4 | 3771286.3 | 157.4 | 1.52 | 9.30 | 0.54 | YES | | | |
| L0001561 | 0 | 0.33778E-05 | 386382.0 | 3771304.9 | 159.5 | 1.52 | 9.30 | 0.54 | YES | | | |
| L0001562 | 0 | 0.33778E-05 | 386373.0 | 3771322.7 | 161.7 | 1.52 | 9.30 | 0.54 | YES | | | |
| L0001563 | 0 | 0.33778E-05 | 386363.5 | 3771340.3 | 163.9 | 1.52 | 9.30 | 0.54 | YES | | | |
| L0001564 | 0 | 0.33778E-05 | 386354.0 | 3771357.9 | 166.4 | 1.52 | 9.30 | 0.54 | YES | | | |
| L0001565 | 0 | 0.33778E-05 | 386344.5 | 3771375.5 | 169.1 | 1.52 | 9.30 | 0.54 | YES | | | |
| L0001566 | 0 | 0.33778E-05 | 386335.0 | 3771393.1 | 171.9 | 1.52 | 9.30 | 0.54 | YES | | | |
| L0001567 | 0 | 0.33778E-05 | 386319.8 | 3771405.4 | 175.0 | 1.52 | 9.30 | 0.54 | YES | | | |
| L0001568 | 0 | 0.33778E-05 | 386302.9 | 3771416.0 | 178.2 | 1.52 | 9.30 | 0.54 | YES | | | |
| L0001569 | 0 | 0.33778E-05 | 386285.9 | 3771426.7 | 180.9 | 1.52 | 9.30 | 0.54 | YES | | | |
| *** AERMOD - VERSION 09292 *** | | | | | | | | | | *** Elysian | *** | 01/25/11 |
| | | | | | | | | | | *** Buried Reservoir HRA | *** | 12:59:47 |
| **MODELOPTs: RegDEFAULT CONC | | | | | | | | | | ELEV | | PAGE 4 |
| | | | | | | | | | | NODRYDPLT NOWETDPLT | | |
| *** VOLUME SOURCE DATA *** | | | | | | | | | | | | |

Buried Reservoir HRA

| | | | | | | | | | |
|----------|---|-------------|----------|-----------|-------|------|------|------|-----|
| L0001584 | 0 | 0.33778E-05 | 386294.0 | 3771709.2 | 182.0 | 1.52 | 9.30 | 0.54 | YES |
| L0001585 | 0 | 0.33778E-05 | 386286.8 | 3771726.8 | 182.0 | 1.52 | 9.30 | 0.54 | YES |
| L0001586 | 0 | 0.33778E-05 | 386276.1 | 3771743.7 | 182.0 | 1.52 | 9.30 | 0.54 | YES |
| L0001587 | 0 | 0.33778E-05 | 386266.4 | 3771760.9 | 182.0 | 1.52 | 9.30 | 0.54 | YES |
| L0001588 | 0 | 0.33778E-05 | 386264.6 | 3771780.8 | 182.0 | 1.52 | 9.30 | 0.54 | YES |
| L0001589 | 0 | 0.33778E-05 | 386262.9 | 3771800.7 | 181.7 | 1.52 | 9.30 | 0.54 | YES |
| L0001590 | 0 | 0.33778E-05 | 386263.2 | 3771820.5 | 180.7 | 1.52 | 9.30 | 0.54 | YES |
| L0001591 | 0 | 0.33778E-05 | 386267.0 | 3771840.2 | 179.7 | 1.52 | 9.30 | 0.54 | YES |
| L0001592 | 0 | 0.33778E-05 | 386270.7 | 3771859.8 | 178.4 | 1.52 | 9.30 | 0.54 | YES |
| L0001593 | 0 | 0.33778E-05 | 386274.4 | 3771879.5 | 177.1 | 1.52 | 9.30 | 0.54 | YES |
| L0001594 | 0 | 0.33778E-05 | 386278.2 | 3771899.1 | 174.5 | 1.52 | 9.30 | 0.54 | YES |
| L0001595 | 0 | 0.33778E-05 | 386279.4 | 3771918.7 | 171.7 | 1.52 | 9.30 | 0.54 | YES |
| L0001596 | 0 | 0.33778E-05 | 386271.4 | 3771933.8 | 171.2 | 1.52 | 9.30 | 0.54 | YES |
| L0001597 | 0 | 0.33778E-05 | 386251.4 | 3771933.8 | 175.2 | 1.52 | 9.30 | 0.54 | YES |
| L0001598 | 0 | 0.33778E-05 | 386233.4 | 3771926.6 | 179.0 | 1.52 | 9.30 | 0.54 | YES |
| L0001599 | 0 | 0.33778E-05 | 386216.3 | 3771916.3 | 182.0 | 1.52 | 9.30 | 0.54 | YES |
| L0001600 | 0 | 0.33778E-05 | 386199.2 | 3771905.9 | 182.0 | 1.52 | 9.30 | 0.54 | YES |
| L0001601 | 0 | 0.33778E-05 | 386182.1 | 3771895.5 | 182.0 | 1.52 | 9.30 | 0.54 | YES |
| L0001602 | 0 | 0.33778E-05 | 386165.0 | 3771885.2 | 182.0 | 1.52 | 9.30 | 0.54 | YES |
| L0001603 | 0 | 0.33778E-05 | 386146.6 | 3771879.0 | 182.0 | 1.52 | 9.30 | 0.54 | YES |
| L0001604 | 0 | 0.33778E-05 | 386126.7 | 3771878.0 | 182.0 | 1.52 | 9.30 | 0.54 | YES |
| L0001605 | 0 | 0.33778E-05 | 386106.7 | 3771877.1 | 182.0 | 1.52 | 9.30 | 0.54 | YES |
| L0001606 | 0 | 0.33778E-05 | 386112.8 | 3771859.3 | 182.0 | 1.52 | 9.30 | 0.54 | YES |
| L0001607 | 0 | 0.33778E-05 | 386120.2 | 3771840.7 | 182.0 | 1.52 | 9.30 | 0.54 | YES |
| L0001608 | 0 | 0.33778E-05 | 386127.5 | 3771822.1 | 182.0 | 1.52 | 9.30 | 0.54 | YES |
| L0001609 | 0 | 0.33778E-05 | 386134.9 | 3771803.5 | 182.0 | 1.52 | 9.30 | 0.54 | YES |

*** AERMOD - VERSION 09292 ***
 *** Buried Reservoir HRA
 *** Elysian
 *** 01/25/11
 *** 12:59:47
 *** PAGE 5

**MODELOPTS: RegDEFAULT CONC
 ELEV
 NODRYDPLT NOWETDPLT

*** VOLUME SOURCE DATA ***

| SOURCE ID | NUMBER PART. CATS. | EMISSION RATE (GRAMS/SEC) | X (METERS) | Y (METERS) | BASE ELEV. (METERS) | RELEASE HEIGHT (METERS) | INIT. SY (METERS) | INIT. SZ (METERS) | URBAN SOURCE | EMISSION RATE SCALAR VARY BY |
|-----------|--------------------|---------------------------|------------|------------|---------------------|-------------------------|-------------------|-------------------|--------------|------------------------------|
| L0001610 | 0 | 0.33778E-05 | 386142.3 | 3771784.9 | 182.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0001611 | 0 | 0.33778E-05 | 386145.1 | 3771765.6 | 182.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0001612 | 0 | 0.33778E-05 | 386143.3 | 3771745.7 | 182.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0001613 | 0 | 0.33778E-05 | 386141.5 | 3771725.8 | 182.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0001614 | 0 | 0.33778E-05 | 386135.5 | 3771706.8 | 182.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0001615 | 0 | 0.33778E-05 | 386128.9 | 3771687.9 | 182.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0001616 | 0 | 0.33778E-05 | 386122.3 | 3771669.0 | 181.9 | 1.52 | 9.30 | 0.54 | YES | |
| L0001617 | 0 | 0.33778E-05 | 386115.7 | 3771650.2 | 181.8 | 1.52 | 9.30 | 0.54 | YES | |
| L0001618 | 0 | 0.33778E-05 | 386109.1 | 3771631.3 | 181.7 | 1.52 | 9.30 | 0.54 | YES | |
| L0001619 | 0 | 0.33778E-05 | 386101.7 | 3771612.7 | 181.6 | 1.52 | 9.30 | 0.54 | YES | |
| L0001620 | 0 | 0.33778E-05 | 386093.3 | 3771594.6 | 181.1 | 1.52 | 9.30 | 0.54 | YES | |
| L0001621 | 0 | 0.33778E-05 | 386085.0 | 3771576.4 | 180.6 | 1.52 | 9.30 | 0.54 | YES | |
| L0001622 | 0 | 0.33778E-05 | 386076.6 | 3771558.2 | 180.1 | 1.52 | 9.30 | 0.54 | YES | |
| L0001623 | 0 | 0.33778E-05 | 386068.3 | 3771540.0 | 179.6 | 1.52 | 9.30 | 0.54 | YES | |
| L0001624 | 0 | 0.33778E-05 | 386060.0 | 3771521.9 | 179.1 | 1.52 | 9.30 | 0.54 | YES | |
| L0001625 | 0 | 0.33778E-05 | 386051.6 | 3771503.7 | 178.7 | 1.52 | 9.30 | 0.54 | YES | |
| L0001626 | 0 | 0.33778E-05 | 386043.3 | 3771485.5 | 178.4 | 1.52 | 9.30 | 0.54 | YES | |
| L0001627 | 0 | 0.33778E-05 | 386029.1 | 3771481.6 | 178.7 | 1.52 | 9.30 | 0.54 | YES | |
| L0001628 | 0 | 0.33778E-05 | 386010.5 | 3771488.9 | 179.5 | 1.52 | 9.30 | 0.54 | YES | |
| L0001629 | 0 | 0.33778E-05 | 385991.9 | 3771496.1 | 180.2 | 1.52 | 9.30 | 0.54 | YES | |
| L0001630 | 0 | 0.33778E-05 | 385973.2 | 3771503.4 | 180.8 | 1.52 | 9.30 | 0.54 | YES | |
| L0001631 | 0 | 0.33778E-05 | 385954.6 | 3771510.6 | 181.2 | 1.52 | 9.30 | 0.54 | YES | |
| L0001632 | 0 | 0.33778E-05 | 385936.0 | 3771517.9 | 181.6 | 1.52 | 9.30 | 0.54 | YES | |
| L0001633 | 0 | 0.33778E-05 | 385917.3 | 3771525.1 | 181.8 | 1.52 | 9.30 | 0.54 | YES | |
| L0001634 | 0 | 0.33778E-05 | 385898.7 | 3771532.4 | 182.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0001635 | 0 | 0.33778E-05 | 385880.1 | 3771539.6 | 182.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0001636 | 0 | 0.33778E-05 | 385861.4 | 3771546.9 | 182.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0001637 | 0 | 0.33778E-05 | 385842.8 | 3771554.1 | 182.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0001638 | 0 | 0.33778E-05 | 385824.1 | 3771561.4 | 182.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0001639 | 0 | 0.33778E-05 | 385805.5 | 3771568.6 | 182.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0001640 | 0 | 0.33778E-05 | 385786.9 | 3771575.9 | 182.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0001641 | 0 | 0.33778E-05 | 385768.2 | 3771583.1 | 182.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0001642 | 0 | 0.33778E-05 | 385749.6 | 3771590.4 | 182.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0001643 | 0 | 0.33778E-05 | 385731.0 | 3771597.6 | 182.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0001644 | 0 | 0.33778E-05 | 385712.3 | 3771604.9 | 182.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0001645 | 0 | 0.33778E-05 | 385693.7 | 3771612.1 | 182.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0001646 | 0 | 0.33778E-05 | 385675.0 | 3771619.4 | 182.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0001647 | 0 | 0.33778E-05 | 385656.4 | 3771626.6 | 182.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0001648 | 0 | 0.33778E-05 | 385637.8 | 3771633.8 | 182.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0001649 | 0 | 0.33778E-05 | 385619.1 | 3771641.1 | 182.0 | 1.52 | 9.30 | 0.54 | YES | |

*** AERMOD - VERSION 09292 ***
 *** Buried Reservoir HRA
 *** Elysian
 *** 01/25/11
 *** 12:59:47
 *** PAGE 6

**MODELOPTS: RegDEFAULT CONC
 ELEV
 NODRYDPLT NOWETDPLT

*** VOLUME SOURCE DATA ***

| SOURCE ID | NUMBER PART. CATS. | EMISSION RATE (GRAMS/SEC) | X (METERS) | Y (METERS) | BASE ELEV. (METERS) | RELEASE HEIGHT (METERS) | INIT. SY (METERS) | INIT. SZ (METERS) | URBAN SOURCE | EMISSION RATE SCALAR VARY BY |
|-----------|--------------------|---------------------------|------------|------------|---------------------|-------------------------|-------------------|-------------------|--------------|------------------------------|
| L0001650 | 0 | 0.33778E-05 | 385599.5 | 3771642.1 | 182.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0001651 | 0 | 0.33778E-05 | 385579.6 | 3771640.8 | 182.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0001652 | 0 | 0.33778E-05 | 385559.6 | 3771639.6 | 182.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0001653 | 0 | 0.33778E-05 | 385539.7 | 3771638.3 | 182.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0001654 | 0 | 0.33778E-05 | 385519.7 | 3771637.0 | 182.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0001655 | 0 | 0.33778E-05 | 385500.2 | 3771634.3 | 182.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0001656 | 0 | 0.33778E-05 | 385482.9 | 3771624.2 | 182.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0001657 | 0 | 0.33778E-05 | 385465.6 | 3771614.1 | 182.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0001658 | 0 | 0.33778E-05 | 385448.4 | 3771604.0 | 182.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0001659 | 0 | 0.33778E-05 | 385431.3 | 3771593.7 | 182.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0001660 | 0 | 0.33778E-05 | 385414.2 | 3771583.2 | 182.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0001661 | 0 | 0.33778E-05 | 385399.8 | 3771570.2 | 182.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0001662 | 0 | 0.33778E-05 | 385389.6 | 3771553.0 | 182.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0001663 | 0 | 0.33778E-05 | 385379.5 | 3771535.7 | 182.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0001664 | 0 | 0.33778E-05 | 385369.3 | 3771518.5 | 182.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0001665 | 0 | 0.33778E-05 | 385359.1 | 3771501.3 | 182.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0001666 | 0 | 0.33778E-05 | 385348.9 | 3771484.1 | 182.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0001667 | 0 | 0.33778E-05 | 385338.7 | 3771466.9 | 182.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0001668 | 0 | 0.33778E-05 | 385328.6 | 3771449.7 | 182.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0001669 | 0 | 0.33778E-05 | 385318.4 | 3771432.5 | 182.0 | 1.52 | 9.30 | 0.54 | YES | |

Buried Reservoir HRA

| | | | | | | | | | |
|--------------------------------|---|-------------|----------|-----------|-------|------|------|------|-----|
| L0001670 | 0 | 0.33778E-05 | 385308.2 | 3771415.3 | 182.0 | 1.52 | 9.30 | 0.54 | YES |
| L0001671 | 0 | 0.33778E-05 | 385293.2 | 3771414.9 | 182.0 | 1.52 | 9.30 | 0.54 | YES |
| L0001672 | 0 | 0.33778E-05 | 385275.4 | 3771424.1 | 182.0 | 1.52 | 9.30 | 0.54 | YES |
| L0001673 | 0 | 0.33778E-05 | 385257.7 | 3771433.3 | 182.0 | 1.52 | 9.30 | 0.54 | YES |
| L0001674 | 0 | 0.33778E-05 | 385240.0 | 3771442.5 | 182.0 | 1.52 | 9.30 | 0.54 | YES |
| L0001675 | 0 | 0.33778E-05 | 385222.2 | 3771451.8 | 182.0 | 1.52 | 9.30 | 0.54 | YES |
| L0001676 | 0 | 0.33778E-05 | 385204.5 | 3771461.0 | 182.0 | 1.52 | 9.30 | 0.54 | YES |
| L0001677 | 0 | 0.33778E-05 | 385186.7 | 3771470.2 | 182.0 | 1.52 | 9.30 | 0.54 | YES |
| L0001678 | 0 | 0.33778E-05 | 385169.0 | 3771479.4 | 182.0 | 1.52 | 9.30 | 0.54 | YES |
| L0001679 | 0 | 0.33778E-05 | 385151.2 | 3771488.6 | 182.0 | 1.52 | 9.30 | 0.54 | YES |
| L0001680 | 0 | 0.33778E-05 | 385133.5 | 3771497.8 | 182.0 | 1.52 | 9.30 | 0.54 | YES |
| L0001681 | 0 | 0.33778E-05 | 385115.7 | 3771507.1 | 182.0 | 1.52 | 9.30 | 0.54 | YES |
| L0001682 | 0 | 0.33778E-05 | 385098.0 | 3771516.3 | 182.0 | 1.52 | 9.30 | 0.54 | YES |
| L0001683 | 0 | 0.33778E-05 | 385080.2 | 3771525.5 | 182.0 | 1.52 | 9.30 | 0.54 | YES |
| L0001684 | 0 | 0.33778E-05 | 385062.5 | 3771534.7 | 182.0 | 1.52 | 9.30 | 0.54 | YES |
| L0001685 | 0 | 0.33778E-05 | 385044.7 | 3771543.9 | 182.0 | 1.52 | 9.30 | 0.54 | YES |
| L0001686 | 0 | 0.33778E-05 | 385027.0 | 3771553.1 | 181.9 | 1.52 | 9.30 | 0.54 | YES |
| L0001687 | 0 | 0.33778E-05 | 385009.3 | 3771562.4 | 181.8 | 1.52 | 9.30 | 0.54 | YES |
| L0001688 | 0 | 0.33778E-05 | 384994.7 | 3771575.0 | 181.6 | 1.52 | 9.30 | 0.54 | YES |
| L0001689 | 0 | 0.33778E-05 | 384983.8 | 3771591.9 | 181.4 | 1.52 | 9.30 | 0.54 | YES |
| *** AERMOD - VERSION 09292 *** | | | | | | | | | |
| *** Elysian *** | | | | | | | | | |
| *** Buried Reservoir HRA *** | | | | | | | | | |
| 01/25/11 | | | | | | | | | |
| 12:59:47 | | | | | | | | | |
| PAGE 7 | | | | | | | | | |

**MODELOPTs: RegDFAULT CONC ELEV
NODRYDPLT NOWETDPLT

*** VOLUME SOURCE DATA ***

| SOURCE ID | NUMBER PART. CATS. | EMISSION RATE (GRAMS/SEC) | X (METERS) | Y (METERS) | BASE ELEV. (METERS) | RELEASE HEIGHT (METERS) | INIT. SY (METERS) | INIT. SZ (METERS) | URBAN SOURCE | EMISSION RATE SCALAR VARY BY |
|--------------------------------|--------------------|---------------------------|------------|------------|---------------------|-------------------------|-------------------|-------------------|--------------|------------------------------|
| L0001690 | 0 | 0.33778E-05 | 384983.1 | 3771609.0 | 181.2 | 1.52 | 9.30 | 0.54 | YES | |
| L0001691 | 0 | 0.33778E-05 | 384992.9 | 3771626.4 | 181.1 | 1.52 | 9.30 | 0.54 | YES | |
| L0001692 | 0 | 0.33778E-05 | 385002.6 | 3771643.9 | 181.1 | 1.52 | 9.30 | 0.54 | YES | |
| L0001693 | 0 | 0.33778E-05 | 385012.2 | 3771661.4 | 181.1 | 1.52 | 9.30 | 0.54 | YES | |
| L0001694 | 0 | 0.33778E-05 | 385021.7 | 3771679.0 | 181.2 | 1.52 | 9.30 | 0.54 | YES | |
| L0001695 | 0 | 0.33778E-05 | 385031.3 | 3771696.6 | 181.3 | 1.52 | 9.30 | 0.54 | YES | |
| L0001696 | 0 | 0.33778E-05 | 385040.8 | 3771714.2 | 181.5 | 1.52 | 9.30 | 0.54 | YES | |
| L0001697 | 0 | 0.33778E-05 | 385050.4 | 3771731.7 | 181.7 | 1.52 | 9.30 | 0.54 | YES | |
| L0001698 | 0 | 0.33778E-05 | 385059.9 | 3771749.3 | 182.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0001699 | 0 | 0.33778E-05 | 385069.5 | 3771766.9 | 182.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0001700 | 0 | 0.33778E-05 | 385079.0 | 3771784.4 | 182.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0001701 | 0 | 0.33778E-05 | 385088.6 | 3771802.0 | 182.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0001702 | 0 | 0.33778E-05 | 385098.1 | 3771819.6 | 182.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0001703 | 0 | 0.33778E-05 | 385107.7 | 3771837.1 | 182.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0001704 | 0 | 0.33778E-05 | 385117.2 | 3771854.7 | 182.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0001705 | 0 | 0.33778E-05 | 385126.8 | 3771872.3 | 182.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0001706 | 0 | 0.33778E-05 | 385136.3 | 3771889.8 | 182.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0001707 | 0 | 0.33778E-05 | 385145.9 | 3771907.4 | 182.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0001708 | 0 | 0.33778E-05 | 385155.4 | 3771925.0 | 182.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0001709 | 0 | 0.33778E-05 | 385165.0 | 3771942.5 | 182.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0001710 | 0 | 0.33778E-05 | 385174.5 | 3771960.1 | 182.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0001711 | 0 | 0.33778E-05 | 385184.1 | 3771977.7 | 182.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0001712 | 0 | 0.33778E-05 | 385194.8 | 3771994.4 | 182.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0001713 | 0 | 0.33778E-05 | 385208.5 | 3772009.0 | 182.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0001714 | 0 | 0.33778E-05 | 385222.2 | 3772023.5 | 182.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0001715 | 0 | 0.33778E-05 | 385236.0 | 3772038.0 | 182.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0001716 | 0 | 0.33778E-05 | 385249.7 | 3772052.5 | 182.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0001717 | 0 | 0.33778E-05 | 385263.5 | 3772067.1 | 182.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0001718 | 0 | 0.33778E-05 | 385277.2 | 3772081.6 | 182.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0001719 | 0 | 0.33778E-05 | 385290.9 | 3772096.1 | 182.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0001720 | 0 | 0.33778E-05 | 385304.7 | 3772110.6 | 182.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0001721 | 0 | 0.33778E-05 | 385318.4 | 3772125.2 | 182.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0001722 | 0 | 0.33778E-05 | 385332.2 | 3772139.7 | 182.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0001723 | 0 | 0.33778E-05 | 385345.9 | 3772154.2 | 182.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0001724 | 0 | 0.33778E-05 | 385359.8 | 3772168.7 | 182.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0001725 | 0 | 0.33778E-05 | 385373.9 | 3772182.8 | 182.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0001726 | 0 | 0.33778E-05 | 385388.0 | 3772196.9 | 182.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0001727 | 0 | 0.33778E-05 | 385402.2 | 3772211.1 | 182.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0001728 | 0 | 0.33778E-05 | 385416.3 | 3772225.2 | 182.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0001729 | 0 | 0.33778E-05 | 385430.5 | 3772239.4 | 182.0 | 1.52 | 9.30 | 0.54 | YES | |
| *** AERMOD - VERSION 09292 *** | | | | | | | | | | |
| *** Elysian *** | | | | | | | | | | |
| *** Buried Reservoir HRA *** | | | | | | | | | | |
| 01/25/11 | | | | | | | | | | |
| 12:59:47 | | | | | | | | | | |
| PAGE 8 | | | | | | | | | | |

**MODELOPTs: RegDFAULT CONC ELEV
NODRYDPLT NOWETDPLT

*** VOLUME SOURCE DATA ***

| SOURCE ID | NUMBER PART. CATS. | EMISSION RATE (GRAMS/SEC) | X (METERS) | Y (METERS) | BASE ELEV. (METERS) | RELEASE HEIGHT (METERS) | INIT. SY (METERS) | INIT. SZ (METERS) | URBAN SOURCE | EMISSION RATE SCALAR VARY BY |
|-----------|--------------------|---------------------------|------------|------------|---------------------|-------------------------|-------------------|-------------------|--------------|------------------------------|
| L0001730 | 0 | 0.33778E-05 | 385444.6 | 3772253.5 | 182.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0001731 | 0 | 0.33778E-05 | 385458.7 | 3772267.6 | 182.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0001732 | 0 | 0.33778E-05 | 385472.9 | 3772281.8 | 181.9 | 1.52 | 9.30 | 0.54 | YES | |
| L0001733 | 0 | 0.33778E-05 | 385487.0 | 3772295.9 | 181.6 | 1.52 | 9.30 | 0.54 | YES | |
| L0001734 | 0 | 0.33778E-05 | 385501.1 | 3772310.1 | 181.1 | 1.52 | 9.30 | 0.54 | YES | |
| L0001735 | 0 | 0.33778E-05 | 385515.3 | 3772324.2 | 180.4 | 1.52 | 9.30 | 0.54 | YES | |
| L0001736 | 0 | 0.33778E-05 | 385529.4 | 3772338.4 | 179.6 | 1.52 | 9.30 | 0.54 | YES | |
| L0001737 | 0 | 0.33778E-05 | 385543.6 | 3772352.5 | 178.8 | 1.52 | 9.30 | 0.54 | YES | |
| L0001738 | 0 | 0.33778E-05 | 385557.7 | 3772366.7 | 176.9 | 1.52 | 9.30 | 0.54 | YES | |
| L0001739 | 0 | 0.33778E-05 | 385569.0 | 3772383.2 | 174.1 | 1.52 | 9.30 | 0.54 | YES | |
| L0001740 | 0 | 0.33778E-05 | 385580.3 | 3772399.6 | 171.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0001741 | 0 | 0.33778E-05 | 385588.9 | 3772417.6 | 167.7 | 1.52 | 9.30 | 0.54 | YES | |
| L0001742 | 0 | 0.33778E-05 | 385596.5 | 3772436.1 | 164.1 | 1.52 | 9.30 | 0.54 | YES | |
| L0001743 | 0 | 0.33778E-05 | 385604.1 | 3772454.6 | 160.4 | 1.52 | 9.30 | 0.54 | YES | |
| L0001744 | 0 | 0.33778E-05 | 385611.6 | 3772473.1 | 156.7 | 1.52 | 9.30 | 0.54 | YES | |
| L0001745 | 0 | 0.33778E-05 | 385619.2 | 3772491.6 | 152.8 | 1.52 | 9.30 | 0.54 | YES | |
| L0001746 | 0 | 0.33778E-05 | 385626.8 | 3772510.1 | 148.7 | 1.52 | 9.30 | 0.54 | YES | |
| L0001747 | 0 | 0.33778E-05 | 385634.3 | 3772528.6 | 144.3 | 1.52 | 9.30 | 0.54 | YES | |
| L0001748 | 0 | 0.33778E-05 | 385641.9 | 3772547.1 | 139.9 | 1.52 | 9.30 | 0.54 | YES | |
| L0001749 | 0 | 0.33778E-05 | 385649.5 | 3772565.7 | 136.1 | 1.52 | 9.30 | 0.54 | YES | |
| L0001750 | 0 | 0.33778E-05 | 385657.1 | 3772584.2 | 132.1 | 1.52 | 9.30 | 0.54 | YES | |
| L0001751 | 0 | 0.33778E-05 | 385664.6 | 3772602.7 | 128.2 | 1.52 | 9.30 | 0.54 | YES | |
| L0001752 | 0 | 0.33778E-05 | 385667.1 | 3772621.8 | 125.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0001753 | 0 | 0.33778E-05 | 385664.1 | 3772641.6 | 123.1 | 1.52 | 9.30 | 0.54 | YES | |
| L0001754 | 0 | 0.33778E-05 | 385661.1 | 3772661.3 | 121.9 | 1.52 | 9.30 | 0.54 | YES | |
| L0001755 | 0 | 0.33778E-05 | 385658.1 | 3772681.1 | 120.5 | 1.52 | 9.30 | 0.54 | YES | |

Buried Reservoir HRA

| | | | | | | | | | |
|--------------------------------|---|-------------|----------|-----------|-------|------|------|------|-----|
| L0001756 | 0 | 0.33778E-05 | 385651.2 | 3772699.5 | 119.5 | 1.52 | 9.30 | 0.54 | YES |
| L0001757 | 0 | 0.33778E-05 | 385641.2 | 3772716.8 | 118.6 | 1.52 | 9.30 | 0.54 | YES |
| L0001758 | 0 | 0.33778E-05 | 385631.1 | 3772734.1 | 118.1 | 1.52 | 9.30 | 0.54 | YES |
| L0001759 | 0 | 0.33778E-05 | 385621.0 | 3772751.3 | 118.2 | 1.52 | 9.30 | 0.54 | YES |
| L0001760 | 0 | 0.33778E-05 | 385610.9 | 3772768.6 | 118.3 | 1.52 | 9.30 | 0.54 | YES |
| L0001761 | 0 | 0.33778E-05 | 385600.9 | 3772785.9 | 118.8 | 1.52 | 9.30 | 0.54 | YES |
| L0001762 | 0 | 0.33778E-05 | 385590.8 | 3772803.2 | 118.6 | 1.52 | 9.30 | 0.54 | YES |
| L0001763 | 0 | 0.33778E-05 | 385580.7 | 3772820.4 | 118.0 | 1.52 | 9.30 | 0.54 | YES |
| L0001764 | 0 | 0.33778E-05 | 385570.6 | 3772837.7 | 117.7 | 1.52 | 9.30 | 0.54 | YES |
| L0001765 | 0 | 0.33778E-05 | 385560.6 | 3772855.0 | 117.5 | 1.52 | 9.30 | 0.54 | YES |
| L0001766 | 0 | 0.33778E-05 | 385550.7 | 3772872.4 | 117.2 | 1.52 | 9.30 | 0.54 | YES |
| L0001767 | 0 | 0.33778E-05 | 385541.0 | 3772889.9 | 116.9 | 1.52 | 9.30 | 0.54 | YES |
| L0001768 | 0 | 0.33778E-05 | 385531.3 | 3772907.4 | 116.5 | 1.52 | 9.30 | 0.54 | YES |
| L0001769 | 0 | 0.33778E-05 | 385521.5 | 3772924.8 | 116.1 | 1.52 | 9.30 | 0.54 | YES |
| *** AERMOD - VERSION 09292 *** | | | | | | | | | |
| *** Elysian *** | | | | | | | | | |
| *** Buried Reservoir HRA *** | | | | | | | | | |
| 01/25/11 | | | | | | | | | |
| 12:59:47 | | | | | | | | | |
| PAGE 9 | | | | | | | | | |

**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT

*** VOLUME SOURCE DATA ***

| SOURCE ID | NUMBER PART. CATS. | EMISSION RATE (GRAMS/SEC) | X (METERS) | Y (METERS) | BASE ELEV. (METERS) | RELEASE HEIGHT (METERS) | INIT. SY (METERS) | INIT. SZ (METERS) | URBAN SOURCE | EMISSION RATE SCALAR VARY BY |
|--------------------------------|--------------------|---------------------------|------------|------------|---------------------|-------------------------|-------------------|-------------------|--------------|------------------------------|
| L0001770 | 0 | 0.33778E-05 | 385508.4 | 3772939.9 | 115.9 | 1.52 | 9.30 | 0.54 | YES | |
| L0001771 | 0 | 0.33778E-05 | 385495.3 | 3772955.0 | 115.6 | 1.52 | 9.30 | 0.54 | YES | |
| L0001772 | 0 | 0.33778E-05 | 385482.2 | 3772970.1 | 115.3 | 1.52 | 9.30 | 0.54 | YES | |
| L0001773 | 0 | 0.33778E-05 | 385469.1 | 3772985.2 | 114.9 | 1.52 | 9.30 | 0.54 | YES | |
| L0001774 | 0 | 0.33778E-05 | 385456.0 | 3773000.3 | 114.6 | 1.52 | 9.30 | 0.54 | YES | |
| L0001775 | 0 | 0.33778E-05 | 385442.9 | 3773015.4 | 114.3 | 1.52 | 9.30 | 0.54 | YES | |
| L0001776 | 0 | 0.33778E-05 | 385429.8 | 3773030.5 | 114.1 | 1.52 | 9.30 | 0.54 | YES | |
| L0001777 | 0 | 0.33778E-05 | 385415.1 | 3773044.1 | 114.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0001778 | 0 | 0.33778E-05 | 385400.5 | 3773057.7 | 113.9 | 1.52 | 9.30 | 0.54 | YES | |
| L0001779 | 0 | 0.33778E-05 | 385385.8 | 3773071.3 | 113.7 | 1.52 | 9.30 | 0.54 | YES | |
| L0001780 | 0 | 0.33778E-05 | 385371.1 | 3773084.9 | 114.1 | 1.52 | 9.30 | 0.54 | YES | |
| L0001781 | 0 | 0.33778E-05 | 385367.8 | 3773102.5 | 113.1 | 1.52 | 9.30 | 0.54 | YES | |
| L0001782 | 0 | 0.33778E-05 | 385383.8 | 3773110.9 | 111.4 | 1.52 | 9.30 | 0.54 | YES | |
| L0001783 | 0 | 0.33778E-05 | 385401.4 | 3773105.6 | 111.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0001784 | 0 | 0.33778E-05 | 385414.6 | 3773090.6 | 111.3 | 1.52 | 9.30 | 0.54 | YES | |
| L0001785 | 0 | 0.33778E-05 | 385427.9 | 3773075.6 | 111.6 | 1.52 | 9.30 | 0.54 | YES | |
| L0001786 | 0 | 0.33778E-05 | 385441.1 | 3773060.6 | 111.9 | 1.52 | 9.30 | 0.54 | YES | |
| L0001787 | 0 | 0.33778E-05 | 385454.3 | 3773045.6 | 112.1 | 1.52 | 9.30 | 0.54 | YES | |
| L0001788 | 0 | 0.33778E-05 | 385467.6 | 3773030.6 | 112.3 | 1.52 | 9.30 | 0.54 | YES | |
| L0001789 | 0 | 0.33778E-05 | 385480.8 | 3773015.7 | 112.6 | 1.52 | 9.30 | 0.54 | YES | |
| L0001790 | 0 | 0.33778E-05 | 385494.1 | 3773000.7 | 112.9 | 1.52 | 9.30 | 0.54 | YES | |
| L0001791 | 0 | 0.33778E-05 | 385507.3 | 3772985.7 | 113.3 | 1.52 | 9.30 | 0.54 | YES | |
| L0001792 | 0 | 0.33778E-05 | 385520.5 | 3772970.7 | 113.5 | 1.52 | 9.30 | 0.54 | YES | |
| L0001793 | 0 | 0.33778E-05 | 385533.8 | 3772955.7 | 113.8 | 1.52 | 9.30 | 0.54 | YES | |
| L0001794 | 0 | 0.33778E-05 | 385547.0 | 3772940.7 | 113.8 | 1.52 | 9.30 | 0.54 | YES | |
| L0001795 | 0 | 0.33778E-05 | 385560.3 | 3772925.7 | 113.7 | 1.52 | 9.30 | 0.54 | YES | |
| L0001796 | 0 | 0.33778E-05 | 385573.5 | 3772910.7 | 113.6 | 1.52 | 9.30 | 0.54 | YES | |
| L0001797 | 0 | 0.33778E-05 | 385586.7 | 3772895.8 | 113.5 | 1.52 | 9.30 | 0.54 | YES | |
| L0001798 | 0 | 0.33778E-05 | 385600.0 | 3772880.8 | 113.5 | 1.52 | 9.30 | 0.54 | YES | |
| L0001799 | 0 | 0.33778E-05 | 385613.2 | 3772865.8 | 113.4 | 1.52 | 9.30 | 0.54 | YES | |
| L0001800 | 0 | 0.33778E-05 | 385626.4 | 3772850.8 | 113.3 | 1.52 | 9.30 | 0.54 | YES | |
| L0001801 | 0 | 0.33778E-05 | 385639.7 | 3772835.8 | 113.3 | 1.52 | 9.30 | 0.54 | YES | |
| L0001802 | 0 | 0.33778E-05 | 385652.9 | 3772820.8 | 113.2 | 1.52 | 9.30 | 0.54 | YES | |
| L0001803 | 0 | 0.33778E-05 | 385666.2 | 3772805.8 | 112.9 | 1.52 | 9.30 | 0.54 | YES | |
| L0001804 | 0 | 0.33778E-05 | 385679.4 | 3772790.8 | 112.5 | 1.52 | 9.30 | 0.54 | YES | |
| L0001371 | 0 | 0.20000E-05 | 386672.8 | 3772078.6 | 92.5 | 0.00 | 13.77 | 0.54 | NO | |
| L0001372 | 0 | 0.20000E-05 | 386645.6 | 3772090.4 | 94.0 | 0.00 | 13.77 | 0.54 | NO | |
| L0001373 | 0 | 0.20000E-05 | 386618.4 | 3772102.2 | 95.4 | 0.00 | 13.77 | 0.54 | NO | |
| L0001374 | 0 | 0.20000E-05 | 386591.3 | 3772113.9 | 97.0 | 0.00 | 13.77 | 0.54 | NO | |
| L0001375 | 0 | 0.20000E-05 | 386564.1 | 3772125.7 | 98.9 | 0.00 | 13.77 | 0.54 | NO | |
| *** AERMOD - VERSION 09292 *** | | | | | | | | | | |
| *** Elysian *** | | | | | | | | | | |
| *** Buried Reservoir HRA *** | | | | | | | | | | |
| 01/25/11 | | | | | | | | | | |
| 12:59:47 | | | | | | | | | | |
| PAGE 10 | | | | | | | | | | |

**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT

*** VOLUME SOURCE DATA ***

| SOURCE ID | NUMBER PART. CATS. | EMISSION RATE (GRAMS/SEC) | X (METERS) | Y (METERS) | BASE ELEV. (METERS) | RELEASE HEIGHT (METERS) | INIT. SY (METERS) | INIT. SZ (METERS) | URBAN SOURCE | EMISSION RATE SCALAR VARY BY |
|--------------------------------|--------------------|---------------------------|------------|------------|---------------------|-------------------------|-------------------|-------------------|--------------|------------------------------|
| L0001376 | 0 | 0.20000E-05 | 386537.0 | 3772137.5 | 100.5 | 0.00 | 13.77 | 0.54 | NO | |
| L0001377 | 0 | 0.20000E-05 | 386509.8 | 3772149.2 | 101.8 | 0.00 | 13.77 | 0.54 | NO | |
| L0001378 | 0 | 0.20000E-05 | 386482.6 | 3772161.0 | 102.9 | 0.00 | 13.77 | 0.54 | NO | |
| L0001379 | 0 | 0.20000E-05 | 386455.5 | 3772172.8 | 104.2 | 0.00 | 13.77 | 0.54 | NO | |
| L0001380 | 0 | 0.20000E-05 | 386428.3 | 3772184.6 | 105.6 | 0.00 | 13.77 | 0.54 | NO | |
| *** AERMOD - VERSION 09292 *** | | | | | | | | | | |
| *** Elysian *** | | | | | | | | | | |
| *** Buried Reservoir HRA *** | | | | | | | | | | |
| 01/25/11 | | | | | | | | | | |
| 12:59:47 | | | | | | | | | | |
| PAGE 11 | | | | | | | | | | |

**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT

*** AREAPOLY SOURCE DATA ***

| SOURCE ID | NUMBER PART. CATS. | EMISSION RATE (GRAMS/SEC /METER**2) | LOCATION OF AREA X (METERS) | Y (METERS) | BASE ELEV. (METERS) | RELEASE HEIGHT (METERS) | NUMBER OF VERTS. | INIT. SZ (METERS) | URBAN SOURCE | EMISSION RATE SCALAR VARY BY |
|--------------------------------|--------------------|-------------------------------------|-----------------------------|------------|---------------------|-------------------------|------------------|-------------------|--------------|------------------------------|
| RESEQUIP | 0 | 0.20164E-05 | 386606.5 | 3771295.6 | 139.7 | 5.00 | 18 | 0.00 | YES | |
| RESIDLE | 0 | 0.32183E-08 | 386606.5 | 3771295.6 | 139.7 | 5.00 | 18 | 0.00 | YES | |
| RESONTRU | 0 | 0.35138E-08 | 386606.5 | 3771295.6 | 139.7 | 5.00 | 18 | 0.00 | YES | |
| CALEQP | 0 | 0.84360E-05 | 386596.5 | 3772117.7 | 96.5 | 5.00 | 14 | 0.00 | NO | |
| CALIDLE | 0 | 0.55378E-08 | 386596.5 | 3772117.7 | 96.5 | 5.00 | 14 | 0.00 | NO | |
| *** AERMOD - VERSION 09292 *** | | | | | | | | | | |
| *** Elysian *** | | | | | | | | | | |
| *** Buried Reservoir HRA *** | | | | | | | | | | |
| 01/25/11 | | | | | | | | | | |
| 12:59:47 | | | | | | | | | | |
| PAGE 12 | | | | | | | | | | |

**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT

*** SOURCE IDs DEFINING SOURCE GROUPS ***

Buried Reservoir HRA

L0001679, L0001680, L0001681, L0001682, L0001683, L0001684, L0001685, L0001686, L0001687, L0001688, L0001689, L0001690,
 L0001691, L0001692, L0001693, L0001694, L0001695, L0001696, L0001697, L0001698, L0001699, L0001700, L0001701, L0001702,
 L0001703, L0001704, L0001705, L0001706, L0001707, L0001708, L0001709, L0001710, L0001711, L0001712, L0001713, L0001714,
 L0001715, L0001716, L0001717, L0001718, L0001719, L0001720, L0001721, L0001722, L0001723, L0001724, L0001725, L0001726,
 L0001727, L0001728, L0001729, L0001730, L0001731, L0001732, L0001733, L0001734, L0001735, L0001736, L0001737, L0001738,
 L0001739, L0001740, L0001741, L0001742, L0001743, L0001744, L0001745, L0001746, L0001747, L0001748, L0001749, L0001750,
 L0001751, L0001752, L0001753, L0001754, L0001755, L0001756, L0001757, L0001758, L0001759, L0001760, L0001761, L0001762,
 L0001763, L0001764, L0001765, L0001766, L0001767, L0001768, L0001769, L0001770, L0001771, L0001772, L0001773, L0001774,
 L0001775, L0001776, L0001777, L0001778, L0001779, L0001780, L0001781, L0001782, L0001783, L0001784, L0001785, L0001786,
 L0001787, L0001788, L0001789, L0001790, L0001791, L0001792, L0001793, L0001794, L0001795, L0001796, L0001797, L0001798,
 L0001799, L0001800, L0001801, L0001802, L0001803, L0001804, CALEQP , CALIDLLE , L0001371, L0001372, L0001373, L0001374,

L0001375, L0001376, L0001377, L0001378, L0001379, L0001380,
 *** AERMOD - VERSION 09292 *** *** Elysian *** 01/25/11
 *** Buried Reservoir HRA *** 12:59:47
 PAGE 15

**MODELOPTs: RegDEFAULT CONC ELEV
 NODRYDPLT NOWETDPLT

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

| | | | | | | | |
|------------------------|--------|--------|-------|------------------------|--------|--------|-------|
| (386476.8, 3771139.5, | 143.3, | 181.0, | 0.0; | (386470.4, 3771149.7, | 144.2, | 181.0, | 0.0); |
| (386460.2, 3771160.0, | 145.3, | 181.0, | 0.0); | (386449.3, 3771172.8, | 146.6, | 181.0, | 0.0); |
| (386440.3, 3771184.3, | 147.6, | 181.0, | 0.0); | (386434.5, 3771197.8, | 148.6, | 181.0, | 0.0); |
| (386405.0, 3771244.6, | 152.9, | 181.0, | 0.0); | (386409.5, 3771235.6, | 151.9, | 181.0, | 0.0); |
| (386416.6, 3771223.4, | 150.9, | 181.0, | 0.0); | (386421.1, 3771217.0, | 150.3, | 181.0, | 0.0); |
| (386426.2, 3771210.0, | 149.6, | 181.0, | 0.0); | (386274.3, 3771299.7, | 168.1, | 181.0, | 0.0); |
| (386278.8, 3771290.1, | 167.4, | 181.0, | 0.0); | (386287.8, 3771280.5, | 166.6, | 181.0, | 0.0); |
| (386296.1, 3771269.6, | 164.9, | 181.0, | 0.0); | (386303.1, 3771259.3, | 163.5, | 181.0, | 0.0); |
| (386340.3, 3771210.6, | 155.9, | 181.0, | 0.0); | (386331.3, 3771222.1, | 157.6, | 181.0, | 0.0); |
| (386323.0, 3771233.7, | 159.3, | 181.0, | 0.0); | (386312.8, 3771248.4, | 161.6, | 181.0, | 0.0); |
| (386415.3, 3771092.0, | 143.8, | 181.0, | 0.0); | (386380.0, 3771051.0, | 142.9, | 164.0, | 0.0); |
| (386392.2, 3771050.4, | 142.2, | 181.0, | 0.0); | (386374.3, 3771063.2, | 144.0, | 164.0, | 0.0); |
| (386402.5, 3771098.4, | 144.8, | 181.0, | 0.0); | (386419.8, 3771082.4, | 142.9, | 181.0, | 0.0); |
| (386163.4, 3771763.8, | 182.0, | 182.0, | 0.0); | (386081.3, 3771480.5, | 178.0, | 178.0, | 0.0); |
| (386103.8, 3771527.9, | 179.8, | 179.8, | 0.0); | (386120.4, 3771576.0, | 181.1, | 181.1, | 0.0); |
| (386135.8, 3771613.8, | 182.0, | 182.0, | 0.0); | (386146.7, 3771651.6, | 182.0, | 182.0, | 0.0); |
| (386156.3, 3771690.8, | 182.0, | 182.0, | 0.0); | (386164.7, 3771730.5, | 182.0, | 182.0, | 0.0); |
| (386716.6, 3772090.1, | 93.4, | 182.0, | 0.0); | (386705.7, 3772082.4, | 93.0, | 182.0, | 0.0); |
| (386714.7, 3772074.7, | 93.3, | 182.0, | 0.0); | (386723.0, 3772061.9, | 93.7, | 182.0, | 0.0); |
| (386732.0, 3772036.9, | 94.0, | 182.0, | 0.0); | (386728.1, 3772051.0, | 93.9, | 182.0, | 0.0); |
| (386737.1, 3772022.1, | 94.2, | 182.0, | 0.0); | (386699.3, 3772099.1, | 92.7, | 182.0, | 0.0); |
| (386690.3, 3772107.4, | 92.4, | 182.0, | 0.0); | (386682.6, 3772113.8, | 92.1, | 182.0, | 0.0); |
| (386674.3, 3772123.4, | 92.3, | 182.0, | 0.0); | (386664.7, 3772134.3, | 92.8, | 182.0, | 0.0); |
| (386654.4, 3772145.2, | 93.1, | 182.0, | 0.0); | (386605.7, 3772127.3, | 95.6, | 182.0, | 0.0); |
| (386591.0, 3772133.7, | 96.5, | 182.0, | 0.0); | (386579.4, 3772139.5, | 97.2, | 182.0, | 0.0); |
| (386560.2, 3772147.2, | 98.4, | 182.0, | 0.0); | (386545.4, 3772154.8, | 99.0, | 182.0, | 0.0); |
| (386533.3, 3772162.5, | 99.5, | 182.0, | 0.0); | (386542.9, 3772179.8, | 98.2, | 182.0, | 0.0); |
| (386553.1, 3772195.9, | 96.9, | 182.0, | 0.0); | (386568.5, 3772208.7, | 95.5, | 182.0, | 0.0); |
| (386582.0, 3772192.7, | 95.3, | 182.0, | 0.0); | (386595.4, 3772181.1, | 94.8, | 182.0, | 0.0); |
| (386609.5, 3772168.9, | 94.5, | 182.0, | 0.0); | (386624.3, 3772152.3, | 94.3, | 182.0, | 0.0); |
| (386619.2, 3772140.1, | 94.7, | 182.0, | 0.0); | (386640.3, 3772163.8, | 93.5, | 182.0, | 0.0); |
| (386653.8, 3772174.7, | 93.0, | 182.0, | 0.0); | (386666.0, 3772186.3, | 92.7, | 182.0, | 0.0); |
| (386677.5, 3772197.8, | 92.5, | 182.0, | 0.0); | (386688.4, 3772208.7, | 92.8, | 182.0, | 0.0); |
| (386701.2, 3772222.2, | 93.5, | 182.0, | 0.0); | (386448.6, 3772217.7, | 102.7, | 182.0, | 0.0); |
| (386456.3, 3772212.5, | 102.4, | 182.0, | 0.0); | (386465.3, 3772206.1, | 102.1, | 182.0, | 0.0); |
| (386474.3, 3772200.4, | 101.8, | 182.0, | 0.0); | (386481.3, 3772194.6, | 101.5, | 182.0, | 0.0); |
| (386489.0, 3772190.1, | 101.2, | 182.0, | 0.0); | (386499.3, 3772183.1, | 100.9, | 182.0, | 0.0); |
| (386507.6, 3772177.9, | 100.5, | 182.0, | 0.0); | (386514.7, 3772171.5, | 100.3, | 182.0, | 0.0); |
| (386576.8, 3772219.6, | 94.6, | 182.0, | 0.0); | (386586.5, 3772209.3, | 94.4, | 182.0, | 0.0); |
| (386597.4, 3772197.8, | 94.2, | 182.0, | 0.0); | (386607.0, 3772187.5, | 94.0, | 182.0, | 0.0); |
| (386620.4, 3772178.6, | 93.9, | 182.0, | 0.0); | (386742.9, 3772003.6, | 94.5, | 182.0, | 0.0); |
| (386386.3, 3771087.3, | 144.9, | 181.0, | 0.0); | (386399.3, 3771081.5, | 143.9, | 181.0, | 0.0); |
| (386409.4, 3771067.1, | 142.4, | 181.0, | 0.0); | (385296.8, 3773132.0, | 117.7, | 182.0, | 0.0); |
| (385287.9, 3773147.0, | 117.7, | 182.0, | 0.0); | (385283.5, 3773159.4, | 117.2, | 182.0, | 0.0); |
| (385576.7, 3773089.5, | 103.9, | 182.0, | 0.0); | (385598.0, 3773060.2, | 104.0, | 182.0, | 0.0); |

*** AERMOD - VERSION 09292 *** *** Elysian *** 01/25/11
 *** Buried Reservoir HRA *** 12:59:47
 PAGE 16

**MODELOPTs: RegDEFAULT CONC ELEV
 NODRYDPLT NOWETDPLT

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

| | | | | | | | |
|------------------------|--------|--------|-------|------------------------|--------|--------|-------|
| (385609.5, 3773037.2, | 104.5, | 182.0, | 0.0); | (385629.8, 3772997.4, | 105.3, | 182.0, | 0.0); |
| (385654.6, 3772953.1, | 106.0, | 182.0, | 0.0); | (385706.0, 3772876.9, | 106.7, | 182.0, | 0.0); |
| (385752.1, 3772808.7, | 107.3, | 182.0, | 0.0); | (385816.7, 3772724.5, | 108.9, | 182.0, | 0.0); |
| (385886.7, 3772645.7, | 110.4, | 182.0, | 0.0); | (385952.3, 3772579.3, | 111.3, | 182.0, | 0.0); |
| (386020.5, 3772519.0, | 111.7, | 182.0, | 0.0); | (386094.0, 3772463.2, | 111.1, | 182.0, | 0.0); |
| (386169.3, 3772411.0, | 110.4, | 182.0, | 0.0); | (386248.1, 3772359.6, | 108.8, | 182.0, | 0.0); |
| (386328.7, 3772309.1, | 105.9, | 182.0, | 0.0); | (386407.5, 3772253.3, | 103.3, | 182.0, | 0.0); |
| (387116.3, 3772187.4, | 108.2, | 182.0, | 0.0); | (387141.0, 3772141.5, | 108.9, | 108.9, | 0.0); |
| (387201.0, 3772180.3, | 110.6, | 182.0, | 0.0); | (387155.1, 3772229.8, | 110.0, | 182.0, | 0.0); |
| (386943.3, 3772540.4, | 102.9, | 243.0, | 0.0); | (386925.6, 3772582.8, | 102.9, | 243.0, | 0.0); |
| (386526.7, 3770944.7, | 129.0, | 131.0, | 0.0); | (386466.7, 3770937.6, | 131.1, | 131.1, | 0.0); |
| (386537.3, 3770884.7, | 123.8, | 123.8, | 0.0); | (386480.8, 3770881.1, | 125.8, | 125.8, | 0.0); |
| (387374.0, 3771597.8, | 112.1, | 112.1, | 0.0); | (384880.2, 3771187.7, | 166.9, | 166.9, | 0.0); |
| (384901.5, 3771161.1, | 167.0, | 167.0, | 0.0); | (384909.4, 3771118.6, | 165.9, | 165.9, | 0.0); |
| (384912.1, 3771078.8, | 164.8, | 164.8, | 0.0); | (384920.0, 3771052.2, | 164.2, | 164.2, | 0.0); |

*** AERMOD - VERSION 09292 *** *** Elysian *** 01/25/11
 *** Buried Reservoir HRA *** 12:59:47
 PAGE 17

**MODELOPTs: RegDEFAULT CONC ELEV
 NODRYDPLT NOWETDPLT

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

SOURCE - - RECEPTOR LOCATION - - DISTANCE

Buried Reservoir HRA

*** AERMOD - VERSION 09292 *** *** Elysian *** 01/25/11
 *** Buried Reservoir HRA *** *** 12:59:47
 PAGE 20

**MODELOPTs: RegDEFAULT CONC ELEV
 NODRYDPLT NOWETDPLT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: SRCGP1 ***
 INCLUDING SOURCE(S): RESEQUIP, RESIDLE, RESONTRU, L0001490, L0001491, L0001492, L0001493,
 L0001494, L0001495, L0001496, L0001497, L0001498, L0001499, L0001500, L0001501, L0001502, L0001503, L0001504, L0001505,
 L0001506, L0001507, L0001508, L0001509, L0001510, L0001511, L0001512, L0001513, L0001514, L0001515, L0001516, . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM.25 IN MICROGRAMS/M**3 **

| X-COORD (M) | Y-COORD (M) | CONC | X-COORD (M) | Y-COORD (M) | CONC |
|-------------|-------------|---------|-------------|-------------|---------|
| 386476.85 | 3771139.46 | 1.31145 | 386470.44 | 3771149.72 | 1.37276 |
| 386460.18 | 3771159.97 | 1.43325 | 386449.29 | 3771172.79 | 1.46792 |
| 386440.31 | 3771184.33 | 1.48086 | 386434.54 | 3771197.79 | 1.50429 |
| 386405.05 | 3771244.59 | 1.37111 | 386409.54 | 3771235.61 | 1.40777 |
| 386416.59 | 3771223.43 | 1.44481 | 386421.08 | 3771217.02 | 1.46521 |
| 386426.21 | 3771209.97 | 1.48418 | 386274.28 | 3771299.72 | 0.45412 |
| 386278.77 | 3771290.10 | 0.48442 | 386287.75 | 3771280.49 | 0.53161 |
| 386296.08 | 3771269.59 | 0.59014 | 386303.13 | 3771259.33 | 0.64512 |
| 386340.31 | 3771210.61 | 0.94900 | 386331.34 | 3771222.15 | 0.87890 |
| 386323.00 | 3771233.69 | 0.80908 | 386312.75 | 3771248.43 | 0.71968 |
| 386415.31 | 3771092.02 | 1.02652 | 386380.05 | 3771051.00 | 0.86547 |
| 386392.23 | 3771050.36 | 0.87138 | 386374.29 | 3771063.18 | 0.89295 |
| 386402.49 | 3771098.43 | 1.05061 | 386419.80 | 3771082.41 | 0.99392 |
| 386163.39 | 3771763.82 | 0.04171 | 386081.33 | 3771480.49 | 0.08450 |
| 386103.77 | 3771527.92 | 0.07412 | 386120.44 | 3771576.00 | 0.06353 |
| 386135.82 | 3771613.82 | 0.05673 | 386146.72 | 3771651.64 | 0.05252 |
| 386156.33 | 3771690.75 | 0.04973 | 386164.67 | 3771730.49 | 0.04727 |
| 386716.60 | 3772090.11 | 0.25413 | 386705.70 | 3772082.42 | 0.26176 |
| 386714.67 | 3772074.72 | 0.26248 | 386723.00 | 3772061.90 | 0.26541 |
| 386731.99 | 3772036.90 | 0.27354 | 386728.13 | 3772051.01 | 0.26841 |
| 386737.11 | 3772022.15 | 0.27813 | 386699.29 | 3772099.08 | 0.25510 |
| 386690.31 | 3772107.42 | 0.25288 | 386682.62 | 3772113.83 | 0.25084 |
| 386674.29 | 3772123.44 | 0.24706 | 386664.67 | 3772134.34 | 0.24227 |
| 386654.42 | 3772145.24 | 0.23685 | 386605.70 | 3772127.29 | 0.23767 |
| 386590.95 | 3772133.70 | 0.22901 | 386579.42 | 3772139.47 | 0.22114 |
| 386560.18 | 3772147.16 | 0.20782 | 386545.44 | 3772154.85 | 0.19602 |
| 386533.26 | 3772162.54 | 0.18546 | 386542.88 | 3772179.85 | 0.18407 |
| 386553.13 | 3772195.88 | 0.18314 | 386568.52 | 3772208.70 | 0.18532 |
| 386581.98 | 3772192.67 | 0.19747 | 386595.44 | 3772181.13 | 0.20753 |
| 386609.54 | 3772168.95 | 0.21769 | 386624.29 | 3772152.29 | 0.22960 |
| 386619.16 | 3772140.11 | 0.23465 | 386640.31 | 3772163.83 | 0.22669 |
| 386653.77 | 3772174.72 | 0.22293 | 386665.95 | 3772186.26 | 0.21834 |
| 386677.49 | 3772197.80 | 0.21349 | 386688.39 | 3772208.70 | 0.20891 |
| 386701.21 | 3772222.16 | 0.20326 | 386448.64 | 3772217.67 | 0.11671 |
| 386456.34 | 3772212.55 | 0.12226 | 386465.31 | 3772206.13 | 0.12907 |
| 386474.29 | 3772200.37 | 0.13597 | 386481.34 | 3772194.60 | 0.14188 |
| 386489.03 | 3772190.11 | 0.14799 | 386499.29 | 3772183.06 | 0.15665 |
| 386507.62 | 3772177.93 | 0.16364 | 386514.67 | 3772171.52 | 0.17038 |
| 386576.85 | 3772219.60 | 0.18456 | 386586.47 | 3772209.34 | 0.19227 |
| 386597.36 | 3772197.80 | 0.20086 | 386606.98 | 3772187.54 | 0.20835 |

*** AERMOD - VERSION 09292 *** *** Elysian *** 01/25/11
 *** Buried Reservoir HRA *** *** 12:59:47
 PAGE 21

**MODELOPTs: RegDEFAULT CONC ELEV
 NODRYDPLT NOWETDPLT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: SRCGP1 ***
 INCLUDING SOURCE(S): RESEQUIP, RESIDLE, RESONTRU, L0001490, L0001491, L0001492, L0001493,
 L0001494, L0001495, L0001496, L0001497, L0001498, L0001499, L0001500, L0001501, L0001502, L0001503, L0001504, L0001505,
 L0001506, L0001507, L0001508, L0001509, L0001510, L0001511, L0001512, L0001513, L0001514, L0001515, L0001516, . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM.25 IN MICROGRAMS/M**3 **

| X-COORD (M) | Y-COORD (M) | CONC | X-COORD (M) | Y-COORD (M) | CONC |
|-------------|-------------|---------|-------------|-------------|---------|
| 386620.44 | 3772178.57 | 0.21611 | 386742.87 | 3772003.56 | 0.28408 |
| 386386.30 | 3771087.29 | 0.99284 | 386399.28 | 3771081.52 | 0.97392 |
| 386409.38 | 3771067.10 | 0.93337 | 385296.78 | 3771311.99 | 0.00794 |
| 385287.93 | 3771147.05 | 0.00733 | 385283.50 | 3771159.45 | 0.00703 |
| 385576.69 | 37713089.48 | 0.01076 | 385597.95 | 37713060.25 | 0.01122 |
| 385609.46 | 37713037.22 | 0.01172 | 385629.84 | 37712997.36 | 0.01256 |
| 385654.64 | 37712953.07 | 0.01335 | 385706.01 | 37712876.89 | 0.01376 |
| 385752.07 | 37712808.69 | 0.01271 | 385816.74 | 37712724.54 | 0.01161 |
| 385886.71 | 37712645.70 | 0.01192 | 385952.26 | 37712579.27 | 0.01293 |
| 386020.46 | 37712519.04 | 0.01474 | 386093.98 | 37712463.23 | 0.01790 |
| 386169.27 | 37712410.97 | 0.02355 | 386248.11 | 37712359.60 | 0.03427 |
| 386328.71 | 37712309.11 | 0.05426 | 386407.55 | 37712253.30 | 0.08914 |
| 387116.28 | 37712187.40 | 0.07860 | 387141.00 | 37712141.51 | 0.07966 |
| 387201.01 | 37712180.34 | 0.06991 | 387155.12 | 37712229.77 | 0.07054 |
| 386943.29 | 37712540.45 | 0.10119 | 386925.64 | 37712582.82 | 0.10223 |
| 386526.69 | 37709444.68 | 0.40066 | 386466.67 | 3770937.61 | 0.47849 |
| 386537.28 | 37708844.66 | 0.29160 | 386480.80 | 3770881.13 | 0.35109 |
| 387374.01 | 3771597.81 | 0.21470 | 384880.19 | 3771187.72 | 0.02316 |
| 384901.45 | 3771161.15 | 0.02402 | 384909.41 | 3771118.65 | 0.02483 |
| 384912.07 | 3771078.80 | 0.02537 | 384920.04 | 3771052.24 | 0.02578 |

*** AERMOD - VERSION 09292 *** *** Elysian *** 01/25/11
 *** Buried Reservoir HRA *** *** 12:59:47
 PAGE 22

**MODELOPTs: RegDEFAULT CONC ELEV
 NODRYDPLT NOWETDPLT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): RESEQUIP, RESIDLE, RESONTRU, L0001490, L0001491, L0001492, L0001493,
 L0001494, L0001495, L0001496, L0001497, L0001498, L0001499, L0001500, L0001501, L0001502, L0001503, L0001504, L0001505,
 L0001506, L0001507, L0001508, L0001509, L0001510, L0001511, L0001512, L0001513, L0001514, L0001515, L0001516, . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM.25 IN MICROGRAMS/M**3 **

| X-COORD (M) | Y-COORD (M) | CONC | X-COORD (M) | Y-COORD (M) | CONC |
|-------------|-------------|---------|-------------|-------------|---------|
| 386476.85 | 3771139.46 | 1.32454 | 386470.44 | 3771149.72 | 1.38537 |
| 386460.18 | 3771159.97 | 1.44544 | 386449.29 | 3771172.79 | 1.47973 |
| 386440.31 | 3771184.33 | 1.49245 | 386434.54 | 3771197.79 | 1.51574 |

Buried Reservoir HRA

| | | | | | |
|-----------|------------|----------|-----------|------------|----------|
| 386405.05 | 3771244.59 | 1.38287 | 386409.54 | 3771235.61 | 1.41953 |
| 386416.59 | 3771223.43 | 1.45640 | 386421.08 | 3771217.02 | 1.47672 |
| 386426.21 | 3771209.97 | 1.49564 | 386274.28 | 3771299.72 | 0.47032 |
| 386278.77 | 3771290.10 | 0.50023 | 386287.75 | 3771280.49 | 0.54681 |
| 386296.08 | 3771269.59 | 0.60508 | 386303.13 | 3771259.33 | 0.65985 |
| 386340.31 | 3771210.61 | 0.96299 | 386331.34 | 3771222.15 | 0.89306 |
| 386323.00 | 3771233.69 | 0.82342 | 386312.75 | 3771248.43 | 0.73421 |
| 386415.31 | 3771092.02 | 1.04121 | 386380.05 | 3771051.00 | 0.88235 |
| 386392.23 | 3771050.36 | 0.88827 | 386374.29 | 3771063.18 | 0.90928 |
| 386402.49 | 3771098.43 | 1.06506 | 386419.80 | 3771082.41 | 1.00912 |
| 386163.39 | 3771763.82 | 0.05482 | 386081.33 | 3771480.49 | 0.09870 |
| 386103.77 | 3771527.92 | 0.08797 | 386120.44 | 3771576.00 | 0.07703 |
| 386135.82 | 3771613.82 | 0.07018 | 386146.72 | 3771651.64 | 0.06595 |
| 386156.33 | 3771690.75 | 0.06312 | 386164.67 | 3771730.49 | 0.06066 |
| 386716.60 | 3772090.11 | 11.97192 | 386705.70 | 3772082.42 | 14.43402 |
| 386714.67 | 3772074.72 | 13.73300 | 386723.00 | 3772061.90 | 12.94108 |
| 386731.99 | 3772036.90 | 11.08690 | 386728.13 | 3772051.01 | 12.13890 |
| 386737.11 | 3772022.15 | 9.66870 | 386699.29 | 3772099.08 | 12.98017 |
| 386690.31 | 3772107.42 | 12.48806 | 386682.62 | 3772113.83 | 11.92844 |
| 386674.29 | 3772123.44 | 10.86177 | 386664.67 | 3772134.34 | 9.65191 |
| 386654.42 | 3772145.24 | 8.52444 | 386605.70 | 3772127.29 | 7.37494 |
| 386590.95 | 3772133.70 | 4.85301 | 386579.42 | 3772139.47 | 2.86034 |
| 386560.18 | 3772147.16 | 1.46207 | 386545.44 | 3772154.85 | 1.07311 |
| 386533.26 | 3772162.54 | 0.88085 | 386542.88 | 3772179.85 | 0.95888 |
| 386553.13 | 3772195.88 | 1.14743 | 386568.52 | 3772208.70 | 1.55538 |
| 386581.98 | 3772192.67 | 2.33173 | 386595.44 | 3772181.13 | 3.44904 |
| 386609.54 | 3772168.95 | 5.18083 | 386624.29 | 3772152.29 | 7.34839 |
| 386619.16 | 3772140.11 | 8.15180 | 386640.31 | 3772163.83 | 6.90280 |
| 386653.77 | 3772174.72 | 6.31480 | 386665.95 | 3772186.26 | 5.68696 |
| 386677.49 | 3772197.80 | 5.09758 | 386688.39 | 3772208.70 | 4.61851 |
| 386701.21 | 3772222.16 | 4.09815 | 386448.64 | 3772217.67 | 0.33247 |
| 386456.34 | 3772212.55 | 0.35580 | 386465.31 | 3772206.13 | 0.38622 |
| 386474.29 | 3772200.37 | 0.41953 | 386481.34 | 3772194.60 | 0.45017 |
| 386489.03 | 3772190.11 | 0.53139 | 386499.29 | 3772183.06 | 0.59017 |
| 386507.62 | 3772177.93 | 0.64203 | 386514.67 | 3772171.52 | 0.70443 |
| 386576.85 | 3772219.60 | 1.76823 | 386586.47 | 3772209.34 | 2.29914 |
| 386597.36 | 3772197.80 | 3.11964 | 386606.98 | 3772187.54 | 4.05857 |

*** AERMOD - VERSION 09292 *** *** Elysian *** 01/25/11
 *** Buried Reservoir HRA *** *** 12:59:47
 *** *** *** PAGE 23

**MODELOPTs: RegDEFAULT CONC ELEV
 NODRYDPLT NOWETDPLT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): RESQUHP, RESIDLE, RESONTRU, L0001490, L0001491, L0001492, L0001493,
 L0001494, L0001495, L0001496, L0001497, L0001498, L0001499, L0001500, L0001501, L0001502, L0001503, L0001504, L0001505,
 L0001506, L0001507, L0001508, L0001509, L0001510, L0001511, L0001512, L0001513, L0001514, L0001515, L0001516, . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

| | | | | | |
|--|-------------|---------|-------------|-------------|---------|
| ** CONC OF PM.25 IN MICROGRAMS/M**3 ** | | | | | |
| X-COORD (M) | Y-COORD (M) | CONC | X-COORD (M) | Y-COORD (M) | CONC |
| 386620.44 | 3772178.57 | 5.31867 | 386742.87 | 3772003.56 | 7.52353 |
| 386386.30 | 3771087.29 | 1.00795 | 386399.28 | 3771081.52 | 0.98916 |
| 386409.38 | 3771067.10 | 0.94936 | 385296.78 | 3773131.99 | 0.01411 |
| 385287.93 | 3773147.05 | 0.01344 | 385283.50 | 3773159.45 | 0.01320 |
| 385576.69 | 3773089.48 | 0.02286 | 385597.95 | 3773060.25 | 0.02367 |
| 385609.46 | 3773037.22 | 0.02427 | 385629.84 | 3772997.36 | 0.02531 |
| 385654.64 | 3772953.07 | 0.02641 | 385706.01 | 3772876.89 | 0.02778 |
| 385752.07 | 3772808.69 | 0.02781 | 385816.74 | 3772724.54 | 0.02812 |
| 385886.71 | 3772645.70 | 0.03022 | 385952.26 | 3772579.27 | 0.03333 |
| 386020.46 | 3772519.04 | 0.03823 | 386093.98 | 3772463.23 | 0.04671 |
| 386169.27 | 3772410.97 | 0.06011 | 386248.11 | 3772359.60 | 0.08542 |
| 386328.71 | 3772309.11 | 0.13722 | 386407.55 | 3772253.30 | 0.23835 |
| 387116.28 | 3772187.40 | 0.76221 | 387141.00 | 3772141.51 | 0.82577 |
| 387201.01 | 3772180.34 | 0.61458 | 387155.12 | 3772229.77 | 0.55648 |
| 386943.29 | 3772540.45 | 0.43443 | 386925.64 | 3772582.82 | 0.46954 |
| 386526.69 | 3770944.68 | 0.44102 | 386466.67 | 3770937.61 | 0.51815 |
| 386537.28 | 3770884.66 | 0.35590 | 386480.80 | 3770881.13 | 0.40883 |
| 387374.01 | 3771597.81 | 0.34995 | 384880.19 | 3771187.72 | 0.02769 |
| 384901.45 | 3771161.15 | 0.02864 | 384909.41 | 3771118.65 | 0.02968 |
| 384912.07 | 3771078.80 | 0.03046 | 384920.04 | 3771052.24 | 0.03102 |

*** AERMOD - VERSION 09292 *** *** Elysian *** 01/25/11
 *** Buried Reservoir HRA *** *** 12:59:47
 *** *** *** PAGE 24

**MODELOPTs: RegDEFAULT CONC ELEV
 NODRYDPLT NOWETDPLT

*** THE SUMMARY OF MAXIMUM ANNUAL RESULTS AVERAGED OVER 2 YEARS ***

| | | | | | |
|--|-----------------------|---|---------|-----------------|--|
| ** CONC OF PM.25 IN MICROGRAMS/M**3 ** | | | | | |
| GROUP ID | AVERAGE CONC | RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG) | OF TYPE | NETWORK GRID-ID | |
| SRCGP1 | 1ST HIGHEST VALUE IS | 1.50429 AT (386434.54, 3771197.79, 148.58, 181.00, 0.00) | DC | | |
| | 2ND HIGHEST VALUE IS | 1.48418 AT (386426.21, 3771209.97, 149.63, 181.00, 0.00) | DC | | |
| | 3RD HIGHEST VALUE IS | 1.48086 AT (386440.31, 3771184.33, 147.64, 181.00, 0.00) | DC | | |
| | 4TH HIGHEST VALUE IS | 1.46792 AT (386449.29, 3771172.79, 146.55, 181.00, 0.00) | DC | | |
| | 5TH HIGHEST VALUE IS | 1.46521 AT (386421.08, 3771217.02, 150.27, 181.00, 0.00) | DC | | |
| | 6TH HIGHEST VALUE IS | 1.44481 AT (386416.59, 3771223.43, 150.85, 181.00, 0.00) | DC | | |
| | 7TH HIGHEST VALUE IS | 1.43325 AT (386460.18, 3771159.97, 145.29, 181.00, 0.00) | DC | | |
| | 8TH HIGHEST VALUE IS | 1.40777 AT (386409.54, 3771235.61, 151.88, 181.00, 0.00) | DC | | |
| | 9TH HIGHEST VALUE IS | 1.37276 AT (386470.44, 3771149.72, 144.17, 181.00, 0.00) | DC | | |
| | 10TH HIGHEST VALUE IS | 1.37111 AT (386405.05, 3771244.59, 152.85, 181.00, 0.00) | DC | | |
| ALL | 1ST HIGHEST VALUE IS | 14.43402 AT (386705.70, 3772082.42, 92.99, 182.00, 0.00) | DC | | |
| | 2ND HIGHEST VALUE IS | 13.73300 AT (386714.67, 3772074.72, 93.34, 182.00, 0.00) | DC | | |
| | 3RD HIGHEST VALUE IS | 12.98017 AT (386699.29, 3772099.08, 92.73, 182.00, 0.00) | DC | | |
| | 4TH HIGHEST VALUE IS | 12.94108 AT (386723.00, 3772061.90, 93.67, 182.00, 0.00) | DC | | |
| | 5TH HIGHEST VALUE IS | 12.48806 AT (386690.31, 3772107.42, 92.38, 182.00, 0.00) | DC | | |
| | 6TH HIGHEST VALUE IS | 12.13890 AT (386728.13, 3772051.01, 93.88, 182.00, 0.00) | DC | | |
| | 7TH HIGHEST VALUE IS | 11.97192 AT (386716.60, 3772090.11, 93.41, 182.00, 0.00) | DC | | |
| | 8TH HIGHEST VALUE IS | 11.92844 AT (386682.62, 3772113.83, 92.07, 182.00, 0.00) | DC | | |
| | 9TH HIGHEST VALUE IS | 11.08690 AT (386731.99, 3772036.90, 94.04, 182.00, 0.00) | DC | | |
| | 10TH HIGHEST VALUE IS | 10.86177 AT (386674.29, 3772123.44, 92.32, 182.00, 0.00) | DC | | |

*** RECEPTOR TYPES: GC = GRIDCART
 GP = GRIDPOLR

Buried Reservoir HRA

```
DC = DISCCART
DP = DISCPOLR
*** AERMOD - VERSION 09292 ***      *** Elysian      ***      01/25/11
*** Buried Reservoir HRA          ***                 ***      12:59:47
**MODELOPTs:  RegDEFAULT CONC          ELEV          PAGE 25
                                         NODRYDPLT NOWETDPLT

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

----- Summary of Total Messages -----
A Total of          0 Fatal Error Message(s)
A Total of          0 Warning Message(s)
A Total of        113 Informational Message(s)
A Total of        17520 Hours Were Processed
A Total of          0 Calm Hours Identified
A Total of        113 Missing Hours Identified ( 0.64 Percent)

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

***** WARNING MESSAGES *****
*** NONE ***

*****
*** AERMOD Finishes Successfully ***
*****
```

**BARLOW RESPIRATORY BURIED
CONCRETE COVER HEALTH RISK
ASSESSMENT**

| | |
|----------------------------|--------------|
| Project Alternative | |
| PROJECT: | Elysian Park |
| PROJECT NO: | 2008-056 |

| | |
|--|-------------------------------|
| Annual Average Receptor Concentration | |
| Pollutant | micrograms/cubic meter |
| Diesel Particular Matter (DPM) | 0.02 |

| | |
|---|---------------------|
| EXCESS CANCER RISK CALCULATION | |
| Lifetime Exposure Adjustment (LEA) | |
| Receptor: | Sensitive Receptors |
| hours per day | 8 |
| days per week | 5 |
| weeks per year | 50 |
| years | 5.25 |
| LEA | 0.01717033 |

| | |
|--------------------------------|--------|
| Unit Risk Factor (URF) for DPM | 0.0003 |
|--------------------------------|--------|

| | |
|--|---------------------|
| FINDINGS | |
| Receptor: | Sensitive Receptors |
| Excess Cancer Risk | |
| Excess Cancer Risk (Per 1 Million Persons) | 0.1030 |
| SCAQMD Threshold | >= 10 in 1 million |
| Exceed Threshold? | No |

Formulas:
Cancer Risk = DPM Conc x DPM URF x LEA

DPM = Diesel Particulate Matter
URF = Unit Risk Factor
LEA = Lifetime Exposure Adjustment

Source: SCAQMD Health Risk Assessment Guidance for Analyzing Cancer Risks from Mobile Source Diesel Idle Emissions for CEQA Air Quality Analysis, August 2003; California Air Resources Board, Consolidated Table of OEHHA/ARB Approved Risk Assessment Health Values, April 25, 2005

**BARLOW RESPIRATORY ROW INLET HEALTH RISK
ASSESSMENT**

| | |
|----------------------------|--------------|
| Project Alternative | |
| PROJECT: | Elysian Park |
| PROJECT NO: | 2008-056 |

| | |
|--|-------------------------------|
| Annual Average Receptor Concentration | |
| Pollutant | micrograms/cubic meter |
| Diesel Particular Matter (DPM) | 0.01 |

| | |
|---|---------------------|
| EXCESS CANCER RISK CALCULATION | |
| Lifetime Exposure Adjustment (LEA) | |
| Receptor: | Sensitive Receptors |
| hours per day | 8 |
| days per week | 5 |
| weeks per year | 50 |
| years | 1.83 |
| LEA | 0.005985086 |

| | |
|--------------------------------|--------|
| Unit Risk Factor (URF) for DPM | 0.0003 |
|--------------------------------|--------|

| | |
|--|---------------------|
| FINDINGS | |
| Receptor: | Sensitive Receptors |
| Excess Cancer Risk | |
| Excess Cancer Risk (Per 1 Million Persons) | 0.0180 |
| SCAQMD Threshold | >= 10 in 1 million |
| Exceed Threshold? | No |

Formulas:
Cancer Risk = DPM Conc x DPM URF x LEA

DPM = Diesel Particulate Matter
URF = Unit Risk Factor
LEA = Lifetime Exposure Adjustment

Source: SCAQMD Health Risk Assessment Guidance for Analyzing Cancer Risks from Mobile Source Diesel Idle Emissions for CEQA Air Quality Analysis, August 2003; California Air Resources Board, Consolidated Table of OEHHA/ARB Approved Risk Assessment Health Values, April 25, 2005

| | |
|--|--------------------|
| Total Excess Cancer Risk | |
| Excess Cancer Risk (Per 1 Million Persons) | 0.1210 |
| SCAQMD Threshold | >= 10 in 1 million |
| Exceed Threshold? | No |
| Diesel Particular Matter (DPM) | 0.03 |

RESIDENTS OFF PARK ROW BURIED CONCRETE COVER HEALTH RISK ASSESSMENT

| | |
|----------------------------|--------------|
| Project Alternative | |
| PROJECT: | Elysian Park |
| PROJECT NO: | 2008-056 |

| | |
|--|-------------------------------|
| Annual Average Receptor Concentration | |
| Pollutant | micrograms/cubic meter |
| Diesel Particular Matter (DPM) | 1.43 |

| | |
|---|---------------------|
| EXCESS CANCER RISK CALCULATION | |
| Lifetime Exposure Adjustment (LEA) | |
| Receptor: | Sensitive Receptors |
| hours per day | 8 |
| days per week | 5 |
| weeks per year | 50 |
| years | 5.25 |
| LEA | 0.01717033 |

| | |
|--------------------------------|--------|
| Unit Risk Factor (URF) for DPM | 0.0003 |
|--------------------------------|--------|

| | |
|--|---------------------|
| FINDINGS | |
| Receptor: | Sensitive Receptors |
| Excess Cancer Risk | |
| Excess Cancer Risk (Per 1 Million Persons) | 7.3661 |
| SCAQMD Threshold | >= 10 in 1 million |
| Exceed Threshold? | No |

Formulas:
Cancer Risk = DPM Conc x DPM URF x LEA

DPM = Diesel Particulate Matter
URF = Unit Risk Factor
LEA = Lifetime Exposure Adjustment

Source: SCAQMD Health Risk Assessment Guidance for Analyzing Cancer Risks from Mobile Source Diesel Idle Emissions for CEQA Air Quality Analysis, August 2003; California Air Resources Board, Consolidated Table of OEHHA/ARB Approved Risk Assessment Health Values, April 25, 2005

RESIDENTS OFF PARK ROW INLET HEALTH RISK ASSESSMENT

| | |
|----------------------------|--------------|
| Project Alternative | |
| PROJECT: | Elysian Park |
| PROJECT NO: | 2008-056 |

| | |
|--|-------------------------------|
| Annual Average Receptor Concentration | |
| Pollutant | micrograms/cubic meter |
| Diesel Particular Matter (DPM) | 0.06 |

| | |
|---|---------------------|
| EXCESS CANCER RISK CALCULATION | |
| Lifetime Exposure Adjustment (LEA) | |
| Receptor: | Sensitive Receptors |
| hours per day | 8 |
| days per week | 5 |
| weeks per year | 50 |
| years | 1.83 |
| LEA | 0.005985086 |

| | |
|--------------------------------|--------|
| Unit Risk Factor (URF) for DPM | 0.0003 |
|--------------------------------|--------|

| | |
|--|---------------------|
| FINDINGS | |
| Receptor: | Sensitive Receptors |
| Excess Cancer Risk | |
| Excess Cancer Risk (Per 1 Million Persons) | 0.1077 |
| SCAQMD Threshold | >= 10 in 1 million |
| Exceed Threshold? | No |

Formulas:
Cancer Risk = DPM Conc x DPM URF x LEA

DPM = Diesel Particulate Matter
URF = Unit Risk Factor
LEA = Lifetime Exposure Adjustment

Source: SCAQMD Health Risk Assessment Guidance for Analyzing Cancer Risks from Mobile Source Diesel Idle Emissions for CEQA Air Quality Analysis, August 2003; California Air Resources Board, Consolidated Table of OEHHA/ARB Approved Risk Assessment Health Values, April 25, 2005

| | |
|--|--------------------|
| Total Excess Cancer Risk | |
| Excess Cancer Risk (Per 1 Million Persons) | 7.4738 |
| SCAQMD Threshold | >= 10 in 1 million |
| Exceed Threshold? | No |
| Diesel Particular Matter (DPM) | 1.49 |

RESIDENTS OFF RIVERSIDE BURIED CONCRETE COVER HEALTH RISK ASSESSMENT

| | |
|---------------------|--------------|
| Project Alternative | |
| PROJECT: | Elysian Park |
| PROJECT NO: | 2008-056 |

| | |
|--|------------------------|
| Annual Average Receptor Concentration | |
| Pollutant | micrograms/cubic meter |
| Diesel Particular Matter (DPM) | 0.26 |

| | |
|---|---------------------|
| EXCESS CANCER RISK CALCULATION | |
| Lifetime Exposure Adjustment (LEA) | |
| Receptor: | Sensitive Receptors |
| hours per day | 8 |
| days per week | 5 |
| weeks per year | 50 |
| years | 5.25 |
| LEA | 0.01717033 |

| | |
|--------------------------------|--------|
| Unit Risk Factor (URF) for DPM | 0.0003 |
|--------------------------------|--------|

| | |
|--|---------------------|
| FINDINGS | |
| Receptor: | Sensitive Receptors |
| Excess Cancer Risk | |
| Excess Cancer Risk (Per 1 Million Persons) | 1.3393 |
| SCAQMD Threshold | >= 10 in 1 million |
| Exceed Threshold? | No |

Formulas:
Cancer Risk = DPM Conc x DPM URF x LEA

DPM = Diesel Particulate Matter
URF = Unit Risk Factor
LEA = Lifetime Exposure Adjustment

Source: SCAQMD Health Risk Assessment Guidance for Analyzing Cancer Risks from Mobile Source Diesel Idle Emissions for CEQA Air Quality Analysis, August 2003; California Air Resources Board, Consolidated Table of OEHHA/ARB Approved Risk Assessment Health Values, April 25, 2005

RESIDENTS OFF RIVERSIDE INLET HEALTH RISK ASSESSMENT

| | |
|---------------------|--------------|
| Project Alternative | |
| PROJECT: | Elysian Park |
| PROJECT NO: | 2008-056 |

| | |
|--|------------------------|
| Annual Average Receptor Concentration | |
| Pollutant | micrograms/cubic meter |
| Diesel Particular Matter (DPM) | 8.77 |

| | |
|---|---------------------|
| EXCESS CANCER RISK CALCULATION | |
| Lifetime Exposure Adjustment (LEA) | |
| Receptor: | Sensitive Receptors |
| hours per day | 8 |
| days per week | 5 |
| weeks per year | 50 |
| years | 1.83 |
| LEA | 0.005985086 |

| | |
|--------------------------------|--------|
| Unit Risk Factor (URF) for DPM | 0.0003 |
|--------------------------------|--------|

| | |
|--|---------------------|
| FINDINGS | |
| Receptor: | Sensitive Receptors |
| Excess Cancer Risk | |
| Excess Cancer Risk (Per 1 Million Persons) | 15.7468 |
| SCAQMD Threshold | >= 10 in 1 million |
| Exceed Threshold? | Yes |

Formulas:
Cancer Risk = DPM Conc x DPM URF x LEA

DPM = Diesel Particulate Matter
URF = Unit Risk Factor
LEA = Lifetime Exposure Adjustment

Source: SCAQMD Health Risk Assessment Guidance for Analyzing Cancer Risks from Mobile Source Diesel Idle Emissions for CEQA Air Quality Analysis, August 2003; California Air Resources Board, Consolidated Table of OEHHA/ARB Approved Risk Assessment Health Values, April 25, 2005

| | |
|--|--------------------|
| Total Excess Cancer Risk | |
| Excess Cancer Risk (Per 1 Million Persons) | 17.0860 |
| SCAQMD Threshold | >= 10 in 1 million |
| Exceed Threshold? | Yes |
| Diesel Particular Matter (DPM) | 9.03 |

**SOLANO AVE ELEMENTARY SCHOOL
BURIED CONCRETE COVER HEALTH
RISK ASSESSMENT**

| | |
|----------------------------|--------------|
| Project Alternative | |
| PROJECT: | Elysian Park |
| PROJECT NO: | 2008-056 |

| | |
|--|-------------------------------|
| Annual Average Receptor Concentration | |
| Pollutant | micrograms/cubic meter |
| Diesel Particular Matter (DPM) | 1.03 |

| | |
|---|---------------------|
| EXCESS CANCER RISK CALCULATION | |
| Lifetime Exposure Adjustment (LEA) | |
| Receptor: | Sensitive Receptors |
| hours per day | 8 |
| days per week | 5 |
| weeks per year | 50 |
| years | 5.25 |
| LEA | 0.01717033 |

| | |
|--------------------------------|--------|
| Unit Risk Factor (URF) for DPM | 0.0003 |
|--------------------------------|--------|

| | |
|--|---------------------|
| FINDINGS | |
| Receptor: | Sensitive Receptors |
| Excess Cancer Risk | |
| Excess Cancer Risk (Per 1 Million Persons) | 5.3056 |
| SCAQMD Threshold | >= 10 in 1 million |
| Exceed Threshold? | No |

Formulas:
Cancer Risk = DPM Conc x DPM URF x LEA

DPM = Diesel Particulate Matter
URF = Unit Risk Factor
LEA = Lifetime Exposure Adjustment

Source: SCAQMD Health Risk Assessment Guidance for Analyzing Cancer Risks from Mobile Source Diesel Idle Emissions for CEQA Air Quality Analysis, August 2003; California Air Resources Board, Consolidated Table of OEHHA/ARB Approved Risk Assessment Health Values, April 25, 2005

**SOLANO AVE ELEMENTARY SCHOOL INLET HEALTH
RISK ASSESSMENT**

| | |
|----------------------------|--------------|
| Project Alternative | |
| PROJECT: | Elysian Park |
| PROJECT NO: | 2008-056 |

| | |
|--|-------------------------------|
| Annual Average Receptor Concentration | |
| Pollutant | micrograms/cubic meter |
| Diesel Particular Matter (DPM) | 0.06 |

| | |
|---|---------------------|
| EXCESS CANCER RISK CALCULATION | |
| Lifetime Exposure Adjustment (LEA) | |
| Receptor: | Sensitive Receptors |
| hours per day | 8 |
| days per week | 5 |
| weeks per year | 50 |
| years | 1.83 |
| LEA | 0.005985086 |

| | |
|--------------------------------|--------|
| Unit Risk Factor (URF) for DPM | 0.0003 |
|--------------------------------|--------|

| | |
|--|---------------------|
| FINDINGS | |
| Receptor: | Sensitive Receptors |
| Excess Cancer Risk | |
| Excess Cancer Risk (Per 1 Million Persons) | 0.1077 |
| SCAQMD Threshold | >= 10 in 1 million |
| Exceed Threshold? | No |

Formulas:
Cancer Risk = DPM Conc x DPM URF x LEA

DPM = Diesel Particulate Matter
URF = Unit Risk Factor
LEA = Lifetime Exposure Adjustment

Source: SCAQMD Health Risk Assessment Guidance for Analyzing Cancer Risks from Mobile Source Diesel Idle Emissions for CEQA Air Quality Analysis, August 2003; California Air Resources Board, Consolidated Table of OEHHA/ARB Approved Risk Assessment Health Values, April 25, 2005

| | |
|--|--------------------|
| Total Excess Cancer Risk | |
| Excess Cancer Risk (Per 1 Million Persons) | 5.4134 |
| SCAQMD Threshold | >= 10 in 1 million |
| Exceed Threshold? | No |
| Diesel Particular Matter (DPM) | 1.09 |

Floating Reservoir HRA

```
**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 6.7.1
** Lakes Environmental Software Inc.
** Date: 1/25/2011
** File: C:\Documents and Settings\jbailey\Desktop\HRA 1_25\Diesel HRA Internal\F_RS_HRA.ADI
**
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**
CO STARTING
TITLEONE Elysian
TITLETWO Floating Reservoir HRA
MODELOPT DFAULT CONC NODRYDPLT NOWETDPLT
AVERTIME ANNUAL
URBANOPT 9862049 LA
POLLUTID PM.25
RUNORNOT RUN
CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
LOCATION RESEQUIP AREAPOLY 386606.494 3771295.572 139.670
** DESCRSRC Reservoir Equipment
LOCATION RESIDLE AREAPOLY 386606.494 3771295.572 139.670
** DESCRSRC Reservoir Idle
LOCATION RESONTRU AREAPOLY 386606.494 3771295.572 139.670
** DESCRSRC Reservoir On-site Truck
** Line Source represented by Separated Volume Sources
** -----
** LINE Source ID = RESOFFHL
** DESCRSRC Reservoir Haul Trucks
** Length of Side = 10.00
** Emission Rate = 0.00091
** Vertical Dimension = 1.16
** SZINIT = 0.54
** Nodes = 73
** 386729.85, 3771529.57, 121.41, 1.52, 0.0
** 385682.70, 3772787.09, 111.56, 1.52, 9.30
** -----
LOCATION L0000001 VOLUME 386725.336 3771531.732 121.67
LOCATION L0000002 VOLUME 386707.303 3771540.374 122.87
LOCATION L0000003 VOLUME 386689.269 3771549.015 124.24
LOCATION L0000004 VOLUME 386671.235 3771557.656 126.11
LOCATION L0000005 VOLUME 386653.202 3771566.297 129.80
LOCATION L0000006 VOLUME 386635.168 3771574.938 133.39
LOCATION L0000007 VOLUME 386617.134 3771583.579 136.91
LOCATION L0000008 VOLUME 386599.116 3771592.253 140.33
LOCATION L0000009 VOLUME 386581.099 3771600.928 144.21
LOCATION L0000010 VOLUME 386563.082 3771609.603 148.19
LOCATION L0000011 VOLUME 386546.900 3771620.766 151.30
LOCATION L0000012 VOLUME 386533.293 3771635.420 153.44
LOCATION L0000013 VOLUME 386521.215 3771650.856 155.11
LOCATION L0000014 VOLUME 386517.294 3771670.465 154.84
LOCATION L0000015 VOLUME 386513.372 3771690.074 154.94
LOCATION L0000016 VOLUME 386510.665 3771709.664 152.78
LOCATION L0000017 VOLUME 386515.161 3771729.149 146.52
LOCATION L0000018 VOLUME 386516.237 3771748.891 141.58
LOCATION L0000019 VOLUME 386514.376 3771768.679 137.63
LOCATION L0000020 VOLUME 386500.236 3771782.819 138.73
LOCATION L0000021 VOLUME 386483.394 3771786.898 142.87
LOCATION L0000022 VOLUME 386464.072 3771781.746 150.29
LOCATION L0000023 VOLUME 386445.517 3771785.810 154.81
LOCATION L0000024 VOLUME 386427.067 3771790.465 158.19
LOCATION L0000025 VOLUME 386408.141 3771784.437 164.34
LOCATION L0000026 VOLUME 386398.429 3771766.956 169.80
LOCATION L0000027 VOLUME 386395.215 3771747.501 173.71
LOCATION L0000028 VOLUME 386397.623 3771728.356 176.78
LOCATION L0000029 VOLUME 386405.709 3771710.376 179.73
LOCATION L0000030 VOLUME 386400.859 3771690.976 181.59
LOCATION L0000031 VOLUME 386390.001 3771675.190 181.02
LOCATION L0000032 VOLUME 386375.203 3771661.765 180.94
LOCATION L0000033 VOLUME 386367.081 3771643.492 180.79
LOCATION L0000034 VOLUME 386374.788 3771626.331 179.95
LOCATION L0000035 VOLUME 386387.150 3771610.669 178.58
LOCATION L0000036 VOLUME 386392.988 3771592.455 177.17
LOCATION L0000037 VOLUME 386389.456 3771574.475 176.54
LOCATION L0000038 VOLUME 386378.442 3771558.218 176.98
LOCATION L0000039 VOLUME 386383.750 3771542.378 175.58
LOCATION L0000040 VOLUME 386397.890 3771528.238 172.86
LOCATION L0000041 VOLUME 386412.064 3771514.133 169.79
LOCATION L0000042 VOLUME 386426.581 3771500.380 166.97
LOCATION L0000043 VOLUME 386441.098 3771486.627 164.31
LOCATION L0000044 VOLUME 386455.615 3771472.874 161.92
LOCATION L0000045 VOLUME 386469.460 3771459.004 159.74
LOCATION L0000046 VOLUME 386477.735 3771440.799 158.25
LOCATION L0000047 VOLUME 386490.133 3771425.288 156.42
LOCATION L0000048 VOLUME 386503.481 3771410.399 154.37
LOCATION L0000049 VOLUME 386516.830 3771395.510 152.35
LOCATION L0000050 VOLUME 386530.179 3771380.621 150.43
LOCATION L0000051 VOLUME 386542.508 3771365.058 148.71
LOCATION L0000052 VOLUME 386550.965 3771346.937 147.42
LOCATION L0000053 VOLUME 386559.421 3771328.816 146.21
LOCATION L0000054 VOLUME 386567.877 3771310.695 144.48
LOCATION L0000055 VOLUME 386572.680 3771292.135 143.02
LOCATION L0000056 VOLUME 386568.758 3771272.526 142.30
LOCATION L0000057 VOLUME 386564.836 3771252.917 141.57
LOCATION L0000058 VOLUME 386550.574 3771239.602 142.12
LOCATION L0000059 VOLUME 386533.905 3771228.889 143.13
LOCATION L0000060 VOLUME 386515.446 3771221.197 144.42
LOCATION L0000061 VOLUME 386499.719 3771209.068 144.90
```

Floating Reservoir HRA

| | | | | | |
|----------|----------|--------|------------|-------------|--------|
| LOCATION | L0000062 | VOLUME | 386484.536 | 3771196.054 | 145.30 |
| LOCATION | L0000063 | VOLUME | 386474.816 | 3771179.259 | 145.19 |
| LOCATION | L0000064 | VOLUME | 386466.741 | 3771169.997 | 145.30 |
| LOCATION | L0000065 | VOLUME | 386455.321 | 3771186.413 | 146.76 |
| LOCATION | L0000066 | VOLUME | 386443.902 | 3771202.828 | 148.22 |
| LOCATION | L0000067 | VOLUME | 386432.482 | 3771219.244 | 149.67 |
| LOCATION | L0000068 | VOLUME | 386421.062 | 3771235.660 | 151.14 |
| LOCATION | L0000069 | VOLUME | 386409.643 | 3771252.075 | 153.16 |
| LOCATION | L0000070 | VOLUME | 386398.223 | 3771268.491 | 155.26 |
| LOCATION | L0000071 | VOLUME | 386389.387 | 3771286.298 | 157.36 |
| LOCATION | L0000072 | VOLUME | 386381.960 | 3771304.865 | 159.46 |
| LOCATION | L0000073 | VOLUME | 386372.998 | 3771322.713 | 161.66 |
| LOCATION | L0000074 | VOLUME | 386363.489 | 3771340.304 | 163.92 |
| LOCATION | L0000075 | VOLUME | 386353.980 | 3771357.896 | 166.44 |
| LOCATION | L0000076 | VOLUME | 386344.471 | 3771375.487 | 169.10 |
| LOCATION | L0000077 | VOLUME | 386334.962 | 3771393.079 | 171.90 |
| LOCATION | L0000078 | VOLUME | 386319.778 | 3771405.359 | 174.97 |
| LOCATION | L0000079 | VOLUME | 386302.855 | 3771416.014 | 178.24 |
| LOCATION | L0000080 | VOLUME | 386285.933 | 3771426.669 | 180.93 |
| LOCATION | L0000081 | VOLUME | 386269.011 | 3771437.323 | 180.30 |
| LOCATION | L0000082 | VOLUME | 386261.198 | 3771455.708 | 180.43 |
| LOCATION | L0000083 | VOLUME | 386253.438 | 3771474.138 | 180.72 |
| LOCATION | L0000084 | VOLUME | 386252.124 | 3771493.238 | 181.28 |
| LOCATION | L0000085 | VOLUME | 386255.930 | 3771512.869 | 181.90 |
| LOCATION | L0000086 | VOLUME | 386259.736 | 3771532.501 | 182.00 |
| LOCATION | L0000087 | VOLUME | 386263.542 | 3771552.132 | 182.00 |
| LOCATION | L0000088 | VOLUME | 386267.348 | 3771571.763 | 182.00 |
| LOCATION | L0000089 | VOLUME | 386271.154 | 3771591.395 | 182.00 |
| LOCATION | L0000090 | VOLUME | 386274.960 | 3771611.026 | 182.00 |
| LOCATION | L0000091 | VOLUME | 386278.767 | 3771630.658 | 182.00 |
| LOCATION | L0000092 | VOLUME | 386282.573 | 3771650.289 | 182.00 |
| LOCATION | L0000093 | VOLUME | 386286.379 | 3771669.921 | 182.00 |
| LOCATION | L0000094 | VOLUME | 386290.185 | 3771689.552 | 182.00 |
| LOCATION | L0000095 | VOLUME | 386293.991 | 3771709.184 | 181.97 |
| LOCATION | L0000096 | VOLUME | 386286.825 | 3771726.752 | 182.00 |
| LOCATION | L0000097 | VOLUME | 386276.147 | 3771743.659 | 182.00 |
| LOCATION | L0000098 | VOLUME | 386266.374 | 3771760.871 | 182.00 |
| LOCATION | L0000099 | VOLUME | 386264.641 | 3771780.793 | 182.00 |
| LOCATION | L0000100 | VOLUME | 386262.909 | 3771800.715 | 181.66 |
| LOCATION | L0000101 | VOLUME | 386263.214 | 3771820.533 | 180.73 |
| LOCATION | L0000102 | VOLUME | 386266.956 | 3771840.177 | 179.65 |
| LOCATION | L0000103 | VOLUME | 386270.697 | 3771859.821 | 178.43 |
| LOCATION | L0000104 | VOLUME | 386274.439 | 3771879.465 | 177.08 |
| LOCATION | L0000105 | VOLUME | 386278.181 | 3771899.109 | 174.54 |
| LOCATION | L0000106 | VOLUME | 386279.351 | 3771918.713 | 171.67 |
| LOCATION | L0000107 | VOLUME | 386271.435 | 3771933.774 | 171.18 |
| LOCATION | L0000108 | VOLUME | 386251.438 | 3771933.774 | 175.19 |
| LOCATION | L0000109 | VOLUME | 386233.440 | 3771926.611 | 179.02 |
| LOCATION | L0000110 | VOLUME | 386216.333 | 3771916.256 | 182.00 |
| LOCATION | L0000111 | VOLUME | 386199.225 | 3771905.902 | 182.00 |
| LOCATION | L0000112 | VOLUME | 386182.118 | 3771895.547 | 182.00 |
| LOCATION | L0000113 | VOLUME | 386165.010 | 3771885.193 | 182.00 |
| LOCATION | L0000114 | VOLUME | 386146.638 | 3771878.988 | 182.00 |
| LOCATION | L0000115 | VOLUME | 386126.663 | 3771878.037 | 182.00 |
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| LOCATION | L0000125 | VOLUME | 386135.478 | 3771706.798 | 182.00 |
| LOCATION | L0000126 | VOLUME | 386128.892 | 3771687.917 | 181.98 |
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| LOCATION | L0000130 | VOLUME | 386101.675 | 3771612.743 | 181.56 |
| LOCATION | L0000131 | VOLUME | 386093.333 | 3771594.569 | 181.10 |
| LOCATION | L0000132 | VOLUME | 386084.991 | 3771576.395 | 180.60 |
| LOCATION | L0000133 | VOLUME | 386076.649 | 3771558.221 | 180.10 |
| LOCATION | L0000134 | VOLUME | 386068.307 | 3771540.047 | 179.59 |
| LOCATION | L0000135 | VOLUME | 386059.964 | 3771521.873 | 179.09 |
| LOCATION | L0000136 | VOLUME | 386051.622 | 3771503.699 | 178.70 |
| LOCATION | L0000137 | VOLUME | 386043.280 | 3771485.525 | 178.37 |
| LOCATION | L0000138 | VOLUME | 386029.150 | 3771481.644 | 178.69 |
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| LOCATION | L0000140 | VOLUME | 385991.875 | 3771496.140 | 180.19 |
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Floating Reservoir HRA

| | | | | | |
|----------|----------|--------|------------|-------------|--------|
| LOCATION | L0000176 | VOLUME | 385359.101 | 3771501.322 | 182.00 |
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| LOCATION | L0000195 | VOLUME | 385062.493 | 3771534.714 | 182.00 |
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| LOCATION | L0000201 | VOLUME | 384983.078 | 3771608.977 | 181.16 |
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| LOCATION | L0000208 | VOLUME | 385050.359 | 3771731.723 | 181.74 |
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| LOCATION | L0000266 | VOLUME | 385658.074 | 3772681.105 | 120.46 |
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| LOCATION | L0000269 | VOLUME | 385631.095 | 3772734.070 | 118.13 |
| LOCATION | L0000270 | VOLUME | 385621.019 | 3772751.343 | 118.20 |
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| LOCATION | L0000273 | VOLUME | 385590.791 | 3772803.162 | 118.61 |
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| LOCATION | L0000275 | VOLUME | 385570.640 | 3772837.708 | 117.70 |
| LOCATION | L0000276 | VOLUME | 385560.564 | 3772854.981 | 117.45 |
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| LOCATION | L0000288 | VOLUME | 385415.131 | 3773044.120 | 114.05 |
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Floating Reservoir HRA

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LOCATION L0000290 VOLUME 385385.785 3773071.292 113.70
LOCATION L0000291 VOLUME 385371.112 3773084.879 114.09
LOCATION L0000292 VOLUME 385367.792 3773102.493 113.14
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LOCATION L0000294 VOLUME 385401.399 3773105.589 110.95
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LOCATION L0000298 VOLUME 385454.350 3773045.637 112.12
LOCATION L0000299 VOLUME 385467.588 3773030.649 112.35
LOCATION L0000300 VOLUME 385480.825 3773015.660 112.62
LOCATION L0000301 VOLUME 385494.063 3773000.672 112.92
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LOCATION L0000303 VOLUME 385520.539 3772970.696 113.54
LOCATION L0000304 VOLUME 385533.776 3772955.708 113.76
LOCATION L0000305 VOLUME 385547.014 3772940.720 113.76
LOCATION L0000306 VOLUME 385560.252 3772925.732 113.69
LOCATION L0000307 VOLUME 385573.489 3772910.743 113.62
LOCATION L0000308 VOLUME 385586.727 3772895.755 113.55
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LOCATION L0000315 VOLUME 385679.391 3772790.838 112.53
** End of Line Source
LOCATION CALQP AREAPOLY 386596.536 3772117.718 96.500
** DESCRSRC Caltrans Equipment
LOCATION CALIDLE AREAPOLY 386596.536 3772117.718 96.500
** DESCRSRC Caltrans Idle
** Line Source represented by Separated Volume Sources
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** LINE Source ID = CALHAUL
** DESCRSRC Caltrans Haul Trucks
** Length of Side = 15.00
** Emission Rate = 0.00002
** Vertical Dimension = 1.16
** SZINIT = 0.54
** Nodes = 2
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LOCATION L0002112 VOLUME 386618.448 3772102.156 95.41
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** End of Line Source
** Source Parameters **
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AREAVERT RESEQUIP 386606.494 3771295.572 386560.430 3771386.706
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AREAVERT RESEQUIP 386593.931 3771507.954 386619.057 3771483.387
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Floating Reservoir HRA

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Floating Reservoir HRA

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Floating Reservoir HRA

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Floating Reservoir HRA

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SRCGROUP ALL
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PROFFILE "L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\cela.PFL"
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PLOTFILE ANNUAL SRCGP1 F_RS_HRA.AD\AN00G001.PLT
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*****
*** SETUP Finishes Successfully ***
*****

*** AERMOD - VERSION 09292 ***    *** Elysian                    ***          01/25/11
*** Floating Reservoir HRA      ***                               ***          14:41:47
***                               ***                               ***          PAGE 1

**MODELOPTs:  RegDEFAULT CONC                ELEV
                                         NODRYDPLT NOWETDPLT

***          MODEL SETUP OPTIONS SUMMARY          ***
-----

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

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

**Model Uses URBAN Dispersion Algorithm for the SBL for 330 Source(s),
for Total of 1 Urban Area(s):
Urban Population = 9862049.0 ; Urban Roughness Length = 1.000 m

**Model Uses Regulatory DEFAULT Options:
1. Stack-tip Downwash.
2. Model Accounts for ELEVated Terrain Effects.
3. Use Calms Processing Routine.
4. Use Missing Data Processing Routine.
5. No Exponential Decay for URBAN/Non-SO2.
6. Urban Roughness Length of 1.0 Meter Assumed.

**Model Assumes No FLAGPOLE Receptor Heights.

**Model Calculates ANNUAL Averages Only

**This Run Includes: 330 Source(s); 2 Source Group(s); and 120 Receptor(s)

**The Model Assumes A Pollutant Type of: PM.25

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

**Output Options Selected:
Model Outputs Tables of ANNUAL Averages by Receptor
Model Outputs External File(s) of High Values for Plotting (PLOTFILE 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) = 10.00 ; Decay Coef. = 0.000 ; Rot. Angle = 0.0
Emission Units = GRAMS/SEC ; Emission Rate Unit Factor = 0.10000E+07
Output Units = MICROGRAMS/M**3

**Approximate Storage Requirements of Model = 3.8 MB of RAM.

*** AERMOD - VERSION 09292 ***    *** Elysian                    ***          01/25/11
*** Floating Reservoir HRA      ***                               ***          14:41:47
***                               ***                               ***          PAGE 2

**MODELOPTs:  RegDEFAULT CONC                ELEV
                                         NODRYDPLT NOWETDPLT

*** VOLUME SOURCE DATA ***
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Floating Reservoir HRA

| SOURCE ID | NUMBER PART. CATS. | EMISSION RATE (GRAMS/SEC) | X (METERS) | Y (METERS) | BASE ELEV. (METERS) | RELEASE HEIGHT (METERS) | INIT. SY (METERS) | INIT. SZ (METERS) | URBAN SOURCE | EMISSION RATE SCALAR VARY BY |
|-----------|--------------------|---------------------------|------------|------------|---------------------|-------------------------|-------------------|-------------------|--------------|------------------------------|
| L0000001 | 0 | 0.28889E-05 | 386725.3 | 3771531.7 | 121.7 | 1.52 | 9.30 | 0.54 | YES | |
| L0000002 | 0 | 0.28889E-05 | 386707.3 | 3771540.4 | 122.9 | 1.52 | 9.30 | 0.54 | YES | |
| L0000003 | 0 | 0.28889E-05 | 386669.3 | 3771549.0 | 124.2 | 1.52 | 9.30 | 0.54 | YES | |
| L0000004 | 0 | 0.28889E-05 | 386671.2 | 3771557.7 | 126.1 | 1.52 | 9.30 | 0.54 | YES | |
| L0000005 | 0 | 0.28889E-05 | 386653.2 | 3771566.3 | 129.8 | 1.52 | 9.30 | 0.54 | YES | |
| L0000006 | 0 | 0.28889E-05 | 386635.2 | 3771574.9 | 133.4 | 1.52 | 9.30 | 0.54 | YES | |
| L0000007 | 0 | 0.28889E-05 | 386617.1 | 3771583.6 | 136.9 | 1.52 | 9.30 | 0.54 | YES | |
| L0000008 | 0 | 0.28889E-05 | 386599.1 | 3771592.3 | 140.3 | 1.52 | 9.30 | 0.54 | YES | |
| L0000009 | 0 | 0.28889E-05 | 386581.1 | 3771600.9 | 144.2 | 1.52 | 9.30 | 0.54 | YES | |
| L0000010 | 0 | 0.28889E-05 | 386563.1 | 3771609.6 | 148.2 | 1.52 | 9.30 | 0.54 | YES | |
| L0000011 | 0 | 0.28889E-05 | 386546.9 | 3771620.8 | 151.3 | 1.52 | 9.30 | 0.54 | YES | |
| L0000012 | 0 | 0.28889E-05 | 386533.3 | 3771635.4 | 153.4 | 1.52 | 9.30 | 0.54 | YES | |
| L0000013 | 0 | 0.28889E-05 | 386521.2 | 3771650.9 | 155.1 | 1.52 | 9.30 | 0.54 | YES | |
| L0000014 | 0 | 0.28889E-05 | 386517.3 | 3771670.5 | 154.8 | 1.52 | 9.30 | 0.54 | YES | |
| L0000015 | 0 | 0.28889E-05 | 386513.4 | 3771690.1 | 154.9 | 1.52 | 9.30 | 0.54 | YES | |
| L0000016 | 0 | 0.28889E-05 | 386510.7 | 3771709.7 | 152.8 | 1.52 | 9.30 | 0.54 | YES | |
| L0000017 | 0 | 0.28889E-05 | 386515.2 | 3771729.1 | 146.5 | 1.52 | 9.30 | 0.54 | YES | |
| L0000018 | 0 | 0.28889E-05 | 386516.2 | 3771748.9 | 141.6 | 1.52 | 9.30 | 0.54 | YES | |
| L0000019 | 0 | 0.28889E-05 | 386514.4 | 3771768.7 | 137.6 | 1.52 | 9.30 | 0.54 | YES | |
| L0000020 | 0 | 0.28889E-05 | 386500.2 | 3771782.8 | 138.7 | 1.52 | 9.30 | 0.54 | YES | |
| L0000021 | 0 | 0.28889E-05 | 386483.4 | 3771786.9 | 142.9 | 1.52 | 9.30 | 0.54 | YES | |
| L0000022 | 0 | 0.28889E-05 | 386464.1 | 3771781.7 | 150.3 | 1.52 | 9.30 | 0.54 | YES | |
| L0000023 | 0 | 0.28889E-05 | 386445.5 | 3771785.8 | 154.8 | 1.52 | 9.30 | 0.54 | YES | |
| L0000024 | 0 | 0.28889E-05 | 386427.1 | 3771790.5 | 158.2 | 1.52 | 9.30 | 0.54 | YES | |
| L0000025 | 0 | 0.28889E-05 | 386408.1 | 3771784.4 | 164.3 | 1.52 | 9.30 | 0.54 | YES | |
| L0000026 | 0 | 0.28889E-05 | 386398.4 | 3771767.0 | 169.8 | 1.52 | 9.30 | 0.54 | YES | |
| L0000027 | 0 | 0.28889E-05 | 386395.2 | 3771747.5 | 173.7 | 1.52 | 9.30 | 0.54 | YES | |
| L0000028 | 0 | 0.28889E-05 | 386397.6 | 3771728.4 | 176.8 | 1.52 | 9.30 | 0.54 | YES | |
| L0000029 | 0 | 0.28889E-05 | 386405.7 | 3771710.4 | 179.7 | 1.52 | 9.30 | 0.54 | YES | |
| L0000030 | 0 | 0.28889E-05 | 386400.9 | 3771691.0 | 181.6 | 1.52 | 9.30 | 0.54 | YES | |
| L0000031 | 0 | 0.28889E-05 | 386390.0 | 3771675.2 | 181.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0000032 | 0 | 0.28889E-05 | 386375.2 | 3771661.8 | 180.9 | 1.52 | 9.30 | 0.54 | YES | |
| L0000033 | 0 | 0.28889E-05 | 386367.1 | 3771643.5 | 180.8 | 1.52 | 9.30 | 0.54 | YES | |
| L0000034 | 0 | 0.28889E-05 | 386374.8 | 3771626.3 | 180.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0000035 | 0 | 0.28889E-05 | 386387.1 | 3771610.7 | 178.6 | 1.52 | 9.30 | 0.54 | YES | |
| L0000036 | 0 | 0.28889E-05 | 386393.0 | 3771592.5 | 177.2 | 1.52 | 9.30 | 0.54 | YES | |
| L0000037 | 0 | 0.28889E-05 | 386389.5 | 3771574.5 | 176.5 | 1.52 | 9.30 | 0.54 | YES | |
| L0000038 | 0 | 0.28889E-05 | 386378.4 | 3771558.2 | 177.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0000039 | 0 | 0.28889E-05 | 386383.8 | 3771542.4 | 175.6 | 1.52 | 9.30 | 0.54 | YES | |
| L0000040 | 0 | 0.28889E-05 | 386397.9 | 3771528.2 | 172.9 | 1.52 | 9.30 | 0.54 | YES | |

*** AERMOD - VERSION 09292 *** *** Elysian *** 01/25/11
 *** Floating Reservoir HRA *** 14:41:47
 *** *** PAGE 3

**MODELOPTs: RegDEFAULT CONC ELEV
 NODRYDPLT NOWETDPLT

*** VOLUME SOURCE DATA ***

| SOURCE ID | NUMBER PART. CATS. | EMISSION RATE (GRAMS/SEC) | X (METERS) | Y (METERS) | BASE ELEV. (METERS) | RELEASE HEIGHT (METERS) | INIT. SY (METERS) | INIT. SZ (METERS) | URBAN SOURCE | EMISSION RATE SCALAR VARY BY |
|-----------|--------------------|---------------------------|------------|------------|---------------------|-------------------------|-------------------|-------------------|--------------|------------------------------|
| L0000041 | 0 | 0.28889E-05 | 386412.1 | 3771514.1 | 169.8 | 1.52 | 9.30 | 0.54 | YES | |
| L0000042 | 0 | 0.28889E-05 | 386426.6 | 3771500.4 | 167.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0000043 | 0 | 0.28889E-05 | 386441.1 | 3771486.6 | 164.3 | 1.52 | 9.30 | 0.54 | YES | |
| L0000044 | 0 | 0.28889E-05 | 386455.6 | 3771472.9 | 161.9 | 1.52 | 9.30 | 0.54 | YES | |
| L0000045 | 0 | 0.28889E-05 | 386469.5 | 3771459.0 | 159.7 | 1.52 | 9.30 | 0.54 | YES | |
| L0000046 | 0 | 0.28889E-05 | 386477.7 | 3771440.8 | 158.2 | 1.52 | 9.30 | 0.54 | YES | |
| L0000047 | 0 | 0.28889E-05 | 386490.1 | 3771425.3 | 156.4 | 1.52 | 9.30 | 0.54 | YES | |
| L0000048 | 0 | 0.28889E-05 | 386503.5 | 3771410.4 | 154.4 | 1.52 | 9.30 | 0.54 | YES | |
| L0000049 | 0 | 0.28889E-05 | 386516.8 | 3771395.5 | 152.4 | 1.52 | 9.30 | 0.54 | YES | |
| L0000050 | 0 | 0.28889E-05 | 386530.2 | 3771380.6 | 150.4 | 1.52 | 9.30 | 0.54 | YES | |
| L0000051 | 0 | 0.28889E-05 | 386542.5 | 3771365.1 | 148.7 | 1.52 | 9.30 | 0.54 | YES | |
| L0000052 | 0 | 0.28889E-05 | 386551.0 | 3771346.9 | 147.4 | 1.52 | 9.30 | 0.54 | YES | |
| L0000053 | 0 | 0.28889E-05 | 386559.4 | 3771328.8 | 146.2 | 1.52 | 9.30 | 0.54 | YES | |
| L0000054 | 0 | 0.28889E-05 | 386567.9 | 3771310.7 | 144.5 | 1.52 | 9.30 | 0.54 | YES | |
| L0000055 | 0 | 0.28889E-05 | 386572.7 | 3771292.1 | 143.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0000056 | 0 | 0.28889E-05 | 386568.8 | 3771272.5 | 142.3 | 1.52 | 9.30 | 0.54 | YES | |
| L0000057 | 0 | 0.28889E-05 | 386564.8 | 3771252.9 | 141.6 | 1.52 | 9.30 | 0.54 | YES | |
| L0000058 | 0 | 0.28889E-05 | 386550.6 | 3771239.6 | 142.1 | 1.52 | 9.30 | 0.54 | YES | |
| L0000059 | 0 | 0.28889E-05 | 386533.9 | 3771228.9 | 143.1 | 1.52 | 9.30 | 0.54 | YES | |
| L0000060 | 0 | 0.28889E-05 | 386515.4 | 3771221.2 | 144.4 | 1.52 | 9.30 | 0.54 | YES | |
| L0000061 | 0 | 0.28889E-05 | 386499.7 | 3771209.1 | 144.9 | 1.52 | 9.30 | 0.54 | YES | |
| L0000062 | 0 | 0.28889E-05 | 386484.5 | 3771196.1 | 145.3 | 1.52 | 9.30 | 0.54 | YES | |
| L0000063 | 0 | 0.28889E-05 | 386474.8 | 3771179.3 | 145.2 | 1.52 | 9.30 | 0.54 | YES | |
| L0000064 | 0 | 0.28889E-05 | 386466.7 | 3771170.0 | 145.3 | 1.52 | 9.30 | 0.54 | YES | |
| L0000065 | 0 | 0.28889E-05 | 386455.3 | 3771186.4 | 146.8 | 1.52 | 9.30 | 0.54 | YES | |
| L0000066 | 0 | 0.28889E-05 | 386443.9 | 3771202.8 | 148.2 | 1.52 | 9.30 | 0.54 | YES | |
| L0000067 | 0 | 0.28889E-05 | 386432.5 | 3771219.2 | 149.7 | 1.52 | 9.30 | 0.54 | YES | |
| L0000068 | 0 | 0.28889E-05 | 386421.1 | 3771235.7 | 151.1 | 1.52 | 9.30 | 0.54 | YES | |
| L0000069 | 0 | 0.28889E-05 | 386409.6 | 3771252.1 | 153.2 | 1.52 | 9.30 | 0.54 | YES | |
| L0000070 | 0 | 0.28889E-05 | 386398.2 | 3771268.5 | 155.3 | 1.52 | 9.30 | 0.54 | YES | |
| L0000071 | 0 | 0.28889E-05 | 386389.4 | 3771286.3 | 157.4 | 1.52 | 9.30 | 0.54 | YES | |
| L0000072 | 0 | 0.28889E-05 | 386382.0 | 3771304.9 | 159.5 | 1.52 | 9.30 | 0.54 | YES | |
| L0000073 | 0 | 0.28889E-05 | 386373.0 | 3771322.7 | 161.7 | 1.52 | 9.30 | 0.54 | YES | |
| L0000074 | 0 | 0.28889E-05 | 386363.5 | 3771340.3 | 163.9 | 1.52 | 9.30 | 0.54 | YES | |
| L0000075 | 0 | 0.28889E-05 | 386354.0 | 3771357.9 | 166.4 | 1.52 | 9.30 | 0.54 | YES | |
| L0000076 | 0 | 0.28889E-05 | 386344.5 | 3771375.5 | 169.1 | 1.52 | 9.30 | 0.54 | YES | |
| L0000077 | 0 | 0.28889E-05 | 386335.0 | 3771393.1 | 171.3 | 1.52 | 9.30 | 0.54 | YES | |
| L0000078 | 0 | 0.28889E-05 | 386319.8 | 3771405.4 | 175.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0000079 | 0 | 0.28889E-05 | 386302.9 | 3771416.0 | 178.2 | 1.52 | 9.30 | 0.54 | YES | |
| L0000080 | 0 | 0.28889E-05 | 386285.9 | 3771426.7 | 180.9 | 1.52 | 9.30 | 0.54 | YES | |

*** AERMOD - VERSION 09292 *** *** Elysian *** 01/25/11
 *** Floating Reservoir HRA *** 14:41:47
 *** *** PAGE 4

**MODELOPTs: RegDEFAULT CONC ELEV
 NODRYDPLT NOWETDPLT

*** VOLUME SOURCE DATA ***

| SOURCE ID | NUMBER PART. CATS. | EMISSION RATE (GRAMS/SEC) | X (METERS) | Y (METERS) | BASE ELEV. (METERS) | RELEASE HEIGHT (METERS) | INIT. SY (METERS) | INIT. SZ (METERS) | URBAN SOURCE | EMISSION RATE SCALAR VARY BY |
|-----------|--------------------|---------------------------|------------|------------|---------------------|-------------------------|-------------------|-------------------|--------------|------------------------------|
|-----------|--------------------|---------------------------|------------|------------|---------------------|-------------------------|-------------------|-------------------|--------------|------------------------------|

Floating Reservoir HRA

| | | | | | | | | | |
|----------|---|-------------|----------|-----------|-------|------|------|------|-----|
| L0000081 | 0 | 0.28889E-05 | 386269.0 | 3771437.3 | 180.3 | 1.52 | 9.30 | 0.54 | YES |
| L0000082 | 0 | 0.28889E-05 | 386261.2 | 3771455.7 | 180.4 | 1.52 | 9.30 | 0.54 | YES |
| L0000083 | 0 | 0.28889E-05 | 386253.4 | 3771474.1 | 180.7 | 1.52 | 9.30 | 0.54 | YES |
| L0000084 | 0 | 0.28889E-05 | 386252.1 | 3771493.2 | 181.3 | 1.52 | 9.30 | 0.54 | YES |
| L0000085 | 0 | 0.28889E-05 | 386255.9 | 3771512.9 | 181.9 | 1.52 | 9.30 | 0.54 | YES |
| L0000086 | 0 | 0.28889E-05 | 386259.7 | 3771532.5 | 182.0 | 1.52 | 9.30 | 0.54 | YES |
| L0000087 | 0 | 0.28889E-05 | 386263.5 | 3771552.1 | 182.0 | 1.52 | 9.30 | 0.54 | YES |
| L0000088 | 0 | 0.28889E-05 | 386267.3 | 3771571.8 | 182.0 | 1.52 | 9.30 | 0.54 | YES |
| L0000089 | 0 | 0.28889E-05 | 386271.2 | 3771591.4 | 182.0 | 1.52 | 9.30 | 0.54 | YES |
| L0000090 | 0 | 0.28889E-05 | 386275.0 | 3771611.0 | 182.0 | 1.52 | 9.30 | 0.54 | YES |
| L0000091 | 0 | 0.28889E-05 | 386278.8 | 3771630.7 | 182.0 | 1.52 | 9.30 | 0.54 | YES |
| L0000092 | 0 | 0.28889E-05 | 386282.6 | 3771650.3 | 182.0 | 1.52 | 9.30 | 0.54 | YES |
| L0000093 | 0 | 0.28889E-05 | 386286.4 | 3771669.9 | 182.0 | 1.52 | 9.30 | 0.54 | YES |
| L0000094 | 0 | 0.28889E-05 | 386290.2 | 3771689.6 | 182.0 | 1.52 | 9.30 | 0.54 | YES |
| L0000095 | 0 | 0.28889E-05 | 386294.0 | 3771709.2 | 182.0 | 1.52 | 9.30 | 0.54 | YES |
| L0000096 | 0 | 0.28889E-05 | 386286.8 | 3771726.8 | 182.0 | 1.52 | 9.30 | 0.54 | YES |
| L0000097 | 0 | 0.28889E-05 | 386276.1 | 3771743.7 | 182.0 | 1.52 | 9.30 | 0.54 | YES |
| L0000098 | 0 | 0.28889E-05 | 386266.4 | 3771760.9 | 182.0 | 1.52 | 9.30 | 0.54 | YES |
| L0000099 | 0 | 0.28889E-05 | 386264.6 | 3771780.8 | 182.0 | 1.52 | 9.30 | 0.54 | YES |
| L0000100 | 0 | 0.28889E-05 | 386262.9 | 3771800.7 | 181.7 | 1.52 | 9.30 | 0.54 | YES |
| L0000101 | 0 | 0.28889E-05 | 386263.2 | 3771820.5 | 180.7 | 1.52 | 9.30 | 0.54 | YES |
| L0000102 | 0 | 0.28889E-05 | 386267.0 | 3771840.2 | 179.7 | 1.52 | 9.30 | 0.54 | YES |
| L0000103 | 0 | 0.28889E-05 | 386270.7 | 3771859.8 | 178.4 | 1.52 | 9.30 | 0.54 | YES |
| L0000104 | 0 | 0.28889E-05 | 386274.4 | 3771879.5 | 177.1 | 1.52 | 9.30 | 0.54 | YES |
| L0000105 | 0 | 0.28889E-05 | 386278.2 | 3771899.1 | 174.5 | 1.52 | 9.30 | 0.54 | YES |
| L0000106 | 0 | 0.28889E-05 | 386279.4 | 3771918.7 | 171.7 | 1.52 | 9.30 | 0.54 | YES |
| L0000107 | 0 | 0.28889E-05 | 386271.4 | 3771933.8 | 171.2 | 1.52 | 9.30 | 0.54 | YES |
| L0000108 | 0 | 0.28889E-05 | 386251.4 | 3771933.8 | 175.2 | 1.52 | 9.30 | 0.54 | YES |
| L0000109 | 0 | 0.28889E-05 | 386233.4 | 3771926.6 | 179.0 | 1.52 | 9.30 | 0.54 | YES |
| L0000110 | 0 | 0.28889E-05 | 386216.3 | 3771916.3 | 182.0 | 1.52 | 9.30 | 0.54 | YES |
| L0000111 | 0 | 0.28889E-05 | 386199.2 | 3771905.9 | 182.0 | 1.52 | 9.30 | 0.54 | YES |
| L0000112 | 0 | 0.28889E-05 | 386182.1 | 3771895.5 | 182.0 | 1.52 | 9.30 | 0.54 | YES |
| L0000113 | 0 | 0.28889E-05 | 386165.0 | 3771885.2 | 182.0 | 1.52 | 9.30 | 0.54 | YES |
| L0000114 | 0 | 0.28889E-05 | 386146.6 | 3771879.0 | 182.0 | 1.52 | 9.30 | 0.54 | YES |
| L0000115 | 0 | 0.28889E-05 | 386126.7 | 3771878.0 | 182.0 | 1.52 | 9.30 | 0.54 | YES |
| L0000116 | 0 | 0.28889E-05 | 386106.7 | 3771877.1 | 182.0 | 1.52 | 9.30 | 0.54 | YES |
| L0000117 | 0 | 0.28889E-05 | 386112.8 | 3771859.3 | 182.0 | 1.52 | 9.30 | 0.54 | YES |
| L0000118 | 0 | 0.28889E-05 | 386120.2 | 3771840.7 | 182.0 | 1.52 | 9.30 | 0.54 | YES |
| L0000119 | 0 | 0.28889E-05 | 386127.5 | 3771822.1 | 182.0 | 1.52 | 9.30 | 0.54 | YES |
| L0000120 | 0 | 0.28889E-05 | 386134.9 | 3771803.5 | 182.0 | 1.52 | 9.30 | 0.54 | YES |

*** AERMOD - VERSION 09292 *** *** Elysian *** 01/25/11
 *** Floating Reservoir HRA *** 14:41:47
 PAGE 5

**MODELOPTs: RegDEFAULT CONC ELEV
 NODRYDPLT NOWETDPLT

*** VOLUME SOURCE DATA ***

| SOURCE ID | NUMBER PART. CATS. | EMISSION RATE (GRAMS/SEC) | X (METERS) | Y (METERS) | BASE ELEV. (METERS) | RELEASE HEIGHT (METERS) | INIT. SY (METERS) | INIT. SZ (METERS) | URBAN SOURCE | EMISSION RATE SCALAR VARY BY |
|-----------|--------------------|---------------------------|------------|------------|---------------------|-------------------------|-------------------|-------------------|--------------|------------------------------|
| L0000121 | 0 | 0.28889E-05 | 386142.3 | 3771784.9 | 182.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0000122 | 0 | 0.28889E-05 | 386145.1 | 3771765.6 | 182.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0000123 | 0 | 0.28889E-05 | 386143.3 | 3771745.7 | 182.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0000124 | 0 | 0.28889E-05 | 386141.5 | 3771725.8 | 182.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0000125 | 0 | 0.28889E-05 | 386135.5 | 3771706.8 | 182.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0000126 | 0 | 0.28889E-05 | 386128.9 | 3771687.9 | 182.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0000127 | 0 | 0.28889E-05 | 386122.3 | 3771669.0 | 181.9 | 1.52 | 9.30 | 0.54 | YES | |
| L0000128 | 0 | 0.28889E-05 | 386115.7 | 3771650.2 | 181.8 | 1.52 | 9.30 | 0.54 | YES | |
| L0000129 | 0 | 0.28889E-05 | 386109.1 | 3771631.3 | 181.7 | 1.52 | 9.30 | 0.54 | YES | |
| L0000130 | 0 | 0.28889E-05 | 386101.7 | 3771612.7 | 181.6 | 1.52 | 9.30 | 0.54 | YES | |
| L0000131 | 0 | 0.28889E-05 | 386093.3 | 3771594.6 | 181.1 | 1.52 | 9.30 | 0.54 | YES | |
| L0000132 | 0 | 0.28889E-05 | 386085.0 | 3771576.4 | 180.6 | 1.52 | 9.30 | 0.54 | YES | |
| L0000133 | 0 | 0.28889E-05 | 386076.6 | 3771558.2 | 180.1 | 1.52 | 9.30 | 0.54 | YES | |
| L0000134 | 0 | 0.28889E-05 | 386068.3 | 3771540.0 | 179.6 | 1.52 | 9.30 | 0.54 | YES | |
| L0000135 | 0 | 0.28889E-05 | 386060.0 | 3771521.9 | 179.1 | 1.52 | 9.30 | 0.54 | YES | |
| L0000136 | 0 | 0.28889E-05 | 386051.6 | 3771503.7 | 178.7 | 1.52 | 9.30 | 0.54 | YES | |
| L0000137 | 0 | 0.28889E-05 | 386043.3 | 3771485.5 | 178.4 | 1.52 | 9.30 | 0.54 | YES | |
| L0000138 | 0 | 0.28889E-05 | 386029.1 | 3771481.6 | 178.7 | 1.52 | 9.30 | 0.54 | YES | |
| L0000139 | 0 | 0.28889E-05 | 386010.5 | 3771488.9 | 179.5 | 1.52 | 9.30 | 0.54 | YES | |
| L0000140 | 0 | 0.28889E-05 | 385991.9 | 3771496.1 | 180.2 | 1.52 | 9.30 | 0.54 | YES | |
| L0000141 | 0 | 0.28889E-05 | 385973.2 | 3771503.4 | 180.8 | 1.52 | 9.30 | 0.54 | YES | |
| L0000142 | 0 | 0.28889E-05 | 385954.6 | 3771510.6 | 181.2 | 1.52 | 9.30 | 0.54 | YES | |
| L0000143 | 0 | 0.28889E-05 | 385936.0 | 3771517.9 | 181.6 | 1.52 | 9.30 | 0.54 | YES | |
| L0000144 | 0 | 0.28889E-05 | 385917.3 | 3771525.1 | 181.8 | 1.52 | 9.30 | 0.54 | YES | |
| L0000145 | 0 | 0.28889E-05 | 385898.7 | 3771532.4 | 182.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0000146 | 0 | 0.28889E-05 | 385880.1 | 3771539.6 | 182.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0000147 | 0 | 0.28889E-05 | 385861.4 | 3771546.9 | 182.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0000148 | 0 | 0.28889E-05 | 385842.8 | 3771554.1 | 182.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0000149 | 0 | 0.28889E-05 | 385824.1 | 3771561.4 | 182.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0000150 | 0 | 0.28889E-05 | 385805.5 | 3771568.6 | 182.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0000151 | 0 | 0.28889E-05 | 385786.9 | 3771575.9 | 182.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0000152 | 0 | 0.28889E-05 | 385768.2 | 3771583.1 | 182.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0000153 | 0 | 0.28889E-05 | 385749.6 | 3771590.4 | 182.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0000154 | 0 | 0.28889E-05 | 385731.0 | 3771597.6 | 182.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0000155 | 0 | 0.28889E-05 | 385712.3 | 3771604.9 | 182.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0000156 | 0 | 0.28889E-05 | 385693.7 | 3771612.1 | 182.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0000157 | 0 | 0.28889E-05 | 385675.0 | 3771619.4 | 182.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0000158 | 0 | 0.28889E-05 | 385656.4 | 3771626.6 | 182.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0000159 | 0 | 0.28889E-05 | 385637.8 | 3771633.8 | 182.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0000160 | 0 | 0.28889E-05 | 385619.1 | 3771641.1 | 182.0 | 1.52 | 9.30 | 0.54 | YES | |

*** AERMOD - VERSION 09292 *** *** Elysian *** 01/25/11
 *** Floating Reservoir HRA *** 14:41:47
 PAGE 6

**MODELOPTs: RegDEFAULT CONC ELEV
 NODRYDPLT NOWETDPLT

*** VOLUME SOURCE DATA ***

| SOURCE ID | NUMBER PART. CATS. | EMISSION RATE (GRAMS/SEC) | X (METERS) | Y (METERS) | BASE ELEV. (METERS) | RELEASE HEIGHT (METERS) | INIT. SY (METERS) | INIT. SZ (METERS) | URBAN SOURCE | EMISSION RATE SCALAR VARY BY |
|-----------|--------------------|---------------------------|------------|------------|---------------------|-------------------------|-------------------|-------------------|--------------|------------------------------|
| L0000161 | 0 | 0.28889E-05 | 385599.5 | 3771642.1 | 182.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0000162 | 0 | 0.28889E-05 | 385579.6 | 3771640.8 | 182.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0000163 | 0 | 0.28889E-05 | 385559.6 | 3771639.6 | 182.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0000164 | 0 | 0.28889E-05 | 385539.7 | 3771638.3 | 182.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0000165 | 0 | 0.28889E-05 | 385519.7 | 3771637.0 | 182.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0000166 | 0 | 0.28889E-05 | 385500.2 | 3771634.3 | 182.0 | 1.52 | 9.30 | 0.54 | YES | |

Floating Reservoir HRA

| | | | | | | | | | |
|--------------------------------|---|-------------|----------|-----------|----------------------------|------|----------|------|-----|
| L0000167 | 0 | 0.28889E-05 | 385482.9 | 3771624.2 | 182.0 | 1.52 | 9.30 | 0.54 | YES |
| L0000168 | 0 | 0.28889E-05 | 385465.6 | 3771614.1 | 182.0 | 1.52 | 9.30 | 0.54 | YES |
| L0000169 | 0 | 0.28889E-05 | 385448.4 | 3771604.0 | 182.0 | 1.52 | 9.30 | 0.54 | YES |
| L0000170 | 0 | 0.28889E-05 | 385431.3 | 3771593.7 | 182.0 | 1.52 | 9.30 | 0.54 | YES |
| L0000171 | 0 | 0.28889E-05 | 385414.2 | 3771583.2 | 182.0 | 1.52 | 9.30 | 0.54 | YES |
| L0000172 | 0 | 0.28889E-05 | 385399.8 | 3771570.2 | 182.0 | 1.52 | 9.30 | 0.54 | YES |
| L0000173 | 0 | 0.28889E-05 | 385389.6 | 3771553.0 | 182.0 | 1.52 | 9.30 | 0.54 | YES |
| L0000174 | 0 | 0.28889E-05 | 385379.5 | 3771535.7 | 182.0 | 1.52 | 9.30 | 0.54 | YES |
| L0000175 | 0 | 0.28889E-05 | 385369.3 | 3771518.5 | 182.0 | 1.52 | 9.30 | 0.54 | YES |
| L0000176 | 0 | 0.28889E-05 | 385359.1 | 3771501.3 | 182.0 | 1.52 | 9.30 | 0.54 | YES |
| L0000177 | 0 | 0.28889E-05 | 385348.9 | 3771484.1 | 182.0 | 1.52 | 9.30 | 0.54 | YES |
| L0000178 | 0 | 0.28889E-05 | 385338.7 | 3771466.9 | 182.0 | 1.52 | 9.30 | 0.54 | YES |
| L0000179 | 0 | 0.28889E-05 | 385328.6 | 3771449.7 | 182.0 | 1.52 | 9.30 | 0.54 | YES |
| L0000180 | 0 | 0.28889E-05 | 385318.4 | 3771432.5 | 182.0 | 1.52 | 9.30 | 0.54 | YES |
| L0000181 | 0 | 0.28889E-05 | 385308.2 | 3771415.3 | 182.0 | 1.52 | 9.30 | 0.54 | YES |
| L0000182 | 0 | 0.28889E-05 | 385293.2 | 3771414.9 | 182.0 | 1.52 | 9.30 | 0.54 | YES |
| L0000183 | 0 | 0.28889E-05 | 385275.4 | 3771424.1 | 182.0 | 1.52 | 9.30 | 0.54 | YES |
| L0000184 | 0 | 0.28889E-05 | 385257.7 | 3771433.3 | 182.0 | 1.52 | 9.30 | 0.54 | YES |
| L0000185 | 0 | 0.28889E-05 | 385240.0 | 3771442.5 | 182.0 | 1.52 | 9.30 | 0.54 | YES |
| L0000186 | 0 | 0.28889E-05 | 385222.2 | 3771451.8 | 182.0 | 1.52 | 9.30 | 0.54 | YES |
| L0000187 | 0 | 0.28889E-05 | 385204.5 | 3771461.0 | 182.0 | 1.52 | 9.30 | 0.54 | YES |
| L0000188 | 0 | 0.28889E-05 | 385186.7 | 3771470.2 | 182.0 | 1.52 | 9.30 | 0.54 | YES |
| L0000189 | 0 | 0.28889E-05 | 385169.0 | 3771479.4 | 182.0 | 1.52 | 9.30 | 0.54 | YES |
| L0000190 | 0 | 0.28889E-05 | 385151.2 | 3771488.6 | 182.0 | 1.52 | 9.30 | 0.54 | YES |
| L0000191 | 0 | 0.28889E-05 | 385133.5 | 3771497.8 | 182.0 | 1.52 | 9.30 | 0.54 | YES |
| L0000192 | 0 | 0.28889E-05 | 385115.7 | 3771507.1 | 182.0 | 1.52 | 9.30 | 0.54 | YES |
| L0000193 | 0 | 0.28889E-05 | 385098.0 | 3771516.3 | 182.0 | 1.52 | 9.30 | 0.54 | YES |
| L0000194 | 0 | 0.28889E-05 | 385080.2 | 3771525.5 | 182.0 | 1.52 | 9.30 | 0.54 | YES |
| L0000195 | 0 | 0.28889E-05 | 385062.5 | 3771534.7 | 182.0 | 1.52 | 9.30 | 0.54 | YES |
| L0000196 | 0 | 0.28889E-05 | 385044.7 | 3771543.9 | 182.0 | 1.52 | 9.30 | 0.54 | YES |
| L0000197 | 0 | 0.28889E-05 | 385027.0 | 3771553.1 | 181.9 | 1.52 | 9.30 | 0.54 | YES |
| L0000198 | 0 | 0.28889E-05 | 385009.3 | 3771562.4 | 181.8 | 1.52 | 9.30 | 0.54 | YES |
| L0000199 | 0 | 0.28889E-05 | 384994.7 | 3771575.0 | 181.6 | 1.52 | 9.30 | 0.54 | YES |
| L0000200 | 0 | 0.28889E-05 | 384983.8 | 3771591.9 | 181.4 | 1.52 | 9.30 | 0.54 | YES |
| *** AERMOD - VERSION 09292 *** | | | | | *** Elysian | *** | 01/25/11 | | |
| | | | | | *** Floating Reservoir HRA | *** | 14:41:47 | | |
| **MODELOPTs: RegDFAULT CONC | | | | | ELEV | | PAGE 7 | | |
| | | | | | NODRYDPLT NOWETDPLT | | | | |

| *** VOLUME SOURCE DATA *** | | | | | | | | | | |
|--------------------------------|--------------------|---------------------------|------------|------------|----------------------------|-------------------------|-------------------|-------------------|--------------|------------------------------|
| SOURCE ID | NUMBER PART. CATS. | EMISSION RATE (GRAMS/SEC) | X (METERS) | Y (METERS) | BASE ELEV. (METERS) | RELEASE HEIGHT (METERS) | INIT. SY (METERS) | INIT. SZ (METERS) | URBAN SOURCE | EMISSION RATE SCALAR VARY BY |
| L0000201 | 0 | 0.28889E-05 | 384983.1 | 3771609.0 | 181.2 | 1.52 | 9.30 | 0.54 | YES | |
| L0000202 | 0 | 0.28889E-05 | 384992.9 | 3771626.4 | 181.1 | 1.52 | 9.30 | 0.54 | YES | |
| L0000203 | 0 | 0.28889E-05 | 385002.6 | 3771643.9 | 181.1 | 1.52 | 9.30 | 0.54 | YES | |
| L0000204 | 0 | 0.28889E-05 | 385012.2 | 3771661.4 | 181.1 | 1.52 | 9.30 | 0.54 | YES | |
| L0000205 | 0 | 0.28889E-05 | 385021.7 | 3771679.0 | 181.2 | 1.52 | 9.30 | 0.54 | YES | |
| L0000206 | 0 | 0.28889E-05 | 385031.3 | 3771696.6 | 181.3 | 1.52 | 9.30 | 0.54 | YES | |
| L0000207 | 0 | 0.28889E-05 | 385040.8 | 3771714.2 | 181.5 | 1.52 | 9.30 | 0.54 | YES | |
| L0000208 | 0 | 0.28889E-05 | 385050.4 | 3771731.7 | 181.7 | 1.52 | 9.30 | 0.54 | YES | |
| L0000209 | 0 | 0.28889E-05 | 385059.9 | 3771749.3 | 182.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0000210 | 0 | 0.28889E-05 | 385069.5 | 3771766.9 | 182.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0000211 | 0 | 0.28889E-05 | 385079.0 | 3771784.4 | 182.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0000212 | 0 | 0.28889E-05 | 385088.6 | 3771802.0 | 182.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0000213 | 0 | 0.28889E-05 | 385098.1 | 3771819.6 | 182.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0000214 | 0 | 0.28889E-05 | 385107.7 | 3771837.1 | 182.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0000215 | 0 | 0.28889E-05 | 385117.2 | 3771854.7 | 182.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0000216 | 0 | 0.28889E-05 | 385126.8 | 3771872.3 | 182.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0000217 | 0 | 0.28889E-05 | 385136.3 | 3771889.8 | 182.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0000218 | 0 | 0.28889E-05 | 385145.9 | 3771907.4 | 182.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0000219 | 0 | 0.28889E-05 | 385155.4 | 3771925.0 | 182.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0000220 | 0 | 0.28889E-05 | 385165.0 | 3771942.5 | 182.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0000221 | 0 | 0.28889E-05 | 385174.5 | 3771960.1 | 182.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0000222 | 0 | 0.28889E-05 | 385184.1 | 3771977.7 | 182.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0000223 | 0 | 0.28889E-05 | 385194.8 | 3771994.4 | 182.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0000224 | 0 | 0.28889E-05 | 385208.5 | 3772009.0 | 182.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0000225 | 0 | 0.28889E-05 | 385222.2 | 3772023.5 | 182.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0000226 | 0 | 0.28889E-05 | 385236.0 | 3772038.0 | 182.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0000227 | 0 | 0.28889E-05 | 385249.7 | 3772052.5 | 182.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0000228 | 0 | 0.28889E-05 | 385263.5 | 3772067.1 | 182.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0000229 | 0 | 0.28889E-05 | 385277.2 | 3772081.6 | 182.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0000230 | 0 | 0.28889E-05 | 385290.9 | 3772096.1 | 182.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0000231 | 0 | 0.28889E-05 | 385304.7 | 3772110.6 | 182.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0000232 | 0 | 0.28889E-05 | 385318.4 | 3772125.2 | 182.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0000233 | 0 | 0.28889E-05 | 385332.2 | 3772139.7 | 182.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0000234 | 0 | 0.28889E-05 | 385345.9 | 3772154.2 | 182.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0000235 | 0 | 0.28889E-05 | 385359.8 | 3772168.7 | 182.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0000236 | 0 | 0.28889E-05 | 385373.9 | 3772182.8 | 182.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0000237 | 0 | 0.28889E-05 | 385388.0 | 3772196.9 | 182.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0000238 | 0 | 0.28889E-05 | 385402.2 | 3772211.1 | 182.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0000239 | 0 | 0.28889E-05 | 385416.3 | 3772225.2 | 182.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0000240 | 0 | 0.28889E-05 | 385430.5 | 3772239.4 | 182.0 | 1.52 | 9.30 | 0.54 | YES | |
| *** AERMOD - VERSION 09292 *** | | | | | *** Elysian | *** | 01/25/11 | | | |
| | | | | | *** Floating Reservoir HRA | *** | 14:41:47 | | | |
| **MODELOPTs: RegDFAULT CONC | | | | | ELEV | | PAGE 8 | | | |
| | | | | | NODRYDPLT NOWETDPLT | | | | | |

Floating Reservoir HRA

| | | | | | | | | | |
|----------|---|-------------|----------|-----------|-------|------|------|------|-----|
| L0000253 | 0 | 0.28889E-05 | 385596.5 | 3772436.1 | 164.1 | 1.52 | 9.30 | 0.54 | YES |
| L0000254 | 0 | 0.28889E-05 | 385604.1 | 3772454.6 | 160.4 | 1.52 | 9.30 | 0.54 | YES |
| L0000255 | 0 | 0.28889E-05 | 385611.6 | 3772473.1 | 156.7 | 1.52 | 9.30 | 0.54 | YES |
| L0000256 | 0 | 0.28889E-05 | 385619.2 | 3772491.6 | 152.8 | 1.52 | 9.30 | 0.54 | YES |
| L0000257 | 0 | 0.28889E-05 | 385626.8 | 3772510.1 | 148.7 | 1.52 | 9.30 | 0.54 | YES |
| L0000258 | 0 | 0.28889E-05 | 385634.3 | 3772528.6 | 144.3 | 1.52 | 9.30 | 0.54 | YES |
| L0000259 | 0 | 0.28889E-05 | 385641.9 | 3772547.1 | 139.9 | 1.52 | 9.30 | 0.54 | YES |
| L0000260 | 0 | 0.28889E-05 | 385649.5 | 3772565.7 | 136.1 | 1.52 | 9.30 | 0.54 | YES |
| L0000261 | 0 | 0.28889E-05 | 385657.1 | 3772584.2 | 132.1 | 1.52 | 9.30 | 0.54 | YES |
| L0000262 | 0 | 0.28889E-05 | 385664.6 | 3772602.7 | 128.2 | 1.52 | 9.30 | 0.54 | YES |
| L0000263 | 0 | 0.28889E-05 | 385667.1 | 3772621.8 | 125.0 | 1.52 | 9.30 | 0.54 | YES |
| L0000264 | 0 | 0.28889E-05 | 385664.1 | 3772641.6 | 123.1 | 1.52 | 9.30 | 0.54 | YES |
| L0000265 | 0 | 0.28889E-05 | 385661.1 | 3772661.3 | 121.9 | 1.52 | 9.30 | 0.54 | YES |
| L0000266 | 0 | 0.28889E-05 | 385658.1 | 3772681.1 | 120.5 | 1.52 | 9.30 | 0.54 | YES |
| L0000267 | 0 | 0.28889E-05 | 385651.2 | 3772699.5 | 119.5 | 1.52 | 9.30 | 0.54 | YES |
| L0000268 | 0 | 0.28889E-05 | 385641.2 | 3772716.8 | 118.6 | 1.52 | 9.30 | 0.54 | YES |
| L0000269 | 0 | 0.28889E-05 | 385631.1 | 3772734.1 | 118.1 | 1.52 | 9.30 | 0.54 | YES |
| L0000270 | 0 | 0.28889E-05 | 385621.0 | 3772751.3 | 118.2 | 1.52 | 9.30 | 0.54 | YES |
| L0000271 | 0 | 0.28889E-05 | 385610.9 | 3772768.6 | 118.3 | 1.52 | 9.30 | 0.54 | YES |
| L0000272 | 0 | 0.28889E-05 | 385600.9 | 3772785.9 | 118.8 | 1.52 | 9.30 | 0.54 | YES |
| L0000273 | 0 | 0.28889E-05 | 385590.8 | 3772803.2 | 118.6 | 1.52 | 9.30 | 0.54 | YES |
| L0000274 | 0 | 0.28889E-05 | 385580.7 | 3772820.4 | 118.0 | 1.52 | 9.30 | 0.54 | YES |
| L0000275 | 0 | 0.28889E-05 | 385570.6 | 3772837.7 | 117.7 | 1.52 | 9.30 | 0.54 | YES |
| L0000276 | 0 | 0.28889E-05 | 385560.6 | 3772855.0 | 117.5 | 1.52 | 9.30 | 0.54 | YES |
| L0000277 | 0 | 0.28889E-05 | 385550.7 | 3772872.4 | 117.2 | 1.52 | 9.30 | 0.54 | YES |
| L0000278 | 0 | 0.28889E-05 | 385541.0 | 3772889.9 | 116.9 | 1.52 | 9.30 | 0.54 | YES |
| L0000279 | 0 | 0.28889E-05 | 385531.3 | 3772907.4 | 116.5 | 1.52 | 9.30 | 0.54 | YES |
| L0000280 | 0 | 0.28889E-05 | 385521.5 | 3772924.8 | 116.1 | 1.52 | 9.30 | 0.54 | YES |

*** AERMOD - VERSION 09292 *** *** Elysian *** 01/25/11
 *** Floating Reservoir HRA *** 14:41:47
 **MODELOPTs: RegDEFAULT CONC ELEV PAGE 9
 NODRYDPLT NOWETDPLT

*** VOLUME SOURCE DATA ***

| SOURCE ID | NUMBER PART. CATS. | EMISSION RATE (GRAMS/SEC) | X (METERS) | Y (METERS) | BASE ELEV. (METERS) | RELEASE HEIGHT (METERS) | INIT. SY (METERS) | INIT. SZ (METERS) | URBAN SOURCE | EMISSION RATE SCALAR VARY BY |
|-----------|--------------------|---------------------------|------------|------------|---------------------|-------------------------|-------------------|-------------------|--------------|------------------------------|
| L0000281 | 0 | 0.28889E-05 | 385508.4 | 3772939.9 | 115.9 | 1.52 | 9.30 | 0.54 | YES | |
| L0000282 | 0 | 0.28889E-05 | 385495.3 | 3772955.0 | 115.6 | 1.52 | 9.30 | 0.54 | YES | |
| L0000283 | 0 | 0.28889E-05 | 385482.2 | 3772970.1 | 115.3 | 1.52 | 9.30 | 0.54 | YES | |
| L0000284 | 0 | 0.28889E-05 | 385469.1 | 3772985.2 | 114.9 | 1.52 | 9.30 | 0.54 | YES | |
| L0000285 | 0 | 0.28889E-05 | 385456.0 | 3773000.3 | 114.6 | 1.52 | 9.30 | 0.54 | YES | |
| L0000286 | 0 | 0.28889E-05 | 385442.9 | 3773015.4 | 114.3 | 1.52 | 9.30 | 0.54 | YES | |
| L0000287 | 0 | 0.28889E-05 | 385429.8 | 3773030.5 | 114.1 | 1.52 | 9.30 | 0.54 | YES | |
| L0000288 | 0 | 0.28889E-05 | 385415.1 | 3773044.1 | 114.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0000289 | 0 | 0.28889E-05 | 385400.5 | 3773057.7 | 113.9 | 1.52 | 9.30 | 0.54 | YES | |
| L0000290 | 0 | 0.28889E-05 | 385385.8 | 3773071.3 | 113.7 | 1.52 | 9.30 | 0.54 | YES | |
| L0000291 | 0 | 0.28889E-05 | 385371.1 | 3773084.9 | 114.1 | 1.52 | 9.30 | 0.54 | YES | |
| L0000292 | 0 | 0.28889E-05 | 385367.8 | 3773102.5 | 113.1 | 1.52 | 9.30 | 0.54 | YES | |
| L0000293 | 0 | 0.28889E-05 | 385383.8 | 3773110.9 | 111.4 | 1.52 | 9.30 | 0.54 | YES | |
| L0000294 | 0 | 0.28889E-05 | 385401.4 | 3773105.6 | 111.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0000295 | 0 | 0.28889E-05 | 385414.6 | 3773090.6 | 111.3 | 1.52 | 9.30 | 0.54 | YES | |
| L0000296 | 0 | 0.28889E-05 | 385427.9 | 3773075.6 | 111.6 | 1.52 | 9.30 | 0.54 | YES | |
| L0000297 | 0 | 0.28889E-05 | 385441.1 | 3773060.6 | 111.9 | 1.52 | 9.30 | 0.54 | YES | |
| L0000298 | 0 | 0.28889E-05 | 385454.3 | 3773045.6 | 112.1 | 1.52 | 9.30 | 0.54 | YES | |
| L0000299 | 0 | 0.28889E-05 | 385467.6 | 3773030.6 | 112.3 | 1.52 | 9.30 | 0.54 | YES | |
| L0000300 | 0 | 0.28889E-05 | 385480.8 | 3773015.7 | 112.6 | 1.52 | 9.30 | 0.54 | YES | |
| L0000301 | 0 | 0.28889E-05 | 385494.1 | 3773000.7 | 112.9 | 1.52 | 9.30 | 0.54 | YES | |
| L0000302 | 0 | 0.28889E-05 | 385507.3 | 3772985.7 | 113.3 | 1.52 | 9.30 | 0.54 | YES | |
| L0000303 | 0 | 0.28889E-05 | 385520.5 | 3772970.7 | 113.5 | 1.52 | 9.30 | 0.54 | YES | |
| L0000304 | 0 | 0.28889E-05 | 385533.8 | 3772955.7 | 113.8 | 1.52 | 9.30 | 0.54 | YES | |
| L0000305 | 0 | 0.28889E-05 | 385547.0 | 3772940.7 | 113.8 | 1.52 | 9.30 | 0.54 | YES | |
| L0000306 | 0 | 0.28889E-05 | 385560.3 | 3772925.7 | 113.7 | 1.52 | 9.30 | 0.54 | YES | |
| L0000307 | 0 | 0.28889E-05 | 385573.5 | 3772910.7 | 113.6 | 1.52 | 9.30 | 0.54 | YES | |
| L0000308 | 0 | 0.28889E-05 | 385586.7 | 3772895.8 | 113.5 | 1.52 | 9.30 | 0.54 | YES | |
| L0000309 | 0 | 0.28889E-05 | 385600.0 | 3772880.8 | 113.5 | 1.52 | 9.30 | 0.54 | YES | |
| L0000310 | 0 | 0.28889E-05 | 385613.2 | 3772865.8 | 113.4 | 1.52 | 9.30 | 0.54 | YES | |
| L0000311 | 0 | 0.28889E-05 | 385626.4 | 3772850.8 | 113.3 | 1.52 | 9.30 | 0.54 | YES | |
| L0000312 | 0 | 0.28889E-05 | 385639.7 | 3772835.8 | 113.3 | 1.52 | 9.30 | 0.54 | YES | |
| L0000313 | 0 | 0.28889E-05 | 385652.9 | 3772820.8 | 113.2 | 1.52 | 9.30 | 0.54 | YES | |
| L0000314 | 0 | 0.28889E-05 | 385666.2 | 3772805.8 | 112.9 | 1.52 | 9.30 | 0.54 | YES | |
| L0000315 | 0 | 0.28889E-05 | 385679.4 | 3772790.8 | 112.5 | 1.52 | 9.30 | 0.54 | YES | |
| L0002110 | 0 | 0.20000E-05 | 386672.8 | 3772078.6 | 92.5 | 0.00 | 13.77 | 0.54 | YES | |
| L0002111 | 0 | 0.20000E-05 | 386645.6 | 3772090.4 | 94.0 | 0.00 | 13.77 | 0.54 | YES | |
| L0002112 | 0 | 0.20000E-05 | 386618.4 | 3772102.2 | 95.4 | 0.00 | 13.77 | 0.54 | YES | |
| L0002113 | 0 | 0.20000E-05 | 386591.3 | 3772113.9 | 97.0 | 0.00 | 13.77 | 0.54 | YES | |
| L0002114 | 0 | 0.20000E-05 | 386564.1 | 3772125.7 | 98.9 | 0.00 | 13.77 | 0.54 | YES | |

*** AERMOD - VERSION 09292 *** *** Elysian *** 01/25/11
 *** Floating Reservoir HRA *** 14:41:47
 **MODELOPTs: RegDEFAULT CONC ELEV PAGE 10
 NODRYDPLT NOWETDPLT

*** VOLUME SOURCE DATA ***

| SOURCE ID | NUMBER PART. CATS. | EMISSION RATE (GRAMS/SEC) | X (METERS) | Y (METERS) | BASE ELEV. (METERS) | RELEASE HEIGHT (METERS) | NUMBER OF VERTS. | INIT. SZ (METERS) | URBAN SOURCE | EMISSION RATE SCALAR VARY BY |
|-----------|--------------------|---------------------------|------------|------------|---------------------|-------------------------|------------------|-------------------|--------------|------------------------------|
| L0002115 | 0 | 0.20000E-05 | 386537.0 | 3772137.5 | 100.5 | 0.00 | 13.77 | 0.54 | YES | |
| L0002116 | 0 | 0.20000E-05 | 386509.8 | 3772149.2 | 101.8 | 0.00 | 13.77 | 0.54 | YES | |
| L0002117 | 0 | 0.20000E-05 | 386482.6 | 3772161.0 | 102.9 | 0.00 | 13.77 | 0.54 | YES | |
| L0002118 | 0 | 0.20000E-05 | 386455.5 | 3772172.8 | 104.2 | 0.00 | 13.77 | 0.54 | YES | |
| L0002119 | 0 | 0.20000E-05 | 386428.3 | 3772184.6 | 105.6 | 0.00 | 13.77 | 0.54 | YES | |

*** AERMOD - VERSION 09292 *** *** Elysian *** 01/25/11
 *** Floating Reservoir HRA *** 14:41:47
 **MODELOPTs: RegDEFAULT CONC ELEV PAGE 11
 NODRYDPLT NOWETDPLT

*** AREAPOLY SOURCE DATA ***

| SOURCE ID | NUMBER PART. CATS. | EMISSION RATE (GRAMS/SEC) | LOCATION OF AREA X (METERS) | Y (METERS) | BASE ELEV. (METERS) | RELEASE HEIGHT (METERS) | NUMBER OF VERTS. | INIT. SZ (METERS) | URBAN SOURCE | EMISSION RATE SCALAR VARY BY |
|-----------|--------------------|---------------------------|-----------------------------|------------|---------------------|-------------------------|------------------|-------------------|--------------|------------------------------|
|-----------|--------------------|---------------------------|-----------------------------|------------|---------------------|-------------------------|------------------|-------------------|--------------|------------------------------|

Floating Reservoir HRA

NODRYDPLT NOWETDPLT

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID

SOURCE IDs

L0000142, L0000143, L0000144, L0000145, L0000146, L0000147, L0000148, L0000149, L0000150, L0000151, L0000152, L0000153,
L0000154, L0000155, L0000156, L0000157, L0000158, L0000159, L0000160, 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, L0000233, L0000234, L0000235, L0000236, L0000237,
L0000238, L0000239, L0000240, L0000241, L0000242, L0000243, L0000244, L0000245, L0000246, L0000247, L0000248, L0000249,
L0000250, L0000251, L0000252, L0000253, L0000254, L0000255, L0000256, L0000257, L0000258, L0000259, L0000260, L0000261,
L0000262, L0000263, L0000264, L0000265, L0000266, L0000267, L0000268, L0000269, L0000270, L0000271, L0000272, L0000273,
L0000274, L0000275, L0000276, L0000277, L0000278, L0000279, L0000280, L0000281, L0000282, L0000283, L0000284, L0000285,
L0000286, L0000287, L0000288, L0000289, L0000290, L0000291, L0000292, L0000293, L0000294, L0000295, L0000296, L0000297,
L0000298, L0000299, L0000300, L0000301, L0000302, L0000303, L0000304, L0000305, L0000306, L0000307, L0000308, L0000309,
L0000310, L0000311, L0000312, L0000313, L0000314, L0000315, CALEQP , CALIDLE , L0002110, L0002111, L0002112, L0002113,

L0002114, L0002115, L0002116, L0002117, L0002118, L0002119,

*** AERMOD - VERSION 09292 ***

*** Elysian

*** Floating Reservoir HRA

*** 01/25/11

*** 14:41:47

PAGE 15

**MODELOPTs: RegDEFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

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

| | | | | | | | |
|------------------------|--------|--------|-------|------------------------|--------|--------|-------|
| (386476.8, 3771139.5, | 143.3, | 181.0, | 0.0); | (386470.4, 3771149.7, | 144.2, | 181.0, | 0.0); |
| (386460.2, 3771160.0, | 145.3, | 181.0, | 0.0); | (386449.3, 3771172.8, | 146.6, | 181.0, | 0.0); |
| (386440.3, 3771184.3, | 147.6, | 181.0, | 0.0); | (386434.5, 3771197.8, | 148.6, | 181.0, | 0.0); |
| (386405.0, 3771244.6, | 152.9, | 181.0, | 0.0); | (386409.5, 3771235.6, | 151.9, | 181.0, | 0.0); |
| (386416.6, 3771223.4, | 150.9, | 181.0, | 0.0); | (386421.1, 3771217.0, | 150.3, | 181.0, | 0.0); |
| (386426.2, 3771210.0, | 149.6, | 181.0, | 0.0); | (386274.3, 3771299.7, | 168.1, | 181.0, | 0.0); |
| (386278.8, 3771290.1, | 167.4, | 181.0, | 0.0); | (386287.8, 3771280.5, | 166.6, | 181.0, | 0.0); |
| (386296.1, 3771269.6, | 164.9, | 181.0, | 0.0); | (386303.1, 3771259.3, | 163.5, | 181.0, | 0.0); |
| (386340.3, 3771210.6, | 155.9, | 181.0, | 0.0); | (386331.3, 3771222.1, | 157.6, | 181.0, | 0.0); |
| (386323.0, 3771233.7, | 159.3, | 181.0, | 0.0); | (386312.8, 3771248.4, | 161.6, | 181.0, | 0.0); |
| (386415.3, 3771092.0, | 143.8, | 181.0, | 0.0); | (386380.0, 3771051.0, | 142.9, | 164.0, | 0.0); |
| (386392.2, 3771050.4, | 142.2, | 181.0, | 0.0); | (386374.3, 3771063.2, | 144.0, | 164.0, | 0.0); |
| (386402.5, 3771098.4, | 144.8, | 181.0, | 0.0); | (386419.8, 3771082.4, | 142.9, | 181.0, | 0.0); |
| (386163.4, 3771763.8, | 182.0, | 182.0, | 0.0); | (386081.3, 3771480.5, | 178.0, | 178.0, | 0.0); |
| (386103.8, 3771527.9, | 179.8, | 179.8, | 0.0); | (386120.4, 3771576.0, | 181.1, | 181.1, | 0.0); |
| (386135.8, 3771613.8, | 182.0, | 182.0, | 0.0); | (386146.7, 3771651.6, | 182.0, | 182.0, | 0.0); |
| (386156.3, 3771690.8, | 182.0, | 182.0, | 0.0); | (386164.7, 3771730.5, | 182.0, | 182.0, | 0.0); |
| (386716.6, 3772090.1, | 93.4, | 182.0, | 0.0); | (386705.7, 3772082.4, | 93.0, | 182.0, | 0.0); |
| (386714.7, 3772074.7, | 93.3, | 182.0, | 0.0); | (386723.0, 3772061.9, | 93.7, | 182.0, | 0.0); |
| (386732.0, 3772036.9, | 94.0, | 182.0, | 0.0); | (386728.1, 3772051.0, | 93.9, | 182.0, | 0.0); |
| (386737.1, 3772022.1, | 94.2, | 182.0, | 0.0); | (386699.3, 3772099.1, | 92.7, | 182.0, | 0.0); |
| (386690.3, 3772107.4, | 92.4, | 182.0, | 0.0); | (386682.6, 3772113.8, | 92.1, | 182.0, | 0.0); |
| (386674.3, 3772123.4, | 92.3, | 182.0, | 0.0); | (386664.7, 3772134.3, | 92.8, | 182.0, | 0.0); |
| (386654.4, 3772145.2, | 93.1, | 182.0, | 0.0); | (386605.7, 3772127.3, | 95.6, | 182.0, | 0.0); |
| (386591.0, 3772133.7, | 96.5, | 182.0, | 0.0); | (386579.4, 3772139.5, | 97.2, | 182.0, | 0.0); |
| (386560.2, 3772147.2, | 98.4, | 182.0, | 0.0); | (386545.4, 3772154.8, | 99.0, | 182.0, | 0.0); |
| (386533.3, 3772162.5, | 99.5, | 182.0, | 0.0); | (386542.9, 3772179.8, | 98.2, | 182.0, | 0.0); |
| (386553.1, 3772195.9, | 96.9, | 182.0, | 0.0); | (386568.5, 3772208.7, | 95.5, | 182.0, | 0.0); |
| (386582.0, 3772192.7, | 95.3, | 182.0, | 0.0); | (386595.4, 3772181.1, | 94.8, | 182.0, | 0.0); |
| (386609.5, 3772168.9, | 94.5, | 182.0, | 0.0); | (386624.3, 3772152.3, | 94.3, | 182.0, | 0.0); |
| (386619.2, 3772140.1, | 94.7, | 182.0, | 0.0); | (386640.3, 3772163.8, | 93.5, | 182.0, | 0.0); |
| (386653.8, 3772174.7, | 93.0, | 182.0, | 0.0); | (386666.0, 3772186.3, | 92.7, | 182.0, | 0.0); |
| (386677.5, 3772197.8, | 92.5, | 182.0, | 0.0); | (386688.4, 3772208.7, | 92.8, | 182.0, | 0.0); |
| (386701.2, 3772222.2, | 93.5, | 182.0, | 0.0); | (386448.6, 3772217.7, | 102.7, | 182.0, | 0.0); |
| (386456.3, 3772212.5, | 102.4, | 182.0, | 0.0); | (386465.3, 3772206.1, | 102.1, | 182.0, | 0.0); |
| (386474.3, 3772200.4, | 101.8, | 182.0, | 0.0); | (386481.3, 3772194.6, | 101.5, | 182.0, | 0.0); |
| (386489.0, 3772190.1, | 101.2, | 182.0, | 0.0); | (386499.3, 3772183.1, | 100.9, | 182.0, | 0.0); |
| (386507.6, 3772177.9, | 100.5, | 182.0, | 0.0); | (386514.7, 3772171.5, | 100.3, | 182.0, | 0.0); |
| (386576.8, 3772219.6, | 94.6, | 182.0, | 0.0); | (386586.5, 3772209.3, | 94.4, | 182.0, | 0.0); |
| (386597.4, 3772197.8, | 94.2, | 182.0, | 0.0); | (386607.0, 3772187.5, | 94.0, | 182.0, | 0.0); |
| (386620.4, 3772178.6, | 93.9, | 182.0, | 0.0); | (386742.9, 3772003.6, | 94.5, | 182.0, | 0.0); |
| (386386.3, 3771087.3, | 144.9, | 181.0, | 0.0); | (386399.3, 3771081.5, | 143.9, | 181.0, | 0.0); |
| (386409.4, 3771067.1, | 142.4, | 181.0, | 0.0); | (385296.8, 3773132.0, | 117.7, | 182.0, | 0.0); |
| (385287.9, 3773147.0, | 117.7, | 182.0, | 0.0); | (385283.5, 3773159.4, | 117.2, | 182.0, | 0.0); |
| (385576.7, 3773089.5, | 103.9, | 182.0, | 0.0); | (385598.0, 3773060.2, | 104.0, | 182.0, | 0.0); |

*** AERMOD - VERSION 09292 ***

*** Elysian

*** Floating Reservoir HRA

*** 01/25/11

*** 14:41:47

PAGE 16

**MODELOPTs: RegDEFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

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

| | | | | | | | |
|------------------------|--------|--------|-------|------------------------|--------|--------|-------|
| (385609.5, 3773037.2, | 104.5, | 182.0, | 0.0); | (385629.8, 3772997.4, | 105.3, | 182.0, | 0.0); |
| (385654.6, 3772953.1, | 106.0, | 182.0, | 0.0); | (385706.0, 3772876.9, | 106.7, | 182.0, | 0.0); |
| (385752.1, 3772808.7, | 107.3, | 182.0, | 0.0); | (385816.7, 3772724.5, | 108.9, | 182.0, | 0.0); |
| (385886.7, 3772645.7, | 110.4, | 182.0, | 0.0); | (385952.3, 3772579.3, | 111.3, | 182.0, | 0.0); |
| (386020.5, 3772519.0, | 111.7, | 182.0, | 0.0); | (386094.0, 3772463.2, | 111.1, | 182.0, | 0.0); |
| (386169.3, 3772411.0, | 110.4, | 182.0, | 0.0); | (386248.1, 3772359.6, | 108.8, | 182.0, | 0.0); |
| (386328.7, 3772309.1, | 105.9, | 182.0, | 0.0); | (386407.5, 3772253.3, | 103.3, | 182.0, | 0.0); |
| (387116.3, 3772187.4, | 108.2, | 182.0, | 0.0); | (387141.0, 3772141.5, | 108.9, | 108.9, | 0.0); |
| (387201.0, 3772180.3, | 110.6, | 182.0, | 0.0); | (387155.1, 3772229.8, | 110.0, | 182.0, | 0.0); |
| (386943.3, 3772540.4, | 102.9, | 243.0, | 0.0); | (386925.6, 3772582.8, | 102.9, | 243.0, | 0.0); |

Floating Reservoir HRA

| | | | | | | | | | | | | | | | | |
|----------|------|-------|-------|--------|--------|-------|-------|-------|------|------|------|------|------|------|-------|------|
| 06 01 01 | 1 17 | -13.7 | 0.266 | -9.000 | -9.000 | -999. | 319. | 125.0 | 0.65 | 1.00 | 0.60 | 2.90 | 82. | 21.3 | 286.4 | 17.7 |
| 06 01 01 | 1 18 | -10.2 | 0.183 | -9.000 | -9.000 | -999. | 183. | 54.5 | 0.65 | 1.00 | 1.00 | 2.50 | 101. | 21.3 | 286.4 | 17.7 |
| 06 01 01 | 1 19 | -16.1 | 0.289 | -9.000 | -9.000 | -999. | 358. | 135.6 | 0.65 | 1.00 | 1.00 | 3.10 | 97. | 21.3 | 285.9 | 17.7 |
| 06 01 01 | 1 20 | -25.2 | 0.450 | -9.000 | -9.000 | -999. | 693. | 326.1 | 0.65 | 1.00 | 1.00 | 4.30 | 92. | 21.3 | 284.9 | 17.7 |
| 06 01 01 | 1 21 | -27.3 | 0.487 | -9.000 | -9.000 | -999. | 781. | 381.9 | 0.65 | 1.00 | 1.00 | 4.60 | 88. | 21.3 | 284.2 | 17.7 |
| 06 01 01 | 1 22 | -28.0 | 0.499 | -9.000 | -9.000 | -999. | 812. | 402.5 | 0.65 | 1.00 | 1.00 | 4.70 | 91. | 21.3 | 284.9 | 17.7 |
| 06 01 01 | 1 23 | -36.1 | 0.645 | -9.000 | -9.000 | -999. | 1191. | 673.0 | 0.65 | 1.00 | 1.00 | 5.90 | 82. | 21.3 | 285.4 | 17.7 |
| 06 01 01 | 1 24 | -35.3 | 0.633 | -9.000 | -9.000 | -999. | 1160. | 649.7 | 0.65 | 1.00 | 1.00 | 5.80 | 84. | 21.3 | 285.9 | 17.7 |

First hour of profile data
 YR MO DY HR HEIGHT F WDIR WSPD AMB_TMP sigmaA sigmaW sigmaV
 06 01 01 01 17.7 0 -999. -99.00 286.5 99.0 -99.00 -99.00
 06 01 01 01 21.3 1 347. 0.70 -999.0 99.0 -99.00 -99.00

F indicates top of profile (=1) or below (=0)
 *** AERMOD - VERSION 09292 *** ** Elysian *** 01/25/11
 *** Floating Reservoir HRA *** 14:41:47
 PAGE 20

***MODELOPTs: RegDEFAULT CONC ELEV
 NODRYDPLT NOWETDPLT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: SRCGP1 ***
 INCLUDING SOURCE(S): RESEQUIP, RESIDLE, RESONTRU, 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, . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

| ** CONC OF PM.25 | | IN MICROGRAMS/M**3 | | ** | |
|------------------|-------------|--------------------|-------------|-------------|---------|
| X-COORD (M) | Y-COORD (M) | CONC | X-COORD (M) | Y-COORD (M) | CONC |
| 386476.85 | 3771139.46 | 1.56973 | 386470.44 | 3771149.72 | 1.64145 |
| 386460.18 | 3771159.97 | 1.71184 | 386449.29 | 3771172.79 | 1.75475 |
| 386440.31 | 3771184.33 | 1.77229 | 386434.54 | 3771197.79 | 1.80066 |
| 386405.05 | 3771244.59 | 1.66195 | 386409.54 | 3771235.61 | 1.70166 |
| 386416.59 | 3771223.43 | 1.74068 | 386421.08 | 3771217.02 | 1.76215 |
| 386426.21 | 3771209.97 | 1.78188 | 386274.28 | 3771299.72 | 0.65662 |
| 386278.77 | 3771290.10 | 0.68711 | 386287.75 | 3771280.49 | 0.73595 |
| 386296.08 | 3771269.59 | 0.79773 | 386303.13 | 3771259.33 | 0.85604 |
| 386340.31 | 3771210.61 | 1.18420 | 386331.34 | 3771222.15 | 1.10816 |
| 386323.00 | 3771233.69 | 1.03264 | 386312.75 | 3771248.43 | 0.93625 |
| 386415.31 | 3771109.02 | 1.24496 | 386380.05 | 3771051.00 | 1.06056 |
| 386392.23 | 3771050.36 | 1.06605 | 386374.29 | 3771063.18 | 1.09375 |
| 386402.49 | 3771098.43 | 1.27462 | 386419.80 | 3771082.41 | 1.20638 |
| 386163.39 | 3771763.82 | 0.13904 | 386081.33 | 3771480.49 | 0.21739 |
| 386103.77 | 3771527.92 | 0.20852 | 386120.44 | 3771576.00 | 0.19493 |
| 386135.82 | 3771613.82 | 0.18664 | 386146.72 | 3771651.64 | 0.17719 |
| 386156.33 | 3771690.75 | 0.16697 | 386164.67 | 3771730.49 | 0.15572 |
| 386716.60 | 3772090.11 | 7.36770 | 386705.70 | 3772082.42 | 9.07054 |
| 386714.67 | 3772074.72 | 8.64170 | 386723.00 | 3772061.90 | 8.26396 |
| 386731.99 | 3772036.90 | 7.31180 | 386728.13 | 3772051.01 | 7.86514 |
| 386737.11 | 3772022.15 | 6.25670 | 386699.29 | 3772099.08 | 8.05744 |
| 386690.31 | 3772107.42 | 7.79292 | 386682.62 | 3772113.83 | 7.48415 |
| 386674.29 | 3772123.44 | 6.85079 | 386664.67 | 3772134.34 | 6.07450 |
| 386654.42 | 3772145.24 | 5.26859 | 386605.70 | 3772127.29 | 5.51706 |
| 386590.95 | 3772133.70 | 3.43574 | 386579.42 | 3772139.47 | 2.03513 |
| 386560.18 | 3772147.16 | 1.01033 | 386545.44 | 3772154.85 | 0.71572 |
| 386533.26 | 3772162.54 | 0.57934 | 386542.88 | 3772179.85 | 0.64070 |
| 386553.13 | 3772195.88 | 0.75912 | 386568.52 | 3772208.70 | 0.97660 |
| 386581.98 | 3772192.67 | 1.40628 | 386595.44 | 3772181.13 | 2.02495 |
| 386609.54 | 3772168.95 | 2.95389 | 386624.29 | 3772152.29 | 4.46021 |
| 386619.16 | 3772140.11 | 5.37200 | 386640.31 | 3772163.83 | 3.97390 |
| 386653.77 | 3772174.72 | 3.50201 | 386665.95 | 3772186.26 | 3.06118 |
| 386677.49 | 3772197.80 | 2.68679 | 386688.39 | 3772208.70 | 2.39764 |
| 386701.21 | 3772222.16 | 2.09628 | 386448.64 | 3772217.67 | 0.24362 |
| 386456.34 | 3772212.55 | 0.25904 | 386465.31 | 3772206.13 | 0.27915 |
| 386474.29 | 3772200.37 | 0.30084 | 386481.34 | 3772194.60 | 0.32133 |
| 386489.03 | 3772190.11 | 0.35115 | 386499.29 | 3772183.06 | 0.38817 |
| 386507.62 | 3772177.93 | 0.42135 | 386514.67 | 3772171.52 | 0.46119 |
| 386576.85 | 3772219.60 | 1.06445 | 386586.47 | 3772209.34 | 1.33759 |
| 386597.36 | 3772197.80 | 1.75399 | 386606.98 | 3772187.54 | 2.23989 |

*** AERMOD - VERSION 09292 *** ** Elysian *** 01/25/11
 *** Floating Reservoir HRA *** 14:41:47
 PAGE 21

***MODELOPTs: RegDEFAULT CONC ELEV
 NODRYDPLT NOWETDPLT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: SRCGP1 ***
 INCLUDING SOURCE(S): RESEQUIP, RESIDLE, RESONTRU, 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, . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

| ** CONC OF PM.25 | | IN MICROGRAMS/M**3 | | ** | |
|------------------|-------------|--------------------|-------------|-------------|---------|
| X-COORD (M) | Y-COORD (M) | CONC | X-COORD (M) | Y-COORD (M) | CONC |
| 386620.44 | 3772178.57 | 2.91211 | 386742.87 | 3772003.56 | 4.65307 |
| 386386.30 | 3771087.29 | 1.20923 | 386399.28 | 3771081.52 | 1.18543 |
| 386409.38 | 3771067.10 | 1.13676 | 385296.78 | 3773131.99 | 0.01115 |
| 385287.93 | 3773147.05 | 0.01058 | 385283.50 | 3773159.45 | 0.01029 |
| 385576.69 | 3773089.48 | 0.01528 | 385597.95 | 3773060.25 | 0.01590 |
| 385609.46 | 3773037.22 | 0.01646 | 385629.84 | 3772997.36 | 0.01742 |
| 385654.64 | 3772953.07 | 0.01842 | 385706.01 | 3772876.89 | 0.01949 |
| 385752.07 | 3772808.69 | 0.01939 | 385816.74 | 3772724.54 | 0.01974 |
| 385886.71 | 3772645.70 | 0.02174 | 385952.26 | 3772579.27 | 0.02469 |
| 386020.46 | 3772519.04 | 0.02906 | 386093.98 | 3772463.23 | 0.03595 |
| 386169.27 | 3772410.97 | 0.04710 | 386248.11 | 3772359.60 | 0.06716 |
| 386328.71 | 3772309.11 | 0.10459 | 386407.55 | 3772253.30 | 0.17582 |
| 387116.28 | 3772187.40 | 0.51098 | 387141.00 | 3772141.51 | 0.51764 |
| 387201.01 | 3772180.34 | 0.42005 | 387155.12 | 3772229.77 | 0.41229 |
| 386943.29 | 3772540.45 | 0.29142 | 386925.64 | 3772582.82 | 0.30097 |
| 386526.69 | 3770944.68 | 0.51188 | 386466.67 | 3770937.61 | 0.60385 |
| 386537.28 | 3770884.66 | 0.38452 | 386480.80 | 3770881.13 | 0.45525 |
| 387374.01 | 3771597.81 | 0.30618 | 384880.19 | 3771187.72 | 0.03717 |
| 384901.45 | 3771161.15 | 0.03856 | 384909.41 | 3771118.65 | 0.04001 |
| 384912.07 | 3771078.80 | 0.04113 | 384920.04 | 3771052.24 | 0.04206 |

*** AERMOD - VERSION 09292 *** ** Elysian *** 01/25/11
 *** Floating Reservoir HRA *** 14:41:47
 PAGE 22

Floating Reservoir HRA

NODRYDPLT NOWETDPLT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): RESEQUIP, RESIDLE, RESONTRU, 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, . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM.25 IN MICROGRAMS/M**3 **

| X-COORD (M) | Y-COORD (M) | CONC | X-COORD (M) | Y-COORD (M) | CONC |
|-------------|-------------|---------|-------------|-------------|---------|
| 386476.85 | 3771139.46 | 1.56973 | 386470.44 | 3771149.72 | 1.64145 |
| 386460.18 | 3771159.97 | 1.71184 | 386449.29 | 3771172.79 | 1.75475 |
| 386440.31 | 3771184.33 | 1.77229 | 386434.54 | 3771197.79 | 1.80066 |
| 386405.05 | 3771244.59 | 1.66195 | 386409.54 | 3771235.61 | 1.70166 |
| 386416.59 | 3771223.43 | 1.74068 | 386421.08 | 3771217.02 | 1.76215 |
| 386426.21 | 3771209.97 | 1.78188 | 386274.28 | 3771299.72 | 0.65662 |
| 386278.77 | 3771290.10 | 0.68711 | 386287.75 | 3771280.49 | 0.73595 |
| 386296.08 | 3771269.59 | 0.79773 | 386303.13 | 3771259.33 | 0.85604 |
| 386340.31 | 3771210.61 | 1.18420 | 386331.34 | 3771222.15 | 1.10816 |
| 386323.00 | 3771233.69 | 1.03264 | 386312.75 | 3771248.43 | 0.93625 |
| 386415.31 | 3771092.02 | 1.24496 | 386380.05 | 3771051.00 | 1.06056 |
| 386392.23 | 3771050.36 | 1.06605 | 386374.29 | 3771063.18 | 1.09375 |
| 386402.49 | 3771098.43 | 1.27462 | 386419.80 | 3771082.41 | 1.20638 |
| 386163.39 | 3771163.82 | 0.13904 | 386081.33 | 3771480.49 | 0.21739 |
| 386103.77 | 3771527.92 | 0.20852 | 386120.44 | 3771576.00 | 0.19493 |
| 386135.82 | 3771613.82 | 0.18664 | 386146.72 | 3771651.64 | 0.17719 |
| 386156.33 | 3771690.75 | 0.16697 | 386164.67 | 3771730.49 | 0.15572 |
| 386716.60 | 3772090.11 | 7.36770 | 386705.70 | 3772082.42 | 9.07054 |
| 386714.67 | 3772074.72 | 8.64170 | 386723.00 | 3772061.90 | 8.26396 |
| 386731.99 | 3772036.90 | 7.31180 | 386728.13 | 3772051.01 | 7.86514 |
| 386737.11 | 3772022.15 | 6.25670 | 386699.29 | 3772099.08 | 8.05744 |
| 386690.31 | 3772107.42 | 7.79292 | 386682.62 | 3772113.83 | 7.48415 |
| 386674.29 | 3772123.44 | 6.85079 | 386664.67 | 3772134.34 | 6.07450 |
| 386654.42 | 3772145.24 | 5.26859 | 386605.70 | 3772127.29 | 5.51706 |
| 386590.95 | 3772133.70 | 3.43574 | 386579.42 | 3772139.47 | 2.03513 |
| 386560.18 | 3772147.16 | 1.01033 | 386545.44 | 3772154.85 | 0.71572 |
| 386533.26 | 3772162.54 | 0.57934 | 386542.88 | 3772179.85 | 0.64070 |
| 386553.13 | 3772195.88 | 0.75912 | 386568.52 | 3772208.70 | 0.97660 |
| 386581.98 | 3772192.67 | 1.40628 | 386595.44 | 3772181.13 | 2.02495 |
| 386609.54 | 3772168.95 | 2.95389 | 386624.29 | 3772152.29 | 4.46021 |
| 386619.16 | 3772140.11 | 5.37200 | 386640.31 | 3772163.83 | 3.97390 |
| 386653.77 | 3772174.72 | 3.50201 | 386665.95 | 3772186.26 | 3.06118 |
| 386677.49 | 3772197.80 | 2.68679 | 386688.39 | 3772208.70 | 2.39764 |
| 386701.21 | 3772222.16 | 2.09628 | 386448.64 | 3772217.67 | 0.24362 |
| 386456.34 | 3772212.55 | 0.25904 | 386465.31 | 3772206.13 | 0.27915 |
| 386474.29 | 3772200.37 | 0.30084 | 386481.34 | 3772194.60 | 0.32133 |
| 386489.03 | 3772190.11 | 0.35115 | 386499.29 | 3772183.06 | 0.38817 |
| 386507.62 | 3772177.93 | 0.42135 | 386514.67 | 3772171.52 | 0.46119 |
| 386576.85 | 3772219.60 | 1.06445 | 386586.47 | 3772209.34 | 1.33759 |
| 386597.36 | 3772197.80 | 1.75399 | 386606.98 | 3772187.54 | 2.23989 |

*** AERMOD - VERSION 09292 ***
 *** Elysian
 *** Floating Reservoir HRA
 *** 01/25/11
 *** 14:41:47
 *** PAGE 23

**MODELOPTs: RegDEFAULT CONC ELEV
 NODRYDPLT NOWETDPLT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): RESEQUIP, RESIDLE, RESONTRU, 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, . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM.25 IN MICROGRAMS/M**3 **

| X-COORD (M) | Y-COORD (M) | CONC | X-COORD (M) | Y-COORD (M) | CONC |
|-------------|-------------|---------|-------------|-------------|---------|
| 386620.44 | 3772178.57 | 2.91211 | 386742.87 | 3772003.56 | 4.65307 |
| 386386.30 | 3771087.29 | 1.20923 | 386399.28 | 3771081.52 | 1.18543 |
| 386409.38 | 3771067.10 | 1.13676 | 385296.78 | 3773131.99 | 0.01115 |
| 385287.93 | 3773147.05 | 0.01058 | 385283.50 | 3773159.45 | 0.01029 |
| 385576.69 | 3773089.48 | 0.01528 | 385597.95 | 3773060.25 | 0.01590 |
| 385609.46 | 3773037.22 | 0.01646 | 385629.84 | 3772997.36 | 0.01742 |
| 385654.64 | 3772953.07 | 0.01842 | 385706.01 | 3772876.89 | 0.01949 |
| 385752.07 | 3772808.69 | 0.01939 | 385816.74 | 3772724.54 | 0.01974 |
| 385886.71 | 3772645.70 | 0.02174 | 385952.26 | 3772579.27 | 0.02469 |
| 386020.46 | 3772519.04 | 0.02906 | 386093.98 | 3772463.23 | 0.03595 |
| 386169.27 | 3772410.97 | 0.04710 | 386248.11 | 3772359.60 | 0.06716 |
| 386328.71 | 3772309.11 | 0.10459 | 386407.55 | 3772253.30 | 0.17582 |
| 387116.28 | 3772187.40 | 0.51098 | 387141.00 | 3772141.51 | 0.51764 |
| 387201.01 | 3772180.34 | 0.42005 | 387155.12 | 3772229.77 | 0.41229 |
| 386943.29 | 3772540.45 | 0.29142 | 386925.64 | 3772582.82 | 0.30097 |
| 386526.69 | 3770944.68 | 0.51188 | 386466.67 | 3770937.61 | 0.60385 |
| 386537.28 | 3770884.66 | 0.38452 | 386480.80 | 3770881.13 | 0.45525 |
| 387374.01 | 3771597.81 | 0.30618 | 384880.19 | 3771187.72 | 0.03717 |
| 384901.45 | 3771161.15 | 0.03856 | 384909.41 | 3771118.65 | 0.04001 |
| 384912.07 | 3771078.80 | 0.04113 | 384920.04 | 3771052.24 | 0.04206 |

*** AERMOD - VERSION 09292 ***
 *** Elysian
 *** Floating Reservoir HRA
 *** 01/25/11
 *** 14:41:47
 *** PAGE 24

**MODELOPTs: RegDEFAULT CONC ELEV
 NODRYDPLT NOWETDPLT

*** THE SUMMARY OF MAXIMUM ANNUAL RESULTS AVERAGED OVER 2 YEARS ***

** CONC OF PM.25 IN MICROGRAMS/M**3 **

| GROUP ID | AVERAGE CONC | RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG) | OF TYPE | NETWORK GRID-ID |
|----------|----------------------|--|---------|-----------------|
| SRCGP1 | 1ST HIGHEST VALUE IS | 9.07054 AT (386705.70, 3772082.42, 92.99, 182.00, 0.00) | DC | |
| | 2ND HIGHEST VALUE IS | 8.64170 AT (386714.67, 3772074.72, 93.34, 182.00, 0.00) | DC | |
| | 3RD HIGHEST VALUE IS | 8.26396 AT (386723.00, 3772061.90, 93.67, 182.00, 0.00) | DC | |
| | 4TH HIGHEST VALUE IS | 8.05744 AT (386699.29, 3772099.08, 92.73, 182.00, 0.00) | DC | |
| | 5TH HIGHEST VALUE IS | 7.86514 AT (386728.13, 3772051.01, 93.88, 182.00, 0.00) | DC | |
| | 6TH HIGHEST VALUE IS | 7.79292 AT (386690.31, 3772107.42, 92.38, 182.00, 0.00) | DC | |
| | 7TH HIGHEST VALUE IS | 7.48415 AT (386682.62, 3772113.83, 92.07, 182.00, 0.00) | DC | |
| | 8TH HIGHEST VALUE IS | 7.36770 AT (386716.60, 3772090.11, 93.41, 182.00, 0.00) | DC | |
| | 9TH HIGHEST VALUE IS | 7.31180 AT (386731.99, 3772036.90, 94.04, 182.00, 0.00) | DC | |

Floating Reservoir HRA

| | | | | | | | | | |
|-----|-----------------------|---------|------|------------|-------------|--------|---------|-------|----|
| | 10TH HIGHEST VALUE IS | 6.85079 | AT (| 386674.29, | 3772123.44, | 92.32, | 182.00, | 0.00) | DC |
| ALL | 1ST HIGHEST VALUE IS | 9.07054 | AT (| 386705.70, | 3772082.42, | 92.99, | 182.00, | 0.00) | DC |
| | 2ND HIGHEST VALUE IS | 8.64170 | AT (| 386714.67, | 3772074.72, | 93.34, | 182.00, | 0.00) | DC |
| | 3RD HIGHEST VALUE IS | 8.26396 | AT (| 386723.00, | 3772061.90, | 93.67, | 182.00, | 0.00) | DC |
| | 4TH HIGHEST VALUE IS | 8.05744 | AT (| 386699.29, | 3772099.08, | 92.73, | 182.00, | 0.00) | DC |
| | 5TH HIGHEST VALUE IS | 7.86514 | AT (| 386728.13, | 3772051.01, | 93.88, | 182.00, | 0.00) | DC |
| | 6TH HIGHEST VALUE IS | 7.79292 | AT (| 386690.31, | 3772107.42, | 92.38, | 182.00, | 0.00) | DC |
| | 7TH HIGHEST VALUE IS | 7.48415 | AT (| 386682.62, | 3772113.83, | 92.07, | 182.00, | 0.00) | DC |
| | 8TH HIGHEST VALUE IS | 7.36770 | AT (| 386716.60, | 3772090.11, | 93.41, | 182.00, | 0.00) | DC |
| | 9TH HIGHEST VALUE IS | 7.31180 | AT (| 386731.99, | 3772036.90, | 94.04, | 182.00, | 0.00) | DC |
| | 10TH HIGHEST VALUE IS | 6.85079 | AT (| 386674.29, | 3772123.44, | 92.32, | 182.00, | 0.00) | DC |

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

*** AERMOD - VERSION 09292 *** *** Elysian
*** Floating Reservoir HRA

*** 01/25/11
*** 14:41:47
*** PAGE 25

**MODELOPTs: RegDEFAULT CONC ELEV
NODRYDPLT NOWETDPLT

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

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

A Total of 0 Fatal Error Message(s)
A Total of 0 Warning Message(s)
A Total of 113 Informational Message(s)

A Total of 17520 Hours Were Processed

A Total of 0 Calm Hours Identified

A Total of 113 Missing Hours Identified (0.64 Percent)

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

***** WARNING MESSAGES *****
*** NONE ***

*** AERMOD Finishes Successfully ***

BARLOW RESPIRATORY FLOATING COVER HEALTH RISK ASSESSMENT

| | |
|----------------------------|--------------|
| Project Alternative | |
| PROJECT: | Elysian Park |
| PROJECT NO: | 2008-056 |

| | |
|--|-------------------------------|
| Annual Average Receptor Concentration | |
| Pollutant | micrograms/cubic meter |
| Diesel Particular Matter (DPM) | 0.03 |

| | |
|---|---------------------|
| EXCESS CANCER RISK CALCULATION | |
| Lifetime Exposure Adjustment (LEA) | |
| Receptor: | Sensitive Receptors |
| hours per day | 8 |
| days per week | 5 |
| weeks per year | 50 |
| years | 2.58 |
| LEA | 0.008437991 |

| | |
|--------------------------------|--------|
| Unit Risk Factor (URF) for DPM | 0.0003 |
|--------------------------------|--------|

| | |
|--|---------------------|
| FINDINGS | |
| Receptor: | Sensitive Receptors |
| Excess Cancer Risk | |
| Excess Cancer Risk (Per 1 Million Persons) | 0.0759 |
| SCAQMD Threshold | >= 10 in 1 million |
| Exceed Threshold? | No |

Formulas:
Cancer Risk = DPM Conc x DPM URF x LEA

DPM = Diesel Particulate Matter
URF = Unit Risk Factor
LEA = Lifetime Exposure Adjustment

Source: SCAQMD Health Risk Assessment Guidance for Analyzing Cancer Risks from Mobile Source Diesel Idle Emissions for CEQA Air Quality Analysis, August 2003; California Air Resources Board, Consolidated Table of OEHHA/ARB Approved Risk Assessment Health Values, April 25, 2005

BARLOW RESPIRATORY INLET HEALTH RISK ASSESSMENT

| | |
|----------------------------|--------------|
| Project Alternative | |
| PROJECT: | Elysian Park |
| PROJECT NO: | 2008-056 |

| | |
|--|-------------------------------|
| Annual Average Receptor Concentration | |
| Pollutant | micrograms/cubic meter |
| Diesel Particular Matter (DPM) | 0.01 |

| | |
|---|---------------------|
| EXCESS CANCER RISK CALCULATION | |
| Lifetime Exposure Adjustment (LEA) | |
| Receptor: | Sensitive Receptors |
| hours per day | 8 |
| days per week | 5 |
| weeks per year | 50 |
| years | 1.83 |
| LEA | 0.005985086 |

| | |
|--------------------------------|--------|
| Unit Risk Factor (URF) for DPM | 0.0003 |
|--------------------------------|--------|

| | |
|--|---------------------|
| FINDINGS | |
| Receptor: | Sensitive Receptors |
| Excess Cancer Risk | |
| Excess Cancer Risk (Per 1 Million Persons) | 0.0180 |
| SCAQMD Threshold | >= 10 in 1 million |
| Exceed Threshold? | No |

Formulas:
Cancer Risk = DPM Conc x DPM URF x LEA

DPM = Diesel Particulate Matter
URF = Unit Risk Factor
LEA = Lifetime Exposure Adjustment

Source: SCAQMD Health Risk Assessment Guidance for Analyzing Cancer Risks from Mobile Source Diesel Idle Emissions for CEQA Air Quality Analysis, August 2003; California Air Resources Board, Consolidated Table of OEHHA/ARB Approved Risk Assessment Health Values, April 25, 2005

| | |
|--|--------------------|
| Total Excess Cancer Risk | |
| Excess Cancer Risk (Per 1 Million Persons) | 0.0939 |
| SCAQMD Threshold | >= 10 in 1 million |
| Exceed Threshold? | No |
| Diesel Particular Matter (DPM) | 0.04 |

RESIDENTS OFF PARK FLOATING COVER HEALTH RISK ASSESSMENT

| | |
|----------------------------|--------------|
| Project Alternative | |
| PROJECT: | Elysian Park |
| PROJECT NO: | 2008-056 |

| | |
|--|-------------------------------|
| Annual Average Receptor Concentration | |
| Pollutant | micrograms/cubic meter |
| Diesel Particular Matter (DPM) | 1.65 |

| | |
|---|---------------------|
| EXCESS CANCER RISK CALCULATION | |
| Lifetime Exposure Adjustment (LEA) | |
| Receptor: | Sensitive Receptors |
| hours per day | 8 |
| days per week | 5 |
| weeks per year | 50 |
| years | 2.58 |
| LEA | 0.008437991 |

| | |
|--------------------------------|--------|
| Unit Risk Factor (URF) for DPM | 0.0003 |
|--------------------------------|--------|

| | |
|--|---------------------|
| FINDINGS | |
| Receptor: | Sensitive Receptors |
| Excess Cancer Risk | |
| Excess Cancer Risk (Per 1 Million Persons) | 4.1768 |
| SCAQMD Threshold | >= 10 in 1 million |
| Exceed Threshold? | No |

Formulas:
Cancer Risk = DPM Conc x DPM URF x LEA

DPM = Diesel Particulate Matter
URF = Unit Risk Factor
LEA = Lifetime Exposure Adjustment

Source: SCAQMD Health Risk Assessment Guidance for Analyzing Cancer Risks from Mobile Source Diesel Idle Emissions for CEQA Air Quality Analysis, August 2003; California Air Resources Board, Consolidated Table of OEHHA/ARB Approved Risk Assessment Health Values, April 25, 2005

RESIDENTS OFF PARK INLET HEALTH RISK ASSESSMENT

| | |
|----------------------------|--------------|
| Project Alternative | |
| PROJECT: | Elysian Park |
| PROJECT NO: | 2008-056 |

| | |
|--|-------------------------------|
| Annual Average Receptor Concentration | |
| Pollutant | micrograms/cubic meter |
| Diesel Particular Matter (DPM) | 0.06 |

| | |
|---|---------------------|
| EXCESS CANCER RISK CALCULATION | |
| Lifetime Exposure Adjustment (LEA) | |
| Receptor: | Sensitive Receptors |
| hours per day | 8 |
| days per week | 5 |
| weeks per year | 50 |
| years | 1.83 |
| LEA | 0.005985086 |

| | |
|--------------------------------|--------|
| Unit Risk Factor (URF) for DPM | 0.0003 |
|--------------------------------|--------|

| | |
|--|---------------------|
| FINDINGS | |
| Receptor: | Sensitive Receptors |
| Excess Cancer Risk | |
| Excess Cancer Risk (Per 1 Million Persons) | 0.1077 |
| SCAQMD Threshold | >= 10 in 1 million |
| Exceed Threshold? | No |

Formulas:
Cancer Risk = DPM Conc x DPM URF x LEA

DPM = Diesel Particulate Matter
URF = Unit Risk Factor
LEA = Lifetime Exposure Adjustment

Source: SCAQMD Health Risk Assessment Guidance for Analyzing Cancer Risks from Mobile Source Diesel Idle Emissions for CEQA Air Quality Analysis, August 2003; California Air Resources Board, Consolidated Table of OEHHA/ARB Approved Risk Assessment Health Values, April 25, 2005

| | |
|--|--------------------|
| Total Excess Cancer Risk | |
| Excess Cancer Risk (Per 1 Million Persons) | 4.2845 |
| SCAQMD Threshold | >= 10 in 1 million |
| Exceed Threshold? | No |
| Diesel Particular Matter (DPM) | 1.71 |

**RESIDENTS OFF RIVERSIDE FLOATING COVER
HEALTH RISK ASSESSMENT**

| | |
|---------------------|--------------|
| Project Alternative | |
| PROJECT: | Elysian Park |
| PROJECT NO: | 2008-056 |

| | |
|--|------------------------|
| Annual Average Receptor Concentration | |
| Pollutant | micrograms/cubic meter |
| Diesel Particular Matter (DPM) | 0.3 |

| | |
|---|---------------------|
| EXCESS CANCER RISK CALCULATION | |
| Lifetime Exposure Adjustment (LEA) | |
| Receptor: | Sensitive Receptors |
| hours per day | 8 |
| days per week | 5 |
| weeks per year | 50 |
| years | 2.58 |
| LEA | 0.008437991 |

| | |
|--------------------------------|--------|
| Unit Risk Factor (URF) for DPM | 0.0003 |
|--------------------------------|--------|

| | |
|--|---------------------|
| FINDINGS | |
| Receptor: | Sensitive Receptors |
| Excess Cancer Risk | |
| Excess Cancer Risk (Per 1 Million Persons) | 0.7594 |
| SCAQMD Threshold | >= 10 in 1 million |
| Exceed Threshold? | No |

Formulas:
Cancer Risk = DPM Conc x DPM URF x LEA

DPM = Diesel Particulate Matter
URF = Unit Risk Factor
LEA = Lifetime Exposure Adjustment

Source: SCAQMD Health Risk Assessment Guidance for Analyzing Cancer Risks from Mobile Source Diesel Idle Emissions for CEQA Air Quality Analysis, August 2003; California Air Resources Board, Consolidated Table of OEHHA/ARB Approved Risk Assessment Health Values, April 25, 2005

**RESIDENTS OFF RIVERSIDE INLET HEALTH RISK
ASSESSMENT**

| | |
|---------------------|--------------|
| Project Alternative | |
| PROJECT: | Elysian Park |
| PROJECT NO: | 2008-056 |

| | |
|--|------------------------|
| Annual Average Receptor Concentration | |
| Pollutant | micrograms/cubic meter |
| Diesel Particular Matter (DPM) | 8.77 |

| | |
|---|---------------------|
| EXCESS CANCER RISK CALCULATION | |
| Lifetime Exposure Adjustment (LEA) | |
| Receptor: | Sensitive Receptors |
| hours per day | 8 |
| days per week | 5 |
| weeks per year | 50 |
| years | 1.83 |
| LEA | 0.005985086 |

| | |
|--------------------------------|--------|
| Unit Risk Factor (URF) for DPM | 0.0003 |
|--------------------------------|--------|

| | |
|--|---------------------|
| FINDINGS | |
| Receptor: | Sensitive Receptors |
| Excess Cancer Risk | |
| Excess Cancer Risk (Per 1 Million Persons) | 15.7468 |
| SCAQMD Threshold | >= 10 in 1 million |
| Exceed Threshold? | Yes |

Formulas:
Cancer Risk = DPM Conc x DPM URF x LEA

DPM = Diesel Particulate Matter
URF = Unit Risk Factor
LEA = Lifetime Exposure Adjustment

Source: SCAQMD Health Risk Assessment Guidance for Analyzing Cancer Risks from Mobile Source Diesel Idle Emissions for CEQA Air Quality Analysis, August 2003; California Air Resources Board, Consolidated Table of OEHHA/ARB Approved Risk Assessment Health Values, April 25, 2005

| | |
|--|--------------------|
| Total Excess Cancer Risk | |
| Excess Cancer Risk (Per 1 Million Persons) | 16.5062 |
| SCAQMD Threshold | >= 10 in 1 million |
| Exceed Threshold? | Yes |
| Diesel Particular Matter (DPM) | 9.07 |

**SOLANO AVE ELEMENTARY SCHOOL
FLOATING COVER HEALTH RISK
ASSESSMENT**

| | |
|----------------------------|--------------|
| Project Alternative | |
| PROJECT: | Elysian Park |
| PROJECT NO: | 2008-056 |

| | |
|--|-------------------------------|
| Annual Average Receptor Concentration | |
| Pollutant | micrograms/cubic meter |
| Diesel Particular Matter (DPM) | 1.18 |

| | |
|---|---------------------|
| EXCESS CANCER RISK CALCULATION | |
| Lifetime Exposure Adjustment (LEA) | |
| Receptor: | Sensitive Receptors |
| hours per day | 8 |
| days per week | 5 |
| weeks per year | 50 |
| years | 2.58 |
| LEA | 0.008437991 |

| | |
|--------------------------------|--------|
| Unit Risk Factor (URF) for DPM | 0.0003 |
|--------------------------------|--------|

| | |
|--|---------------------|
| FINDINGS | |
| Receptor: | Sensitive Receptors |
| Excess Cancer Risk | |
| Excess Cancer Risk (Per 1 Million Persons) | 2.9870 |
| SCAQMD Threshold | >= 10 in 1 million |
| Exceed Threshold? | No |

Formulas:
Cancer Risk = DPM Conc x DPM URF x LEA

DPM = Diesel Particulate Matter
URF = Unit Risk Factor
LEA = Lifetime Exposure Adjustment

Source: SCAQMD Health Risk Assessment Guidance for Analyzing Cancer Risks from Mobile Source Diesel Idle Emissions for CEQA Air Quality Analysis, August 2003; California Air Resources Board, Consolidated Table of OEHHA/ARB Approved Risk Assessment Health Values, April 25, 2005

**SOLANO AVE ELEMENTARY SCHOOL INLET HEALTH
RISK ASSESSMENT**

| | |
|----------------------------|--------------|
| Project Alternative | |
| PROJECT: | Elysian Park |
| PROJECT NO: | 2008-056 |

| | |
|--|-------------------------------|
| Annual Average Receptor Concentration | |
| Pollutant | micrograms/cubic meter |
| Diesel Particular Matter (DPM) | 0.06 |

| | |
|---|---------------------|
| EXCESS CANCER RISK CALCULATION | |
| Lifetime Exposure Adjustment (LEA) | |
| Receptor: | Sensitive Receptors |
| hours per day | 8 |
| days per week | 5 |
| weeks per year | 50 |
| years | 1.83 |
| LEA | 0.005985086 |

| | |
|--------------------------------|--------|
| Unit Risk Factor (URF) for DPM | 0.0003 |
|--------------------------------|--------|

| | |
|--|---------------------|
| FINDINGS | |
| Receptor: | Sensitive Receptors |
| Excess Cancer Risk | |
| Excess Cancer Risk (Per 1 Million Persons) | 0.1077 |
| SCAQMD Threshold | >= 10 in 1 million |
| Exceed Threshold? | No |

Formulas:
Cancer Risk = DPM Conc x DPM URF x LEA

DPM = Diesel Particulate Matter
URF = Unit Risk Factor
LEA = Lifetime Exposure Adjustment

Source: SCAQMD Health Risk Assessment Guidance for Analyzing Cancer Risks from Mobile Source Diesel Idle Emissions for CEQA Air Quality Analysis, August 2003; California Air Resources Board, Consolidated Table of OEHHA/ARB Approved Risk Assessment Health Values, April 25, 2005

| | |
|--|--------------------|
| Total Excess Cancer Risk | |
| Excess Cancer Risk (Per 1 Million Persons) | 3.0948 |
| SCAQMD Threshold | >= 10 in 1 million |
| Exceed Threshold? | No |
| Diesel Particular Matter (DPM) | 1.24 |

Aluminum Reservoir HRA

```
**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 6.7.1
** Lakes Environmental Software Inc.
** Date: 1/25/2011
** File: C:\Documents and Settings\jbailey\Desktop\HRA 1_25\Diesel HRA Internal\A_RS_HRA.ADI
**
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**
CO STARTING
TITLEONE Elysian
TITLETWO Aluminum Reservoir HRA
MODELOPT DFAULT CONC NODRYDPLT NOWETDPLT
AVERTIME ANNUAL
URBANOPT 9862049 LA
POLLUTID PM.25
RUNORNOT RUN
CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
LOCATION CALEQP AREAPOLY 386596.536 3772117.718 96.500
** DESCRSRC Caltrans Equipment
LOCATION CALIDLE AREAPOLY 386596.536 3772117.718 96.500
** DESCRSRC Caltrans Idle
** Line Source represented by Separated Volume Sources
**
-----
** LINE Source ID = CALHAUL
** DESCRSRC Caltrans Haul Trucks
** Length of Side = 15.00
** Emission Rate = 0.00002
** Vertical Dimension = 1.16
** SZINIT = 0.54
** Nodes = 2
** 386679.66, 3772075.63, 92.09, 0.00, 0.0
** 386421.41, 3772187.54, 105.89, 0.00, 13.77
**
-----
LOCATION L0002021 VOLUME 386672.778 3772078.612 92.46
LOCATION L0002022 VOLUME 386645.613 3772090.384 94.03
LOCATION L0002023 VOLUME 386618.448 3772102.156 95.41
LOCATION L0002024 VOLUME 386591.283 3772113.927 97.03
LOCATION L0002025 VOLUME 386564.118 3772125.699 98.89
LOCATION L0002026 VOLUME 386536.952 3772137.471 100.48
LOCATION L0002027 VOLUME 386509.787 3772149.243 101.78
LOCATION L0002028 VOLUME 386482.622 3772161.014 102.89
LOCATION L0002029 VOLUME 386455.457 3772172.786 104.17
LOCATION L0002030 VOLUME 386428.292 3772184.558 105.59
** End of Line Source
LOCATION RESQULP AREAPOLY 386606.494 3771295.572 139.670
** DESCRSRC Reservoir Equipment
LOCATION RESIDLE AREAPOLY 386606.494 3771295.572 139.670
** DESCRSRC Reservoir Idle
LOCATION RESONTRU AREAPOLY 386606.494 3771295.572 139.670
** DESCRSRC Reservoir On-site Truck
** Line Source represented by Separated Volume Sources
**
-----
** LINE Source ID = RESOFFHL
** DESCRSRC Reservoir Haul Trucks
** Length of Side = 10.00
** Emission Rate = 0.00075
** Vertical Dimension = 1.16
** SZINIT = 0.54
** Nodes = 2
** 386729.85, 3771529.57, 121.41, 1.52, 0.0
** 385682.70, 3772787.09, 111.56, 1.52, 9.30
**
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LOCATION L0002037 VOLUME 386726.650 3771533.412 121.45
LOCATION L0002038 VOLUME 386713.958 3771548.654 121.79
LOCATION L0002039 VOLUME 386701.266 3771563.896 122.35
LOCATION L0002040 VOLUME 386688.574 3771579.138 123.12
LOCATION L0002041 VOLUME 386675.882 3771594.380 124.12
LOCATION L0002042 VOLUME 386663.190 3771609.622 125.33
LOCATION L0002043 VOLUME 386650.498 3771624.864 125.76
LOCATION L0002044 VOLUME 386637.806 3771640.106 126.79
LOCATION L0002045 VOLUME 386625.114 3771655.347 128.42
LOCATION L0002046 VOLUME 386612.422 3771670.589 130.65
LOCATION L0002047 VOLUME 386599.730 3771685.831 133.48
LOCATION L0002048 VOLUME 386587.038 3771701.073 135.07
LOCATION L0002049 VOLUME 386574.345 3771716.315 135.27
LOCATION L0002050 VOLUME 386561.653 3771731.557 135.15
LOCATION L0002051 VOLUME 386548.961 3771746.799 134.70
LOCATION L0002052 VOLUME 386536.269 3771762.041 133.92
LOCATION L0002053 VOLUME 386523.577 3771777.283 132.82
LOCATION L0002054 VOLUME 386510.885 3771792.525 133.39
LOCATION L0002055 VOLUME 386498.193 3771807.766 135.14
LOCATION L0002056 VOLUME 386485.501 3771823.008 136.29
LOCATION L0002057 VOLUME 386472.809 3771838.250 136.84
LOCATION L0002058 VOLUME 386460.117 3771853.492 136.79
LOCATION L0002059 VOLUME 386447.425 3771868.734 136.14
LOCATION L0002060 VOLUME 386434.733 3771883.976 135.73
LOCATION L0002061 VOLUME 386422.040 3771899.218 136.45
LOCATION L0002062 VOLUME 386409.348 3771914.460 137.01
LOCATION L0002063 VOLUME 386396.656 3771929.702 137.41
LOCATION L0002064 VOLUME 386383.964 3771944.943 137.64
LOCATION L0002065 VOLUME 386371.272 3771960.185 137.71
LOCATION L0002066 VOLUME 386358.580 3771975.427 139.28
LOCATION L0002067 VOLUME 386345.888 3771990.669 140.17
LOCATION L0002068 VOLUME 386333.196 3772005.911 140.56
LOCATION L0002069 VOLUME 386320.504 3772021.153 140.51
LOCATION L0002070 VOLUME 386307.812 3772036.395 140.03
```

Aluminum Reservoir HRA

LOCATION L0002071 VOLUME 386295.120 3772051.637 139.13
LOCATION L0002072 VOLUME 386282.428 3772066.879 138.90
LOCATION L0002073 VOLUME 386269.735 3772082.121 139.03
LOCATION L0002074 VOLUME 386257.043 3772097.362 138.25
LOCATION L0002075 VOLUME 386244.351 3772112.604 136.33
LOCATION L0002076 VOLUME 386231.659 3772127.846 133.25
LOCATION L0002077 VOLUME 386218.967 3772143.088 129.15
LOCATION L0002078 VOLUME 386206.275 3772158.330 126.58
LOCATION L0002079 VOLUME 386193.583 3772173.572 126.75
LOCATION L0002080 VOLUME 386180.891 3772188.814 127.56
LOCATION L0002081 VOLUME 386168.199 3772204.056 127.44
LOCATION L0002082 VOLUME 386155.507 3772219.298 126.40
LOCATION L0002083 VOLUME 386142.815 3772234.539 124.51
LOCATION L0002084 VOLUME 386130.122 3772249.781 122.87
LOCATION L0002085 VOLUME 386117.430 3772265.023 122.18
LOCATION L0002086 VOLUME 386104.738 3772280.265 122.42
LOCATION L0002087 VOLUME 386092.046 3772295.507 122.22
LOCATION L0002088 VOLUME 386079.354 3772310.749 121.58
LOCATION L0002089 VOLUME 386066.662 3772325.991 120.61
LOCATION L0002090 VOLUME 386053.970 3772341.233 119.49
LOCATION L0002091 VOLUME 386041.278 3772356.475 118.14
LOCATION L0002092 VOLUME 386028.586 3772371.717 118.06
LOCATION L0002093 VOLUME 386015.894 3772386.958 117.92
LOCATION L0002094 VOLUME 386003.202 3772402.200 117.78
LOCATION L0002095 VOLUME 385990.510 3772417.442 117.68
LOCATION L0002096 VOLUME 385977.817 3772432.684 117.93
LOCATION L0002097 VOLUME 385965.125 3772447.926 117.24
LOCATION L0002098 VOLUME 385952.433 3772463.168 117.17
LOCATION L0002099 VOLUME 385939.741 3772478.410 117.04
LOCATION L0002100 VOLUME 385927.049 3772493.652 116.85
LOCATION L0002101 VOLUME 385914.357 3772508.894 116.70
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LOCATION L0002103 VOLUME 385888.973 3772539.377 115.97
LOCATION L0002104 VOLUME 385876.281 3772554.619 115.66
LOCATION L0002105 VOLUME 385863.589 3772569.861 115.35
LOCATION L0002106 VOLUME 385850.897 3772585.103 115.03
LOCATION L0002107 VOLUME 385838.205 3772600.345 114.72
LOCATION L0002108 VOLUME 385825.512 3772615.587 114.40
LOCATION L0002109 VOLUME 385812.820 3772630.829 114.09
LOCATION L0002110 VOLUME 385800.128 3772646.071 113.78
LOCATION L0002111 VOLUME 385787.436 3772661.313 113.46
LOCATION L0002112 VOLUME 385774.744 3772676.554 113.15
LOCATION L0002113 VOLUME 385762.052 3772691.796 112.85
LOCATION L0002114 VOLUME 385749.360 3772707.038 112.56
LOCATION L0002115 VOLUME 385736.668 3772722.280 112.21
LOCATION L0002116 VOLUME 385723.976 3772737.522 112.05
LOCATION L0002117 VOLUME 385711.284 3772752.764 112.02
LOCATION L0002118 VOLUME 385698.592 3772768.006 112.09
LOCATION L0002119 VOLUME 385685.900 3772783.248 112.32

** End of Line Source
** Source Parameters **
SRCPARAM CALEQP 8.436E-06 5.000 14
AREAVERT CALEQP 386596.536 3772117.718 386580.846 3772089.725
AREAVERT CALEQP 386632.070 3772053.383 386637.838 3772051.173
AREAVERT CALEQP 386652.144 3772050.928 386668.065 3772039.387
AREAVERT CALEQP 386682.371 3772010.903 386693.678 3771992.977
AREAVERT CALEQP 386695.985 3771989.049 386717.213 3771999.362
AREAVERT CALEQP 386696.677 3772048.472 386683.525 3772065.170
AREAVERT CALEQP 386672.219 3772075.974 386651.914 3772089.234
SRCPARAM CALIDLE 5.5378E-09 5.000 14 0.000
AREAVERT CALIDLE 386596.536 3772117.718 386580.846 3772089.725
AREAVERT CALIDLE 386632.070 3772053.383 386637.838 3772051.173
AREAVERT CALIDLE 386652.144 3772050.928 386668.065 3772039.387
AREAVERT CALIDLE 386682.371 3772010.903 386693.678 3771992.977
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SRCPARAM L0002023 2.0E-06 0.00 13.77 0.54
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SRCPARAM L0002027 2.0E-06 0.00 13.77 0.54
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SRCPARAM L0002029 2.0E-06 0.00 13.77 0.54
SRCPARAM L0002030 2.0E-06 0.00 13.77 0.54
SRCPARAM RESEQUIP 2.535E-06 5.000 18
AREAVERT RESEQUIP 386606.494 3771295.572 386560.430 3771386.706
AREAVERT RESEQUIP 386502.641 3771467.538 386454.064 3771523.011
AREAVERT RESEQUIP 386432.288 3771547.577 386455.739 3771575.313
AREAVERT RESEQUIP 386485.890 3771583.238 386543.680 3771557.879
AREAVERT RESEQUIP 386593.931 3771507.954 386619.057 3771483.387
AREAVERT RESEQUIP 386650.046 3771442.179 386660.096 3771427.914
AREAVERT RESEQUIP 386676.847 3771408.103 386688.572 3771388.291
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AREAVERT RESIDLE 386502.641 3771467.538 386454.064 3771523.011
AREAVERT RESIDLE 386432.288 3771547.577 386455.739 3771575.313
AREAVERT RESIDLE 386485.890 3771583.238 386543.680 3771557.879
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AREAVERT RESIDLE 386650.046 3771442.179 386660.096 3771427.914
AREAVERT RESIDLE 386676.847 3771408.103 386688.572 3771388.291
AREAVERT RESIDLE 386676.847 3771361.347 386655.909 3771323.308
AREAVERT RESIDLE 386640.833 3771309.044 386614.032 3771295.572
SRCPARAM RESONTRU 2.2988E-09 5.000 18 0.000
AREAVERT RESONTRU 386606.494 3771295.572 386560.430 3771386.706
AREAVERT RESONTRU 386502.641 3771467.538 386454.064 3771523.011
AREAVERT RESONTRU 386432.288 3771547.577 386455.739 3771575.313
AREAVERT RESONTRU 386485.890 3771583.238 386543.680 3771557.879
AREAVERT RESONTRU 386593.931 3771507.954 386619.057 3771483.387
AREAVERT RESONTRU 386650.046 3771442.179 386660.096 3771427.914
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AREAVERT RESONTRU 386676.847 3771361.347 386655.909 3771323.308
AREAVERT RESONTRU 386640.833 3771309.044 386614.032 3771295.572
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SRCPARAM L0002038 9.0361E-06 1.52 9.30 0.54
SRCPARAM L0002039 9.0361E-06 1.52 9.30 0.54
SRCPARAM L0002040 9.0361E-06 1.52 9.30 0.54
SRCPARAM L0002041 9.0361E-06 1.52 9.30 0.54
SRCPARAM L0002042 9.0361E-06 1.52 9.30 0.54
SRCPARAM L0002043 9.0361E-06 1.52 9.30 0.54

Aluminum Reservoir HRA

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SRCGROUP SRCGP1 CALEQP CALIDLE L0002021 L0002022 L0002023 L0002024 L0002025
SRCGROUP SRCGP1 L0002026 L0002027 L0002028 L0002029 L0002030 RESQUIP
SRCGROUP SRCGP1 RESIDLE RESONTRU L0002037 L0002038 L0002039 L0002040
SRCGROUP SRCGP1 L0002041 L0002042 L0002043 L0002044 L0002045 L0002046
SRCGROUP SRCGP1 L0002047 L0002048 L0002049 L0002050 L0002051 L0002052
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SRCGROUP SRCGP1 L0002059 L0002060 L0002061 L0002062 L0002063 L0002064
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SRCGROUP SRCGP1 L0002071 L0002072 L0002073 L0002074 L0002075 L0002076
SRCGROUP SRCGP1 L0002077 L0002078 L0002079 L0002080 L0002081 L0002082
SRCGROUP SRCGP1 L0002083 L0002084 L0002085 L0002086 L0002087 L0002088
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SRCGROUP SRCGP1 L0002119
SRCGROUP ALL
SO FINISHED
**
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** AERMOD Receptor Pathway
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RE FINISHED
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  UARDATA 3190 2006
  PROFBASE 10 METERS
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**
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OU STARTING
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  PLOTFILE ANNUAL SRCGP1 A_RS_HRA.AD\AN00G001.PLT
OU FINISHED
*****
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Aluminum Reservoir HRA

NODRYDPLT NOWETDPLT

*** VOLUME SOURCE DATA ***

| SOURCE ID | NUMBER PART. CATS. | EMISSION RATE (GRAMS/SEC) | X (METERS) | Y (METERS) | BASE ELEV. (METERS) | RELEASE HEIGHT (METERS) | INIT. SY (METERS) | INIT. SZ (METERS) | URBAN SOURCE | EMISSION RATE SCALAR VARY BY |
|-----------|--------------------|---------------------------|------------|------------|---------------------|-------------------------|-------------------|-------------------|--------------|------------------------------|
| L0002067 | 0 | 0.90361E-05 | 386345.9 | 3771990.7 | 140.2 | 1.52 | 9.30 | 0.54 | YES | |
| L0002068 | 0 | 0.90361E-05 | 386333.2 | 3772005.9 | 140.6 | 1.52 | 9.30 | 0.54 | YES | |
| L0002069 | 0 | 0.90361E-05 | 386320.5 | 3772021.2 | 140.5 | 1.52 | 9.30 | 0.54 | YES | |
| L0002070 | 0 | 0.90361E-05 | 386307.8 | 3772036.4 | 140.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0002071 | 0 | 0.90361E-05 | 386295.1 | 3772051.6 | 139.1 | 1.52 | 9.30 | 0.54 | YES | |
| L0002072 | 0 | 0.90361E-05 | 386282.4 | 3772066.9 | 138.9 | 1.52 | 9.30 | 0.54 | YES | |
| L0002073 | 0 | 0.90361E-05 | 386269.7 | 3772082.1 | 139.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0002074 | 0 | 0.90361E-05 | 386257.0 | 3772097.4 | 138.2 | 1.52 | 9.30 | 0.54 | YES | |
| L0002075 | 0 | 0.90361E-05 | 386244.4 | 3772112.6 | 136.3 | 1.52 | 9.30 | 0.54 | YES | |
| L0002076 | 0 | 0.90361E-05 | 386231.7 | 3772127.8 | 133.2 | 1.52 | 9.30 | 0.54 | YES | |
| L0002077 | 0 | 0.90361E-05 | 386219.0 | 3772143.1 | 129.2 | 1.52 | 9.30 | 0.54 | YES | |
| L0002078 | 0 | 0.90361E-05 | 386206.3 | 3772158.3 | 126.6 | 1.52 | 9.30 | 0.54 | YES | |
| L0002079 | 0 | 0.90361E-05 | 386193.6 | 3772173.6 | 126.8 | 1.52 | 9.30 | 0.54 | YES | |
| L0002080 | 0 | 0.90361E-05 | 386180.9 | 3772188.8 | 127.6 | 1.52 | 9.30 | 0.54 | YES | |
| L0002081 | 0 | 0.90361E-05 | 386168.2 | 3772204.1 | 127.4 | 1.52 | 9.30 | 0.54 | YES | |
| L0002082 | 0 | 0.90361E-05 | 386155.5 | 3772219.3 | 126.4 | 1.52 | 9.30 | 0.54 | YES | |
| L0002083 | 0 | 0.90361E-05 | 386142.8 | 3772234.5 | 124.5 | 1.52 | 9.30 | 0.54 | YES | |
| L0002084 | 0 | 0.90361E-05 | 386130.1 | 3772249.8 | 122.9 | 1.52 | 9.30 | 0.54 | YES | |
| L0002085 | 0 | 0.90361E-05 | 386117.4 | 3772265.0 | 122.2 | 1.52 | 9.30 | 0.54 | YES | |
| L0002086 | 0 | 0.90361E-05 | 386104.7 | 3772280.3 | 122.4 | 1.52 | 9.30 | 0.54 | YES | |
| L0002087 | 0 | 0.90361E-05 | 386092.0 | 3772295.5 | 122.2 | 1.52 | 9.30 | 0.54 | YES | |
| L0002088 | 0 | 0.90361E-05 | 386079.4 | 3772310.7 | 121.6 | 1.52 | 9.30 | 0.54 | YES | |
| L0002089 | 0 | 0.90361E-05 | 386066.7 | 3772326.0 | 120.6 | 1.52 | 9.30 | 0.54 | YES | |
| L0002090 | 0 | 0.90361E-05 | 386054.0 | 3772341.2 | 119.5 | 1.52 | 9.30 | 0.54 | YES | |
| L0002091 | 0 | 0.90361E-05 | 386041.3 | 3772356.5 | 118.1 | 1.52 | 9.30 | 0.54 | YES | |
| L0002092 | 0 | 0.90361E-05 | 386028.6 | 3772371.7 | 118.1 | 1.52 | 9.30 | 0.54 | YES | |
| L0002093 | 0 | 0.90361E-05 | 386015.9 | 3772387.0 | 117.9 | 1.52 | 9.30 | 0.54 | YES | |
| L0002094 | 0 | 0.90361E-05 | 386003.2 | 3772402.2 | 117.7 | 1.52 | 9.30 | 0.54 | YES | |
| L0002095 | 0 | 0.90361E-05 | 385990.5 | 3772417.4 | 117.7 | 1.52 | 9.30 | 0.54 | YES | |
| L0002096 | 0 | 0.90361E-05 | 385977.8 | 3772432.7 | 117.9 | 1.52 | 9.30 | 0.54 | YES | |
| L0002097 | 0 | 0.90361E-05 | 385965.1 | 3772447.9 | 117.2 | 1.52 | 9.30 | 0.54 | YES | |
| L0002098 | 0 | 0.90361E-05 | 385952.4 | 3772463.2 | 117.2 | 1.52 | 9.30 | 0.54 | YES | |
| L0002099 | 0 | 0.90361E-05 | 385939.7 | 3772478.4 | 117.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0002100 | 0 | 0.90361E-05 | 385927.0 | 3772493.7 | 116.8 | 1.52 | 9.30 | 0.54 | YES | |
| L0002101 | 0 | 0.90361E-05 | 385914.4 | 3772508.9 | 116.7 | 1.52 | 9.30 | 0.54 | YES | |
| L0002102 | 0 | 0.90361E-05 | 385901.7 | 3772524.1 | 116.6 | 1.52 | 9.30 | 0.54 | YES | |
| L0002103 | 0 | 0.90361E-05 | 385889.0 | 3772539.4 | 116.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0002104 | 0 | 0.90361E-05 | 385876.3 | 3772554.6 | 115.7 | 1.52 | 9.30 | 0.54 | YES | |
| L0002105 | 0 | 0.90361E-05 | 385863.6 | 3772569.9 | 115.3 | 1.52 | 9.30 | 0.54 | YES | |
| L0002106 | 0 | 0.90361E-05 | 385850.9 | 3772585.1 | 115.0 | 1.52 | 9.30 | 0.54 | YES | |

*** AERMOD - VERSION 09292 ***
 *** Elysian
 *** Aluminum Reservoir HRA

 01/25/11
 11:42:40
 PAGE 4

**MODELOPTs: RegDEFAULT CONC
 ELEV
 NODRYDPLT NOWETDPLT

*** VOLUME SOURCE DATA ***

| SOURCE ID | NUMBER PART. CATS. | EMISSION RATE (GRAMS/SEC) | X (METERS) | Y (METERS) | BASE ELEV. (METERS) | RELEASE HEIGHT (METERS) | INIT. SY (METERS) | INIT. SZ (METERS) | URBAN SOURCE | EMISSION RATE SCALAR VARY BY |
|-----------|--------------------|---------------------------|------------|------------|---------------------|-------------------------|-------------------|-------------------|--------------|------------------------------|
| L0002107 | 0 | 0.90361E-05 | 385838.2 | 3772600.3 | 114.7 | 1.52 | 9.30 | 0.54 | YES | |
| L0002108 | 0 | 0.90361E-05 | 385825.5 | 3772615.6 | 114.4 | 1.52 | 9.30 | 0.54 | YES | |
| L0002109 | 0 | 0.90361E-05 | 385812.8 | 3772630.8 | 114.1 | 1.52 | 9.30 | 0.54 | YES | |
| L0002110 | 0 | 0.90361E-05 | 385800.1 | 3772646.1 | 113.8 | 1.52 | 9.30 | 0.54 | YES | |
| L0002111 | 0 | 0.90361E-05 | 385787.4 | 3772661.3 | 113.5 | 1.52 | 9.30 | 0.54 | YES | |
| L0002112 | 0 | 0.90361E-05 | 385774.7 | 3772676.6 | 113.1 | 1.52 | 9.30 | 0.54 | YES | |
| L0002113 | 0 | 0.90361E-05 | 385762.1 | 3772691.8 | 112.8 | 1.52 | 9.30 | 0.54 | YES | |
| L0002114 | 0 | 0.90361E-05 | 385749.4 | 3772707.0 | 112.6 | 1.52 | 9.30 | 0.54 | YES | |
| L0002115 | 0 | 0.90361E-05 | 385736.7 | 3772722.3 | 112.2 | 1.52 | 9.30 | 0.54 | YES | |
| L0002116 | 0 | 0.90361E-05 | 385724.0 | 3772737.5 | 112.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0002117 | 0 | 0.90361E-05 | 385711.3 | 3772752.8 | 112.0 | 1.52 | 9.30 | 0.54 | YES | |
| L0002118 | 0 | 0.90361E-05 | 385698.6 | 3772768.0 | 112.1 | 1.52 | 9.30 | 0.54 | YES | |
| L0002119 | 0 | 0.90361E-05 | 385685.9 | 3772783.2 | 112.3 | 1.52 | 9.30 | 0.54 | YES | |

*** AERMOD - VERSION 09292 ***
 *** Elysian
 *** Aluminum Reservoir HRA

 01/25/11
 11:42:40
 PAGE 5

**MODELOPTs: RegDEFAULT CONC
 ELEV
 NODRYDPLT NOWETDPLT

*** AREAPOLY SOURCE DATA ***

| SOURCE ID | NUMBER PART. CATS. | EMISSION RATE (GRAMS/SEC) | LOCATION OF AREA X (METERS) | LOCATION OF AREA Y (METERS) | BASE ELEV. (METERS) | RELEASE HEIGHT (METERS) | NUMBER OF VERTS. | INIT. SZ (METERS) | URBAN SOURCE | EMISSION RATE SCALAR VARY BY |
|-----------|--------------------|---------------------------|-----------------------------|-----------------------------|---------------------|-------------------------|------------------|-------------------|--------------|------------------------------|
| CALEQP | 0 | 0.84360E-05 | 386596.5 | 3772117.7 | 96.5 | 5.00 | 14 | 0.00 | YES | |
| CALIDLE | 0 | 0.55378E-08 | 386596.5 | 3772117.7 | 96.5 | 5.00 | 14 | 0.00 | YES | |
| RESEQUIP | 0 | 0.25350E-05 | 386606.5 | 3771295.6 | 139.7 | 5.00 | 18 | 0.00 | YES | |
| RESIDLE | 0 | 0.22988E-08 | 386606.5 | 3771295.6 | 139.7 | 5.00 | 18 | 0.00 | YES | |
| RESONTRU | 0 | 0.22988E-08 | 386606.5 | 3771295.6 | 139.7 | 5.00 | 18 | 0.00 | YES | |

*** AERMOD - VERSION 09292 ***
 *** Elysian
 *** Aluminum Reservoir HRA

 01/25/11
 11:42:40
 PAGE 6

**MODELOPTs: RegDEFAULT CONC
 ELEV
 NODRYDPLT NOWETDPLT

*** SOURCE IDs DEFINING SOURCE GROUPS ***

| GROUP ID | SOURCE IDs |
|----------|--|
| SRCPG1 | CALEQP , CALIDLE , L0002021, L0002022, L0002023, L0002024, L0002025, L0002026, L0002027, L0002028, L0002029, L0002030, RESEQUIP, RESIDLE , RESONTRU, L0002037, L0002038, L0002039, L0002040, L0002041, L0002042, L0002043, L0002044, L0002045, L0002046, L0002047, L0002048, L0002049, L0002050, L0002051, L0002052, L0002053, L0002054, L0002055, L0002056, L0002057, |

Aluminum Reservoir HRA

L0002058, L0002059, L0002060, L0002061, L0002062, L0002063, L0002064, L0002065, L0002066, L0002067, L0002068, L0002069,
 L0002070, L0002071, L0002072, L0002073, L0002074, L0002075, L0002076, L0002077, L0002078, L0002079, L0002080, L0002081,
 L0002082, L0002083, L0002084, L0002085, L0002086, L0002087, L0002088, L0002089, L0002090, L0002091, L0002092, L0002093,
 L0002094, L0002095, L0002096, L0002097, L0002098, L0002099, L0002100, L0002101, L0002102, L0002103, L0002104, L0002105,
 L0002106, L0002107, L0002108, L0002109, L0002110, L0002111, L0002112, L0002113, L0002114, L0002115, L0002116, L0002117,
 L0002118, L0002119,
 ALL CALEQP , CALIDLE , L0002021, L0002022, L0002023, L0002024, L0002025, L0002026, L0002027, L0002028, L0002029, L0002030,
 RESEQUIP, RESIDLE , RESONTRU, L0002037, L0002038, L0002039, L0002040, L0002041, L0002042, L0002043, L0002044, L0002045,
 L0002046, L0002047, L0002048, L0002049, L0002050, L0002051, L0002052, L0002053, L0002054, L0002055, L0002056, L0002057,
 L0002058, L0002059, L0002060, L0002061, L0002062, L0002063, L0002064, L0002065, L0002066, L0002067, L0002068, L0002069,
 L0002070, L0002071, L0002072, L0002073, L0002074, L0002075, L0002076, L0002077, L0002078, L0002079, L0002080, L0002081,
 L0002082, L0002083, L0002084, L0002085, L0002086, L0002087, L0002088, L0002089, L0002090, L0002091, L0002092, L0002093,
 L0002094, L0002095, L0002096, L0002097, L0002098, L0002099, L0002100, L0002101, L0002102, L0002103, L0002104, L0002105,
 L0002106, L0002107, L0002108, L0002109, L0002110, L0002111, L0002112, L0002113, L0002114, L0002115, L0002116, L0002117,
 L0002118, L0002119,
 *** AERMOD - VERSION 09292 *** ** Elysian *** 01/25/11
 *** Aluminum Reservoir HRA *** 11:42:40
 PAGE 7

**MODELOPTs: RegDEFAULT CONC ELEV
 NODRYDPLT NOWETDPLT
 *** DISCRETE CARTESIAN RECEPTORS ***
 (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
 (METERS)
 (386476.8, 3771139.5, 143.3, 181.0, 0.0); (386470.4, 3771149.7, 144.2, 181.0, 0.0);
 (386460.2, 3771160.0, 145.3, 181.0, 0.0); (386449.3, 3771172.8, 146.6, 181.0, 0.0);
 (386440.3, 3771184.3, 147.6, 181.0, 0.0); (386434.5, 3771197.8, 148.6, 181.0, 0.0);
 (386405.0, 3771244.6, 152.9, 181.0, 0.0); (386409.5, 3771235.6, 151.9, 181.0, 0.0);
 (386416.6, 3771223.4, 150.9, 181.0, 0.0); (386421.1, 3771217.0, 150.3, 181.0, 0.0);
 (386426.2, 3771210.0, 149.6, 181.0, 0.0); (386274.3, 3771299.7, 168.1, 181.0, 0.0);
 (386278.8, 3771290.1, 167.4, 181.0, 0.0); (386287.8, 3771280.5, 166.6, 181.0, 0.0);
 (386296.1, 3771269.6, 164.9, 181.0, 0.0); (386303.1, 3771259.3, 163.5, 181.0, 0.0);
 (386340.3, 3771210.6, 155.9, 181.0, 0.0); (386331.3, 3771222.1, 157.6, 181.0, 0.0);
 (386323.0, 3771233.7, 159.3, 181.0, 0.0); (386312.8, 3771248.4, 161.6, 181.0, 0.0);
 (386415.3, 3771092.0, 143.8, 181.0, 0.0); (386380.0, 3771051.0, 142.9, 164.0, 0.0);
 (386392.2, 3771050.4, 142.2, 181.0, 0.0); (386374.3, 3771063.2, 144.0, 164.0, 0.0);
 (386402.5, 3771098.4, 144.8, 181.0, 0.0); (386419.8, 3771082.4, 142.9, 181.0, 0.0);
 (386163.4, 3771763.8, 182.0, 182.0, 0.0); (386081.3, 3771480.5, 178.0, 178.0, 0.0);
 (386103.8, 3771527.9, 179.8, 179.8, 0.0); (386120.4, 3771576.0, 181.1, 181.1, 0.0);
 (386135.8, 3771613.8, 182.0, 182.0, 0.0); (386146.7, 3771651.6, 182.0, 182.0, 0.0);
 (386156.3, 3771690.8, 182.0, 182.0, 0.0); (386164.7, 3771730.5, 182.0, 182.0, 0.0);
 (386716.6, 3772090.1, 93.4, 182.0, 0.0); (386705.7, 3772082.4, 93.0, 182.0, 0.0);
 (386714.7, 3772074.7, 93.3, 182.0, 0.0); (386723.0, 3772061.9, 93.7, 182.0, 0.0);
 (386732.0, 3772036.9, 94.0, 182.0, 0.0); (386728.1, 3772051.0, 93.9, 182.0, 0.0);
 (386737.1, 3772022.1, 94.2, 182.0, 0.0); (386699.3, 3772099.1, 92.7, 182.0, 0.0);
 (386690.3, 3772107.4, 92.4, 182.0, 0.0); (386682.6, 3772113.8, 92.1, 182.0, 0.0);
 (386674.3, 3772123.4, 92.3, 182.0, 0.0); (386664.7, 3772134.3, 92.8, 182.0, 0.0);
 (386654.4, 3772145.2, 93.1, 182.0, 0.0); (386605.7, 3772127.3, 95.6, 182.0, 0.0);
 (386591.0, 3772133.7, 96.5, 182.0, 0.0); (386579.4, 3772139.5, 97.2, 182.0, 0.0);
 (386560.2, 3772147.2, 98.4, 182.0, 0.0); (386545.4, 3772154.8, 99.0, 182.0, 0.0);
 (386533.3, 3772162.5, 99.5, 182.0, 0.0); (386542.9, 3772179.8, 98.2, 182.0, 0.0);
 (386553.1, 3772195.9, 96.9, 182.0, 0.0); (386568.5, 3772208.7, 95.5, 182.0, 0.0);
 (386582.0, 3772192.7, 95.3, 182.0, 0.0); (386595.4, 3772181.1, 94.8, 182.0, 0.0);
 (386609.5, 3772168.9, 94.5, 182.0, 0.0); (386624.3, 3772152.3, 94.3, 182.0, 0.0);
 (386619.2, 3772140.1, 94.7, 182.0, 0.0); (386640.3, 3772163.8, 93.5, 182.0, 0.0);
 (386653.8, 3772174.7, 93.0, 182.0, 0.0); (386666.0, 3772186.3, 92.7, 182.0, 0.0);
 (386677.5, 3772197.8, 92.5, 182.0, 0.0); (386688.4, 3772208.7, 92.8, 182.0, 0.0);
 (386701.2, 3772222.2, 93.5, 182.0, 0.0); (386448.6, 3772217.7, 102.7, 182.0, 0.0);
 (386456.3, 3772212.5, 102.4, 182.0, 0.0); (386465.3, 3772206.1, 102.1, 182.0, 0.0);
 (386474.3, 3772200.4, 101.8, 182.0, 0.0); (386481.3, 3772194.6, 101.5, 182.0, 0.0);
 (386489.0, 3772190.1, 101.2, 182.0, 0.0); (386499.3, 3772183.1, 100.9, 182.0, 0.0);
 (386507.6, 3772177.9, 100.5, 182.0, 0.0); (386514.7, 3772171.5, 100.3, 182.0, 0.0);
 (386576.8, 3772219.6, 94.6, 182.0, 0.0); (386586.5, 3772209.3, 94.4, 182.0, 0.0);
 (386597.4, 3772197.8, 94.2, 182.0, 0.0); (386607.0, 3772187.5, 94.0, 182.0, 0.0);
 (386620.4, 3772178.6, 93.9, 182.0, 0.0); (386742.9, 3772003.6, 94.5, 182.0, 0.0);
 (386386.3, 3771087.3, 144.9, 181.0, 0.0); (386399.3, 3771081.5, 143.9, 181.0, 0.0);
 (386409.4, 3771067.1, 142.4, 181.0, 0.0); (385296.8, 3773132.0, 117.7, 182.0, 0.0);
 (385287.9, 3773147.0, 117.7, 182.0, 0.0); (385283.5, 3773159.4, 117.2, 182.0, 0.0);
 (385576.7, 3773089.5, 103.9, 182.0, 0.0); (385598.0, 3773060.2, 104.0, 182.0, 0.0);
 *** AERMOD - VERSION 09292 *** ** Elysian *** 01/25/11
 *** Aluminum Reservoir HRA *** 11:42:40
 PAGE 8

**MODELOPTs: RegDEFAULT CONC ELEV
 NODRYDPLT NOWETDPLT
 *** DISCRETE CARTESIAN RECEPTORS ***
 (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
 (METERS)
 (385609.5, 3773037.2, 104.5, 182.0, 0.0); (385629.8, 3772997.4, 105.3, 182.0, 0.0);
 (385654.6, 3772953.1, 106.0, 182.0, 0.0); (385706.0, 3772876.9, 106.7, 182.0, 0.0);
 (385752.1, 3772808.7, 107.3, 182.0, 0.0); (385816.7, 3772724.5, 108.9, 182.0, 0.0);
 (385886.7, 3772645.7, 110.4, 182.0, 0.0); (385952.3, 3772579.3, 111.3, 182.0, 0.0);
 (386020.5, 3772519.0, 111.7, 182.0, 0.0); (386094.0, 3772463.2, 111.1, 182.0, 0.0);
 (386169.3, 3772411.0, 110.4, 182.0, 0.0); (386248.1, 3772359.6, 108.8, 182.0, 0.0);
 (386328.7, 3772309.1, 105.9, 182.0, 0.0); (386407.5, 3772253.3, 103.3, 182.0, 0.0);
 (387116.3, 3772187.4, 108.2, 182.0, 0.0); (387141.0, 3772141.5, 108.9, 108.9, 0.0);
 (387201.0, 3772180.3, 110.6, 182.0, 0.0); (387155.1, 3772229.8, 110.0, 182.0, 0.0);
 (386943.3, 3772540.4, 102.9, 243.0, 0.0); (386925.6, 3772582.8, 102.9, 243.0, 0.0);
 (386526.7, 3770944.7, 129.0, 131.0, 0.0); (386466.7, 3770937.6, 131.1, 131.1, 0.0);
 (386537.3, 3770884.7, 123.8, 123.8, 0.0); (386480.8, 3770881.1, 125.8, 125.8, 0.0);
 (387374.0, 3771597.8, 112.1, 112.1, 0.0); (384880.2, 3771187.7, 166.9, 166.9, 0.0);
 (384901.5, 3771161.1, 167.0, 167.0, 0.0); (384909.4, 3771118.6, 165.9, 165.9, 0.0);
 (384912.1, 3771078.8, 164.8, 164.8, 0.0); (384920.0, 3771052.2, 164.2, 164.2, 0.0);
 *** AERMOD - VERSION 09292 *** ** Elysian *** 01/25/11
 *** Aluminum Reservoir HRA *** 11:42:40
 PAGE 9

Aluminum Reservoir HRA

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

| ** CONC OF PM.25 IN MICROGRAMS/M**3 ** | | | | | |
|--|-------------|---------|-------------|-------------|---------|
| X-COORD (M) | Y-COORD (M) | CONC | X-COORD (M) | Y-COORD (M) | CONC |
| 386476.85 | 3771139.46 | 1.69443 | 386470.44 | 3771149.72 | 1.77159 |
| 386460.18 | 3771159.97 | 1.84435 | 386449.29 | 3771172.79 | 1.89245 |
| 386440.31 | 3771184.33 | 1.91198 | 386434.54 | 3771197.79 | 1.93885 |
| 386405.05 | 3771244.59 | 1.79153 | 386409.54 | 3771235.61 | 1.83518 |
| 386416.59 | 3771223.43 | 1.87785 | 386421.08 | 3771217.02 | 1.90100 |
| 386426.21 | 3771209.97 | 1.92224 | 386274.28 | 3771299.72 | 0.69777 |
| 386278.77 | 3771290.10 | 0.73146 | 386287.75 | 3771280.49 | 0.78509 |
| 386296.08 | 3771269.59 | 0.85282 | 386303.13 | 3771259.33 | 0.91675 |
| 386340.31 | 3771210.61 | 1.27557 | 386331.34 | 3771222.15 | 1.19248 |
| 386323.00 | 3771233.69 | 1.10992 | 386312.75 | 3771248.43 | 1.00446 |
| 386415.31 | 3771092.02 | 1.34580 | 386380.05 | 3771051.00 | 1.14631 |
| 386392.23 | 3771050.36 | 1.15238 | 386374.29 | 3771063.18 | 1.18211 |
| 386402.49 | 3771098.43 | 1.37782 | 386419.80 | 3771082.41 | 1.30424 |
| 386163.39 | 3771763.82 | 0.12726 | 386081.33 | 3771480.49 | 0.21400 |
| 386103.77 | 3771527.92 | 0.20243 | 386120.44 | 3771576.00 | 0.18612 |
| 386135.82 | 3771613.82 | 0.17676 | 386146.72 | 3771651.64 | 0.16583 |
| 386156.33 | 3771690.75 | 0.15391 | 386164.67 | 3771730.49 | 0.14146 |
| 386716.60 | 3772090.11 | 7.39489 | 386705.70 | 3772082.42 | 9.09857 |
| 386714.67 | 3772074.72 | 8.66977 | 386723.00 | 3772061.90 | 8.29231 |
| 386731.99 | 3772036.90 | 7.34096 | 386728.13 | 3772051.01 | 7.89378 |
| 386737.11 | 3772022.15 | 6.28633 | 386699.29 | 3772099.08 | 8.08479 |
| 386690.31 | 3772107.42 | 7.82008 | 386682.62 | 3772113.83 | 7.51112 |
| 386674.29 | 3772123.44 | 6.87741 | 386664.67 | 3772134.34 | 6.10067 |
| 386654.42 | 3772145.24 | 5.29424 | 386605.70 | 3772127.29 | 5.54320 |
| 386590.95 | 3772133.70 | 3.46111 | 386579.42 | 3772139.47 | 2.05977 |
| 386560.18 | 3772147.16 | 1.03378 | 386545.44 | 3772154.85 | 0.73810 |
| 386533.26 | 3772162.54 | 0.60074 | 386542.88 | 3772179.85 | 0.66175 |
| 386553.13 | 3772195.88 | 0.77989 | 386568.52 | 3772208.70 | 0.99740 |
| 386581.98 | 3772192.67 | 1.42828 | 386595.44 | 3772181.13 | 2.04791 |
| 386609.54 | 3772168.95 | 2.97782 | 386624.29 | 3772152.29 | 4.48530 |
| 386619.16 | 3772140.11 | 5.39768 | 386640.31 | 3772163.83 | 3.99856 |
| 386653.77 | 3772174.72 | 3.52618 | 386665.95 | 3772186.26 | 3.08480 |
| 386677.49 | 3772197.80 | 2.70984 | 386688.39 | 3772208.70 | 2.42016 |
| 386701.21 | 3772222.16 | 2.11816 | 386448.64 | 3772217.67 | 0.25879 |
| 386456.34 | 3772212.55 | 0.27469 | 386465.31 | 3772206.13 | 0.29542 |
| 386474.29 | 3772200.37 | 0.31773 | 386481.34 | 3772194.60 | 0.33876 |
| 386489.03 | 3772190.11 | 0.36913 | 386499.29 | 3772183.06 | 0.40694 |
| 386507.62 | 3772177.93 | 0.44075 | 386514.67 | 3772171.52 | 0.48123 |
| 386576.85 | 3772219.60 | 1.08508 | 386586.47 | 3772209.34 | 1.35896 |
| 386597.36 | 3772197.80 | 1.77620 | 386606.98 | 3772187.54 | 2.26283 |

*** AERMOD - VERSION 09292 ***

*** Elysian
*** Aluminum Reservoir HRA

*** 01/25/11
*** 11:42:40
*** PAGE 13

**MODELOPTs: RegDEFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: SRCGP1 ***
INCLUDING SOURCE(S): CALEQP , CALIDLE , L0002021, L0002022, L0002023, L0002024, L0002025,
L0002026, L0002027, L0002028, L0002029, L0002030, RESEQUIP, RESIDLE , RESONTRU, L0002037, L0002038, L0002039, L0002040,
L0002041, L0002042, L0002043, L0002044, L0002045, L0002046, L0002047, L0002048, L0002049, L0002050, L0002051, . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

| ** CONC OF PM.25 IN MICROGRAMS/M**3 ** | | | | | |
|--|-------------|---------|-------------|-------------|---------|
| X-COORD (M) | Y-COORD (M) | CONC | X-COORD (M) | Y-COORD (M) | CONC |
| 386620.44 | 3772178.57 | 2.93578 | 386742.87 | 3772003.56 | 4.68330 |
| 386386.30 | 3771087.29 | 1.30712 | 386399.28 | 3771081.52 | 1.28143 |
| 386409.38 | 3771067.10 | 1.22897 | 385296.78 | 3773131.99 | 0.00910 |
| 385287.93 | 3773147.05 | 0.00897 | 385283.50 | 3773159.45 | 0.00889 |
| 385576.69 | 3773089.48 | 0.01222 | 385597.95 | 3773060.25 | 0.01276 |
| 385609.46 | 3773037.22 | 0.01315 | 385629.84 | 3772997.36 | 0.01395 |
| 385654.64 | 3772953.07 | 0.01512 | 385706.01 | 3772876.89 | 0.01904 |
| 385752.07 | 3772808.69 | 0.02658 | 385816.74 | 3772724.54 | 0.03389 |
| 385886.71 | 3772645.70 | 0.03715 | 385952.26 | 3772579.27 | 0.03947 |
| 386020.46 | 3772519.04 | 0.04226 | 386093.98 | 3772463.23 | 0.04720 |
| 386169.27 | 3772410.97 | 0.05695 | 386248.11 | 3772359.60 | 0.07643 |
| 386328.71 | 3772309.11 | 0.11458 | 386407.55 | 3772253.30 | 0.18850 |
| 387116.28 | 3772187.40 | 0.51940 | 387141.00 | 3772141.51 | 0.52614 |
| 387201.01 | 3772180.34 | 0.42751 | 387155.12 | 3772229.77 | 0.41986 |
| 386943.29 | 3772540.45 | 0.30224 | 386925.64 | 3772582.82 | 0.31189 |
| 386526.69 | 3770944.68 | 0.55173 | 386466.67 | 3770937.61 | 0.65155 |
| 386537.28 | 3770884.66 | 0.41352 | 386480.80 | 3770881.13 | 0.49024 |
| 387374.01 | 3771597.81 | 0.32801 | 384880.19 | 3771187.72 | 0.03838 |
| 384901.45 | 3771161.15 | 0.03991 | 384909.41 | 3771118.65 | 0.04157 |
| 384912.07 | 3771078.80 | 0.04285 | 384920.04 | 3771052.24 | 0.04388 |

*** AERMOD - VERSION 09292 ***

*** Elysian
*** Aluminum Reservoir HRA

*** 01/25/11
*** 11:42:40
*** PAGE 14

**MODELOPTs: RegDEFAULT CONC

ELEV
NODRYDPLT NOWETDPLT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): CALEQP , CALIDLE , L0002021, L0002022, L0002023, L0002024, L0002025,
L0002026, L0002027, L0002028, L0002029, L0002030, RESEQUIP, RESIDLE , RESONTRU, L0002037, L0002038, L0002039, L0002040,
L0002041, L0002042, L0002043, L0002044, L0002045, L0002046, L0002047, L0002048, L0002049, L0002050, L0002051, . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

| ** CONC OF PM.25 IN MICROGRAMS/M**3 ** | | | | | |
|--|-------------|---------|-------------|-------------|---------|
| X-COORD (M) | Y-COORD (M) | CONC | X-COORD (M) | Y-COORD (M) | CONC |
| 386476.85 | 3771139.46 | 1.69443 | 386470.44 | 3771149.72 | 1.77159 |
| 386460.18 | 3771159.97 | 1.84435 | 386449.29 | 3771172.79 | 1.89245 |
| 386440.31 | 3771184.33 | 1.91198 | 386434.54 | 3771197.79 | 1.93885 |
| 386405.05 | 3771244.59 | 1.79153 | 386409.54 | 3771235.61 | 1.83518 |
| 386416.59 | 3771223.43 | 1.87785 | 386421.08 | 3771217.02 | 1.90100 |
| 386426.21 | 3771209.97 | 1.92224 | 386274.28 | 3771299.72 | 0.69777 |
| 386278.77 | 3771290.10 | 0.73146 | 386287.75 | 3771280.49 | 0.78509 |
| 386296.08 | 3771269.59 | 0.85282 | 386303.13 | 3771259.33 | 0.91675 |
| 386340.31 | 3771210.61 | 1.27557 | 386331.34 | 3771222.15 | 1.19248 |
| 386323.00 | 3771233.69 | 1.10992 | 386312.75 | 3771248.43 | 1.00446 |
| 386415.31 | 3771092.02 | 1.34580 | 386380.05 | 3771051.00 | 1.14631 |
| 386392.23 | 3771050.36 | 1.15238 | 386374.29 | 3771063.18 | 1.18211 |
| 386402.49 | 3771098.43 | 1.37782 | 386419.80 | 3771082.41 | 1.30424 |

Aluminum Reservoir HRA

| | | | | | |
|-----------|------------|---------|-----------|------------|---------|
| 386163.39 | 3771763.82 | 0.12726 | 386081.33 | 3771480.49 | 0.21400 |
| 386103.77 | 3771527.92 | 0.20243 | 386120.44 | 3771576.00 | 0.18612 |
| 386135.82 | 3771613.82 | 0.17676 | 386146.72 | 3771651.64 | 0.16583 |
| 386156.33 | 3771690.75 | 0.15391 | 386164.67 | 3771730.49 | 0.14146 |
| 386716.60 | 3772090.11 | 7.39489 | 386705.70 | 3772082.42 | 9.09857 |
| 386714.67 | 3772074.72 | 8.66977 | 386723.00 | 3772061.90 | 8.29231 |
| 386731.99 | 3772036.90 | 7.34096 | 386728.13 | 3772051.01 | 7.89378 |
| 386737.11 | 3772022.15 | 6.28633 | 386699.29 | 3772099.08 | 8.08479 |
| 386690.31 | 3772107.42 | 7.82008 | 386682.62 | 3772113.83 | 7.51112 |
| 386674.29 | 3772123.44 | 6.87741 | 386664.67 | 3772134.34 | 6.10067 |
| 386654.42 | 3772145.24 | 5.29424 | 386605.70 | 3772127.29 | 5.54320 |
| 386590.95 | 3772133.70 | 3.46111 | 386579.42 | 3772139.47 | 2.05977 |
| 386560.18 | 3772147.16 | 1.03378 | 386545.44 | 3772154.85 | 0.73810 |
| 386533.26 | 3772162.54 | 0.60074 | 386542.88 | 3772179.85 | 0.66175 |
| 386553.13 | 3772195.88 | 0.77989 | 386568.52 | 3772208.70 | 0.99740 |
| 386581.98 | 3772192.67 | 1.42828 | 386595.44 | 3772181.13 | 2.04791 |
| 386609.54 | 3772168.95 | 2.97782 | 386624.29 | 3772152.29 | 4.48530 |
| 386619.16 | 3772140.11 | 5.39768 | 386640.31 | 3772163.83 | 3.99856 |
| 386653.77 | 3772174.72 | 3.52618 | 386665.95 | 3772186.26 | 3.08480 |
| 386677.49 | 3772197.80 | 2.70984 | 386688.39 | 3772208.70 | 2.42016 |
| 386701.21 | 3772222.16 | 2.11816 | 386448.64 | 3772217.67 | 0.25879 |
| 386456.34 | 3772212.55 | 0.27469 | 386465.31 | 3772206.13 | 0.29542 |
| 386474.29 | 3772200.37 | 0.31773 | 386481.34 | 3772194.60 | 0.33876 |
| 386489.03 | 3772190.11 | 0.36913 | 386499.29 | 3772183.06 | 0.40694 |
| 386507.62 | 3772177.93 | 0.44075 | 386514.67 | 3772171.52 | 0.48123 |
| 386576.85 | 3772219.60 | 1.08508 | 386586.47 | 3772209.34 | 1.35896 |
| 386597.36 | 3772197.80 | 1.77620 | 386606.98 | 3772187.54 | 2.26283 |

*** AERMOD - VERSION 09292 *** *** Elysian *** 01/25/11
 *** Aluminum Reservoir HRA *** *** 11:42:40
 *** *** *** PAGE 15

**MODELOPTs: RegDEFAULT CONC ELEV
 NODRYDPLT NOWETDPLT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): CALEQP, CALIDLE, L0002021, L0002022, L0002023, L0002024, L0002025,
 L0002026, L0002027, L0002028, L0002029, L0002030, RESEQUIP, RESIDLE, RESONTRU, L0002037, L0002038, L0002039, L0002040,
 L0002041, L0002042, L0002043, L0002044, L0002045, L0002046, L0002047, L0002048, L0002049, L0002050, L0002051, . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

| ** CONC OF PM.25 | | IN MICROGRAMS/M**3 | | ** | |
|------------------|-------------|--------------------|-------------|-------------|---------|
| X-COORD (M) | Y-COORD (M) | CONC | X-COORD (M) | Y-COORD (M) | CONC |
| 386620.44 | 3772178.57 | 2.93578 | 386742.87 | 3772003.56 | 4.68330 |
| 386386.30 | 3771087.29 | 1.30712 | 386399.28 | 3771081.52 | 1.28143 |
| 386409.38 | 3771067.10 | 1.22897 | 385296.78 | 3773131.99 | 0.00910 |
| 385287.93 | 3773147.05 | 0.00897 | 385283.50 | 3773159.45 | 0.00889 |
| 385576.69 | 3773089.48 | 0.01222 | 385597.95 | 3773060.25 | 0.01276 |
| 385609.46 | 3773037.22 | 0.01315 | 385629.84 | 3772997.36 | 0.01395 |
| 385654.64 | 3772953.07 | 0.01512 | 385706.01 | 3772876.89 | 0.01904 |
| 385752.07 | 3772808.69 | 0.02658 | 385816.74 | 3772724.54 | 0.03389 |
| 385886.71 | 3772645.70 | 0.03715 | 385952.26 | 3772579.27 | 0.03947 |
| 386020.46 | 3772519.04 | 0.04226 | 386093.98 | 3772463.23 | 0.04720 |
| 386169.27 | 3772410.97 | 0.05695 | 386248.11 | 3772359.60 | 0.07643 |
| 386328.71 | 3772309.11 | 0.11458 | 386407.55 | 3772253.30 | 0.18850 |
| 387116.28 | 3772187.40 | 0.51940 | 387141.00 | 3772141.51 | 0.52614 |
| 387201.01 | 3772180.34 | 0.42751 | 387155.12 | 3772229.77 | 0.41986 |
| 386943.29 | 3772540.45 | 0.30224 | 386925.64 | 3772582.82 | 0.31189 |
| 386526.69 | 3770944.68 | 0.55173 | 386466.67 | 3770937.61 | 0.65155 |
| 386537.28 | 3770884.66 | 0.41352 | 386480.80 | 3770881.13 | 0.49024 |
| 387374.01 | 3771597.81 | 0.32801 | 384880.19 | 3771187.72 | 0.03838 |
| 384901.45 | 3771161.15 | 0.03991 | 384909.41 | 3771118.65 | 0.04157 |
| 384912.07 | 3771078.80 | 0.04285 | 384920.04 | 3771052.24 | 0.04388 |

*** AERMOD - VERSION 09292 *** *** Elysian *** 01/25/11
 *** Aluminum Reservoir HRA *** *** 11:42:40
 *** *** *** PAGE 16

**MODELOPTs: RegDEFAULT CONC ELEV
 NODRYDPLT NOWETDPLT

*** THE SUMMARY OF MAXIMUM ANNUAL RESULTS AVERAGED OVER 2 YEARS ***

** CONC OF PM.25 IN MICROGRAMS/M**3 **

| GROUP ID | AVERAGE CONC | RECEPTOR | (XR, YR, ZELEV, ZHILL, ZFLAG) | OF TYPE | NETWORK GRID-ID |
|----------|-----------------------|--------------|-------------------------------|----------------|-----------------|
| SRCGP1 | 1ST HIGHEST VALUE IS | 9.09857 AT (| 386705.70, 3772082.42, | 92.99, 182.00, | 0.00) DC |
| | 2ND HIGHEST VALUE IS | 8.66977 AT (| 386714.67, 3772074.72, | 93.34, 182.00, | 0.00) DC |
| | 3RD HIGHEST VALUE IS | 8.29231 AT (| 386723.00, 3772061.90, | 93.67, 182.00, | 0.00) DC |
| | 4TH HIGHEST VALUE IS | 8.08479 AT (| 386699.29, 3772099.08, | 92.73, 182.00, | 0.00) DC |
| | 5TH HIGHEST VALUE IS | 7.89378 AT (| 386728.13, 3772051.01, | 93.88, 182.00, | 0.00) DC |
| | 6TH HIGHEST VALUE IS | 7.82008 AT (| 386690.31, 3772107.42, | 92.38, 182.00, | 0.00) DC |
| | 7TH HIGHEST VALUE IS | 7.51112 AT (| 386682.62, 3772113.83, | 92.07, 182.00, | 0.00) DC |
| | 8TH HIGHEST VALUE IS | 7.39489 AT (| 386716.60, 3772090.11, | 93.41, 182.00, | 0.00) DC |
| | 9TH HIGHEST VALUE IS | 7.34096 AT (| 386731.99, 3772036.90, | 94.04, 182.00, | 0.00) DC |
| | 10TH HIGHEST VALUE IS | 6.87741 AT (| 386674.29, 3772123.44, | 92.32, 182.00, | 0.00) DC |
| ALL | 1ST HIGHEST VALUE IS | 9.09857 AT (| 386705.70, 3772082.42, | 92.99, 182.00, | 0.00) DC |
| | 2ND HIGHEST VALUE IS | 8.66977 AT (| 386714.67, 3772074.72, | 93.34, 182.00, | 0.00) DC |
| | 3RD HIGHEST VALUE IS | 8.29231 AT (| 386723.00, 3772061.90, | 93.67, 182.00, | 0.00) DC |
| | 4TH HIGHEST VALUE IS | 8.08479 AT (| 386699.29, 3772099.08, | 92.73, 182.00, | 0.00) DC |
| | 5TH HIGHEST VALUE IS | 7.89378 AT (| 386728.13, 3772051.01, | 93.88, 182.00, | 0.00) DC |
| | 6TH HIGHEST VALUE IS | 7.82008 AT (| 386690.31, 3772107.42, | 92.38, 182.00, | 0.00) DC |
| | 7TH HIGHEST VALUE IS | 7.51112 AT (| 386682.62, 3772113.83, | 92.07, 182.00, | 0.00) DC |
| | 8TH HIGHEST VALUE IS | 7.39489 AT (| 386716.60, 3772090.11, | 93.41, 182.00, | 0.00) DC |
| | 9TH HIGHEST VALUE IS | 7.34096 AT (| 386731.99, 3772036.90, | 94.04, 182.00, | 0.00) DC |
| | 10TH HIGHEST VALUE IS | 6.87741 AT (| 386674.29, 3772123.44, | 92.32, 182.00, | 0.00) DC |

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

*** AERMOD - VERSION 09292 *** *** Elysian *** 01/25/11
 *** Aluminum Reservoir HRA *** *** 11:42:40
 *** *** *** PAGE 17

**MODELOPTs: RegDEFAULT CONC ELEV
 NODRYDPLT NOWETDPLT

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

Aluminum Reservoir HRA

```
----- Summary of Total Messages -----  
A Total of          0 Fatal Error Message(s)  
A Total of          0 Warning Message(s)  
A Total of         113 Informational Message(s)  
  
A Total of         17520 Hours Were Processed  
A Total of          0 Calm Hours Identified  
A Total of          113 Missing Hours Identified ( 0.64 Percent)
```

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

```
***** WARNING MESSAGES *****  
*** NONE ***
```

```
*****  
*** AERMOD Finishes Successfully ***  
*****
```

BARLOW RESPIRATORY ALUMINUM COVER HEALTH RISK ASSESSMENT

| | |
|----------------------------|--------------|
| Project Alternative | |
| PROJECT: | Elysian Park |
| PROJECT NO: | 2008-056 |

| | |
|--|-------------------------------|
| Annual Average Receptor Concentration | |
| Pollutant | micrograms/cubic meter |
| Diesel Particular Matter (DPM) | 0.03 |

| | |
|---|---------------------|
| EXCESS CANCER RISK CALCULATION | |
| Lifetime Exposure Adjustment (LEA) | |
| Receptor: | Sensitive Receptors |
| hours per day | 8 |
| days per week | 5 |
| weeks per year | 50 |
| years | 4.42 |
| LEA | 0.014455782 |

| | |
|--------------------------------|--------|
| Unit Risk Factor (URF) for DPM | 0.0003 |
|--------------------------------|--------|

| | |
|--|---------------------|
| FINDINGS | |
| Receptor: | Sensitive Receptors |
| Excess Cancer Risk | |
| Excess Cancer Risk (Per 1 Million Persons) | 0.1301 |
| SCAQMD Threshold | >= 10 in 1 million |
| Exceed Threshold? | No |

Formulas:
Cancer Risk = DPM Conc x DPM URF x LEA

DPM = Diesel Particulate Matter
URF = Unit Risk Factor
LEA = Lifetime Exposure Adjustment

Source: SCAQMD Health Risk Assessment Guidance for Analyzing Cancer Risks from Mobile Source Diesel Idle Emissions for CEQA Air Quality Analysis, August 2003; California Air Resources Board, Consolidated Table of OEHHA/ARB Approved Risk Assessment Health Values, April 25, 2005

BARLOW RESPIRATORY INLET HEALTH RISK ASSESSMENT

| | |
|----------------------------|--------------|
| Project Alternative | |
| PROJECT: | Elysian Park |
| PROJECT NO: | 2008-056 |

| | |
|--|-------------------------------|
| Annual Average Receptor Concentration | |
| Pollutant | micrograms/cubic meter |
| Diesel Particular Matter (DPM) | 0.01 |

| | |
|---|---------------------|
| EXCESS CANCER RISK CALCULATION | |
| Lifetime Exposure Adjustment (LEA) | |
| Receptor: | Sensitive Receptors |
| hours per day | 8 |
| days per week | 5 |
| weeks per year | 50 |
| years | 1.83 |
| LEA | 0.005985086 |

| | |
|--------------------------------|--------|
| Unit Risk Factor (URF) for DPM | 0.0003 |
|--------------------------------|--------|

| | |
|--|---------------------|
| FINDINGS | |
| Receptor: | Sensitive Receptors |
| Excess Cancer Risk | |
| Excess Cancer Risk (Per 1 Million Persons) | 0.0180 |
| SCAQMD Threshold | >= 10 in 1 million |
| Exceed Threshold? | No |

Formulas:
Cancer Risk = DPM Conc x DPM URF x LEA

DPM = Diesel Particulate Matter
URF = Unit Risk Factor
LEA = Lifetime Exposure Adjustment

Source: SCAQMD Health Risk Assessment Guidance for Analyzing Cancer Risks from Mobile Source Diesel Idle Emissions for CEQA Air Quality Analysis, August 2003; California Air Resources Board, Consolidated Table of OEHHA/ARB Approved Risk Assessment Health Values, April 25, 2005

| | |
|--|--------------------|
| Total Excess Cancer Risk | |
| Excess Cancer Risk (Per 1 Million Persons) | 0.1481 |
| SCAQMD Threshold | >= 10 in 1 million |
| Exceed Threshold? | No |
| Diesel Particular Matter (DPM) | 0.04 |

RESIDENTS OFF PARK ALUMINUM COVER HEALTH RISK ASSESSMENT

| | |
|----------------------------|--------------|
| Project Alternative | |
| PROJECT: | Elysian Park |
| PROJECT NO: | 2008-056 |

| | |
|--|-------------------------------|
| Annual Average Receptor Concentration | |
| Pollutant | micrograms/cubic meter |
| Diesel Particular Matter (DPM) | 1.79 |

| | |
|---|---------------------|
| EXCESS CANCER RISK CALCULATION | |
| Lifetime Exposure Adjustment (LEA) | |
| Receptor: | Sensitive Receptors |
| hours per day | 8 |
| days per week | 5 |
| weeks per year | 50 |
| years | 4.42 |
| LEA | 0.014455782 |

| | |
|--------------------------------|--------|
| Unit Risk Factor (URF) for DPM | 0.0003 |
|--------------------------------|--------|

| | |
|--|---------------------|
| FINDINGS | |
| Receptor: | Sensitive Receptors |
| Excess Cancer Risk | |
| Excess Cancer Risk (Per 1 Million Persons) | 7.7628 |
| SCAQMD Threshold | >= 10 in 1 million |
| Exceed Threshold? | No |

Formulas:
Cancer Risk = DPM Conc x DPM URF x LEA

DPM = Diesel Particulate Matter
URF = Unit Risk Factor
LEA = Lifetime Exposure Adjustment

Source: SCAQMD Health Risk Assessment Guidance for Analyzing Cancer Risks from Mobile Source Diesel Idle Emissions for CEQA Air Quality Analysis, August 2003; California Air Resources Board, Consolidated Table of OEHHA/ARB Approved Risk Assessment Health Values, April 25, 2005

RESIDENTS OFF PARK INLET HEALTH RISK ASSESSMENT

| | |
|----------------------------|--------------|
| Project Alternative | |
| PROJECT: | Elysian Park |
| PROJECT NO: | 2008-056 |

| | |
|--|-------------------------------|
| Annual Average Receptor Concentration | |
| Pollutant | micrograms/cubic meter |
| Diesel Particular Matter (DPM) | 0.06 |

| | |
|---|---------------------|
| EXCESS CANCER RISK CALCULATION | |
| Lifetime Exposure Adjustment (LEA) | |
| Receptor: | Sensitive Receptors |
| hours per day | 8 |
| days per week | 5 |
| weeks per year | 50 |
| years | 1.83 |
| LEA | 0.005985086 |

| | |
|--------------------------------|--------|
| Unit Risk Factor (URF) for DPM | 0.0003 |
|--------------------------------|--------|

| | |
|--|---------------------|
| FINDINGS | |
| Receptor: | Sensitive Receptors |
| Excess Cancer Risk | |
| Excess Cancer Risk (Per 1 Million Persons) | 0.1077 |
| SCAQMD Threshold | >= 10 in 1 million |
| Exceed Threshold? | No |

Formulas:
Cancer Risk = DPM Conc x DPM URF x LEA

DPM = Diesel Particulate Matter
URF = Unit Risk Factor
LEA = Lifetime Exposure Adjustment

Source: SCAQMD Health Risk Assessment Guidance for Analyzing Cancer Risks from Mobile Source Diesel Idle Emissions for CEQA Air Quality Analysis, August 2003; California Air Resources Board, Consolidated Table of OEHHA/ARB Approved Risk Assessment Health Values, April 25, 2005

| | |
|--|--------------------|
| Total Excess Cancer Risk | |
| Excess Cancer Risk (Per 1 Million Persons) | 7.8705 |
| SCAQMD Threshold | >= 10 in 1 million |
| Exceed Threshold? | No |
| Diesel Particular Matter (DPM) | 1.85 |

RESIDENTS OFF RIVERSIDE ALUMINUM COVER HEALTH RISK ASSESSMENT

| | |
|----------------------------|--------------|
| Project Alternative | |
| PROJECT: | Elysian Park |
| PROJECT NO: | 2008-056 |

| | |
|--|-------------------------------|
| Annual Average Receptor Concentration | |
| Pollutant | micrograms/cubic meter |
| Diesel Particular Matter (DPM) | 0.33 |

| | |
|---|---------------------|
| EXCESS CANCER RISK CALCULATION | |
| Lifetime Exposure Adjustment (LEA) | |
| Receptor: | Sensitive Receptors |
| hours per day | 8 |
| days per week | 5 |
| weeks per year | 50 |
| years | 4.42 |
| LEA | 0.014455782 |

| | |
|--------------------------------|--------|
| Unit Risk Factor (URF) for DPM | 0.0003 |
|--------------------------------|--------|

| | |
|--|---------------------|
| FINDINGS | |
| Receptor: | Sensitive Receptors |
| Excess Cancer Risk | |
| Excess Cancer Risk (Per 1 Million Persons) | 1.4311 |
| SCAQMD Threshold | >= 10 in 1 million |
| Exceed Threshold? | No |

Formulas:
Cancer Risk = DPM Conc x DPM URF x LEA

DPM = Diesel Particulate Matter
URF = Unit Risk Factor
LEA = Lifetime Exposure Adjustment

Source: SCAQMD Health Risk Assessment Guidance for Analyzing Cancer Risks from Mobile Source Diesel Idle Emissions for CEQA Air Quality Analysis, August 2003; California Air Resources Board, Consolidated Table of OEHHA/ARB Approved Risk Assessment Health Values, April 25, 2005

RESIDENTS OFF RIVERSIDE INLET HEALTH RISK ASSESSMENT

| | |
|----------------------------|--------------|
| Project Alternative | |
| PROJECT: | Elysian Park |
| PROJECT NO: | 2008-056 |

| | |
|--|-------------------------------|
| Annual Average Receptor Concentration | |
| Pollutant | micrograms/cubic meter |
| Diesel Particular Matter (DPM) | 8.77 |

| | |
|---|---------------------|
| EXCESS CANCER RISK CALCULATION | |
| Lifetime Exposure Adjustment (LEA) | |
| Receptor: | Sensitive Receptors |
| hours per day | 8 |
| days per week | 5 |
| weeks per year | 50 |
| years | 1.83 |
| LEA | 0.005985086 |

| | |
|--------------------------------|--------|
| Unit Risk Factor (URF) for DPM | 0.0003 |
|--------------------------------|--------|

| | |
|--|---------------------|
| FINDINGS | |
| Receptor: | Sensitive Receptors |
| Excess Cancer Risk | |
| Excess Cancer Risk (Per 1 Million Persons) | 15.7468 |
| SCAQMD Threshold | >= 10 in 1 million |
| Exceed Threshold? | Yes |

Formulas:
Cancer Risk = DPM Conc x DPM URF x LEA

DPM = Diesel Particulate Matter
URF = Unit Risk Factor
LEA = Lifetime Exposure Adjustment

Source: SCAQMD Health Risk Assessment Guidance for Analyzing Cancer Risks from Mobile Source Diesel Idle Emissions for CEQA Air Quality Analysis, August 2003; California Air Resources Board, Consolidated Table of OEHHA/ARB Approved Risk Assessment Health Values, April 25, 2005

| | |
|--|--------------------|
| Total Excess Cancer Risk | |
| Excess Cancer Risk (Per 1 Million Persons) | 17.1779 |
| SCAQMD Threshold | >= 10 in 1 million |
| Exceed Threshold? | Yes |
| Diesel Particular Matter (DPM) | 9.1 |

**SOLANO AVE ELEMENTARY SCHOOL
ALUMINUM COVER HEALTH RISK
ASSESSMENT**

| | |
|----------------------------|--------------|
| Project Alternative | |
| PROJECT: | Elysian Park |
| PROJECT NO: | 2008-056 |

| | |
|--|-------------------------------|
| Annual Average Receptor Concentration | |
| Pollutant | micrograms/cubic meter |
| Diesel Particular Matter (DPM) | 1.29 |

| | |
|---|---------------------|
| EXCESS CANCER RISK CALCULATION | |
| Lifetime Exposure Adjustment (LEA) | |
| Receptor: | Sensitive Receptors |
| hours per day | 8 |
| days per week | 5 |
| weeks per year | 50 |
| years | 4.42 |
| LEA | 0.014455782 |

| | |
|--------------------------------|--------|
| Unit Risk Factor (URF) for DPM | 0.0003 |
|--------------------------------|--------|

| | |
|--|---------------------|
| FINDINGS | |
| Receptor: | Sensitive Receptors |
| Excess Cancer Risk | |
| Excess Cancer Risk (Per 1 Million Persons) | 5.5944 |
| SCAQMD Threshold | >= 10 in 1 million |
| Exceed Threshold? | No |

Formulas:
Cancer Risk = DPM Conc x DPM URF x LEA

DPM = Diesel Particulate Matter
URF = Unit Risk Factor
LEA = Lifetime Exposure Adjustment

Source: SCAQMD Health Risk Assessment Guidance for Analyzing Cancer Risks from Mobile Source Diesel Idle Emissions for CEQA Air Quality Analysis, August 2003; California Air Resources Board, Consolidated Table of OEHHA/ARB Approved Risk Assessment Health Values, April 25, 2005

**SOLANO AVE ELEMENTARY SCHOOL INLET HEALTH
RISK ASSESSMENT**

| | |
|----------------------------|--------------|
| Project Alternative | |
| PROJECT: | Elysian Park |
| PROJECT NO: | 2008-056 |

| | |
|--|-------------------------------|
| Annual Average Receptor Concentration | |
| Pollutant | micrograms/cubic meter |
| Diesel Particular Matter (DPM) | 0.06 |

| | |
|---|---------------------|
| EXCESS CANCER RISK CALCULATION | |
| Lifetime Exposure Adjustment (LEA) | |
| Receptor: | Sensitive Receptors |
| hours per day | 8 |
| days per week | 5 |
| weeks per year | 50 |
| years | 1.83 |
| LEA | 0.005985086 |

| | |
|--------------------------------|--------|
| Unit Risk Factor (URF) for DPM | 0.0003 |
|--------------------------------|--------|

| | |
|--|---------------------|
| FINDINGS | |
| Receptor: | Sensitive Receptors |
| Excess Cancer Risk | |
| Excess Cancer Risk (Per 1 Million Persons) | 0.1077 |
| SCAQMD Threshold | >= 10 in 1 million |
| Exceed Threshold? | No |

Formulas:
Cancer Risk = DPM Conc x DPM URF x LEA

DPM = Diesel Particulate Matter
URF = Unit Risk Factor
LEA = Lifetime Exposure Adjustment

Source: SCAQMD Health Risk Assessment Guidance for Analyzing Cancer Risks from Mobile Source Diesel Idle Emissions for CEQA Air Quality Analysis, August 2003; California Air Resources Board, Consolidated Table of OEHHA/ARB Approved Risk Assessment Health Values, April 25, 2005

| | |
|--|--------------------|
| Total Excess Cancer Risk | |
| Excess Cancer Risk (Per 1 Million Persons) | 5.7021 |
| SCAQMD Threshold | >= 10 in 1 million |
| Exceed Threshold? | No |
| Diesel Particular Matter (DPM) | 1.35 |

Appendix F

Regional Operational Emissions

Urbemis 2007 Version 9.2.4

Combined Summer Emissions Reports (Pounds/Day)

File Name: J:\Projects\LADWP Elysian Reservoir Project 2008-056\AQ\Operations\Buried Cover Ops.urb924

Project Name: Elysian Reservoir Buried Concrete Cover

Project Location: South Coast AQMD

On-Road Vehicle Emissions Based on: Version : Emfac2007 V2.3 Nov 1 2006

Off-Road Vehicle Emissions Based on: OFFROAD2007

Summary Report:

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

| | <u>ROG</u> | <u>NOx</u> | <u>CO</u> | <u>SO2</u> | <u>PM10</u> | <u>PM2.5</u> | <u>CO2</u> |
|-------------------------------|------------|------------|-----------|------------|-------------|--------------|------------|
| TOTALS (lbs/day, unmitigated) | 2.01 | 2.68 | 25.60 | 0.05 | 8.84 | 1.72 | 5,295.50 |

SUM OF AREA SOURCE AND OPERATIONAL EMISSION ESTIMATES

| | <u>ROG</u> | <u>NOx</u> | <u>CO</u> | <u>SO2</u> | <u>PM10</u> | <u>PM2.5</u> | <u>CO2</u> |
|-------------------------------|------------|------------|-----------|------------|-------------|--------------|------------|
| TOTALS (lbs/day, unmitigated) | 2.01 | 2.68 | 25.60 | 0.05 | 8.84 | 1.72 | 5,295.50 |

Operational Unmitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated

| <u>Source</u> | ROG | NOX | CO | SO2 | PM10 | PM25 | CO2 |
|-------------------------------|------|------|-------|------|------|------|----------|
| City park | 2.01 | 2.68 | 25.60 | 0.05 | 8.84 | 1.72 | 5,295.50 |
| TOTALS (lbs/day, unmitigated) | 2.01 | 2.68 | 25.60 | 0.05 | 8.84 | 1.72 | 5,295.50 |

Operational Settings:

Does not include correction for passby trips

Does not include double counting adjustment for internal trips

Analysis Year: 2020 Temperature (F): 80 Season: Summer

Emfac: Version : Emfac2007 V2.3 Nov 1 2006

Summary of Land Uses

| Land Use Type | Acreage | Trip Rate | Unit Type | No. Units | Total Trips | Total VMT |
|---------------|---------|-----------|-----------|-----------|-------------|-----------|
| City park | | 70.50 | acres | 8.00 | 564.00 | 5,122.53 |
| | | | | | 564.00 | 5,122.53 |

Vehicle Fleet Mix

| Vehicle Type | Percent Type | Non-Catalyst | Catalyst | Diesel |
|------------------------------------|--------------|--------------|----------|--------|
| Light Auto | 50.6 | 0.0 | 100.0 | 0.0 |
| Light Truck < 3750 lbs | 7.2 | 0.0 | 98.6 | 1.4 |
| Light Truck 3751-5750 lbs | 23.3 | 0.0 | 100.0 | 0.0 |
| Med Truck 5751-8500 lbs | 11.0 | 0.0 | 100.0 | 0.0 |
| Lite-Heavy Truck 8501-10,000 lbs | 1.7 | 0.0 | 82.4 | 17.6 |
| Lite-Heavy Truck 10,001-14,000 lbs | 0.5 | 0.0 | 60.0 | 40.0 |

Vehicle Fleet Mix

| Vehicle Type | Percent Type | Non-Catalyst | Catalyst | Diesel |
|-------------------------------------|--------------|--------------|----------|--------|
| Med-Heavy Truck 14,001-33,000 lbs | 1.0 | 0.0 | 20.0 | 80.0 |
| Heavy-Heavy Truck 33,001-60,000 lbs | 0.6 | 0.0 | 0.0 | 100.0 |
| Other Bus | 0.1 | 0.0 | 0.0 | 100.0 |
| Urban Bus | 0.1 | 0.0 | 0.0 | 100.0 |
| Motorcycle | 2.9 | 41.4 | 58.6 | 0.0 |
| School Bus | 0.1 | 0.0 | 0.0 | 100.0 |
| Motor Home | 0.9 | 0.0 | 88.9 | 11.1 |

Travel Conditions

| | Residential | | | Commercial | | |
|---------------------------------------|-------------|-----------|------------|------------|----------|----------|
| | Home-Work | Home-Shop | Home-Other | Commuter | Non-Work | Customer |
| Urban Trip Length (miles) | 12.7 | 7.0 | 9.5 | 13.3 | 7.4 | 8.9 |
| Rural Trip Length (miles) | 17.6 | 12.1 | 14.9 | 15.4 | 9.6 | 12.6 |
| Trip speeds (mph) | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 |
| % of Trips - Residential | 32.9 | 18.0 | 49.1 | | | |
| % of Trips - Commercial (by land use) | | | | | | |
| City park | | | | 5.0 | 2.5 | 92.5 |

Urbemis 2007 Version 9.2.4

Combined Annual Emissions Reports (Tons/Year)

File Name: J:\Projects\LADWP Elysian Reservoir Project 2008-056\AQ\Operations\Buried Cover Ops.urb924

Project Name: Elysian Reservoir Buried Concrete Cover

Project Location: South Coast AQMD

On-Road Vehicle Emissions Based on: Version : Emfac2007 V2.3 Nov 1 2006

Off-Road Vehicle Emissions Based on: OFFROAD2007

Summary Report:

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

| | <u>ROG</u> | <u>NOx</u> | <u>CO</u> | <u>SO2</u> | <u>PM10</u> | <u>PM2.5</u> | <u>CO2</u> |
|---------------------------------|------------|------------|-----------|------------|-------------|--------------|------------|
| TOTALS (tons/year, unmitigated) | 0.38 | 0.52 | 4.59 | 0.01 | 1.61 | 0.31 | 935.52 |

SUM OF AREA SOURCE AND OPERATIONAL EMISSION ESTIMATES

| | <u>ROG</u> | <u>NOx</u> | <u>CO</u> | <u>SO2</u> | <u>PM10</u> | <u>PM2.5</u> | <u>CO2</u> |
|---------------------------------|------------|------------|-----------|------------|-------------|--------------|------------|
| TOTALS (tons/year, unmitigated) | 0.38 | 0.52 | 4.59 | 0.01 | 1.61 | 0.31 | 935.52 |

Operational Unmitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Annual Tons Per Year, Unmitigated

| <u>Source</u> | ROG | NOX | CO | SO2 | PM10 | PM25 | CO2 |
|---------------------------------|------|------|------|------|------|------|--------|
| City park | 0.38 | 0.52 | 4.59 | 0.01 | 1.61 | 0.31 | 935.52 |
| TOTALS (tons/year, unmitigated) | 0.38 | 0.52 | 4.59 | 0.01 | 1.61 | 0.31 | 935.52 |

Operational Settings:

Does not include correction for passby trips

Does not include double counting adjustment for internal trips

Analysis Year: 2020 Season: Annual

Emfac: Version : Emfac2007 V2.3 Nov 1 2006

Summary of Land Uses

| Land Use Type | Acreage | Trip Rate | Unit Type | No. Units | Total Trips | Total VMT |
|---------------|---------|-----------|-----------|-----------|-------------|-----------|
| City park | | 70.50 | acres | 8.00 | 564.00 | 5,122.53 |
| | | | | | 564.00 | 5,122.53 |

Vehicle Fleet Mix

| Vehicle Type | Percent Type | Non-Catalyst | Catalyst | Diesel |
|------------------------------------|--------------|--------------|----------|--------|
| Light Auto | 50.6 | 0.0 | 100.0 | 0.0 |
| Light Truck < 3750 lbs | 7.2 | 0.0 | 98.6 | 1.4 |
| Light Truck 3751-5750 lbs | 23.3 | 0.0 | 100.0 | 0.0 |
| Med Truck 5751-8500 lbs | 11.0 | 0.0 | 100.0 | 0.0 |
| Lite-Heavy Truck 8501-10,000 lbs | 1.7 | 0.0 | 82.4 | 17.6 |
| Lite-Heavy Truck 10,001-14,000 lbs | 0.5 | 0.0 | 60.0 | 40.0 |

Vehicle Fleet Mix

| Vehicle Type | Percent Type | Non-Catalyst | Catalyst | Diesel |
|-------------------------------------|--------------|--------------|----------|--------|
| Med-Heavy Truck 14,001-33,000 lbs | 1.0 | 0.0 | 20.0 | 80.0 |
| Heavy-Heavy Truck 33,001-60,000 lbs | 0.6 | 0.0 | 0.0 | 100.0 |
| Other Bus | 0.1 | 0.0 | 0.0 | 100.0 |
| Urban Bus | 0.1 | 0.0 | 0.0 | 100.0 |
| Motorcycle | 2.9 | 41.4 | 58.6 | 0.0 |
| School Bus | 0.1 | 0.0 | 0.0 | 100.0 |
| Motor Home | 0.9 | 0.0 | 88.9 | 11.1 |

Travel Conditions

| | Residential | | | Commuter | Commercial | |
|---------------------------------------|-------------|-----------|------------|----------|------------|----------|
| | Home-Work | Home-Shop | Home-Other | | Non-Work | Customer |
| Urban Trip Length (miles) | 12.7 | 7.0 | 9.5 | 13.3 | 7.4 | 8.9 |
| Rural Trip Length (miles) | 17.6 | 12.1 | 14.9 | 15.4 | 9.6 | 12.6 |
| Trip speeds (mph) | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 |
| % of Trips - Residential | 32.9 | 18.0 | 49.1 | | | |
| % of Trips - Commercial (by land use) | | | | | | |
| City park | | | | 5.0 | 2.5 | 92.5 |

Urbemis 2007 Version 9.2.4

Combined Winter Emissions Reports (Pounds/Day)

File Name: J:\Projects\LADWP Elysian Reservoir Project 2008-056\AQ\Operations\Buried Cover Ops.urb924

Project Name: Elysian Reservoir Buried Concrete Cover

Project Location: South Coast AQMD

On-Road Vehicle Emissions Based on: Version : Emfac2007 V2.3 Nov 1 2006

Off-Road Vehicle Emissions Based on: OFFROAD2007

Summary Report:

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

| | <u>ROG</u> | <u>NOx</u> | <u>CO</u> | <u>SO2</u> | <u>PM10</u> | <u>PM2.5</u> | <u>CO2</u> |
|-------------------------------|------------|------------|-----------|------------|-------------|--------------|------------|
| TOTALS (lbs/day, unmitigated) | 2.27 | 3.22 | 24.18 | 0.04 | 8.84 | 1.72 | 4,787.37 |

SUM OF AREA SOURCE AND OPERATIONAL EMISSION ESTIMATES

| | <u>ROG</u> | <u>NOx</u> | <u>CO</u> | <u>SO2</u> | <u>PM10</u> | <u>PM2.5</u> | <u>CO2</u> |
|-------------------------------|------------|------------|-----------|------------|-------------|--------------|------------|
| TOTALS (lbs/day, unmitigated) | 2.27 | 3.22 | 24.18 | 0.04 | 8.84 | 1.72 | 4,787.37 |

Operational Unmitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Winter Pounds Per Day, Unmitigated

| <u>Source</u> | ROG | NOX | CO | SO2 | PM10 | PM25 | CO2 |
|-------------------------------|------|------|-------|------|------|------|----------|
| City park | 2.27 | 3.22 | 24.18 | 0.04 | 8.84 | 1.72 | 4,787.37 |
| TOTALS (lbs/day, unmitigated) | 2.27 | 3.22 | 24.18 | 0.04 | 8.84 | 1.72 | 4,787.37 |

Operational Settings:

Does not include correction for passby trips

Does not include double counting adjustment for internal trips

Analysis Year: 2020 Temperature (F): 60 Season: Winter

Emfac: Version : Emfac2007 V2.3 Nov 1 2006

Summary of Land Uses

| Land Use Type | Acreage | Trip Rate | Unit Type | No. Units | Total Trips | Total VMT |
|---------------|---------|-----------|-----------|-----------|-------------|-----------|
| City park | | 70.50 | acres | 8.00 | 564.00 | 5,122.53 |
| | | | | | 564.00 | 5,122.53 |

Vehicle Fleet Mix

| Vehicle Type | Percent Type | Non-Catalyst | Catalyst | Diesel |
|------------------------------------|--------------|--------------|----------|--------|
| Light Auto | 50.6 | 0.0 | 100.0 | 0.0 |
| Light Truck < 3750 lbs | 7.2 | 0.0 | 98.6 | 1.4 |
| Light Truck 3751-5750 lbs | 23.3 | 0.0 | 100.0 | 0.0 |
| Med Truck 5751-8500 lbs | 11.0 | 0.0 | 100.0 | 0.0 |
| Lite-Heavy Truck 8501-10,000 lbs | 1.7 | 0.0 | 82.4 | 17.6 |
| Lite-Heavy Truck 10,001-14,000 lbs | 0.5 | 0.0 | 60.0 | 40.0 |

Vehicle Fleet Mix

| Vehicle Type | Percent Type | Non-Catalyst | Catalyst | Diesel |
|-------------------------------------|--------------|--------------|----------|--------|
| Med-Heavy Truck 14,001-33,000 lbs | 1.0 | 0.0 | 20.0 | 80.0 |
| Heavy-Heavy Truck 33,001-60,000 lbs | 0.6 | 0.0 | 0.0 | 100.0 |
| Other Bus | 0.1 | 0.0 | 0.0 | 100.0 |
| Urban Bus | 0.1 | 0.0 | 0.0 | 100.0 |
| Motorcycle | 2.9 | 41.4 | 58.6 | 0.0 |
| School Bus | 0.1 | 0.0 | 0.0 | 100.0 |
| Motor Home | 0.9 | 0.0 | 88.9 | 11.1 |

Travel Conditions

| | Residential | | | Commercial | | |
|---------------------------------------|-------------|-----------|------------|------------|----------|----------|
| | Home-Work | Home-Shop | Home-Other | Commuter | Non-Work | Customer |
| Urban Trip Length (miles) | 12.7 | 7.0 | 9.5 | 13.3 | 7.4 | 8.9 |
| Rural Trip Length (miles) | 17.6 | 12.1 | 14.9 | 15.4 | 9.6 | 12.6 |
| Trip speeds (mph) | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 |
| % of Trips - Residential | 32.9 | 18.0 | 49.1 | | | |
| % of Trips - Commercial (by land use) | | | | | | |
| City park | | | | 5.0 | 2.5 | 92.5 |

Appendix G
SCAQMD Rule 403

(Adopted May 7, 1976) (Amended November 6, 1992)
(Amended July 9, 1993) (Amended February 14, 1997)
(Amended December 11, 1998)(Amended April 2, 2004)
(Amended June 3, 2005)

RULE 403. FUGITIVE DUST

(a) Purpose

The purpose of this Rule is to reduce the amount of particulate matter entrained in the ambient air as a result of anthropogenic (man-made) fugitive dust sources by requiring actions to prevent, reduce or mitigate fugitive dust emissions.

(b) Applicability

The provisions of this Rule shall apply to any activity or man-made condition capable of generating fugitive dust.

(c) Definitions

- (1) ACTIVE OPERATIONS means any source capable of generating fugitive dust, including, but not limited to, earth-moving activities, construction/demolition activities, disturbed surface area, or heavy- and light-duty vehicular movement.
- (2) AGGREGATE-RELATED PLANTS are defined as facilities that produce and / or mix sand and gravel and crushed stone.
- (3) AGRICULTURAL HANDBOOK means the region-specific guidance document that has been approved by the Governing Board or hereafter approved by the Executive Officer and the U.S. EPA. For the South Coast Air Basin, the Board-approved region-specific guidance document is the Rule 403 Agricultural Handbook dated December 1998. For the Coachella Valley, the Board-approved region-specific guidance document is the Rule 403 Coachella Valley Agricultural Handbook dated April 2, 2004.
- (4) ANEMOMETERS are devices used to measure wind speed and direction in accordance with the performance standards, and maintenance and calibration criteria as contained in the most recent Rule 403 Implementation Handbook.
- (5) BEST AVAILABLE CONTROL MEASURES means fugitive dust control actions that are set forth in Table 1 of this Rule.

- (6) BULK MATERIAL is sand, gravel, soil, aggregate material less than two inches in length or diameter, and other organic or inorganic particulate matter.
- (7) CEMENT MANUFACTURING FACILITY is any facility that has a cement kiln at the facility.
- (8) CHEMICAL STABILIZERS are any non-toxic chemical dust suppressant which must not be used if prohibited for use by the Regional Water Quality Control Boards, the California Air Resources Board, the U.S. Environmental Protection Agency (U.S. EPA), or any applicable law, rule or regulation. The chemical stabilizers shall meet any specifications, criteria, or tests required by any federal, state, or local water agency. Unless otherwise indicated, the use of a non-toxic chemical stabilizer shall be of sufficient concentration and application frequency to maintain a stabilized surface.
- (9) COMMERCIAL POULTRY RANCH means any building, structure, enclosure, or premises where more than 100 fowl are kept or maintained for the primary purpose of producing eggs or meat for sale or other distribution.
- (10) CONFINED ANIMAL FACILITY means a source or group of sources of air pollution at an agricultural source for the raising of 3,360 or more fowl or 50 or more animals, including but not limited to, any structure, building, installation, farm, corral, coop, feed storage area, milking parlor, or system for the collection, storage, or distribution of solid and liquid manure; if domesticated animals, including horses, sheep, goats, swine, beef cattle, rabbits, chickens, turkeys, or ducks are corralled, penned, or otherwise caused to remain in restricted areas for commercial agricultural purposes and feeding is by means other than grazing.
- (11) CONSTRUCTION/DEMOLITION ACTIVITIES means any on-site mechanical activities conducted in preparation of, or related to, the building, alteration, rehabilitation, demolition or improvement of property, including, but not limited to the following activities: grading, excavation, loading, crushing, cutting, planing, shaping or ground breaking.
- (12) CONTRACTOR means any person who has a contractual arrangement to conduct an active operation for another person.
- (13) DAIRY FARM is an operation on a property, or set of properties that are contiguous or separated only by a public right-of-way, that raises cows or

produces milk from cows for the purpose of making a profit or for a livelihood. Heifer and calf farms are dairy farms.

- (14) **DISTURBED SURFACE AREA** means a portion of the earth's surface which has been physically moved, uncovered, destabilized, or otherwise modified from its undisturbed natural soil condition, thereby increasing the potential for emission of fugitive dust. This definition excludes those areas which have:
- (A) been restored to a natural state, such that the vegetative ground cover and soil characteristics are similar to adjacent or nearby natural conditions;
 - (B) been paved or otherwise covered by a permanent structure; or
 - (C) sustained a vegetative ground cover of at least 70 percent of the native cover for a particular area for at least 30 days.
- (15) **DUST SUPPRESSANTS** are water, hygroscopic materials, or non-toxic chemical stabilizers used as a treatment material to reduce fugitive dust emissions.
- (16) **EARTH-MOVING ACTIVITIES** means the use of any equipment for any activity where soil is being moved or uncovered, and shall include, but not be limited to the following: grading, earth cutting and filling operations, loading or unloading of dirt or bulk materials, adding to or removing from open storage piles of bulk materials, landfill operations, weed abatement through disking, and soil mulching.
- (17) **DUST CONTROL SUPERVISOR** means a person with the authority to expeditiously employ sufficient dust mitigation measures to ensure compliance with all Rule 403 requirements at an active operation.
- (18) **FUGITIVE DUST** means any solid particulate matter that becomes airborne, other than that emitted from an exhaust stack, directly or indirectly as a result of the activities of any person.
- (19) **HIGH WIND CONDITIONS** means that instantaneous wind speeds exceed 25 miles per hour.
- (20) **INACTIVE DISTURBED SURFACE AREA** means any disturbed surface area upon which active operations have not occurred or are not expected to occur for a period of 20 consecutive days.
- (21) **LARGE OPERATIONS** means any active operations on property which contains 50 or more acres of disturbed surface area; or any earth-moving operation with a daily earth-moving or throughput volume of 3,850 cubic

meters (5,000 cubic yards) or more three times during the most recent 365-day period.

- (22) OPEN STORAGE PILE is any accumulation of bulk material, which is not fully enclosed, covered or chemically stabilized, and which attains a height of three feet or more and a total surface area of 150 or more square feet.
- (23) PARTICULATE MATTER means any material, except uncombined water, which exists in a finely divided form as a liquid or solid at standard conditions.
- (24) PAVED ROAD means a public or private improved street, highway, alley, public way, or easement that is covered by typical roadway materials, but excluding access roadways that connect a facility with a public paved roadway and are not open to through traffic. Public paved roads are those open to public access and that are owned by any federal, state, county, municipal or any other governmental or quasi-governmental agencies. Private paved roads are any paved roads not defined as public.
- (25) PM₁₀ means particulate matter with an aerodynamic diameter smaller than or equal to 10 microns as measured by the applicable State and Federal reference test methods.
- (26) PROPERTY LINE means the boundaries of an area in which either a person causing the emission or a person allowing the emission has the legal use or possession of the property. Where such property is divided into one or more sub-tenancies, the property line(s) shall refer to the boundaries dividing the areas of all sub-tenancies.
- (27) RULE 403 IMPLEMENTATION HANDBOOK means a guidance document that has been approved by the Governing Board on April 2, 2004 or hereafter approved by the Executive Officer and the U.S. EPA.
- (28) SERVICE ROADS are paved or unpaved roads that are used by one or more public agencies for inspection or maintenance of infrastructure and which are not typically used for construction-related activity.
- (29) SIMULTANEOUS SAMPLING means the operation of two PM₁₀ samplers in such a manner that one sampler is started within five minutes of the other, and each sampler is operated for a consecutive period which must be not less than 290 minutes and not more than 310 minutes.
- (30) SOUTH COAST AIR BASIN means the non-desert portions of Los Angeles, Riverside, and San Bernardino counties and all of Orange

County as defined in California Code of Regulations, Title 17, Section 60104. The area is bounded on the west by the Pacific Ocean, on the north and east by the San Gabriel, San Bernardino, and San Jacinto Mountains, and on the south by the San Diego county line.

- (31) STABILIZED SURFACE means any previously disturbed surface area or open storage pile which, through the application of dust suppressants, shows visual or other evidence of surface crusting and is resistant to wind-driven fugitive dust and is demonstrated to be stabilized. Stabilization can be demonstrated by one or more of the applicable test methods contained in the Rule 403 Implementation Handbook.
 - (32) TRACK-OUT means any bulk material that adheres to and agglomerates on the exterior surface of motor vehicles, haul trucks, and equipment (including tires) that have been released onto a paved road and can be removed by a vacuum sweeper or a broom sweeper under normal operating conditions.
 - (33) TYPICAL ROADWAY MATERIALS means concrete, asphaltic concrete, recycled asphalt, asphalt, or any other material of equivalent performance as determined by the Executive Officer, and the U.S. EPA.
 - (34) UNPAVED ROADS means any unsealed or unpaved roads, equipment paths, or travel ways that are not covered by typical roadway materials. Public unpaved roads are any unpaved roadway owned by federal, state, county, municipal or other governmental or quasi-governmental agencies. Private unpaved roads are all other unpaved roadways not defined as public.
 - (35) VISIBLE ROADWAY DUST means any sand, soil, dirt, or other solid particulate matter which is visible upon paved road surfaces and which can be removed by a vacuum sweeper or a broom sweeper under normal operating conditions.
 - (36) WIND-DRIVEN FUGITIVE DUST means visible emissions from any disturbed surface area which is generated by wind action alone.
 - (37) WIND GUST is the maximum instantaneous wind speed as measured by an anemometer.
- (d) Requirements
- (1) No person shall cause or allow the emissions of fugitive dust from any active operation, open storage pile, or disturbed surface area such that:

- (A) the dust remains visible in the atmosphere beyond the property line of the emission source; or
 - (B) the dust emission exceeds 20 percent opacity (as determined by the appropriate test method included in the Rule 403 Implementation Handbook), if the dust emission is the result of movement of a motorized vehicle.
- (2) No person shall conduct active operations without utilizing the applicable best available control measures included in Table 1 of this Rule to minimize fugitive dust emissions from each fugitive dust source type within the active operation.
- (3) No person shall cause or allow PM₁₀ levels to exceed 50 micrograms per cubic meter when determined, by simultaneous sampling, as the difference between upwind and downwind samples collected on high-volume particulate matter samplers or other U.S. EPA-approved equivalent method for PM₁₀ monitoring. If sampling is conducted, samplers shall be:
- (A) Operated, maintained, and calibrated in accordance with 40 Code of Federal Regulations (CFR), Part 50, Appendix J, or appropriate U.S. EPA-published documents for U.S. EPA-approved equivalent method(s) for PM₁₀.
 - (B) Reasonably placed upwind and downwind of key activity areas and as close to the property line as feasible, such that other sources of fugitive dust between the sampler and the property line are minimized.
- (4) No person shall allow track-out to extend 25 feet or more in cumulative length from the point of origin from an active operation. Notwithstanding the preceding, all track-out from an active operation shall be removed at the conclusion of each workday or evening shift.
- (5) No person shall conduct an active operation with a disturbed surface area of five or more acres, or with a daily import or export of 100 cubic yards or more of bulk material without utilizing at least one of the measures listed in subparagraphs (d)(5)(A) through (d)(5)(E) at each vehicle egress from the site to a paved public road.
- (A) Install a pad consisting of washed gravel (minimum-size: one inch) maintained in a clean condition to a depth of at least six inches and extending at least 30 feet wide and at least 50 feet long.

- (B) Pave the surface extending at least 100 feet and at least 20 feet wide.
 - (C) Utilize a wheel shaker/wheel spreading device consisting of raised dividers (rails, pipe, or grates) at least 24 feet long and 10 feet wide to remove bulk material from tires and vehicle undercarriages before vehicles exit the site.
 - (D) Install and utilize a wheel washing system to remove bulk material from tires and vehicle undercarriages before vehicles exit the site.
 - (E) Any other control measures approved by the Executive Officer and the U.S. EPA as equivalent to the actions specified in subparagraphs (d)(5)(A) through (d)(5)(D).
- (6) Beginning January 1, 2006, any person who operates or authorizes the operation of a confined animal facility subject to this Rule shall implement the applicable conservation management practices specified in Table 4 of this Rule.
- (e) Additional Requirements for Large Operations
- (1) Any person who conducts or authorizes the conducting of a large operation subject to this Rule shall implement the applicable actions specified in Table 2 of this Rule at all times and shall implement the applicable actions specified in Table 3 of this Rule when the applicable performance standards can not be met through use of Table 2 actions; and shall:
 - (A) submit a fully executed Large Operation Notification (Form 403 N) to the Executive Officer within 7 days of qualifying as a large operation;
 - (B) include, as part of the notification, the name(s), address(es), and phone number(s) of the person(s) responsible for the submittal, and a description of the operation(s), including a map depicting the location of the site;
 - (C) maintain daily records to document the specific dust control actions taken, maintain such records for a period of not less than three years; and make such records available to the Executive Officer upon request;

- (D) install and maintain project signage with project contact signage that meets the minimum standards of the Rule 403 Implementation Handbook, prior to initiating any earthmoving activities;
 - (E) identify a dust control supervisor that:
 - (i) is employed by or contracted with the property owner or developer;
 - (ii) is on the site or available on-site within 30 minutes during working hours;
 - (iii) has the authority to expeditiously employ sufficient dust mitigation measures to ensure compliance with all Rule requirements;
 - (iv) has completed the AQMD Fugitive Dust Control Class and has been issued a valid Certificate of Completion for the class; and
 - (F) notify the Executive Officer in writing within 30 days after the site no longer qualifies as a large operation as defined by paragraph (c)(18).
- (2) Any Large Operation Notification submitted to the Executive Officer or AQMD-approved dust control plan shall be valid for a period of one year from the date of written acceptance by the Executive Officer. Any Large Operation Notification accepted pursuant to paragraph (e)(1), excluding those submitted by aggregate-related plants and cement manufacturing facilities must be resubmitted annually by the person who conducts or authorizes the conducting of a large operation, at least 30 days prior to the expiration date, or the submittal shall no longer be valid as of the expiration date. If all fugitive dust sources and corresponding control measures or special circumstances remain identical to those identified in the previously accepted submittal or in an AQMD-approved dust control plan, the resubmittal may be a simple statement of no-change (Form 403NC).
- (f) **Compliance Schedule**
The newly amended provisions of this Rule shall become effective upon adoption. Pursuant to subdivision (e), any existing site that qualifies as a large operation will have 60 days from the date of Rule adoption to comply with the notification and recordkeeping requirements for large operations. Any Large Operation

Notification or AQMD-approved dust control plan which has been accepted prior to the date of adoption of these amendments shall remain in effect and the Large Operation Notification or AQMD-approved dust control plan annual resubmittal date shall be one year from adoption of this Rule amendment.

(g) Exemptions

(1) The provisions of this Rule shall not apply to:

- (A) Dairy farms.
- (B) Confined animal facilities provided that the combined disturbed surface area within one continuous property line is one acre or less.
- (C) Agricultural vegetative crop operations provided that the combined disturbed surface area within one continuous property line and not separated by a paved public road is 10 acres or less.
- (D) Agricultural vegetative crop operations within the South Coast Air Basin, whose combined disturbed surface area includes more than 10 acres provided that the person responsible for such operations:
 - (i) voluntarily implements the conservation management practices contained in the Rule 403 Agricultural Handbook;
 - (ii) completes and maintains the self-monitoring form documenting sufficient conservation management practices, as described in the Rule 403 Agricultural Handbook; and
 - (iii) makes the completed self-monitoring form available to the Executive Officer upon request.
- (E) Agricultural vegetative crop operations outside the South Coast Air Basin whose combined disturbed surface area includes more than 10 acres provided that the person responsible for such operations:
 - (i) voluntarily implements the conservation management practices contained in the Rule 403 Coachella Valley Agricultural Handbook; and
 - (ii) completes and maintains the self-monitoring form documenting sufficient conservation management practices, as described in the Rule 403 Coachella Valley Agricultural Handbook; and
 - (iii) makes the completed self-monitoring form available to the Executive Officer upon request.

- (F) Active operations conducted during emergency life-threatening situations, or in conjunction with any officially declared disaster or state of emergency.
 - (G) Active operations conducted by essential service utilities to provide electricity, natural gas, telephone, water and sewer during periods of service outages and emergency disruptions.
 - (H) Any contractor subsequent to the time the contract ends, provided that such contractor implemented the required control measures during the contractual period.
 - (I) Any grading contractor, for a phase of active operations, subsequent to the contractual completion of that phase of earth-moving activities, provided that the required control measures have been implemented during the entire phase of earth-moving activities, through and including five days after the final grading inspection.
 - (J) Weed abatement operations ordered by a county agricultural commissioner or any state, county, or municipal fire department, provided that:
 - (i) mowing, cutting or other similar process is used which maintains weed stubble at least three inches above the soil; and
 - (ii) any discing or similar operation which cuts into and disturbs the soil, where watering is used prior to initiation of these activities, and a determination is made by the agency issuing the weed abatement order that, due to fire hazard conditions, rocks, or other physical obstructions, it is not practical to meet the conditions specified in clause (g)(1)(H)(i). The provisions this clause shall not exempt the owner of any property from stabilizing, in accordance with paragraph (d)(2), disturbed surface areas which have been created as a result of the weed abatement actions.
 - (K) sandblasting operations.
- (2) The provisions of paragraphs (d)(1) and (d)(3) shall not apply:
- (A) When wind gusts exceed 25 miles per hour, provided that:

- (i) The required Table 3 contingency measures in this Rule are implemented for each applicable fugitive dust source type, and;
 - (ii) records are maintained in accordance with subparagraph (e)(1)(C).
 - (B) To unpaved roads, provided such roads:
 - (i) are used solely for the maintenance of wind-generating equipment; or
 - (ii) are unpaved public alleys as defined in Rule 1186; or
 - (iii) are service roads that meet all of the following criteria:
 - (a) are less than 50 feet in width at all points along the road;
 - (b) are within 25 feet of the property line; and
 - (c) have a traffic volume less than 20 vehicle-trips per day.
 - (C) To any active operation, open storage pile, or disturbed surface area for which necessary fugitive dust preventive or mitigative actions are in conflict with the federal Endangered Species Act, as determined in writing by the State or federal agency responsible for making such determinations.
- (3) The provisions of (d)(2) shall not apply to any aggregate-related plant or cement manufacturing facility that implements the applicable actions specified in Table 2 of this Rule at all times and shall implement the applicable actions specified in Table 3 of this Rule when the applicable performance standards of paragraphs (d)(1) and (d)(3) can not be met through use of Table 2 actions.
 - (4) The provisions of paragraphs (d)(1), (d)(2), and (d)(3) shall not apply to:
 - (A) Blasting operations which have been permitted by the California Division of Industrial Safety; and
 - (B) Motion picture, television, and video production activities when dust emissions are required for visual effects. In order to obtain this exemption, the Executive Officer must receive notification in writing at least 72 hours in advance of any such activity and no nuisance results from such activity.
 - (5) The provisions of paragraph (d)(3) shall not apply if the dust control actions, as specified in Table 2, are implemented on a routine basis for

each applicable fugitive dust source type. To qualify for this exemption, a person must maintain records in accordance with subparagraph (e)(1)(C).

- (6) The provisions of paragraph (d)(4) shall not apply to earth coverings of public paved roadways where such coverings are approved by a local government agency for the protection of the roadway, and where such coverings are used as roadway crossings for haul vehicles provided that such roadway is closed to through traffic and visible roadway dust is removed within one day following the cessation of activities.
- (7) The provisions of subdivision (e) shall not apply to:
 - (A) officially-designated public parks and recreational areas, including national parks, national monuments, national forests, state parks, state recreational areas, and county regional parks.
 - (B) any large operation which is required to submit a dust control plan to any city or county government which has adopted a District-approved dust control ordinance.
 - (C) any large operation subject to Rule 1158, which has an approved dust control plan pursuant to Rule 1158, provided that all sources of fugitive dust are included in the Rule 1158 plan.
- (8) The provisions of subparagraph (e)(1)(A) through (e)(1)(C) shall not apply to any large operation with an AQMD-approved fugitive dust control plan provided that there is no change to the sources and controls as identified in the AQMD-approved fugitive dust control plan.

(h) Fees

Any person conducting active operations for which the Executive Officer conducts upwind/downwind monitoring for PM₁₀ pursuant to paragraph (d)(3) shall be assessed applicable Ambient Air Analysis Fees pursuant to Rule 304.1. Applicable fees shall be waived for any facility which is exempted from paragraph (d)(3) or meets the requirements of paragraph (d)(3).

TABLE 1
BEST AVAILABLE CONTROL MEASURES
(Applicable to All Construction Activity Sources)

| Source Category | Control Measure | Guidance |
|-----------------------|---|---|
| Backfilling | 01-1 Stabilize backfill material when not actively handling; and 01-2 Stabilize backfill material during handling; and 01-3 Stabilize soil at completion of activity. | <ul style="list-style-type: none"> ✓ Mix backfill soil with water prior to moving ✓ Dedicate water truck or high capacity hose to backfilling equipment ✓ Empty loader bucket slowly so that no dust plumes are generated ✓ Minimize drop height from loader bucket |
| Clearing and grubbing | 02-1 Maintain stability of soil through pre-watering of site prior to clearing and grubbing; and 02-2 Stabilize soil during clearing and grubbing activities; and 02-3 Stabilize soil immediately after clearing and grubbing activities. | <ul style="list-style-type: none"> ✓ Maintain live perennial vegetation where possible ✓ Apply water in sufficient quantity to prevent generation of dust plumes |
| Clearing forms | 03-1 Use water spray to clear forms; or 03-2 Use sweeping and water spray to clear forms; or 03-3 Use vacuum system to clear forms. | <ul style="list-style-type: none"> ✓ Use of high pressure air to clear forms may cause exceedance of Rule requirements |
| Crushing | 04-1 Stabilize surface soils prior to operation of support equipment; and 04-2 Stabilize material after crushing. | <ul style="list-style-type: none"> ✓ Follow permit conditions for crushing equipment ✓ Pre-water material prior to loading into crusher ✓ Monitor crusher emissions opacity ✓ Apply water to crushed material to prevent dust plumes |

TABLE 1
BEST AVAILABLE CONTROL MEASURES
(Applicable to All Construction Activity Sources)

| Source Category | Control Measure | Guidance |
|--------------------------------|--|--|
| Cut and fill | 05-1 Pre-water soils prior to cut and fill activities; and 05-2 Stabilize soil during and after cut and fill activities. | <ul style="list-style-type: none"> ✓ For large sites, pre-water with sprinklers or water trucks and allow time for penetration ✓ Use water trucks/pulls to water soils to depth of cut prior to subsequent cuts |
| Demolition – mechanical/manual | 06-1 Stabilize wind erodible surfaces to reduce dust; and 06-2 Stabilize surface soil where support equipment and vehicles will operate; and 06-3 Stabilize loose soil and demolition debris; and 06-4 Comply with AQMD Rule 1403. | <ul style="list-style-type: none"> ✓ Apply water in sufficient quantities to prevent the generation of visible dust plumes |
| Disturbed soil | 07-1 Stabilize disturbed soil throughout the construction site; and 07-2 Stabilize disturbed soil between structures | <ul style="list-style-type: none"> ✓ Limit vehicular traffic and disturbances on soils where possible ✓ If interior block walls are planned, install as early as possible ✓ Apply water or a stabilizing agent in sufficient quantities to prevent the generation of visible dust plumes |
| Earth-moving activities | 08-1 Pre-apply water to depth of proposed cuts; and 08-2 Re-apply water as necessary to maintain soils in a damp condition and to ensure that visible emissions do not exceed 100 feet in any direction; and 08-3 Stabilize soils once earth-moving activities are complete. | <ul style="list-style-type: none"> ✓ Grade each project phase separately, timed to coincide with construction phase ✓ Upwind fencing can prevent material movement on site ✓ Apply water or a stabilizing agent in sufficient quantities to prevent the generation of visible dust plumes |

TABLE 1
BEST AVAILABLE CONTROL MEASURES
(Applicable to All Construction Activity Sources)

| Source Category | Control Measure | Guidance |
|---------------------------------------|--|--|
| Importing/exporting of bulk materials | <p>09-1 Stabilize material while loading to reduce fugitive dust emissions; and</p> <p>09-2 Maintain at least six inches of freeboard on haul vehicles; and</p> <p>09-3 Stabilize material while transporting to reduce fugitive dust emissions; and</p> <p>09-4 Stabilize material while unloading to reduce fugitive dust emissions; and</p> <p>09-5 Comply with Vehicle Code Section 23114.</p> | <ul style="list-style-type: none"> ✓ Use tarps or other suitable enclosures on haul trucks ✓ Check belly-dump truck seals regularly and remove any trapped rocks to prevent spillage ✓ Comply with track-out prevention/mitigation requirements ✓ Provide water while loading and unloading to reduce visible dust plumes |
| Landscaping | 10-1 Stabilize soils, materials, slopes | <ul style="list-style-type: none"> ✓ Apply water to materials to stabilize ✓ Maintain materials in a crusted condition ✓ Maintain effective cover over materials ✓ Stabilize sloping surfaces using soil binders until vegetation or ground cover can effectively stabilize the slopes ✓ Hydroseed prior to rain season |
| Road shoulder maintenance | <p>11-1 Apply water to unpaved shoulders prior to clearing; and</p> <p>11-2 Apply chemical dust suppressants and/or washed gravel to maintain a stabilized surface after completing road shoulder maintenance.</p> | <ul style="list-style-type: none"> ✓ Installation of curbing and/or paving of road shoulders can reduce recurring maintenance costs ✓ Use of chemical dust suppressants can inhibit vegetation growth and reduce future road shoulder maintenance costs |

TABLE 1
BEST AVAILABLE CONTROL MEASURES
(Applicable to All Construction Activity Sources)

| Source Category | Control Measure | Guidance |
|--|--|--|
| Screening | 12-1 Pre-water material prior to screening; and 12-2 Limit fugitive dust emissions to opacity and plume length standards; and 12-3 Stabilize material immediately after screening. | <ul style="list-style-type: none"> ✓ Dedicate water truck or high capacity hose to screening operation ✓ Drop material through the screen slowly and minimize drop height ✓ Install wind barrier with a porosity of no more than 50% upwind of screen to the height of the drop point |
| Staging areas | 13-1 Stabilize staging areas during use; and 13-2 Stabilize staging area soils at project completion. | <ul style="list-style-type: none"> ✓ Limit size of staging area ✓ Limit vehicle speeds to 15 miles per hour ✓ Limit number and size of staging area entrances/exists |
| Stockpiles/ Bulk Material Handling | 14-1 Stabilize stockpiled materials. 14-2 Stockpiles within 100 yards of off-site occupied buildings must not be greater than eight feet in height; or must have a road bladed to the top to allow water truck access or must have an operational water irrigation system that is capable of complete stockpile coverage. | <ul style="list-style-type: none"> ✓ Add or remove material from the downwind portion of the storage pile ✓ Maintain storage piles to avoid steep sides or faces |

TABLE 1
BEST AVAILABLE CONTROL MEASURES
(Applicable to All Construction Activity Sources)

| Source Category | Control Measure | Guidance |
|---|--|---|
| Traffic areas for construction activities | 15-1 Stabilize all off-road traffic and parking areas; and 15-2 Stabilize all haul routes; and 15-3 Direct construction traffic over established haul routes. | <ul style="list-style-type: none"> ✓ Apply gravel/paving to all haul routes as soon as possible to all future roadway areas ✓ Barriers can be used to ensure vehicles are only used on established parking areas/haul routes |
| Trenching | 16-1 Stabilize surface soils where trencher or excavator and support equipment will operate; and 16-2 Stabilize soils at the completion of trenching activities. | <ul style="list-style-type: none"> ✓ Pre-watering of soils prior to trenching is an effective preventive measure. For deep trenching activities, pre-trench to 18 inches soak soils via the pre-trench and resuming trenching ✓ Washing mud and soils from equipment at the conclusion of trenching activities can prevent crusting and drying of soil on equipment |
| Truck loading | 17-1 Pre-water material prior to loading; and 17-2 Ensure that freeboard exceeds six inches (CVC 23114) | <ul style="list-style-type: none"> ✓ Empty loader bucket such that no visible dust plumes are created ✓ Ensure that the loader bucket is close to the truck to minimize drop height while loading |
| Turf Overseeding | 18-1 Apply sufficient water immediately prior to conducting turf vacuuming activities to meet opacity and plume length standards; and 18-2 Cover haul vehicles prior to exiting the site. | <ul style="list-style-type: none"> ✓ Haul waste material immediately off-site |

TABLE 1
BEST AVAILABLE CONTROL MEASURES
(Applicable to All Construction Activity Sources)

| Source Category | Control Measure | Guidance |
|----------------------------|--|---|
| Unpaved roads/parking lots | 19-1 Stabilize soils to meet the applicable performance standards; and 19-2 Limit vehicular travel to established unpaved roads (haul routes) and unpaved parking lots. | ✓ Restricting vehicular access to established unpaved travel paths and parking lots can reduce stabilization requirements |
| Vacant land | 20-1 In instances where vacant lots are 0.10 acre or larger and have a cumulative area of 500 square feet or more that are driven over and/or used by motor vehicles and/or off-road vehicles, prevent motor vehicle and/or off-road vehicle trespassing, parking and/or access by installing barriers, curbs, fences, gates, posts, signs, shrubs, trees or other effective control measures. | |

Table 2
DUST CONTROL MEASURES FOR LARGE OPERATIONS

| FUGITIVE DUST SOURCE CATEGORY | CONTROL ACTIONS |
|--|---|
| Earth-moving (except construction cutting and filling areas, and mining operations) | <p>(1a) Maintain soil moisture content at a minimum of 12 percent, as determined by ASTM method D-2216, or other equivalent method approved by the Executive Officer, the California Air Resources Board, and the U.S. EPA. Two soil moisture evaluations must be conducted during the first three hours of active operations during a calendar day, and two such evaluations each subsequent four-hour period of active operations; OR</p> <p>(1a-1) For any earth-moving which is more than 100 feet from all property lines, conduct watering as necessary to prevent visible dust emissions from exceeding 100 feet in length in any direction.</p> |
| Earth-moving: Construction fill areas: | <p>(1b) Maintain soil moisture content at a minimum of 12 percent, as determined by ASTM method D-2216, or other equivalent method approved by the Executive Officer, the California Air Resources Board, and the U.S. EPA. For areas which have an optimum moisture content for compaction of less than 12 percent, as determined by ASTM Method 1557 or other equivalent method approved by the Executive Officer and the California Air Resources Board and the U.S. EPA, complete the compaction process as expeditiously as possible after achieving at least 70 percent of the optimum soil moisture content. Two soil moisture evaluations must be conducted during the first three hours of active operations during a calendar day, and two such evaluations during each subsequent four-hour period of active operations.</p> |

Table 2 (Continued)

| FUGITIVE DUST SOURCE CATEGORY | CONTROL ACTIONS |
|--|--|
| Earth-moving: Construction cut areas and mining operations: | (1c) Conduct watering as necessary to prevent visible emissions from extending more than 100 feet beyond the active cut or mining area unless the area is inaccessible to watering vehicles due to slope conditions or other safety factors. |
| Disturbed surface areas (except completed grading areas) | (2a/b) Apply dust suppression in sufficient quantity and frequency to maintain a stabilized surface. Any areas which cannot be stabilized, as evidenced by wind driven fugitive dust must have an application of water at least twice per day to at least 80 percent of the unstabilized area. |
| Disturbed surface areas: Completed grading areas | (2c) Apply chemical stabilizers within five working days of grading completion; OR (2d) Take actions (3a) or (3c) specified for inactive disturbed surface areas. |
| Inactive disturbed surface areas | (3a) Apply water to at least 80 percent of all inactive disturbed surface areas on a daily basis when there is evidence of wind driven fugitive dust, excluding any areas which are inaccessible to watering vehicles due to excessive slope or other safety conditions; OR (3b) Apply dust suppressants in sufficient quantity and frequency to maintain a stabilized surface; OR (3c) Establish a vegetative ground cover within 21 days after active operations have ceased. Ground cover must be of sufficient density to expose less than 30 percent of unstabilized ground within 90 days of planting, and at all times thereafter; OR (3d) Utilize any combination of control actions (3a), (3b), and (3c) such that, in total, these actions apply to all inactive disturbed surface areas. |

Table 2 (Continued)

| FUGITIVE DUST SOURCE CATEGORY | CONTROL ACTIONS |
|--------------------------------------|---|
| Unpaved Roads | <p>(4a) Water all roads used for any vehicular traffic at least once per every two hours of active operations [3 times per normal 8 hour work day]; OR</p> <p>(4b) Water all roads used for any vehicular traffic once daily and restrict vehicle speeds to 15 miles per hour; OR</p> <p>(4c) Apply a chemical stabilizer to all unpaved road surfaces in sufficient quantity and frequency to maintain a stabilized surface.</p> |
| Open storage piles | <p>(5a) Apply chemical stabilizers; OR</p> <p>(5b) Apply water to at least 80 percent of the surface area of all open storage piles on a daily basis when there is evidence of wind driven fugitive dust; OR</p> <p>(5c) Install temporary coverings; OR</p> <p>(5d) Install a three-sided enclosure with walls with no more than 50 percent porosity which extend, at a minimum, to the top of the pile. This option may only be used at aggregate-related plants or at cement manufacturing facilities.</p> |
| All Categories | <p>(6a) Any other control measures approved by the Executive Officer and the U.S. EPA as equivalent to the methods specified in Table 2 may be used.</p> |

TABLE 3
CONTINGENCY CONTROL MEASURES FOR LARGE OPERATIONS

| FUGITIVE DUST SOURCE CATEGORY | CONTROL MEASURES |
|--------------------------------------|---|
| Earth-moving | (1A) Cease all active operations; OR (2A) Apply water to soil not more than 15 minutes prior to moving such soil. |
| Disturbed surface areas | (0B) On the last day of active operations prior to a weekend, holiday, or any other period when active operations will not occur for not more than four consecutive days: apply water with a mixture of chemical stabilizer diluted to not less than 1/20 of the concentration required to maintain a stabilized surface for a period of six months; OR (1B) Apply chemical stabilizers prior to wind event; OR (2B) Apply water to all unstabilized disturbed areas 3 times per day. If there is any evidence of wind driven fugitive dust, watering frequency is increased to a minimum of four times per day; OR (3B) Take the actions specified in Table 2, Item (3c); OR (4B) Utilize any combination of control actions (1B), (2B), and (3B) such that, in total, these actions apply to all disturbed surface areas. |
| Unpaved roads | (1C) Apply chemical stabilizers prior to wind event; OR (2C) Apply water twice per hour during active operation; OR (3C) Stop all vehicular traffic. |
| Open storage piles | (1D) Apply water twice per hour; OR (2D) Install temporary coverings. |
| Paved road track-out | (1E) Cover all haul vehicles; OR (2E) Comply with the vehicle freeboard requirements of Section 23114 of the California Vehicle Code for both public and private roads. |
| All Categories | (1F) Any other control measures approved by the Executive Officer and the U.S. EPA as equivalent to the methods specified in Table 3 may be used. |

Table 4
(Conservation Management Practices for Confined Animal Facilities)

| SOURCE CATEGORY | CONSERVATION MANAGEMENT PRACTICES |
|--|--|
| Manure Handling (Only applicable to Commercial Poultry Ranches) | (1a) Cover manure prior to removing material off-site; AND (1b) Spread the manure before 11:00 AM and when wind conditions are less than 25 miles per hour; AND (1c) Utilize coning and drying manure management by removing manure at laying hen houses at least twice per year and maintain a base of no less than 6 inches of dry manure after clean out; or in lieu of complying with conservation management practice (1c), comply with conservation management practice (1d). (1d) Utilize frequent manure removal by removing the manure from laying hen houses at least every seven days and immediately thin bed dry the material. |
| Feedstock Handling | (2a) Utilize a sock or boot on the feed truck auger when filling feed storage bins. |
| Disturbed Surfaces | (3a) Maintain at least 70 percent vegetative cover on vacant portions of the facility; OR (3b) Utilize conservation tillage practices to manage the amount, orientation and distribution of crop and other plant residues on the soil surface year-round, while growing crops (if applicable) in narrow slots or tilled strips; OR (3c) Apply dust suppressants in sufficient concentrations and frequencies to maintain a stabilized surface. |
| Unpaved Roads | (4a) Restrict access to private unpaved roads either through signage or physical access restrictions and control vehicular speeds to no more than 15 miles per hour through worker notifications, signage, or any other necessary means; OR (4b) Cover frequently traveled unpaved roads with low silt content material (i.e., asphalt, concrete, recycled road base, or gravel to a minimum depth of four inches); OR (4c) Treat unpaved roads with water, mulch, chemical dust suppressants or other cover to maintain a stabilized surface. |
| Equipment Parking Areas | (5a) Apply dust suppressants in sufficient quantity and frequency to maintain a stabilized surface; OR (5b) Apply material with low silt content (i.e., asphalt, concrete, recycled road base, or gravel to a depth of four inches). |

Appendix H

Noise Calculations

Construction Noise

UNMITIGATED

| Reference Noise Distance | | 50 | | | | | |
|----------------------------|-----------------|--------------------|---------------------|--|-----------------------------|------------------------|----------|
| Reference Noise Level | | 89 | | | | | |
| Sensitive Receptor | Distance (feet) | Mitigation Factors | Attenuation Factors | Maximum Construction Noise Level (dBA) | Existing Ambient (dBA, Leq) | New Ambient (dBA, Leq) | Increase |
| Park Row Residences | 600 | | 0.0 | 62.0 | 58.4 | 63.6 | 5.2 |
| Solano Elementary | 925 | | 0.0 | 57.3 | 60.8 | 62.4 | 1.6 |
| Elysian Recreation Area | 1,200 | | 10.0 | 44.5 | 41.7 | 46.3 | 4.6 |
| Riverside Drive Residences | 70 | | 0.0 | 86.1 | 65.2 | 86.1 | 20.9 |
| | 0 | | 0.0 | 89.0 | 0.0 | 89.0 | 89.0 |
| | 0 | | 0.0 | 89.0 | 0.0 | 89.0 | 89.0 |
| | 0 | | 0.0 | 89.0 | 0.0 | 89.0 | 89.0 |
| | 0 | | 0.0 | 89.0 | 0.0 | 89.0 | 89.0 |
| | 0 | | 0.0 | 89.0 | 0.0 | 89.0 | 89.0 |
| | 0 | | 0.0 | 89.0 | 0.0 | 89.0 | 89.0 |
| | 0 | | 0.0 | 89.0 | 0.0 | 89.0 | 89.0 |
| | 0 | | 0.0 | 89.0 | 0.0 | 89.0 | 89.0 |
| | 0 | | 0.0 | 89.0 | 0.0 | 89.0 | 89.0 |
| | 0 | | 0.0 | 89.0 | 0.0 | 89.0 | 89.0 |
| | 0 | | 0.0 | 89.0 | 0.0 | 89.0 | 89.0 |
| | 0 | | 0.0 | 89.0 | 0.0 | 89.0 | 89.0 |

A 10 dB reduction was given to Receptor 3 to account for local topography. There is a large hill between the receptor and the construction site, with no line of site.

Construction Noise

MITIGATED

| Reference Noise Distance | | 50 | | | | | |
|----------------------------|-----------------|--------------------|---------------------|--|-----------------------------|------------------------|----------|
| Reference Noise Level | | 89 | | | | | |
| Sensitive Receptor | Distance (feet) | Mitigation Factors | Attenuation Factors | Maximum Construction Noise Level (dBA) | Existing Ambient (dBA, Leq) | New Ambient (dBA, Leq) | Increase |
| Park Row Residences | 600 | 3 | 0.0 | 59.0 | 58.4 | 61.7 | 3.3 |
| Solano Elementary | 925 | 3 | 0.0 | 54.3 | 60.8 | 61.7 | 0.9 |
| Elysian Recreation Area | 1,200 | 3 | 10.0 | 41.5 | 41.7 | 44.6 | 2.9 |
| Riverside Drive Residences | 70 | 18 | 0.0 | 68.1 | 65.2 | 69.9 | 4.7 |
| 0 | - | | 0.0 | 89.0 | 0.0 | 89.0 | 89.0 |
| 0 | - | | 0.0 | 89.0 | 0.0 | 89.0 | 89.0 |
| 0 | - | | 0.0 | 89.0 | 0.0 | 89.0 | 89.0 |
| 0 | - | | 0.0 | 89.0 | 0.0 | 89.0 | 89.0 |
| 0 | - | | 0.0 | 89.0 | 0.0 | 89.0 | 89.0 |
| 0 | - | | 0.0 | 89.0 | 0.0 | 89.0 | 89.0 |
| 0 | - | | 0.0 | 89.0 | 0.0 | 89.0 | 89.0 |
| 0 | - | | 0.0 | 89.0 | 0.0 | 89.0 | 89.0 |
| 0 | - | | 0.0 | 89.0 | 0.0 | 89.0 | 89.0 |
| 0 | - | | 0.0 | 89.0 | 0.0 | 89.0 | 89.0 |
| 0 | - | | 0.0 | 89.0 | 0.0 | 89.0 | 89.0 |

A 15 dB reduction was given for 15 dB sound walls.
 A 3 dB reduction was given for residential mufflers.

Athletic Field Noise

UNMITIGATED

| Reference Noise Distance | | 50 | | | | | |
|--|-----------------|--------------------|---------------------|--|-----------------------------|------------------------|----------|
| Reference Noise Level | | 74 | | | | | |
| Sensitive Receptor | Distance (feet) | Mitigation Factors | Attenuation Factors | Maximum Construction Noise Level (dBA) | Existing Ambient (dBA, Leq) | New Ambient (dBA, Leq) | Increase |
| Park Row Residences | 600 | | 0.0 | 47.0 | 58.4 | 58.7 | 0.3 |
| Solano Elementary | 925 | | 0.0 | 42.3 | 60.8 | 60.9 | 0.1 |
| Elysian Recreation Area | 1,200 | | 10.0 | 29.5 | 41.7 | 42.0 | 0.3 |
| Riverside Drive Residences | 1,600 | | 0.0 | 43.9 | 65.2 | 65.2 | 0.0 |
| Landa Drive Residences | 6,500 | | 0.0 | 21.2 | 60.8 | 60.8 | 0.0 |
| Riverside Drive Residences near I-5/Eads Ramps | 5,500 | | 0.0 | 33.2 | 56.8 | 56.8 | 0.0 |
| 0 | - | | 0.0 | 74.0 | 0.0 | 74.0 | 74.0 |
| 0 | - | | 0.0 | 74.0 | 0.0 | 74.0 | 74.0 |
| 0 | - | | 0.0 | 74.0 | 0.0 | 74.0 | 74.0 |
| 0 | - | | 0.0 | 74.0 | 0.0 | 74.0 | 74.0 |
| 0 | - | | 0.0 | 74.0 | 0.0 | 74.0 | 74.0 |
| 0 | - | | 0.0 | 74.0 | 0.0 | 74.0 | 74.0 |
| 0 | - | | 0.0 | 74.0 | 0.0 | 74.0 | 74.0 |
| 0 | - | | 0.0 | 74.0 | 0.0 | 74.0 | 74.0 |
| 0 | - | | 0.0 | 74.0 | 0.0 | 74.0 | 74.0 |
| 0 | - | | 0.0 | 74.0 | 0.0 | 74.0 | 74.0 |
| 0 | - | | 0.0 | 74.0 | 0.0 | 74.0 | 74.0 |

A 10 dB reduction was given to Receptor 3 to account for local topography. There is a large hill between the receptor and the construction site, with no line of site.

RESERVOIR VIBRATION OVER DISTANCE

Ref= Reference vibration level (PPV)

RefD= Reference distance for Reference vibration level (Feet)

Vibration PPV

| | | |
|---------------|--------------|---|
| Ref= | 0.089 | Based on type of equipment |
| RefD= | 25 | |
| D= | 600 | Distance from equipment to sensitive receptor |
| Equip= | 0.001 | |

Annoyance VdB

| | | |
|---------------|-----------|---|
| Ref= | 87 | Based on type of equipment |
| RefD= | 25 | |
| D= | 90 | Distance from equipment to sensitive receptor |
| Equip= | 76 | |

RefD usually equals 25 feet

OUTDOOR NOISE

70 @ 50 feet

PARKING NOISE

58.1 @ 50 feet

LOADING NOISE

79 @ 50 feet

INLET LINE VIBRATION OVER DISTANCE

Ref= Reference vibration level (PPV)

RefD= Reference distance for Reference vibration level (Feet)

Vibration PPV

| | | |
|---------------|--------------|---|
| Ref= | 0.089 | Based on type of equipment |
| RefD= | 25 | |
| D= | 100 | Distance from equipment to sensitive receptor |
| Equip= | 0.011 | |

Annoyance VdB

| | | |
|---------------|-----------|---|
| Ref= | 87 | Based on type of equipment |
| RefD= | 25 | |
| D= | 90 | Distance from equipment to sensitive receptor |
| Equip= | 76 | |

RefD usually equals 25 feet

OUTDOOR NOISE

70 @ 50 feet

PARKING NOISE

58.1 @ 50 feet

LOADING NOISE

79 @ 50 feet

Parking Noise

UNMITIGATED

| Reference Noise Distance | 50 | | | | | |
|----------------------------|-----------------|---------------------|--|-----------------------------|------------------------|----------|
| Reference Noise Level | 58.1 | | | | | |
| Sensitive Receptor | Distance (feet) | Attenuation Factors | Maximum Construction Noise Level (dBA) | Existing Ambient (dBA, Leq) | New Ambient (dBA, Leq) | Increase |
| Park Row Residences | 600 | 0 | 31.1 | 58.4 | 58.4 | 0.0 |
| Solano Elementary | 925 | 0 | 26.4 | 41.7 | 41.8 | 0.1 |
| Elysian Recreation Area | 1,200 | 10 | 13.6 | 60.8 | 60.8 | 0.0 |
| Riverside Drive Residences | 2,000 | 0 | 26.1 | 65.2 | 65.2 | 0.0 |
| | | | 58.1 | 0.0 | 58.1 | 58.1 |
| | | | 58.1 | 0.0 | 58.1 | 58.1 |
| | - | | 58.1 | 0.0 | 58.1 | 58.1 |
| | - | | 58.1 | 0.0 | 58.1 | 58.1 |
| 0 | - | | 58.1 | 0.0 | 58.1 | 58.1 |
| 0 | | | 58.1 | 0.0 | 58.1 | 58.1 |
| 0 | | | 58.1 | 0.0 | 58.1 | 58.1 |
| 0 | | | 58.1 | 0.0 | 58.1 | 58.1 |
| 0 | | | 58.1 | 0.0 | 58.1 | 58.1 |
| 0 | | | 58.1 | 0.0 | 58.1 | 58.1 |
| 0 | | | 58.1 | 0.0 | 58.1 | 58.1 |
| 0 | | | 58.1 | 0.0 | 58.1 | 58.1 |
| 0 | | | 58.1 | 0.0 | 58.1 | 58.1 |
| 0 | | | 58.1 | 0.0 | 58.1 | 58.1 |
| 0 | | | | 0.0 | | |

Mobile Noise

Existing 2010

| ROAD SEGMENT | | TOT. # VEH. | EQUIVALENT LANE DISTANCE | | | VEHICLE TYPE % | | | | | | |
|---------------|--------------|----------------|--------------------------|----|----------|----------------|------|---------|----|---------|----|----|
| from: | to: | | D1 | D2 | Eq. Dis. | Auto % | Auto | MT % | MT | HT % | HT | |
| Stadium | Landa | Elysian Park | 1259 | 6 | 56 | 18 | 91 | 1145 | 6 | 76 | 3 | 38 |
| Stadium | Elysian Park | Academy | 1359 | 8 | 60 | 22 | 91 | 1236 | 6 | 82 | 3 | 41 |
| Academy | Boylston | Dodger Stadium | 330 | 6 | 56 | 18 | 91 | 300 | 6 | 20 | 3 | 10 |
| Academy | Academy | Solano Canyon | 350 | 10 | 48 | 22 | 91 | 318 | 6 | 21 | 3 | 10 |
| Solano Canyon | Academy | Elysian Park | 59 | 12 | 22 | 16 | 91 | 53 | 6 | 4 | 3 | 2 |
| Park Row | Elysian Park | I-110 | 74 | 12 | 20 | 15 | 91 | 67 | 6 | 4 | 3 | 2 |
| Riverside | Gail | Eads | 1778 | 6 | 36 | 15 | 91 | 1618 | 6 | 107 | 3 | 53 |
| Riverside | Oros | I-5 | 1388 | 6 | 42 | 16 | 91 | 1263 | 6 | 83 | 3 | 42 |

2015 No Project

| ROAD SEGMENT | | TOT. # VEH. | EQUIVALENT LANE DISTANCE | | | VEHICLE TYPE % | | | | | | |
|---------------|--------------|----------------|--------------------------|----|----------|----------------|------|---------|----|---------|----|----|
| from: | to: | | D1 | D2 | Eq. Dis. | Auto % | Auto | MT % | MT | HT % | HT | |
| Stadium | Landa | Elysian Park | 1575 | 6 | 56 | 18 | 91 | 1433 | 6 | 94 | 3 | 47 |
| Stadium | Elysian Park | Academy | 1641 | 8 | 60 | 22 | 91 | 1494 | 6 | 98 | 3 | 49 |
| Academy | Boylston | Dodger Stadium | 516 | 6 | 56 | 18 | 91 | 469 | 6 | 31 | 3 | 15 |
| Academy | Academy | Solano Canyon | 390 | 10 | 48 | 22 | 91 | 355 | 6 | 23 | 3 | 12 |
| Solano Canyon | Academy | Elysian Park | 59 | 12 | 22 | 16 | 91 | 53 | 6 | 4 | 3 | 2 |
| Park Row | Elysian Park | I-110 | 74 | 12 | 20 | 15 | 91 | 67 | 6 | 4 | 3 | 2 |
| Riverside | Gail | Eads | 2032 | 6 | 36 | 15 | 91 | 1849 | 6 | 122 | 3 | 61 |
| Riverside | Oros | I-5 | 1764 | 6 | 42 | 16 | 91 | 1605 | 6 | 106 | 3 | 53 |

2019 No Project

| ROAD SEGMENT | | TOT. # VEH. | EQUIVALENT LANE DISTANCE | | | VEHICLE TYPE % | | | | | | |
|---------------|--------------|----------------|--------------------------|----|----------|----------------|------|---------|----|---------|----|----|
| from: | to: | | D1 | D2 | Eq. Dis. | Auto % | Auto | MT % | MT | HT % | HT | |
| Riverside | Elmgrove | Harwood | 1763 | 6 | 36 | 15 | 91 | 1604 | 6 | 106 | 3 | 53 |
| Stadium | Landa | Elysian Park | 1629 | 6 | 56 | 18 | 91 | 1482 | 6 | 98 | 3 | 49 |
| Stadium | Elysian Park | Academy | 1699 | 8 | 60 | 22 | 91 | 1546 | 6 | 102 | 3 | 51 |
| Academy | Boylston | Dodger Stadium | 530 | 6 | 56 | 18 | 91 | 482 | 6 | 32 | 3 | 16 |
| Academy | Academy | Solano Canyon | 405 | 10 | 48 | 22 | 91 | 368 | 6 | 24 | 3 | 12 |
| Solano Canyon | Academy | Elysian Park | 59 | 12 | 22 | 16 | 91 | 53 | 6 | 4 | 3 | 2 |
| Park Row | Elysian Park | I-110 | 74 | 12 | 20 | 15 | 91 | 67 | 6 | 4 | 3 | 2 |
| Riverside | Gail | Eads | 2108 | 6 | 36 | 15 | 91 | 1918 | 6 | 126 | 3 | 63 |
| Riverside | Oros | I-5 | 1823 | 6 | 42 | 16 | 91 | 1659 | 6 | 109 | 3 | 55 |

With Project Construction

| ROAD SEGMENT | | TOT. # VEH. | EQUIVALENT LANE DISTANCE | | | VEHICLE TYPE % | | | | | | |
|--------------|-------|----------------|--------------------------|----|----------|----------------|------|---------|-----|---------|-----|----|
| from: | to: | | D1 | D2 | Eq. Dis. | Auto % | Auto | MT % | MT | HT % | HT | |
| Stadium | Landa | Elysian Park | 1706 | 6 | 56 | 18 | 89.5 | 1527 | 5.7 | 98 | 4.7 | 81 |

| | | | | | | | | | | | | |
|---------------|--------------|----------------|------|----|----|----|------|------|-----|-----|------|----|
| Stadium | Elysian Park | Academy | 1776 | 8 | 60 | 22 | 89.6 | 1591 | 5.7 | 102 | 4.7 | 83 |
| Academy | Boylston | Dodger Stadium | 607 | 6 | 56 | 18 | 86.9 | 527 | 5.2 | 32 | 7.9 | 48 |
| Academy | Academy | Solano Canyon | 482 | 10 | 48 | 22 | 85.8 | 413 | 5.0 | 24 | 9.2 | 44 |
| Solano Canyon | Academy | Elysian Park | 136 | 12 | 22 | 16 | 72.5 | 98 | 2.6 | 4 | 24.9 | 34 |
| Park Row | Elysian Park | I-110 | 151 | 12 | 20 | 15 | 74.4 | 112 | 2.9 | 4 | 22.7 | 34 |
| Riverside | Gail | Eads | 2185 | 6 | 36 | 15 | 89.9 | 1963 | 5.8 | 126 | 4.4 | 95 |
| Riverside | Oros | I-5 | 1837 | 6 | 42 | 16 | 90.9 | 1669 | 6.0 | 109 | 3.2 | 59 |

With Floating Cover Construction

| ROAD SEGMENT | | | TOT. # VEH. | EQUIVALENT LANE DISTANCE | | | VEHICLE TYPE % | | | | | |
|---------------|--------------|----------------|----------------|--------------------------|----|----------|----------------|------|---------|-----|---------|----|
| from: | to: | | | D1 | D2 | Eq. Dis. | Auto % | Auto | MT % | MT | HT % | HT |
| Stadium | Landa | Elysian Park | 1655 | 6 | 56 | 18 | 91.0 | 1505 | 5.7 | 94 | 3.3 | 55 |
| Stadium | Elysian Park | Academy | 1721 | 8 | 60 | 22 | 91.0 | 1566 | 5.7 | 98 | 3.3 | 57 |
| Academy | Boylston | Dodger Stadium | 596 | 6 | 56 | 18 | 90.9 | 541 | 5.2 | 31 | 3.9 | 23 |
| Academy | Academy | Solano Canyon | 470 | 10 | 48 | 22 | 90.8 | 427 | 5.0 | 23 | 4.2 | 20 |
| Solano Canyon | Academy | Elysian Park | 139 | 12 | 22 | 16 | 90.4 | 125 | 2.5 | 4 | 7.0 | 10 |
| Park Row | Elysian Park | I-110 | 154 | 12 | 20 | 15 | 90.5 | 139 | 2.9 | 4 | 6.6 | 10 |
| Riverside | Gail | Eads | 2112 | 6 | 36 | 15 | 91.0 | 1921 | 5.8 | 122 | 3.3 | 69 |
| Riverside | Oros | I-5 | 1778 | 6 | 42 | 16 | 90.8 | 1615 | 6.0 | 106 | 3.2 | 57 |

With Aluminum Cover Construction

| ROAD SEGMENT | | | TOT. # VEH. | EQUIVALENT LANE DISTANCE | | | VEHICLE TYPE % | | | | | |
|---------------|--------------|----------------|----------------|--------------------------|----|----------|----------------|------|---------|-----|---------|----|
| from: | to: | | | D1 | D2 | Eq. Dis. | Auto % | Auto | MT % | MT | HT % | HT |
| Stadium | Landa | Elysian Park | 1659 | 6 | 56 | 18 | 90.7 | 1505 | 5.7 | 94 | 3.6 | 59 |
| Stadium | Elysian Park | Academy | 1725 | 8 | 60 | 22 | 90.7 | 1566 | 5.7 | 98 | 3.5 | 61 |
| Academy | Boylston | Dodger Stadium | 600 | 6 | 56 | 18 | 90.3 | 541 | 5.2 | 31 | 4.6 | 27 |
| Academy | Academy | Solano Canyon | 474 | 10 | 48 | 22 | 90.1 | 427 | 4.9 | 23 | 5.0 | 24 |
| Solano Canyon | Academy | Elysian Park | 143 | 12 | 22 | 16 | 87.9 | 125 | 2.5 | 4 | 9.7 | 14 |
| Park Row | Elysian Park | I-110 | 158 | 12 | 20 | 15 | 88.2 | 139 | 2.8 | 4 | 9.0 | 14 |
| Riverside | Gail | Eads | 2116 | 6 | 36 | 15 | 90.8 | 1921 | 5.8 | 122 | 3.4 | 73 |
| Riverside | Oros | I-5 | 1778 | 6 | 42 | 16 | 90.8 | 1615 | 6.0 | 106 | 3.2 | 57 |

Operations

| ROAD SEGMENT | | | TOT. # VEH. | EQUIVALENT LANE DISTANCE | | | VEHICLE TYPE % | | | | | |
|---------------|--------------|----------------|----------------|--------------------------|----|----------|----------------|------|---------|-----|---------|----|
| from: | to: | | | D1 | D2 | Eq. Dis. | Auto % | Auto | MT % | MT | HT % | HT |
| Riverside | Elmgrove | Harwood | 1951 | 6 | 36 | 15 | 91.0 | 1776 | 6.0 | 117 | 3.0 | 59 |
| Stadium | Landa | Elysian Park | 1817 | 6 | 56 | 18 | 91.0 | 1653 | 6.0 | 109 | 3.0 | 54 |
| Stadium | Elysian Park | Academy | 1887 | 8 | 60 | 22 | 91.0 | 1717 | 6.0 | 113 | 3.0 | 57 |
| Academy | Boylston | Dodger Stadium | 718 | 6 | 56 | 18 | 91.0 | 653 | 6.0 | 43 | 3.0 | 22 |
| Academy | Academy | Solano Canyon | 593 | 10 | 48 | 22 | 91.0 | 539 | 6.0 | 36 | 3.0 | 18 |
| Solano Canyon | Academy | Elysian Park | 247 | 12 | 22 | 16 | 91.0 | 224 | 6.0 | 15 | 3.0 | 7 |
| Park Row | Elysian Park | I-110 | 262 | 12 | 20 | 15 | 91.0 | 238 | 6.0 | 16 | 3.0 | 8 |
| Riverside | Gail | Eads | 2296 | 6 | 36 | 15 | 91.0 | 2089 | 6.0 | 138 | 3.0 | 69 |
| Riverside | Oros | I-5 | 2011 | 6 | 42 | 16 | 91.0 | 1830 | 6.0 | 121 | 3.0 | 60 |

2010 Existing Academy at Solano
* * * * CASE INFORMATION * * * *

* * * * Results calculated with TNM Version 2.5 * * * *

2010 Existing Conditions Academy at Solano

* * * * TRAFFIC VOLUME/SPEED INFORMATION * * * *

| | |
|-----------------------------------|-------|
| Automobile volume (v/h): | 318.0 |
| Average automobile speed (mph): | 25.0 |
| Medium truck volume (v/h): | 21.0 |
| Average medium truck speed (mph): | 25.0 |
| Heavy truck volume (v/h): | 10.0 |
| Average heavy truck speed (mph): | 25.0 |
| Bus volume (v/h): | 0.0 |
| Average bus speed (mph): | 0.0 |
| Motorcycle volume (v/h): | 0.0 |
| Average Motorcycle speed (mph): | 0.0 |

* * * * TERRAIN SURFACE INFORMATION * * * *

Terrain surface: hard

* * * * RECEIVER INFORMATION * * * *

DESCRIPTION OF RECEIVER # 1

Worst Case Receptor

| | |
|---|------|
| Distance from center of 12-ft wide, single lane roadway (ft): | 32.8 |
| A-weighted Hourly Equivalent Sound Level without Barrier (dBA): | 61.3 |

2010 Existing Conditions Academy at Dodger
* * * * CASE INFORMATION * * * *

* * * * Results calculated with TNM Version 2.5 * * * *

2010 Existing Conditions Academy at Dodger

* * * * TRAFFIC VOLUME/SPEED INFORMATION * * * *

| | |
|-----------------------------------|-------|
| Automobile volume (v/h): | 300.0 |
| Average automobile speed (mph): | 25.0 |
| Medium truck volume (v/h): | 20.0 |
| Average medium truck speed (mph): | 25.0 |
| Heavy truck volume (v/h): | 10.0 |
| Average heavy truck speed (mph): | 25.0 |
| Bus volume (v/h): | 0.0 |
| Average bus speed (mph): | 0.0 |
| Motorcycle volume (v/h): | 0.0 |
| Average Motorcycle speed (mph): | 0.0 |

* * * * TERRAIN SURFACE INFORMATION * * * *

Terrain surface: hard

* * * * RECEIVER INFORMATION * * * *

DESCRIPTION OF RECEIVER # 1

Worst Case Receptor

| | |
|---|------|
| Distance from center of 12-ft wide, single lane roadway (ft): | 32.8 |
| A-weighted Hourly Equivalent Sound Level without Barrier (dBA): | 61.2 |

2010 Existing Park Row
* * * * CASE INFORMATION * * * *

* * * * Results calculated with TNM Version 2.5 * * * *

2010 Existing Conditions

* * * * TRAFFIC VOLUME/SPEED INFORMATION * * * *

| | |
|-----------------------------------|------|
| Automobile volume (v/h): | 67.0 |
| Average automobile speed (mph): | 25.0 |
| Medium truck volume (v/h): | 4.0 |
| Average medium truck speed (mph): | 25.0 |
| Heavy truck volume (v/h): | 2.0 |
| Average heavy truck speed (mph): | 25.0 |
| Bus volume (v/h): | 0.0 |
| Average bus speed (mph): | 0.0 |
| Motorcycle volume (v/h): | 0.0 |
| Average Motorcycle speed (mph): | 0.0 |

* * * * TERRAIN SURFACE INFORMATION * * * *

Terrain surface: hard

* * * * RECEIVER INFORMATION * * * *

DESCRIPTION OF RECEIVER # 1

Worst Case Receptor

| | |
|---|------|
| Distance from center of 12-ft wide, single lane roadway (ft): | 32.8 |
| A-weighted Hourly Equivalent Sound Level without Barrier (dBA): | 54.4 |

2010 Existing Riverside
* * * * CASE INFORMATION * * * *

* * * * Results calculated with TNM Version 2.5 * * * *

2010 Existing Riverside at Eads

* * * * TRAFFIC VOLUME/SPEED INFORMATION * * * *

| | |
|-----------------------------------|--------|
| Automobile volume (v/h): | 1618.0 |
| Average automobile speed (mph): | 25.0 |
| Medium truck volume (v/h): | 107.0 |
| Average medium truck speed (mph): | 25.0 |
| Heavy truck volume (v/h): | 53.0 |
| Average heavy truck speed (mph): | 25.0 |
| Bus volume (v/h): | 0.0 |
| Average bus speed (mph): | 0.0 |
| Motorcycle volume (v/h): | 0.0 |
| Average Motorcycle speed (mph): | 0.0 |

* * * * TERRAIN SURFACE INFORMATION * * * *

Terrain surface: hard

* * * * RECEIVER INFORMATION * * * *

DESCRIPTION OF RECEIVER # 1

Worst Case Receptor

| | |
|---|------|
| Distance from center of 12-ft wide, single lane roadway (ft): | 32.8 |
| A-weighted Hourly Equivalent Sound Level without Barrier (dBA): | 68.5 |

2010 Existing Riverside at Harwood
* * * * CASE INFORMATION * * * *

* * * * Results calculated with TNM Version 2.5 * * * *

2010 Existing Riverside at Harwood

* * * * TRAFFIC VOLUME/SPEED INFORMATION * * * *

| | |
|-----------------------------------|--------|
| Automobile volume (v/h): | 1386.0 |
| Average automobile speed (mph): | 25.0 |
| Medium truck volume (v/h): | 91.0 |
| Average medium truck speed (mph): | 25.0 |
| Heavy truck volume (v/h): | 46.0 |
| Average heavy truck speed (mph): | 25.0 |
| Bus volume (v/h): | 0.0 |
| Average bus speed (mph): | 0.0 |
| Motorcycle volume (v/h): | 0.0 |
| Average Motorcycle speed (mph): | 0.0 |

* * * * TERRAIN SURFACE INFORMATION * * * *

Terrain surface: hard

* * * * RECEIVER INFORMATION * * * *

DESCRIPTION OF RECEIVER # 1

Worst Case Receptor

| | |
|---|------|
| Distance from center of 12-ft wide, single lane roadway (ft): | 32.8 |
| A-weighted Hourly Equivalent Sound Level without Barrier (dBA): | 67.8 |

2010 Existing Riverside at I5
* * * * CASE INFORMATION * * * *

* * * * Results calculated with TNM Version 2.5 * * * *

2010 Existing Riverside at I5

* * * * TRAFFIC VOLUME/SPEED INFORMATION * * * *

| | |
|-----------------------------------|--------|
| Automobile volume (v/h): | 1263.0 |
| Average automobile speed (mph): | 25.0 |
| Medium truck volume (v/h): | 83.0 |
| Average medium truck speed (mph): | 25.0 |
| Heavy truck volume (v/h): | 42.0 |
| Average heavy truck speed (mph): | 25.0 |
| Bus volume (v/h): | 0.0 |
| Average bus speed (mph): | 0.0 |
| Motorcycle volume (v/h): | 0.0 |
| Average Motorcycle speed (mph): | 0.0 |

* * * * TERRAIN SURFACE INFORMATION * * * *

Terrain surface: hard

* * * * RECEIVER INFORMATION * * * *

DESCRIPTION OF RECEIVER # 1

Worst Case Receptor

| | |
|---|------|
| Distance from center of 12-ft wide, single lane roadway (ft): | 32.8 |
| A-weighted Hourly Equivalent Sound Level without Barrier (dBA): | 67.4 |

2010 Existing Solano at Elysi an
* * * * CASE INFORMATION * * * *

* * * * Results calculated with TNM Version 2.5 * * * *

2010 Existing Solano at Elysi an

* * * * TRAFFIC VOLUME/SPEED INFORMATION * * * *

| | |
|-----------------------------------|------|
| Automobile volume (v/h): | 53.0 |
| Average automobile speed (mph): | 25.0 |
| Medium truck volume (v/h): | 4.0 |
| Average medium truck speed (mph): | 25.0 |
| Heavy truck volume (v/h): | 2.0 |
| Average heavy truck speed (mph): | 25.0 |
| Bus volume (v/h): | 0.0 |
| Average bus speed (mph): | 0.0 |
| Motorcycle volume (v/h): | 0.0 |
| Average Motorcycle speed (mph): | 0.0 |

* * * * TERRAIN SURFACE INFORMATION * * * *

Terrain surface: hard

* * * * RECEIVER INFORMATION * * * *

DESCRIPTION OF RECEIVER # 1

Worst Case Receptor

| | |
|---|------|
| Distance from center of 12-ft wide, single lane roadway (ft): | 32.8 |
| A-weighted Hourly Equivalent Sound Level without Barrier (dBA): | 54.0 |

2010 Existing Stadium at Academy
* * * * CASE INFORMATION * * * *

* * * * Results calculated with TNM Version 2.5 * * * *

2010 Existing Stadium at Academy

* * * * TRAFFIC VOLUME/SPEED INFORMATION * * * *

| | |
|-----------------------------------|--------|
| Automobile volume (v/h): | 1236.0 |
| Average automobile speed (mph): | 25.0 |
| Medium truck volume (v/h): | 82.0 |
| Average medium truck speed (mph): | 25.0 |
| Heavy truck volume (v/h): | 41.0 |
| Average heavy truck speed (mph): | 25.0 |
| Bus volume (v/h): | 0.0 |
| Average bus speed (mph): | 0.0 |
| Motorcycle volume (v/h): | 0.0 |
| Average Motorcycle speed (mph): | 0.0 |

* * * * TERRAIN SURFACE INFORMATION * * * *

Terrain surface: hard

* * * * RECEIVER INFORMATION * * * *

DESCRIPTION OF RECEIVER # 1

Worst Case Receptor

| | |
|---|------|
| Distance from center of 12-ft wide, single lane roadway (ft): | 32.8 |
| A-weighted Hourly Equivalent Sound Level without Barrier (dBA): | 67.3 |

2010 Existing Stadium at Elysi an
* * * * CASE INFORMATION * * * *

* * * * Results calculated with TNM Version 2.5 * * * *

2010 Existing Stadium at Elysi an

* * * * TRAFFIC VOLUME/SPEED INFORMATION * * * *

| | |
|-----------------------------------|--------|
| Automobile volume (v/h): | 1145.0 |
| Average automobile speed (mph): | 25.0 |
| Medium truck volume (v/h): | 76.0 |
| Average medium truck speed (mph): | 25.0 |
| Heavy truck volume (v/h): | 38.0 |
| Average heavy truck speed (mph): | 25.0 |
| Bus volume (v/h): | 0.0 |
| Average bus speed (mph): | 0.0 |
| Motorcycle volume (v/h): | 0.0 |
| Average Motorcycle speed (mph): | 0.0 |

* * * * TERRAIN SURFACE INFORMATION * * * *

Terrain surface: hard

* * * * RECEIVER INFORMATION * * * *

DESCRIPTION OF RECEIVER # 1

Worst Case Receptor

| | |
|---|------|
| Distance from center of 12-ft wide, single lane roadway (ft): | 32.8 |
| A-weighted Hourly Equivalent Sound Level without Barrier (dBA): | 67.0 |

2015 Baseline Academy at Dodger
* * * * CASE INFORMATION * * * *

* * * * Results calculated with TNM Version 2.5 * * * *

2015 Baseline Academy at Dodger

* * * * TRAFFIC VOLUME/SPEED INFORMATION * * * *

| | |
|-----------------------------------|-------|
| Automobile volume (v/h): | 469.0 |
| Average automobile speed (mph): | 25.0 |
| Medium truck volume (v/h): | 31.0 |
| Average medium truck speed (mph): | 25.0 |
| Heavy truck volume (v/h): | 15.0 |
| Average heavy truck speed (mph): | 25.0 |
| Bus volume (v/h): | 0.0 |
| Average bus speed (mph): | 0.0 |
| Motorcycle volume (v/h): | 0.0 |
| Average Motorcycle speed (mph): | 0.0 |

* * * * TERRAIN SURFACE INFORMATION * * * *

Terrain surface: hard

* * * * RECEIVER INFORMATION * * * *

DESCRIPTION OF RECEIVER # 1

Worst Case Receptor

| | |
|---|------|
| Distance from center of 12-ft wide, single lane roadway (ft): | 32.8 |
| A-weighted Hourly Equivalent Sound Level without Barrier (dBA): | 63.0 |

2015 Baseline Academy at Solano
* * * * CASE INFORMATION * * * *

* * * * Results calculated with TNM Version 2.5 * * * *

2015 Baseline Academy at Solano

* * * * TRAFFIC VOLUME/SPEED INFORMATION * * * *

| | |
|-----------------------------------|-------|
| Automobile volume (v/h): | 355.0 |
| Average automobile speed (mph): | 25.0 |
| Medium truck volume (v/h): | 23.0 |
| Average medium truck speed (mph): | 25.0 |
| Heavy truck volume (v/h): | 12.0 |
| Average heavy truck speed (mph): | 25.0 |
| Bus volume (v/h): | 0.0 |
| Average bus speed (mph): | 0.0 |
| Motorcycle volume (v/h): | 0.0 |
| Average Motorcycle speed (mph): | 0.0 |

* * * * TERRAIN SURFACE INFORMATION * * * *

Terrain surface: hard

* * * * RECEIVER INFORMATION * * * *

DESCRIPTION OF RECEIVER # 1

Worst Case Receptor

| | |
|---|------|
| Distance from center of 12-ft wide, single lane roadway (ft): | 32.8 |
| A-weighted Hourly Equivalent Sound Level without Barrier (dBA): | 61.9 |

2015 Baseline Riverside
***** CASE INFORMATION *****

***** Results calculated with TNM Version 2.5 *****

2015 Baseline Riverside at Eads

***** TRAFFIC VOLUME/SPEED INFORMATION *****

| | |
|-----------------------------------|--------|
| Automobile volume (v/h): | 1849.0 |
| Average automobile speed (mph): | 25.0 |
| Medium truck volume (v/h): | 122.0 |
| Average medium truck speed (mph): | 25.0 |
| Heavy truck volume (v/h): | 61.0 |
| Average heavy truck speed (mph): | 25.0 |
| Bus volume (v/h): | 0.0 |
| Average bus speed (mph): | 0.0 |
| Motorcycle volume (v/h): | 0.0 |
| Average Motorcycle speed (mph): | 0.0 |

***** TERRAIN SURFACE INFORMATION *****

Terrain surface: hard

***** RECEIVER INFORMATION *****

DESCRIPTION OF RECEIVER # 1

Worst Case Receptor

| | |
|---|------|
| Distance from center of 12-ft wide, single lane roadway (ft): | 32.8 |
| A-weighted Hourly Equivalent Sound Level without Barrier (dBA): | 69.1 |

2015 Baseline Riverside at Harwood
* * * * CASE INFORMATION * * * *

* * * * Results calculated with TNM Version 2.5 * * * *

2015 Baseline Riverside at Harwood

* * * * TRAFFIC VOLUME/SPEED INFORMATION * * * *

| | |
|-----------------------------------|--------|
| Automobile volume (v/h): | 1545.0 |
| Average automobile speed (mph): | 25.0 |
| Medium truck volume (v/h): | 102.0 |
| Average medium truck speed (mph): | 25.0 |
| Heavy truck volume (v/h): | 51.0 |
| Average heavy truck speed (mph): | 25.0 |
| Bus volume (v/h): | 0.0 |
| Average bus speed (mph): | 0.0 |
| Motorcycle volume (v/h): | 0.0 |
| Average Motorcycle speed (mph): | 0.0 |

* * * * TERRAIN SURFACE INFORMATION * * * *

Terrain surface: hard

* * * * RECEIVER INFORMATION * * * *

DESCRIPTION OF RECEIVER # 1

Worst Case Receptor

| | |
|---|------|
| Distance from center of 12-ft wide, single lane roadway (ft): | 32.8 |
| A-weighted Hourly Equivalent Sound Level without Barrier (dBA): | 68.3 |

2015 Baseline Riverside at I5
* * * * CASE INFORMATION * * * *

* * * * Results calculated with TNM Version 2.5 * * * *

2015 Baseline Riverside at I5

* * * * TRAFFIC VOLUME/SPEED INFORMATION * * * *

| | |
|-----------------------------------|--------|
| Automobile volume (v/h): | 1605.0 |
| Average automobile speed (mph): | 25.0 |
| Medium truck volume (v/h): | 106.0 |
| Average medium truck speed (mph): | 25.0 |
| Heavy truck volume (v/h): | 53.0 |
| Average heavy truck speed (mph): | 25.0 |
| Bus volume (v/h): | 0.0 |
| Average bus speed (mph): | 0.0 |
| Motorcycle volume (v/h): | 0.0 |
| Average Motorcycle speed (mph): | 0.0 |

* * * * TERRAIN SURFACE INFORMATION * * * *

Terrain surface: hard

* * * * RECEIVER INFORMATION * * * *

DESCRIPTION OF RECEIVER # 1

Worst Case Receptor

| | |
|---|------|
| Distance from center of 12-ft wide, single lane roadway (ft): | 32.8 |
| A-weighted Hourly Equivalent Sound Level without Barrier (dBA): | 68.4 |

2015 Baseline Stadium at Academy
* * * * CASE INFORMATION * * * *

* * * * Results calculated with TNM Version 2.5 * * * *

2015 Baseline Stadium at Academy

* * * * TRAFFIC VOLUME/SPEED INFORMATION * * * *

| | |
|-----------------------------------|--------|
| Automobile volume (v/h): | 1494.0 |
| Average automobile speed (mph): | 25.0 |
| Medium truck volume (v/h): | 98.0 |
| Average medium truck speed (mph): | 25.0 |
| Heavy truck volume (v/h): | 49.0 |
| Average heavy truck speed (mph): | 25.0 |
| Bus volume (v/h): | 0.0 |
| Average bus speed (mph): | 0.0 |
| Motorcycle volume (v/h): | 0.0 |
| Average Motorcycle speed (mph): | 0.0 |

* * * * TERRAIN SURFACE INFORMATION * * * *

Terrain surface: hard

* * * * RECEIVER INFORMATION * * * *

DESCRIPTION OF RECEIVER # 1

Worst Case Receptor

| | |
|---|------|
| Distance from center of 12-ft wide, single lane roadway (ft): | 32.8 |
| A-weighted Hourly Equivalent Sound Level without Barrier (dBA): | 68.1 |

2015 Baseline Stadium at Elysi an
* * * * CASE INFORMATION * * * *

* * * * Results calculated with TNM Version 2.5 * * * *

2015 Baseline Stadium at Elysi an

* * * * TRAFFIC VOLUME/SPEED INFORMATION * * * *

| | |
|-----------------------------------|--------|
| Automobile volume (v/h): | 1433.0 |
| Average automobile speed (mph): | 25.0 |
| Medium truck volume (v/h): | 94.0 |
| Average medium truck speed (mph): | 25.0 |
| Heavy truck volume (v/h): | 47.0 |
| Average heavy truck speed (mph): | 25.0 |
| Bus volume (v/h): | 0.0 |
| Average bus speed (mph): | 0.0 |
| Motorcycle volume (v/h): | 0.0 |
| Average Motorcycle speed (mph): | 0.0 |

* * * * TERRAIN SURFACE INFORMATION * * * *

Terrain surface: hard

* * * * RECEIVER INFORMATION * * * *

DESCRIPTION OF RECEIVER # 1

Worst Case Receptor

| | |
|---|------|
| Distance from center of 12-ft wide, single lane roadway (ft): | 32.8 |
| A-weighted Hourly Equivalent Sound Level without Barrier (dBA): | 67.9 |

2019 Baseline Academy at Dodger
* * * * CASE INFORMATION * * * *

* * * * Results calculated with TNM Version 2.5 * * * *

2019 Baseline Academy at Dodger

* * * * TRAFFIC VOLUME/SPEED INFORMATION * * * *

| | |
|-----------------------------------|-------|
| Automobile volume (v/h): | 482.0 |
| Average automobile speed (mph): | 25.0 |
| Medium truck volume (v/h): | 32.0 |
| Average medium truck speed (mph): | 25.0 |
| Heavy truck volume (v/h): | 16.0 |
| Average heavy truck speed (mph): | 25.0 |
| Bus volume (v/h): | 0.0 |
| Average bus speed (mph): | 0.0 |
| Motorcycle volume (v/h): | 0.0 |
| Average Motorcycle speed (mph): | 0.0 |

* * * * TERRAIN SURFACE INFORMATION * * * *

Terrain surface: hard

* * * * RECEIVER INFORMATION * * * *

DESCRIPTION OF RECEIVER # 1

Worst Case Receptor

| | |
|---|------|
| Distance from center of 12-ft wide, single lane roadway (ft): | 32.8 |
| A-weighted Hourly Equivalent Sound Level without Barrier (dBA): | 63.2 |

2019 Baseline Academy at Solano
* * * * CASE INFORMATION * * * *

* * * * Results calculated with TNM Version 2.5 * * * *

2019 Baseline Academy at Solano

* * * * TRAFFIC VOLUME/SPEED INFORMATION * * * *

| | |
|-----------------------------------|-------|
| Automobile volume (v/h): | 368.0 |
| Average automobile speed (mph): | 25.0 |
| Medium truck volume (v/h): | 24.0 |
| Average medium truck speed (mph): | 25.0 |
| Heavy truck volume (v/h): | 12.0 |
| Average heavy truck speed (mph): | 25.0 |
| Bus volume (v/h): | 0.0 |
| Average bus speed (mph): | 0.0 |
| Motorcycle volume (v/h): | 0.0 |
| Average Motorcycle speed (mph): | 0.0 |

* * * * TERRAIN SURFACE INFORMATION * * * *

Terrain surface: hard

* * * * RECEIVER INFORMATION * * * *

DESCRIPTION OF RECEIVER # 1

Worst Case Receptor

| | |
|---|------|
| Distance from center of 12-ft wide, single lane roadway (ft): | 32.8 |
| A-weighted Hourly Equivalent Sound Level without Barrier (dBA): | 62.0 |

2019 Baseline Riverside
* * * * CASE INFORMATION * * * *

* * * * Results calculated with TNM Version 2.5 * * * *

2019 Baseline Riverside at Eads

* * * * TRAFFIC VOLUME/SPEED INFORMATION * * * *

| | |
|-----------------------------------|--------|
| Automobile volume (v/h): | 1918.0 |
| Average automobile speed (mph): | 25.0 |
| Medium truck volume (v/h): | 126.0 |
| Average medium truck speed (mph): | 25.0 |
| Heavy truck volume (v/h): | 63.0 |
| Average heavy truck speed (mph): | 25.0 |
| Bus volume (v/h): | 0.0 |
| Average bus speed (mph): | 0.0 |
| Motorcycle volume (v/h): | 0.0 |
| Average Motorcycle speed (mph): | 0.0 |

* * * * TERRAIN SURFACE INFORMATION * * * *

Terrain surface: hard

* * * * RECEIVER INFORMATION * * * *

DESCRIPTION OF RECEIVER # 1

Worst Case Receptor

| | |
|---|------|
| Distance from center of 12-ft wide, single lane roadway (ft): | 32.8 |
| A-weighted Hourly Equivalent Sound Level without Barrier (dBA): | 69.2 |

2019 Baseline Riverside at Harwood
* * * * CASE INFORMATION * * * *

* * * * Results calculated with TNM Version 2.5 * * * *

2019 Baseline Riverside at Harwood

* * * * TRAFFIC VOLUME/SPEED INFORMATION * * * *

| | |
|-----------------------------------|--------|
| Automobile volume (v/h): | 1604.0 |
| Average automobile speed (mph): | 25.0 |
| Medium truck volume (v/h): | 106.0 |
| Average medium truck speed (mph): | 25.0 |
| Heavy truck volume (v/h): | 53.0 |
| Average heavy truck speed (mph): | 25.0 |
| Bus volume (v/h): | 0.0 |
| Average bus speed (mph): | 0.0 |
| Motorcycle volume (v/h): | 0.0 |
| Average Motorcycle speed (mph): | 0.0 |

* * * * TERRAIN SURFACE INFORMATION * * * *

Terrain surface: hard

* * * * RECEIVER INFORMATION * * * *

DESCRIPTION OF RECEIVER # 1

Worst Case Receptor

| | |
|---|------|
| Distance from center of 12-ft wide, single lane roadway (ft): | 32.8 |
| A-weighted Hourly Equivalent Sound Level without Barrier (dBA): | 68.4 |

2019 Baseline Riverside at I5
* * * * CASE INFORMATION * * * *

* * * * Results calculated with TNM Version 2.5 * * * *

2019 Baseline Riverside at I5

* * * * TRAFFIC VOLUME/SPEED INFORMATION * * * *

| | |
|-----------------------------------|--------|
| Automobile volume (v/h): | 1659.0 |
| Average automobile speed (mph): | 25.0 |
| Medium truck volume (v/h): | 109.0 |
| Average medium truck speed (mph): | 25.0 |
| Heavy truck volume (v/h): | 55.0 |
| Average heavy truck speed (mph): | 25.0 |
| Bus volume (v/h): | 0.0 |
| Average bus speed (mph): | 0.0 |
| Motorcycle volume (v/h): | 0.0 |
| Average Motorcycle speed (mph): | 0.0 |

* * * * TERRAIN SURFACE INFORMATION * * * *

Terrain surface: hard

* * * * RECEIVER INFORMATION * * * *

DESCRIPTION OF RECEIVER # 1

Worst Case Receptor

| | |
|---|------|
| Distance from center of 12-ft wide, single lane roadway (ft): | 32.8 |
| A-weighted Hourly Equivalent Sound Level without Barrier (dBA): | 68.6 |

2019 Baseline Stadium at Academy
* * * * CASE INFORMATION * * * *

* * * * Results calculated with TNM Version 2.5 * * * *

2019 Baseline Stadium at Academy

* * * * TRAFFIC VOLUME/SPEED INFORMATION * * * *

| | |
|-----------------------------------|--------|
| Automobile volume (v/h): | 1546.0 |
| Average automobile speed (mph): | 25.0 |
| Medium truck volume (v/h): | 102.0 |
| Average medium truck speed (mph): | 25.0 |
| Heavy truck volume (v/h): | 51.0 |
| Average heavy truck speed (mph): | 25.0 |
| Bus volume (v/h): | 0.0 |
| Average bus speed (mph): | 0.0 |
| Motorcycle volume (v/h): | 0.0 |
| Average Motorcycle speed (mph): | 0.0 |

* * * * TERRAIN SURFACE INFORMATION * * * *

Terrain surface: hard

* * * * RECEIVER INFORMATION * * * *

DESCRIPTION OF RECEIVER # 1

Worst Case Receptor

| | |
|---|------|
| Distance from center of 12-ft wide, single lane roadway (ft): | 32.8 |
| A-weighted Hourly Equivalent Sound Level without Barrier (dBA): | 68.3 |

2019 Baseline Stadium at Elysi an
* * * * CASE INFORMATION * * * *

* * * * Results calculated with TNM Version 2.5 * * * *

2019 Baseline Stadium at Elysi an

* * * * TRAFFIC VOLUME/SPEED INFORMATION * * * *

| | |
|-----------------------------------|--------|
| Automobile volume (v/h): | 1482.0 |
| Average automobile speed (mph): | 25.0 |
| Medium truck volume (v/h): | 98.0 |
| Average medium truck speed (mph): | 25.0 |
| Heavy truck volume (v/h): | 49.0 |
| Average heavy truck speed (mph): | 25.0 |
| Bus volume (v/h): | 0.0 |
| Average bus speed (mph): | 0.0 |
| Motorcycle volume (v/h): | 0.0 |
| Average Motorcycle speed (mph): | 0.0 |

* * * * TERRAIN SURFACE INFORMATION * * * *

Terrain surface: hard

* * * * RECEIVER INFORMATION * * * *

DESCRIPTION OF RECEIVER # 1

Worst Case Receptor

| | |
|---|------|
| Distance from center of 12-ft wide, single lane roadway (ft): | 32.8 |
| A-weighted Hourly Equivalent Sound Level without Barrier (dBA): | 68.1 |

Aluminum Cover Academy at Dodger
* * * * CASE INFORMATION * * * *

* * * * Results calculated with TNM Version 2.5 * * * *

Aluminum Cover Academy at Dodger

* * * * TRAFFIC VOLUME/SPEED INFORMATION * * * *

| | |
|-----------------------------------|-------|
| Automobile volume (v/h): | 541.0 |
| Average automobile speed (mph): | 25.0 |
| Medium truck volume (v/h): | 31.0 |
| Average medium truck speed (mph): | 25.0 |
| Heavy truck volume (v/h): | 27.0 |
| Average heavy truck speed (mph): | 25.0 |
| Bus volume (v/h): | 0.0 |
| Average bus speed (mph): | 0.0 |
| Motorcycle volume (v/h): | 0.0 |
| Average Motorcycle speed (mph): | 0.0 |

* * * * TERRAIN SURFACE INFORMATION * * * *

Terrain surface: hard

* * * * RECEIVER INFORMATION * * * *

DESCRIPTION OF RECEIVER # 1

Worst Case

| | |
|---|------|
| Distance from center of 12-ft wide, single lane roadway (ft): | 32.8 |
| A-weighted Hourly Equivalent Sound Level without Barrier (dBA): | 64.4 |

Aluminum Cover Academy at Solano
* * * * CASE INFORMATION * * * *

* * * * Results calculated with TNM Version 2.5 * * * *

Aluminum Cover Academy at Solano

* * * * TRAFFIC VOLUME/SPEED INFORMATION * * * *

| | |
|-----------------------------------|-------|
| Automobile volume (v/h): | 427.0 |
| Average automobile speed (mph): | 25.0 |
| Medium truck volume (v/h): | 23.0 |
| Average medium truck speed (mph): | 25.0 |
| Heavy truck volume (v/h): | 24.0 |
| Average heavy truck speed (mph): | 25.0 |
| Bus volume (v/h): | 0.0 |
| Average bus speed (mph): | 0.0 |
| Motorcycle volume (v/h): | 0.0 |
| Average Motorcycle speed (mph): | 0.0 |

* * * * TERRAIN SURFACE INFORMATION * * * *

Terrain surface: hard

* * * * RECEIVER INFORMATION * * * *

DESCRIPTION OF RECEIVER # 1

Worst Case

| | |
|---|------|
| Distance from center of 12-ft wide, single lane roadway (ft): | 32.8 |
| A-weighted Hourly Equivalent Sound Level without Barrier (dBA): | 63.6 |

Aluminum Cover Park Row at 110
* * * * CASE INFORMATION * * * *

* * * * Results calculated with TNM Version 2.5 * * * *

Aluminum Cover Park Row at 110

* * * * TRAFFIC VOLUME/SPEED INFORMATION * * * *

| | |
|-----------------------------------|-------|
| Automobile volume (v/h): | 139.0 |
| Average automobile speed (mph): | 25.0 |
| Medium truck volume (v/h): | 4.0 |
| Average medium truck speed (mph): | 25.0 |
| Heavy truck volume (v/h): | 14.0 |
| Average heavy truck speed (mph): | 25.0 |
| Bus volume (v/h): | 0.0 |
| Average bus speed (mph): | 0.0 |
| Motorcycle volume (v/h): | 0.0 |
| Average Motorcycle speed (mph): | 0.0 |

* * * * TERRAIN SURFACE INFORMATION * * * *

Terrain surface: hard

* * * * RECEIVER INFORMATION * * * *

DESCRIPTION OF RECEIVER # 1

Worst Case

| | |
|---|------|
| Distance from center of 12-ft wide, single lane roadway (ft): | 32.8 |
| A-weighted Hourly Equivalent Sound Level without Barrier (dBA): | 60.1 |

Aluminum Cover Riverside at Eads
* * * * CASE INFORMATION * * * *

* * * * Results calculated with TNM Version 2.5 * * * *

Aluminum Cover Riverside at Eads

* * * * TRAFFIC VOLUME/SPEED INFORMATION * * * *

| | |
|-----------------------------------|--------|
| Automobile volume (v/h): | 1921.0 |
| Average automobile speed (mph): | 25.0 |
| Medium truck volume (v/h): | 122.0 |
| Average medium truck speed (mph): | 25.0 |
| Heavy truck volume (v/h): | 73.0 |
| Average heavy truck speed (mph): | 25.0 |
| Bus volume (v/h): | 0.0 |
| Average bus speed (mph): | 0.0 |
| Motorcycle volume (v/h): | 0.0 |
| Average Motorcycle speed (mph): | 0.0 |

* * * * TERRAIN SURFACE INFORMATION * * * *

Terrain surface: hard

* * * * RECEIVER INFORMATION * * * *

DESCRIPTION OF RECEIVER # 1

Worst Case

| | |
|---|------|
| Distance from center of 12-ft wide, single lane roadway (ft): | 32.8 |
| A-weighted Hourly Equivalent Sound Level without Barrier (dBA): | 69.4 |

Aluminum Cover Riverside at I5
* * * * CASE INFORMATION * * * *

* * * * Results calculated with TNM Version 2.5 * * * *

Aluminum Cover Riverside at I5

* * * * TRAFFIC VOLUME/SPEED INFORMATION * * * *

| | |
|-----------------------------------|--------|
| Automobile volume (v/h): | 1615.0 |
| Average automobile speed (mph): | 25.0 |
| Medium truck volume (v/h): | 106.0 |
| Average medium truck speed (mph): | 25.0 |
| Heavy truck volume (v/h): | 57.0 |
| Average heavy truck speed (mph): | 25.0 |
| Bus volume (v/h): | 0.0 |
| Average bus speed (mph): | 0.0 |
| Motorcycle volume (v/h): | 0.0 |
| Average Motorcycle speed (mph): | 0.0 |

* * * * TERRAIN SURFACE INFORMATION * * * *

Terrain surface: hard

* * * * RECEIVER INFORMATION * * * *

DESCRIPTION OF RECEIVER # 1

Worst Case Receptor

| | |
|---|------|
| Distance from center of 12-ft wide, single lane roadway (ft): | 32.8 |
| A-weighted Hourly Equivalent Sound Level without Barrier (dBA): | 68.6 |

Aluminum Cover Solano at Elysi an
* * * * CASE INFORMATION * * * *

* * * * Results calculated with TNM Version 2.5 * * * *

Aluminum Cover Solano at Elysi an

* * * * TRAFFIC VOLUME/SPEED INFORMATION * * * *

| | |
|-----------------------------------|-------|
| Automobile volume (v/h): | 125.0 |
| Average automobile speed (mph): | 25.0 |
| Medium truck volume (v/h): | 4.0 |
| Average medium truck speed (mph): | 25.0 |
| Heavy truck volume (v/h): | 14.0 |
| Average heavy truck speed (mph): | 25.0 |
| Bus volume (v/h): | 0.0 |
| Average bus speed (mph): | 0.0 |
| Motorcycle volume (v/h): | 0.0 |
| Average Motorcycle speed (mph): | 0.0 |

* * * * TERRAIN SURFACE INFORMATION * * * *

Terrain surface: hard

* * * * RECEIVER INFORMATION * * * *

DESCRIPTION OF RECEIVER # 1

Worst Case

| | |
|---|------|
| Distance from center of 12-ft wide, single lane roadway (ft): | 32.8 |
| A-weighted Hourly Equivalent Sound Level without Barrier (dBA): | 60.0 |

Aluminum Cover Stadium at Academy
* * * * CASE INFORMATION * * * *

* * * * Results calculated with TNM Version 2.5 * * * *

Aluminum Cover Stadium at Academy

* * * * TRAFFIC VOLUME/SPEED INFORMATION * * * *

| | |
|-----------------------------------|--------|
| Automobile volume (v/h): | 1566.0 |
| Average automobile speed (mph): | 25.0 |
| Medium truck volume (v/h): | 98.0 |
| Average medium truck speed (mph): | 25.0 |
| Heavy truck volume (v/h): | 61.0 |
| Average heavy truck speed (mph): | 25.0 |
| Bus volume (v/h): | 0.0 |
| Average bus speed (mph): | 0.0 |
| Motorcycle volume (v/h): | 0.0 |
| Average Motorcycle speed (mph): | 0.0 |

* * * * TERRAIN SURFACE INFORMATION * * * *

Terrain surface: hard

* * * * RECEIVER INFORMATION * * * *

DESCRIPTION OF RECEIVER # 1

Worst Case

| | |
|---|------|
| Distance from center of 12-ft wide, single lane roadway (ft): | 32.8 |
| A-weighted Hourly Equivalent Sound Level without Barrier (dBA): | 68.6 |

Aluminum Cover Stadium at Elysi an
* * * * CASE INFORMATION * * * *

* * * * Results calculated with TNM Version 2.5 * * * *

Aluminum Cover Stadium at Elysi an

* * * * TRAFFIC VOLUME/SPEED INFORMATION * * * *

| | |
|-----------------------------------|--------|
| Automobile volume (v/h): | 1505.0 |
| Average automobile speed (mph): | 25.0 |
| Medium truck volume (v/h): | 94.0 |
| Average medium truck speed (mph): | 25.0 |
| Heavy truck volume (v/h): | 59.0 |
| Average heavy truck speed (mph): | 25.0 |
| Bus volume (v/h): | 0.0 |
| Average bus speed (mph): | 0.0 |
| Motorcycle volume (v/h): | 0.0 |
| Average Motorcycle speed (mph): | 0.0 |

* * * * TERRAIN SURFACE INFORMATION * * * *

Terrain surface: hard

* * * * RECEIVER INFORMATION * * * *

DESCRIPTION OF RECEIVER # 1

Worst Case

| | |
|---|------|
| Distance from center of 12-ft wide, single lane roadway (ft): | 32.8 |
| A-weighted Hourly Equivalent Sound Level without Barrier (dBA): | 68.4 |

Buried Cover Academy at Dodger
* * * * CASE INFORMATION * * * *

* * * * Results calculated with TNM Version 2.5 * * * *

Buried Cover Academy at Dodger

* * * * TRAFFIC VOLUME/SPEED INFORMATION * * * *

| | |
|-----------------------------------|-------|
| Automobile volume (v/h): | 527.0 |
| Average automobile speed (mph): | 25.0 |
| Medium truck volume (v/h): | 32.0 |
| Average medium truck speed (mph): | 25.0 |
| Heavy truck volume (v/h): | 48.0 |
| Average heavy truck speed (mph): | 25.0 |
| Bus volume (v/h): | 0.0 |
| Average bus speed (mph): | 0.0 |
| Motorcycle volume (v/h): | 0.0 |
| Average Motorcycle speed (mph): | 0.0 |

* * * * TERRAIN SURFACE INFORMATION * * * *

Terrain surface: hard

* * * * RECEIVER INFORMATION * * * *

DESCRIPTION OF RECEIVER # 1

Worst Case

| | |
|---|------|
| Distance from center of 12-ft wide, single lane roadway (ft): | 32.8 |
| A-weighted Hourly Equivalent Sound Level without Barrier (dBA): | 65.9 |

Buried Cover Academy at Solano
* * * * CASE INFORMATION * * * *

* * * * Results calculated with TNM Version 2.5 * * * *

Buried Cover Academy at Solano Canyon

* * * * TRAFFIC VOLUME/SPEED INFORMATION * * * *

| | |
|-----------------------------------|-------|
| Automobile volume (v/h): | 413.0 |
| Average automobile speed (mph): | 25.0 |
| Medium truck volume (v/h): | 24.0 |
| Average medium truck speed (mph): | 25.0 |
| Heavy truck volume (v/h): | 44.0 |
| Average heavy truck speed (mph): | 25.0 |
| Bus volume (v/h): | 0.0 |
| Average bus speed (mph): | 0.0 |
| Motorcycle volume (v/h): | 0.0 |
| Average Motorcycle speed (mph): | 0.0 |

* * * * TERRAIN SURFACE INFORMATION * * * *

Terrain surface: hard

* * * * RECEIVER INFORMATION * * * *

DESCRIPTION OF RECEIVER # 1

Worst Case

| | |
|---|------|
| Distance from center of 12-ft wide, single lane roadway (ft): | 32.8 |
| A-weighted Hourly Equivalent Sound Level without Barrier (dBA): | 65.3 |

Buried Cover Park Row at 110
* * * * CASE INFORMATION * * * *

* * * * Results calculated with TNM Version 2.5 * * * *

Buried Cover Park Row at I-110

* * * * TRAFFIC VOLUME/SPEED INFORMATION * * * *

| | |
|-----------------------------------|-------|
| Automobile volume (v/h): | 112.0 |
| Average automobile speed (mph): | 25.0 |
| Medium truck volume (v/h): | 4.0 |
| Average medium truck speed (mph): | 25.0 |
| Heavy truck volume (v/h): | 34.0 |
| Average heavy truck speed (mph): | 25.0 |
| Bus volume (v/h): | 0.0 |
| Average bus speed (mph): | 0.0 |
| Motorcycle volume (v/h): | 0.0 |
| Average Motorcycle speed (mph): | 0.0 |

* * * * TERRAIN SURFACE INFORMATION * * * *

Terrain surface: hard

* * * * RECEIVER INFORMATION * * * *

DESCRIPTION OF RECEIVER # 1

Worst Case

| | |
|---|------|
| Distance from center of 12-ft wide, single lane roadway (ft): | 32.8 |
| A-weighted Hourly Equivalent Sound Level without Barrier (dBA): | 63.1 |

Buried Cover Riverside at Eads
* * * * CASE INFORMATION * * * *

* * * * Results calculated with TNM Version 2.5 * * * *

Buried Cover Riverside at Eads

* * * * TRAFFIC VOLUME/SPEED INFORMATION * * * *

| | |
|-----------------------------------|--------|
| Automobile volume (v/h): | 1963.0 |
| Average automobile speed (mph): | 25.0 |
| Medium truck volume (v/h): | 126.0 |
| Average medium truck speed (mph): | 25.0 |
| Heavy truck volume (v/h): | 95.0 |
| Average heavy truck speed (mph): | 25.0 |
| Bus volume (v/h): | 0.0 |
| Average bus speed (mph): | 0.0 |
| Motorcycle volume (v/h): | 0.0 |
| Average Motorcycle speed (mph): | 0.0 |

* * * * TERRAIN SURFACE INFORMATION * * * *

Terrain surface: hard

* * * * RECEIVER INFORMATION * * * *

DESCRIPTION OF RECEIVER # 1

Worst Case

| | |
|---|------|
| Distance from center of 12-ft wide, single lane roadway (ft): | 32.8 |
| A-weighted Hourly Equivalent Sound Level without Barrier (dBA): | 70.0 |

Buried Cover Riverside at I5
* * * * CASE INFORMATION * * * *

* * * * Results calculated with TNM Version 2.5 * * * *

Buried Cover Riverside at I5

* * * * TRAFFIC VOLUME/SPEED INFORMATION * * * *

| | |
|-----------------------------------|--------|
| Automobile volume (v/h): | 1669.0 |
| Average automobile speed (mph): | 25.0 |
| Medium truck volume (v/h): | 109.0 |
| Average medium truck speed (mph): | 25.0 |
| Heavy truck volume (v/h): | 59.0 |
| Average heavy truck speed (mph): | 25.0 |
| Bus volume (v/h): | 0.0 |
| Average bus speed (mph): | 0.0 |
| Motorcycle volume (v/h): | 0.0 |
| Average Motorcycle speed (mph): | 0.0 |

* * * * TERRAIN SURFACE INFORMATION * * * *

Terrain surface: hard

* * * * RECEIVER INFORMATION * * * *

DESCRIPTION OF RECEIVER # 1

Worst Case Receptor

| | |
|---|------|
| Distance from center of 12-ft wide, single lane roadway (ft): | 32.8 |
| A-weighted Hourly Equivalent Sound Level without Barrier (dBA): | 68.7 |

Buried Cover Solano at Elysi an
* * * * CASE INFORMATION * * * *

* * * * Results calculated with TNM Version 2.5 * * * *

Buried Cover Solano at Elysi an Park

* * * * TRAFFIC VOLUME/SPEED INFORMATION * * * *

| | |
|-----------------------------------|------|
| Automobile volume (v/h): | 98.0 |
| Average automobile speed (mph): | 25.0 |
| Medium truck volume (v/h): | 4.0 |
| Average medium truck speed (mph): | 25.0 |
| Heavy truck volume (v/h): | 34.0 |
| Average heavy truck speed (mph): | 25.0 |
| Bus volume (v/h): | 0.0 |
| Average bus speed (mph): | 0.0 |
| Motorcycle volume (v/h): | 0.0 |
| Average Motorcycle speed (mph): | 0.0 |

* * * * TERRAIN SURFACE INFORMATION * * * *

Terrain surface: hard

* * * * RECEIVER INFORMATION * * * *

DESCRIPTION OF RECEIVER # 1

Worst Case

| | |
|---|------|
| Distance from center of 12-ft wide, single lane roadway (ft): | 32.8 |
| A-weighted Hourly Equivalent Sound Level without Barrier (dBA): | 63.1 |

Buried Cover Stadium at Academy
* * * * CASE INFORMATION * * * *

* * * * Results calculated with TNM Version 2.5 * * * *

Buried Cover Stadium at Academy

* * * * TRAFFIC VOLUME/SPEED INFORMATION * * * *

| | |
|-----------------------------------|--------|
| Automobile volume (v/h): | 1591.0 |
| Average automobile speed (mph): | 25.0 |
| Medium truck volume (v/h): | 102.0 |
| Average medium truck speed (mph): | 25.0 |
| Heavy truck volume (v/h): | 83.0 |
| Average heavy truck speed (mph): | 25.0 |
| Bus volume (v/h): | 0.0 |
| Average bus speed (mph): | 0.0 |
| Motorcycle volume (v/h): | 0.0 |
| Average Motorcycle speed (mph): | 0.0 |

* * * * TERRAIN SURFACE INFORMATION * * * *

Terrain surface: hard

* * * * RECEIVER INFORMATION * * * *

DESCRIPTION OF RECEIVER # 1

Worst Case

| | |
|---|------|
| Distance from center of 12-ft wide, single lane roadway (ft): | 32.8 |
| A-weighted Hourly Equivalent Sound Level without Barrier (dBA): | 69.3 |

Buried Cover Stadium at Elysi an Park
* * * * CASE I NFORMATI ON * * * *

* * * * Resul ts cal cul ated wi th TNM Versi on 2.5 * * * *

Buried Cover Stadium at Elysi an Park

* * * * TRAFFI C VOLUME/SPEED I NFORMATI ON * * * *

| | |
|-----------------------------------|--------|
| Automobile volume (v/h): | 1527.0 |
| Average automobile speed (mph): | 25.0 |
| Medium truck volume (v/h): | 98.0 |
| Average medium truck speed (mph): | 25.0 |
| Heavy truck volume (v/h): | 81.0 |
| Average heavy truck speed (mph): | 25.0 |
| Bus volume (v/h): | 0.0 |
| Average bus speed (mph): | 0.0 |
| Motorcycle volume (v/h): | 0.0 |
| Average Motorcycle speed (mph): | 0.0 |

* * * * TERRAIN SURFACE I NFORMATI ON * * * *

Terrain surface: hard

* * * * RECEI VER I NFORMATI ON * * * *

DESCRIPTI ON OF RECEI VER # 1

Worst Case

| | |
|---|------|
| Distance from center of 12-ft wide, single lane roadway (ft): | 32.8 |
| A-weighted Hourly Equivalent Sound Level without Barrier (dBA): | 69.2 |

Floating Cover Academy at Dodger
* * * * CASE INFORMATION * * * *

* * * * Results calculated with TNM Version 2.5 * * * *

Floating Cover Academy at Dodger

* * * * TRAFFIC VOLUME/SPEED INFORMATION * * * *

| | |
|-----------------------------------|-------|
| Automobile volume (v/h): | 541.0 |
| Average automobile speed (mph): | 25.0 |
| Medium truck volume (v/h): | 31.0 |
| Average medium truck speed (mph): | 25.0 |
| Heavy truck volume (v/h): | 23.0 |
| Average heavy truck speed (mph): | 25.0 |
| Bus volume (v/h): | 0.0 |
| Average bus speed (mph): | 0.0 |
| Motorcycle volume (v/h): | 0.0 |
| Average Motorcycle speed (mph): | 0.0 |

* * * * TERRAIN SURFACE INFORMATION * * * *

Terrain surface: hard

* * * * RECEIVER INFORMATION * * * *

DESCRIPTION OF RECEIVER # 1

Worst Case

| | |
|---|------|
| Distance from center of 12-ft wide, single lane roadway (ft): | 32.8 |
| A-weighted Hourly Equivalent Sound Level without Barrier (dBA): | 64.1 |

Floating Cover Academy at Solano
* * * * CASE INFORMATION * * * *

* * * * Results calculated with TNM Version 2.5 * * * *

Floating Cover Academy at Solano

* * * * TRAFFIC VOLUME/SPEED INFORMATION * * * *

| | |
|-----------------------------------|-------|
| Automobile volume (v/h): | 427.0 |
| Average automobile speed (mph): | 25.0 |
| Medium truck volume (v/h): | 23.0 |
| Average medium truck speed (mph): | 25.0 |
| Heavy truck volume (v/h): | 20.0 |
| Average heavy truck speed (mph): | 25.0 |
| Bus volume (v/h): | 0.0 |
| Average bus speed (mph): | 0.0 |
| Motorcycle volume (v/h): | 0.0 |
| Average Motorcycle speed (mph): | 0.0 |

* * * * TERRAIN SURFACE INFORMATION * * * *

Terrain surface: hard

* * * * RECEIVER INFORMATION * * * *

DESCRIPTION OF RECEIVER # 1

Worst Case

| | |
|---|------|
| Distance from center of 12-ft wide, single lane roadway (ft): | 32.8 |
| A-weighted Hourly Equivalent Sound Level without Barrier (dBA): | 63.2 |

Floating Cover Park Row at 110
* * * * CASE INFORMATION * * * *

* * * * Results calculated with TNM Version 2.5 * * * *

Floating Cover Park Row at 110

* * * * TRAFFIC VOLUME/SPEED INFORMATION * * * *

| | |
|-----------------------------------|-------|
| Automobile volume (v/h): | 139.0 |
| Average automobile speed (mph): | 25.0 |
| Medium truck volume (v/h): | 4.0 |
| Average medium truck speed (mph): | 25.0 |
| Heavy truck volume (v/h): | 10.0 |
| Average heavy truck speed (mph): | 25.0 |
| Bus volume (v/h): | 0.0 |
| Average bus speed (mph): | 0.0 |
| Motorcycle volume (v/h): | 0.0 |
| Average Motorcycle speed (mph): | 0.0 |

* * * * TERRAIN SURFACE INFORMATION * * * *

Terrain surface: hard

* * * * RECEIVER INFORMATION * * * *

DESCRIPTION OF RECEIVER # 1

Worst Case

| | |
|---|------|
| Distance from center of 12-ft wide, single lane roadway (ft): | 32.8 |
| A-weighted Hourly Equivalent Sound Level without Barrier (dBA): | 59.0 |

Floating Cover Riverside at Eads
* * * * CASE INFORMATION * * * *

* * * * Results calculated with TNM Version 2.5 * * * *

Floating Cover Riverside at Eads

* * * * TRAFFIC VOLUME/SPEED INFORMATION * * * *

| | |
|-----------------------------------|--------|
| Automobile volume (v/h): | 1921.0 |
| Average automobile speed (mph): | 25.0 |
| Medium truck volume (v/h): | 122.0 |
| Average medium truck speed (mph): | 25.0 |
| Heavy truck volume (v/h): | 69.0 |
| Average heavy truck speed (mph): | 25.0 |
| Bus volume (v/h): | 0.0 |
| Average bus speed (mph): | 0.0 |
| Motorcycle volume (v/h): | 0.0 |
| Average Motorcycle speed (mph): | 0.0 |

* * * * TERRAIN SURFACE INFORMATION * * * *

Terrain surface: hard

* * * * RECEIVER INFORMATION * * * *

DESCRIPTION OF RECEIVER # 1

Worst Case

| | |
|---|------|
| Distance from center of 12-ft wide, single lane roadway (ft): | 32.8 |
| A-weighted Hourly Equivalent Sound Level without Barrier (dBA): | 69.3 |

Floating Cover Riverside at I5
* * * * CASE INFORMATION * * * *

* * * * Results calculated with TNM Version 2.5 * * * *

Floating Cover Riverside at I5

* * * * TRAFFIC VOLUME/SPEED INFORMATION * * * *

| | |
|-----------------------------------|--------|
| Automobile volume (v/h): | 1615.0 |
| Average automobile speed (mph): | 25.0 |
| Medium truck volume (v/h): | 106.0 |
| Average medium truck speed (mph): | 25.0 |
| Heavy truck volume (v/h): | 57.0 |
| Average heavy truck speed (mph): | 25.0 |
| Bus volume (v/h): | 0.0 |
| Average bus speed (mph): | 0.0 |
| Motorcycle volume (v/h): | 0.0 |
| Average Motorcycle speed (mph): | 0.0 |

* * * * TERRAIN SURFACE INFORMATION * * * *

Terrain surface: hard

* * * * RECEIVER INFORMATION * * * *

DESCRIPTION OF RECEIVER # 1

Worst Case Receptor

| | |
|---|------|
| Distance from center of 12-ft wide, single lane roadway (ft): | 32.8 |
| A-weighted Hourly Equivalent Sound Level without Barrier (dBA): | 68.6 |

Floating Cover Solano at Elysi an
* * * * CASE INFORMATION * * * *

* * * * Results calculated with TNM Version 2.5 * * * *

Floating Cover Solano at Elysi an

* * * * TRAFFIC VOLUME/SPEED INFORMATION * * * *

| | |
|-----------------------------------|-------|
| Automobile volume (v/h): | 125.0 |
| Average automobile speed (mph): | 25.0 |
| Medium truck volume (v/h): | 4.0 |
| Average medium truck speed (mph): | 25.0 |
| Heavy truck volume (v/h): | 10.0 |
| Average heavy truck speed (mph): | 25.0 |
| Bus volume (v/h): | 0.0 |
| Average bus speed (mph): | 0.0 |
| Motorcycle volume (v/h): | 0.0 |
| Average Motorcycle speed (mph): | 0.0 |

* * * * TERRAIN SURFACE INFORMATION * * * *

Terrain surface: hard

* * * * RECEIVER INFORMATION * * * *

DESCRIPTION OF RECEIVER # 1

Worst Case

| | |
|---|------|
| Distance from center of 12-ft wide, single lane roadway (ft): | 32.8 |
| A-weighted Hourly Equivalent Sound Level without Barrier (dBA): | 58.9 |

Floating Cover Stadium at Academy
* * * * CASE INFORMATION * * * *

* * * * Results calculated with TNM Version 2.5 * * * *

Floating Cover Stadium at Academy

* * * * TRAFFIC VOLUME/SPEED INFORMATION * * * *

| | |
|-----------------------------------|--------|
| Automobile volume (v/h): | 1566.0 |
| Average automobile speed (mph): | 25.0 |
| Medium truck volume (v/h): | 98.0 |
| Average medium truck speed (mph): | 25.0 |
| Heavy truck volume (v/h): | 57.0 |
| Average heavy truck speed (mph): | 25.0 |
| Bus volume (v/h): | 0.0 |
| Average bus speed (mph): | 0.0 |
| Motorcycle volume (v/h): | 0.0 |
| Average Motorcycle speed (mph): | 0.0 |

* * * * TERRAIN SURFACE INFORMATION * * * *

Terrain surface: hard

* * * * RECEIVER INFORMATION * * * *

DESCRIPTION OF RECEIVER # 1

Worst Case

| | |
|---|------|
| Distance from center of 12-ft wide, single lane roadway (ft): | 32.8 |
| A-weighted Hourly Equivalent Sound Level without Barrier (dBA): | 68.5 |

Floating Cover Stadium at Elysian
* * * * CASE INFORMATION * * * *

* * * * Results calculated with TNM Version 2.5 * * * *

Floating Cover Stadium at Elysian

* * * * TRAFFIC VOLUME/SPEED INFORMATION * * * *

| | |
|-----------------------------------|--------|
| Automobile volume (v/h): | 1505.0 |
| Average automobile speed (mph): | 25.0 |
| Medium truck volume (v/h): | 94.0 |
| Average medium truck speed (mph): | 25.0 |
| Heavy truck volume (v/h): | 55.0 |
| Average heavy truck speed (mph): | 25.0 |
| Bus volume (v/h): | 0.0 |
| Average bus speed (mph): | 0.0 |
| Motorcycle volume (v/h): | 0.0 |
| Average Motorcycle speed (mph): | 0.0 |

* * * * TERRAIN SURFACE INFORMATION * * * *

Terrain surface: hard

* * * * RECEIVER INFORMATION * * * *

DESCRIPTION OF RECEIVER # 1

Worst Case

| | |
|---|------|
| Distance from center of 12-ft wide, single lane roadway (ft): | 32.8 |
| A-weighted Hourly Equivalent Sound Level without Barrier (dBA): | 68.3 |

Operations Stadium at Academy
* * * * CASE INFORMATION * * * *

* * * * Results calculated with TNM Version 2.5 * * * *

Operations Stadium at Academy

* * * * TRAFFIC VOLUME/SPEED INFORMATION * * * *

| | |
|-----------------------------------|--------|
| Automobile volume (v/h): | 1717.0 |
| Average automobile speed (mph): | 25.0 |
| Medium truck volume (v/h): | 113.0 |
| Average medium truck speed (mph): | 25.0 |
| Heavy truck volume (v/h): | 57.0 |
| Average heavy truck speed (mph): | 25.0 |
| Bus volume (v/h): | 0.0 |
| Average bus speed (mph): | 0.0 |
| Motorcycle volume (v/h): | 0.0 |
| Average Motorcycle speed (mph): | 0.0 |

* * * * TERRAIN SURFACE INFORMATION * * * *

Terrain surface: hard

* * * * RECEIVER INFORMATION * * * *

DESCRIPTION OF RECEIVER # 1

Worst Case Receptor

| | |
|---|------|
| Distance from center of 12-ft wide, single lane roadway (ft): | 32.8 |
| A-weighted Hourly Equivalent Sound Level without Barrier (dBA): | 68.7 |

Operations Solano at Elysi an
* * * * CASE I NFORMATI ON * * * *

* * * * Resul ts cal cul ated wi th TNM Versi on 2.5 * * * *

Operations Solano at Elysi an

* * * * TRAFFI C VOLUME/SPEED I NFORMATI ON * * * *

| | |
|-----------------------------------|-------|
| Automobile volume (v/h): | 224.0 |
| Average automobile speed (mph): | 25.0 |
| Medium truck volume (v/h): | 15.0 |
| Average medium truck speed (mph): | 25.0 |
| Heavy truck volume (v/h): | 7.0 |
| Average heavy truck speed (mph): | 25.0 |
| Bus volume (v/h): | 0.0 |
| Average bus speed (mph): | 0.0 |
| Motorcycle volume (v/h): | 0.0 |
| Average Motorcycle speed (mph): | 0.0 |

* * * * TERRAIN SURFACE I NFORMATI ON * * * *

Terrain surface: hard

* * * * RECEI VER I NFORMATI ON * * * *

DESCRIPTI ON OF RECEI VER # 1

Worst Case Receptor

| | |
|---|------|
| Distance from center of 12-ft wide, single lane roadway (ft): | 32.8 |
| A-weighted Hourly Equivalent Sound Level without Barrier (dBA): | 59.8 |

Operations Riverside at I5
* * * * CASE INFORMATION * * * *

* * * * Results calculated with TNM Version 2.5 * * * *

Operations Riverside at I5

* * * * TRAFFIC VOLUME/SPEED INFORMATION * * * *

| | |
|-----------------------------------|--------|
| Automobile volume (v/h): | 1830.0 |
| Average automobile speed (mph): | 25.0 |
| Medium truck volume (v/h): | 121.0 |
| Average medium truck speed (mph): | 25.0 |
| Heavy truck volume (v/h): | 60.0 |
| Average heavy truck speed (mph): | 25.0 |
| Bus volume (v/h): | 0.0 |
| Average bus speed (mph): | 0.0 |
| Motorcycle volume (v/h): | 0.0 |
| Average Motorcycle speed (mph): | 0.0 |

* * * * TERRAIN SURFACE INFORMATION * * * *

Terrain surface: hard

* * * * RECEIVER INFORMATION * * * *

DESCRIPTION OF RECEIVER # 1

Worst Case Receptor

| | |
|---|------|
| Distance from center of 12-ft wide, single lane roadway (ft): | 32.8 |
| A-weighted Hourly Equivalent Sound Level without Barrier (dBA): | 69.0 |

Operations Riverside at Harwood
* * * * CASE INFORMATION * * * *

* * * * Results calculated with TNM Version 2.5 * * * *

Operations Riverside at Harwood

* * * * TRAFFIC VOLUME/SPEED INFORMATION * * * *

| | |
|-----------------------------------|--------|
| Automobile volume (v/h): | 1776.0 |
| Average automobile speed (mph): | 25.0 |
| Medium truck volume (v/h): | 117.0 |
| Average medium truck speed (mph): | 25.0 |
| Heavy truck volume (v/h): | 59.0 |
| Average heavy truck speed (mph): | 25.0 |
| Bus volume (v/h): | 0.0 |
| Average bus speed (mph): | 0.0 |
| Motorcycle volume (v/h): | 0.0 |
| Average Motorcycle speed (mph): | 0.0 |

* * * * TERRAIN SURFACE INFORMATION * * * *

Terrain surface: hard

* * * * RECEIVER INFORMATION * * * *

DESCRIPTION OF RECEIVER # 1

Worst Case Receptor

| | |
|---|------|
| Distance from center of 12-ft wide, single lane roadway (ft): | 32.8 |
| A-weighted Hourly Equivalent Sound Level without Barrier (dBA): | 68.9 |

Operations Riverside at Eads
* * * * CASE INFORMATION * * * *

* * * * Results calculated with TNM Version 2.5 * * * *

Operations Riverside at Eads

* * * * TRAFFIC VOLUME/SPEED INFORMATION * * * *

| | |
|-----------------------------------|--------|
| Automobile volume (v/h): | 2089.0 |
| Average automobile speed (mph): | 25.0 |
| Medium truck volume (v/h): | 138.0 |
| Average medium truck speed (mph): | 25.0 |
| Heavy truck volume (v/h): | 69.0 |
| Average heavy truck speed (mph): | 25.0 |
| Bus volume (v/h): | 0.0 |
| Average bus speed (mph): | 0.0 |
| Motorcycle volume (v/h): | 0.0 |
| Average Motorcycle speed (mph): | 0.0 |

* * * * TERRAIN SURFACE INFORMATION * * * *

Terrain surface: hard

* * * * RECEIVER INFORMATION * * * *

DESCRIPTION OF RECEIVER # 1

Worst Case Receptor

| | |
|---|------|
| Distance from center of 12-ft wide, single lane roadway (ft): | 32.8 |
| A-weighted Hourly Equivalent Sound Level without Barrier (dBA): | 69.6 |

Operations Park Row
* * * * CASE INFORMATION * * * *

* * * * Results calculated with TNM Version 2.5 * * * *

Operations Park Row at 110

* * * * TRAFFIC VOLUME/SPEED INFORMATION * * * *

| | |
|-----------------------------------|-------|
| Automobile volume (v/h): | 238.0 |
| Average automobile speed (mph): | 25.0 |
| Medium truck volume (v/h): | 16.0 |
| Average medium truck speed (mph): | 25.0 |
| Heavy truck volume (v/h): | 8.0 |
| Average heavy truck speed (mph): | 25.0 |
| Bus volume (v/h): | 0.0 |
| Average bus speed (mph): | 0.0 |
| Motorcycle volume (v/h): | 0.0 |
| Average Motorcycle speed (mph): | 0.0 |

* * * * TERRAIN SURFACE INFORMATION * * * *

Terrain surface: hard

* * * * RECEIVER INFORMATION * * * *

DESCRIPTION OF RECEIVER # 1

Worst Case Receptor

| | |
|---|------|
| Distance from center of 12-ft wide, single lane roadway (ft): | 32.8 |
| A-weighted Hourly Equivalent Sound Level without Barrier (dBA): | 60.2 |

Operations Academy at Solano
* * * * CASE INFORMATION * * * *

* * * * Results calculated with TNM Version 2.5 * * * *

Operations Academy at Solano

* * * * TRAFFIC VOLUME/SPEED INFORMATION * * * *

| | |
|-----------------------------------|-------|
| Automobile volume (v/h): | 539.0 |
| Average automobile speed (mph): | 25.0 |
| Medium truck volume (v/h): | 36.0 |
| Average medium truck speed (mph): | 25.0 |
| Heavy truck volume (v/h): | 18.0 |
| Average heavy truck speed (mph): | 25.0 |
| Bus volume (v/h): | 0.0 |
| Average bus speed (mph): | 0.0 |
| Motorcycle volume (v/h): | 0.0 |
| Average Motorcycle speed (mph): | 0.0 |

* * * * TERRAIN SURFACE INFORMATION * * * *

Terrain surface: hard

* * * * RECEIVER INFORMATION * * * *

DESCRIPTION OF RECEIVER # 1

Worst Case Receptor

| | |
|---|------|
| Distance from center of 12-ft wide, single lane roadway (ft): | 32.8 |
| A-weighted Hourly Equivalent Sound Level without Barrier (dBA): | 63.7 |

Operations Academy at Dodger
* * * * CASE INFORMATION * * * *

* * * * Results calculated with TNM Version 2.5 * * * *

Operations Academy at Dodger

* * * * TRAFFIC VOLUME/SPEED INFORMATION * * * *

| | |
|-----------------------------------|-------|
| Automobile volume (v/h): | 653.0 |
| Average automobile speed (mph): | 25.0 |
| Medium truck volume (v/h): | 43.0 |
| Average medium truck speed (mph): | 25.0 |
| Heavy truck volume (v/h): | 22.0 |
| Average heavy truck speed (mph): | 25.0 |
| Bus volume (v/h): | 0.0 |
| Average bus speed (mph): | 0.0 |
| Motorcycle volume (v/h): | 0.0 |
| Average Motorcycle speed (mph): | 0.0 |

* * * * TERRAIN SURFACE INFORMATION * * * *

Terrain surface: hard

* * * * RECEIVER INFORMATION * * * *

DESCRIPTION OF RECEIVER # 1

Worst Case Receptor

| | |
|---|------|
| Distance from center of 12-ft wide, single lane roadway (ft): | 32.8 |
| A-weighted Hourly Equivalent Sound Level without Barrier (dBA): | 64.6 |

Operations Stadium at Elysi an
* * * * CASE INFORMATION * * * *

* * * * Results calculated with TNM Version 2.5 * * * *

Operations Stadium at Elysi an

* * * * TRAFFIC VOLUME/SPEED INFORMATION * * * *

| | |
|-----------------------------------|--------|
| Automobile volume (v/h): | 1653.0 |
| Average automobile speed (mph): | 25.0 |
| Medium truck volume (v/h): | 109.0 |
| Average medium truck speed (mph): | 25.0 |
| Heavy truck volume (v/h): | 54.0 |
| Average heavy truck speed (mph): | 25.0 |
| Bus volume (v/h): | 0.0 |
| Average bus speed (mph): | 0.0 |
| Motorcycle volume (v/h): | 0.0 |
| Average Motorcycle speed (mph): | 0.0 |

* * * * TERRAIN SURFACE INFORMATION * * * *

Terrain surface: hard

* * * * RECEIVER INFORMATION * * * *

DESCRIPTION OF RECEIVER # 1

Worst Case Receptor

| | |
|---|------|
| Distance from center of 12-ft wide, single lane roadway (ft): | 32.8 |
| A-weighted Hourly Equivalent Sound Level without Barrier (dBA): | 68.6 |

