# 190TH STREET WAREHOUSE PROJECT AIR QUALITY, GLOBAL CLIMATE CHANGE, HEALTH RISK ASSESSMENT, AND ENERGY IMPACT ANALYSIS

City of Torrance

May 15, 2020

gandini

Traffic Engineering ● Transportation Planning ● Parking ● Noise & Vibration
Air Quality ● Global Climate Change ● Health Risk Assessment

# 190TH STREET WAREHOUSE PROJECT AIR QUALITY, GLOBAL CLIMATE CHANGE, HEALTH RISK ASSESSMENT, AND ENERGY IMPACT ANALYSIS

City of Torrance

May 15, 2020

*prepared by*
Katie Wilson, MS
Catherine Howe, MS

**GANDDINI GROUP INC**
550 Parkcenter Drive, Suite 202
Santa Ana, CA 92705
(714) 795-3100 | ganddini.com

19260

# TABLE OF CONTENTS

**EXECUTIVE SUMMARY**

**1. INTRODUCTION ..... 1**

Purpose and Objectives ..... 1
Project Location ..... 1
Project Description ..... 1
Phasing and Timing ..... 1
Sensitive Receptors in Project Vicinity ..... 2

**2. AIR QUALITY ANALYSIS ..... 5**

Existing Air Quality Conditions ..... 5
Local Air Quality ..... 5
Pollutants ..... 7
Other Pollutants of Concern ..... 9
Regulatory Setting ..... 9
Federal – United States Environmental Protection Agency ..... 10
State – California Air Resources Board ..... 10
Regional ..... 11
Air Quality Guidance Documents ..... 15
Local – City of Torrance ..... 15
Monitored Air Quality ..... 19
Air Quality Standards ..... 22
Significance Thresholds ..... 22
Regional Air Quality ..... 23
Local Air Quality ..... 23
Toxic Air Contaminants ..... 23
Odor Impacts ..... 24
Short-Term Construction Emissions ..... 26
Methodology ..... 26
Construction-Related Regional Impacts ..... 27
Construction-Related Local Impacts ..... 27
Construction-Related Toxic Air Contaminant Impacts ..... 28
Construction-Related Odor Impacts ..... 28
Long-Term Operational Emissions ..... 32
Operations-Related Regional Air Quality Impacts ..... 32
Operations-Related Local Air Quality Impacts ..... 33
Operations-Related Odor Impacts ..... 34
Cumulative Air Quality Impacts ..... 39
Project Specific Impacts ..... 39
Air Quality Compliance ..... 39

**3. DIESEL EMISSIONS HEALTH RISK ASSESSMENT ..... 41**

Emissions ..... 41
Emission Inventory Development ..... 41
Emission Source Estimates – DPM from Motor Vehicles ..... 41
Estimate of Emission Factors ..... 42
Emission Source Characterization ..... 42
Receptor Network ..... 42
Dispersion Modeling ..... 43
Model Selection ..... 43
General Model Assumptions ..... 43
Meteorological Data ..... 43

Estimation of Health Risks ..... 43
Cancer Risks ..... 43
Non-Cancer Risks ..... 45

**4. GLOBAL CLIMATE CHANGE ANALYSIS ..... 57**

Existing Greenhouse Gas Environment ..... 57
Greenhouse Gas Standards and Regulation ..... 61
International ..... 61
Federal ..... 61
State of California ..... 63
Regional – South Coast Air Quality Management District ..... 73
Local – City of Torrance ..... 75
Significance Thresholds ..... 75
Appendix G of State CEQA Guidelines ..... 75
Thresholds of Significance for this Project ..... 75
Methodology ..... 75
Project Greenhouse Gas Emissions ..... 76
Consistency With Applicable Greenhouse Gas Reduction Plans and Policies ..... 80
Cumulative Greenhouse Gas Impacts ..... 81

**5. ENERGY ANALYSIS ..... 82**

Existing Conditions ..... 82
Overview ..... 82
Electricity ..... 83
Natural Gas ..... 83
Transportation Energy Resources ..... 84
Regulatory Background ..... 84
Federal Regulations ..... 84
State Regulations ..... 85
Project Energy Demands and Energy Efficiency Measures ..... 89
Evaluation Criteria ..... 89
Methodology ..... 89
Construction Energy Demands ..... 89
Operational Energy Demands ..... 91
Renewable Energy and Energy Efficiency Plan Consistency ..... 92
Conclusions ..... 92

**6. EMISSIONS REDUCTION MEASURES ..... 102**

Construction Measures ..... 102
Operational Measures ..... 102

**7. REFERENCES ..... 103**

**APPENDICES**

Appendix A Glossary of Terms

Appendix B CalEEMod Model Daily Emissions Printouts

Appendix C AERMOD Model Printouts

Appendix D CalEEMod Model Annual Emissions Printouts

## LIST OF TABLES


Table 1. Local Monthly Climate Data ..... 6
Table 2. State and Federal Criteria Pollutant Standards ..... 17
Table 3. South Coast Air Basin Attainment Status ..... 18
Table 4. Air Quality Monitoring Summary ..... 21
Table 5. SCAQMD Air Quality Significance Thresholds ..... 25
Table 6. Construction-Related Regional Pollutant Emissions ..... 29
Table 7. Maximum Number of Acres Disturbed Per Day ..... 30
Table 8. Local Construction Emissions at the Nearest Receptors ..... 31
Table 9. CalEEMod Revised Vehicle Mix Parameters for Warehousing ..... 35
Table 10. CalEEMod Revised Vehicle Mix Parameters for Manufacturing ..... 36
Table 11. Regional Operational Pollutant Emissions ..... 37
Table 12. Local Operational Emissions at the Nearest Receptors ..... 38
Table 13. DPM Emissions Factors for the Proposed Project ..... 46
Table 14. Summary of Emission Configurations ..... 47
Table 15. General Modeling Assumptions – AERMOD Model ..... 48
Table 16. Carcinogenic Risks and Non-Carcinogenic Hazards 3rd Trimester Exposure Scenario (0.25-Year) ..... 49
Table 17. Carcinogenic Risks and Non-Carcinogenic Hazards Infant Exposure Scenario (2-Year) ..... 50
Table 18. Carcinogenic Risks and Non-Carcinogenic Hazards Child Exposure Scenario (14-Year) ..... 51
Table 19. Carcinogenic Risks and Non-Carcinogenic Hazards Adult Exposure Scenario (14-Year) ..... 52
Table 20. Cumulative Carcinogenic Risk 30.25-Year Exposure Scenario ..... 53
Table 21. Global Warming Potentials and Atmospheric Lifetimes ..... 60
Table 22. Project-Related Greenhouse Gas Emissions ..... 78
Table 23. Project-Related Greenhouse Gas Emissions With Incorporation of Sustainable Design /Regulation ..... 79
Table 24. Total Electricity System Power (California 2018) ..... 93
Table 25. SCE 2017 Power Content Mix ..... 94
Table 26. Project Construction Power Cost and Electricity Usage ..... 95
Table 27. Construction Equipment Fuel Consumption Estimates ..... 96
Table 28. Construction Worker Fuel Consumption Estimates ..... 97
Table 29. Construction Vendor Fuel Consumption Estimates (MHD Trucks) ..... 98
Table 30. Construction Hauling Fuel Consumption Estimates (HHD Trucks) ..... 99
Table 31. Estimated Vehicle Operations Fuel Consumption ..... 100
Table 32. Project Annual Operational Energy Demand Summary ..... 101

## LIST OF FIGURES

Figure 1. Project Location Map ..... 3
Figure 2. Site Plan ..... 4
Figure 3. AERMOD Model Source and Receptor Placement ..... 54
Figure 4. Wind Rose: Hawthorne ..... 55
Figure 5. Modeled Study Area Highest Annual DPM Emissions ..... 56

# EXECUTIVE SUMMARY

The purpose of this air quality and global climate change impact analysis is to provide an assessment of the impacts resulting from development of the proposed 190th Street Warehouse project and to identify measures that may be necessary to reduce potentially significant impacts.

## CONSTRUCTION-SOURCE EMISSIONS

Project construction-source emissions would not exceed applicable regional thresholds of significance established by the South Coast Air Quality Management District (SCAQMD). For localized emissions, the project will not exceed applicable Localized Significance Thresholds (LSTs) established by the SCAQMD.

Project construction-source emissions would not conflict with the Basin Air Quality Management Plan (AQMP). As discussed herein, the project will comply with all applicable SCAQMD construction-source emission reduction rules and guidelines. Project construction source emissions would not cause or substantively contribute to violation of the California Ambient Air Quality Standards (CAAQS) or National Ambient Air Quality Standards (NAAQS).

Established requirements addressing construction equipment operations, and construction material use, storage, and disposal requirements act to minimize odor impacts that may result from construction activities. Moreover, construction-source odor emissions would be temporary, short-term, and intermittent in nature and would not result in persistent impacts that would affect substantial numbers of people. Potential construction-source odor impacts are therefore considered less than significant.

## OPERATIONAL-SOURCE EMISSIONS

Project operational-sourced emissions would not exceed applicable regional thresholds of significance established by the SCAQMD. Project operational-source emissions would not result in or cause a significant localized air quality impact as discussed in the Operations-Related Local Air Quality Impacts section of this report. Additionally, project-related trips will not cause or result in CO concentrations exceeding applicable state and/or federal standards (CO “hotspots). Project operational-source emissions would therefore not adversely affect sensitive receptors within the vicinity of the project.

Project operational-source emissions would not conflict with the Basin Air Quality Management Plan (AQMP). The project's emissions meet SCAQMD regional thresholds and will not result in a significant cumulative impact. The project does not propose any such uses or activities that would result in potentially significant operational-source odor impacts. Potential operational-source odor impacts are therefore considered less than significant.

## GREENHOUSE GASES

With incorporation of sustainable design and compliance with regulation, regulatory compliance and credit for reductions due to CAPCOA location-based efficiency measures, project-related GHG emissions do not exceed the SCAQMD draft screening threshold of 3,000 MTCO2e per year for all land uses, and GHG emissions are considered to be less than significant.

Furthermore, with incorporation of sustainable design and compliance with regulation, the project's GHG emissions would not exceed the SCAQMD draft screening threshold (based on EO S-3-05). The project would not conflict with the goals of AB-32, SB-32, or the with the City of Torrance Climate Action Plan; therefore, the project would not conflict with an applicable plan, policy or regulation of an agency adopted for the purpose of reducing the emissions of greenhouse gases and impacts are considered to be less than significant.

# 1. INTRODUCTION

This section describes the purpose of this air quality, global climate change, health risk assessment, and energy impact analysis, project location, proposed development, and study area. Figure 1 shows the project location map and Figure 2 illustrates the project site plan.

## PURPOSE AND OBJECTIVES

This study was performed to address the possibility of regional/local air quality impacts and global climate change impacts, from project related air emissions. The objectives of the study include:

- documentation of the atmospheric setting
- discussion of criteria pollutants and greenhouse gases
- discussion of the air quality and global climate change regulatory framework
- discussion of the air quality, greenhouse gases, and cancer risk thresholds of significance
- analysis of the construction related air quality and greenhouse gas emissions
- analysis of the operations related air quality and greenhouse gas emissions
- analysis of the operations related cancer risk from diesel emissions
- analysis of the conformity of the proposed project with the SCAQMD AQMP
- analysis of the project's energy use during construction and operation
- recommendations for mitigation measures

The City of Torrance is the lead agency for this air quality and greenhouse gas analysis, in accordance with the California Environmental Quality Act authorizing legislation. Although this is a technical report, every effort has been made to write the report clearly and concisely. To assist the reader with terms unique to air quality and global climate change, a definition of terms has been provided in Appendix A.

## PROJECT LOCATION

The proposed project is located at the northeast corner of Crenshaw Place and 190$^{th}$ Street at 2555 West 190$^{th}$ Street in the City of Torrance. The project site is currently developed with an existing 160,000 square foot office building that is currently vacant and has not been actively marketed pending the redevelopment of the subject property as proposed by the project, in addition to excess surface parking areas. A vicinity map showing the project location is provided on Figure 1.

According to the SCAQMD's MATES-IV study, the project area has an estimated cancer risk of 1,218.65 in one million chance of cancer. In comparison the average cancer risk for the Los Angeles County is 415 in one million. This increased cancer risk is largely due to the proximity to the I-405 Freeway.

## PROJECT DESCRIPTION

The proposed project includes development of a state-of-the-art industrial warehouse with 305,550 square feet of floor area consisting of 86,780 square feet of warehouse, 198,400 square feet of manufacturing, and 20,370 square feet of office, inclusive of 14,550 square feet of mezzanine space. The project would require demolition of the existing approximately 160,000 square foot office building. Figure 2 illustrates the proposed site plan.

## PHASING AND TIMING

The proposed project is anticipated for opening in 2022. The project is anticipated to be built in one phase. Demolition of the existing building is anticipated to start no sooner mid-June 2020, while building construction is anticipated to begin no sooner than May 2021 and being completed by May 2022.

## SENSITIVE RECEPTORS IN PROJECT VICINITY

Those who are sensitive to air pollution include children, the elderly, and persons with preexisting respiratory or cardiovascular illness. For purposes of CEQA, the SCAQMD considers a sensitive receptor to be a location where a sensitive individual could remain for 24 hours, such as residences, hospitals, or convalescent facilities (South Coast Air Quality Management District 2008). Commercial and industrial facilities are not included in the definition because employees do not typically remain on-site for 24 hours.

The nearest sensitive receptors to the project site include the single-family detached residential dwelling units located on the opposite side of Crenshaw Boulevard, as close as approximately 215 feet west of the project site, and 0.31 miles east of the project site. Other air quality sensitive land uses are located further from the project site and would experience lower impacts.

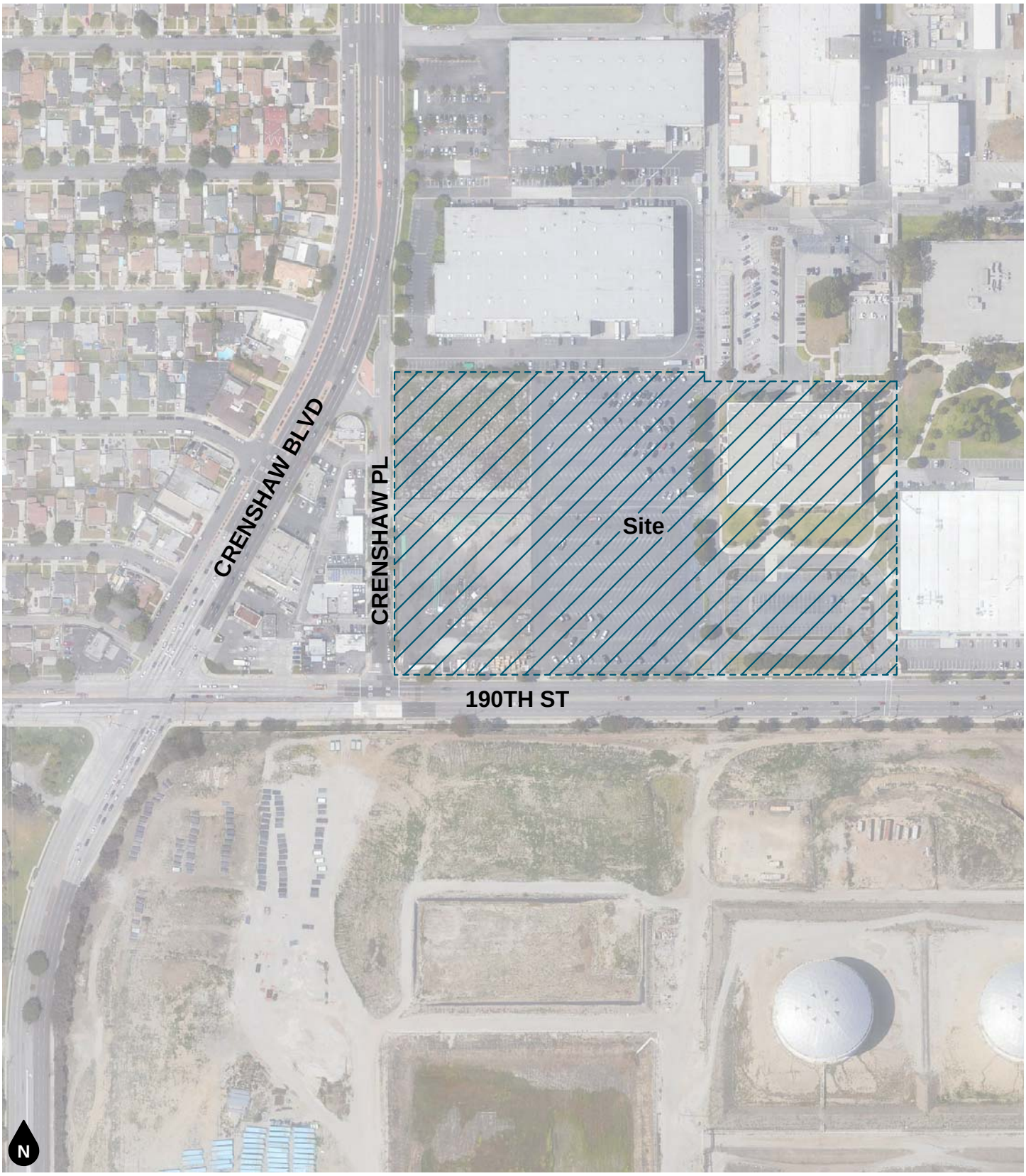



**Figure 1**
**Project Location Map**

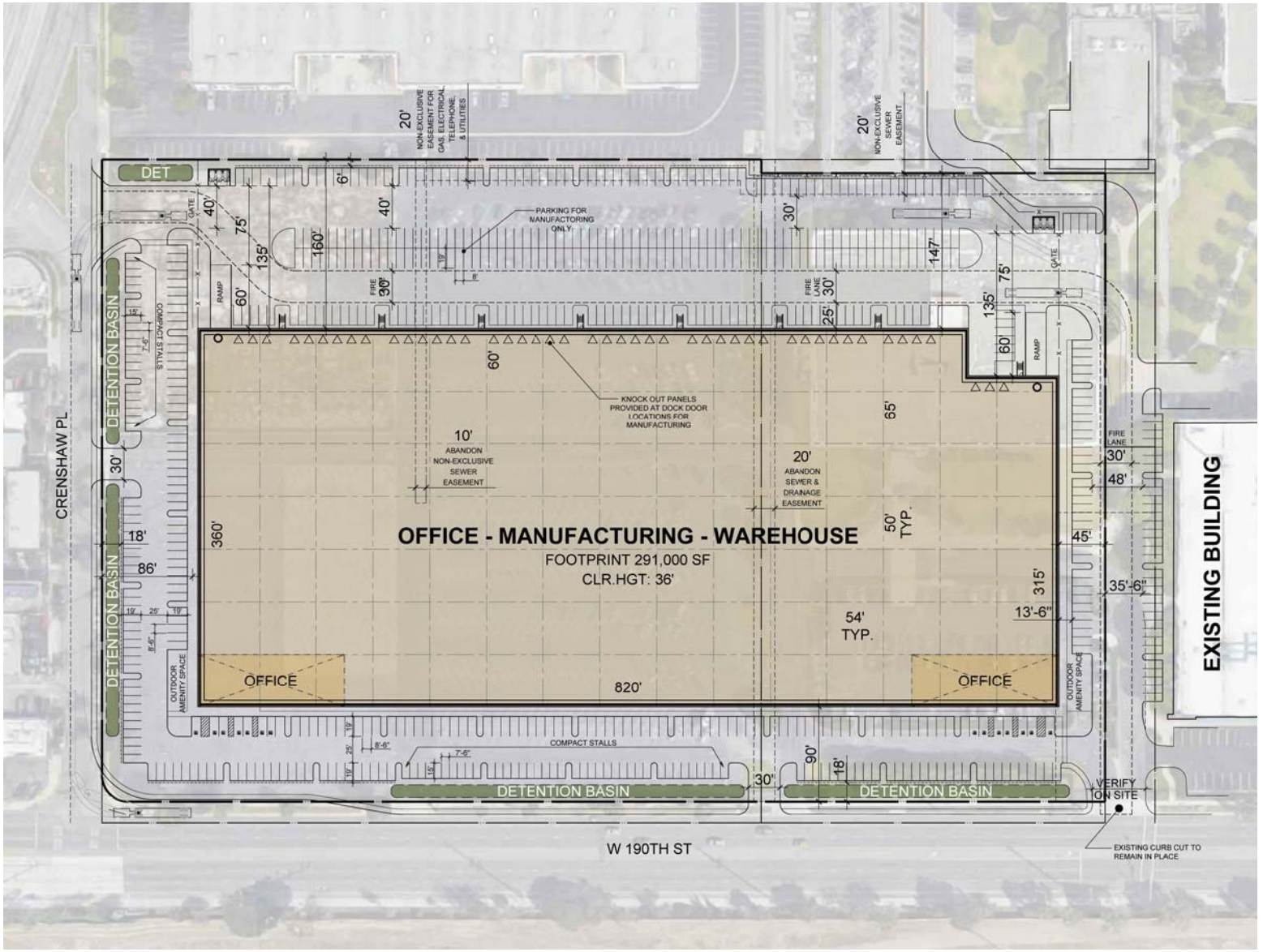



**Figure 2**
**Site Plan**

# 2. AIR QUALITY ANALYSIS

## EXISTING AIR QUALITY CONDITIONS

### Local Air Quality

The project site is located within the City of Torrance, in the southern portion of Los Angeles County, which is part of the South Coast Air Basin (SCAB) that includes all of Orange County as well as the non-desert portions of Los Angeles, Riverside, and San Bernardino Counties. The South Coast Air Basin is located on a coastal plain with connecting broad valleys and low hills to the east. Regionally, the South Coast Air Basin is bounded by the Pacific Ocean to the southwest and high mountains to the east forming the inland perimeter.

Dominant airflows provide the driving mechanism for transport and dispersion of air pollution. The mountains surrounding the region form natural horizontal barriers to the dispersion of air contaminants. Air pollution created in the coastal areas and around the Los Angeles area is transported inland until it reaches the mountains where the combination of mountains and inversion layers generally prevent further dispersion. This poor ventilation results in a gradual degradation of air quality from the coastal areas to inland areas. Air stagnation may occur during the early evening and early morning periods of transition between day and nighttime flows. The region also experiences periods of hot, dry winds from the desert, known as Santa Ana winds. If the Santa Ana winds are strong, they can surpass the sea breeze, which blows from the ocean to the land, and carry the suspended dust and pollutants out to the ocean. If the winds are weak, they are opposed by the sea breeze and cause stagnation, resulting in high pollution events.

The annual average temperature varies little throughout much of the basin, ranging from the low to middle 60s, measured in degrees Fahrenheit (°F). With more pronounced oceanic influence, coastal areas show less variability in annual minimum and maximum temperatures than inland areas. The majority of the annual rainfall in the basin occurs between November and April. Summer rainfall is minimal and is generally limited to scattered thunderstorms in the coastal regions and slightly heavier showers in the eastern portion of the basin along the coastal side of the mountains. Year-to-year patterns in rainfall are unpredictable because of fluctuations in the weather.

Temperature inversions limit the vertical depth through which pollution can be mixed. Among the most common temperature inversions in the basin are radiation inversions, which form on clear winter nights when cold air off mountains sink to the valley floor while the air aloft over the valley remains warm. These inversions, in conjunction with calm winds, trap pollutants near the source. Other types of temperature inversions that affect the basin include marine, subsidence, and high-pressure inversions.

Summers are often periods of hazy visibility and occasionally unhealthful air. Strong temperature inversions may occur that limit the vertical depth through which air pollution can be dispersed. Air pollutants concentrate because they cannot rise through the inversion layer and disperse. These inversions are more common and persistent during the summer months. Over time, sunlight produces photochemical reactions within this inversion layer that creates ozone, a particularly harmful air pollutant. Occasionally, strong thermal convections occur which allows the air pollutants to rise high enough to pass over the mountains and ultimately dilute the smog cloud.

**Table 1**
**Local Monthly Climate Data**

| Descriptor | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Avg. Max. Temperature | 66.5 | 66.8 | 68.1 | 70.6 | 72.3 | 74.6 | 77.8 | 78.8 | 78.1 | 75.4 | 68.4 | 66.8 |
| Avg. Min. Temperature | 46.2 | 47.7 | 49.4 | 51.5 | 55.1 | 58 | 61.3 | 61.9 | 60.5 | 56.5 | 48.9 | 46.3 |
| Avg. Total Precipitation (in.) | 3.19 | 3.68 | 2.33 | 0.82 | 0.26 | 0.07 | 0.05 | 0.03 | 0.16 | 0.62 | 1.16 | 2.29 |

Source: https://wrcc.dri.edu/cgi-bin/cliMAIN.pl?ca8973

Data from the Torrance, CA station (048973).

## Pollutants

Pollutants are generally classified as either criteria pollutants or non-criteria pollutants. Federal ambient air quality standards have been established for criteria pollutants, whereas no ambient standards have been established for non-criteria pollutants. For some criteria pollutants, separate standards have been set for different periods. Most standards have been set to protect public health. For some pollutants, standards have been based on other values (such as protection of crops, protection of materials, or avoidance of nuisance conditions). A summary of federal and state ambient air quality standards is provided in the Regulatory Framework section.

*Criteria Pollutants*

The criteria pollutants consist of: ozone, nitrogen dioxide, carbon monoxide, sulfur dioxide, lead, and particulate matter. These pollutants can harm your health and the environment, and cause property damage. The Environmental Protection Agency (EPA) calls these pollutants "criteria" air pollutants because it regulates them by developing human health-based and/or environmentally-based criteria for setting permissible levels. The following provides descriptions of each of the criteria pollutants.

*Nitrogen Dioxides*

Nitrogen Oxides (NOx) is the generic term for a group of highly reactive gases which contain nitrogen and oxygen. While most NOx are colorless and odorless, concentrations of nitrogen dioxide ($NO_2$) can often be seen as a reddish-brown layer over many urban areas. NOx form when fuel is burned at high temperatures, as in a combustion process. The primary manmade sources of NOx are motor vehicles, electric utilities, and other industrial, commercial, and residential sources that burn fuel. NOx reacts with other pollutants to form, ground-level ozone, nitrate particles, acid aerosols, as well as $NO_2$, which cause respiratory problems. NOx and the pollutants formed from NOx can be transported over long distances, following the patterns of prevailing winds. Therefore, controlling NOx is often most effective if done from a regional perspective, rather than focusing on the nearest sources.

*Ozone*

Ozone ($O_3$) is not usually emitted directly into the air but at ground-level is created by a chemical reaction between NOx and volatile organic compounds (VOC) in the presence of sunlight. Motor vehicle exhaust, industrial emissions, gasoline vapors, chemical solvents as well as natural sources emit NOx and VOC that help form ozone. Ground-level ozone is the primary constituent of smog. Sunlight and hot weather cause ground-level ozone to form with the greatest concentrations usually occurring downwind from urban areas. Ozone is subsequently considered a regional pollutant. Ground-level ozone is a respiratory irritant and an oxidant that increases susceptibility to respiratory infections and can cause substantial damage to vegetation and other materials. Because NOx and VOC are ozone precursors, the health effects associated with ozone are also indirect health effects associated with significant levels of NOx and VOC emissions.

*Carbon Monoxide*

Carbon monoxide (CO) is a colorless, odorless gas that is formed when carbon in fuel is not burned completely. It is a component of motor vehicle exhaust, which contributes about 56 percent of all CO emissions nationwide. In cities, 85 to 95 percent of all CO emissions may come from motor vehicle exhaust. Other sources of CO emissions include industrial processes (such as metals processing and chemical manufacturing), residential wood burning, and natural sources such as forest fires. Woodstoves, gas stoves, cigarette smoke, and unvented gas and kerosene space heaters are indoor sources of CO. The highest levels of CO in the outside air typically occur during the colder months of the year when inversion conditions are more frequent. The air pollution becomes trapped near the ground beneath a layer of warm air. CO is described as having only a local influence because it dissipates quickly. Since CO concentrations are strongly associated with motor vehicle emissions, high CO concentrations generally occur in the immediate vicinity of roadways with high

traffic volumes and traffic congestion, active parking lots, and in automobile tunnels. Areas adjacent to heavily traveled and congested intersections are particularly susceptible to high CO concentrations.

CO is a public health concern because it combines readily with hemoglobin and thus reduces the amount of oxygen transported in the bloodstream. The health threat from lower levels of CO is most serious for those who suffer from heart disease such as angina, clogged arteries, or congestive heart failure. For a person with heart disease, a single exposure to CO at low levels may cause chest pain and reduce that person's ability to exercise; repeated exposures may contribute to other cardiovascular effects. High levels of CO can affect even healthy people. People who breathe high levels of CO can develop vision problems, reduced ability to work or learn, reduced manual dexterity, and difficulty performing complex tasks. At extremely high levels, CO is poisonous and can cause death.

*Sulfur Dioxide*

Sulfur Oxide (SOx) gases (including sulfur dioxide [SO2]) are formed when fuel containing sulfur, such as coal and oil is burned, and from the refining of gasoline. SOx dissolves easily in water vapor to form acid and interacts with other gases and particles in the air to form sulfates and other products that can be harmful to people and the environment.

*Lead*

Lead (Pb) is a metal found naturally in the environment as well as manufactured products. The major sources of lead emissions have historically been motor vehicles and industrial sources. Due to the phase out of leaded gasoline, metal processing is now the primary source of lead emissions to the air. High levels of lead in the air are typically only found near lead smelters, waste incinerators, utilities, and lead-acid battery manufacturers. Exposure of fetuses, infants and children to low levels of lead can adversely affect the development and function of the central nervous system, leading to learning disorders, distractibility, inability to follow simple commands, and lower intelligence quotient. In adults, increased lead levels are associated with increased blood pressure.

*Particulate Matter*

Particulate matter (PM) is the term for a mixture of solid particles and liquid droplets found in the air. Particulate matter is made up of a number of components including acids (such as nitrates and sulfates), organic chemicals, metals, and soil or dust particles. The size of particles is directly linked to their potential for causing health problems. Particles that are less than 10 micrometers in diameter (PM10) are the particles that generally pass through the throat and nose and enter the lungs. Once inhaled, these particles can affect the heart and lungs and cause serious health effects. Particles that are less than 2.5 micrometers in diameter (PM2.5) have been designated as a subset of PM10 due to their increased negative health impacts and its ability to remain suspended in the air longer and travel further.

*Reactive Organic Gases (ROG)*

Although not a criteria pollutant, reactive organic gases (ROGs), or volatile organic compounds (VOCs), are defined as any compound of carbon—excluding carbon monoxide, carbon dioxide, carbonic acid, metallic carbides or carbonates, and ammonium carbonate—that participates in atmospheric photochemical reactions. Although there are slight differences in the definition of ROGs and VOCs, the two terms are often used interchangeably. Indoor sources of VOCs include paints, solvents, aerosol sprays, cleansers, tobacco smoke, etc. Outdoor sources of VOCs are from combustion and fuel evaporation. A reduction in VOC emissions reduces certain chemical reactions that contribute to the formulation of ozone. VOCs are transformed into organic aerosols in the atmosphere, which contribute to higher PM10 and lower visibility.

## Other Pollutants of Concern

*Toxic Air Contaminants*

In addition to the above-listed criteria pollutants, toxic air contaminants (TACs) are another group of pollutants of concern. Sources of toxic air contaminants include industrial processes such as petroleum refining and chrome plating operations, commercial operations such as gasoline stations and dry cleaners, and motor vehicle exhaust. Cars and trucks release at least forty different toxic air contaminants. The most important of these toxic air contaminants, in terms of health risk, are diesel particulates, benzene, formaldehyde, 1,3-butadiene, and acetaldehyde. Public exposure to toxic air contaminants can result from emissions from normal operations as well as from accidental releases. Health effects of toxic air contaminants include cancer, birth defects, neurological damage, and death.

Toxic air contaminants are less pervasive in the urban atmosphere than criteria air pollutants, however they are linked to short-term (acute) or long-term (chronic or carcinogenic) adverse human health effects. There are hundreds of different types of toxic air contaminants with varying degrees of toxicity. Sources of toxic air contaminants include industrial processes, commercial operations (e.g., gasoline stations and dry cleaners), and motor vehicle exhaust.

According to the 2013 California Almanac of Emissions and Air Quality, the majority of the estimated health risk from toxic air contaminants can be attributed to relatively few compounds, the most important of which is diesel particulate matter (DPM). Diesel particulate matter is a subset of PM2.5 because the size of diesel particles are typically 2.5 microns and smaller. The identification of diesel particulate matter as a toxic air contaminant in 1998 led the California Air Resources Board (CARB) to adopt the Risk Reduction Plan to Reduce Particulate Matter Emissions from Diesel-fueled Engines and Vehicles in September 2000. The plan's goals are a 75-percent reduction in diesel particulate matter by 2010 and an 85-percent reduction by 2020 from the 2000 baseline. Diesel engines emit a complex mixture of air pollutants, composed of gaseous and solid material. The visible emissions in diesel exhaust are known as particulate matter or PM, which includes carbon particles or "soot". Diesel exhaust also contains a variety of harmful gases and over 40 other cancer-causing substances. California's identification of diesel particulate matter as a toxic air contaminant was based on its potential to cause cancer, premature deaths, and other health problems. Exposure to diesel particulate matter is a health hazard, particularly to children whose lungs are still developing and the elderly who may have other serious health problems. Overall, diesel engine emissions are responsible for the majority of California's potential airborne cancer risk from combustion sources.

*Asbestos*

Asbestos is listed as a TAC by the ARB and as a Hazardous Air Pollutant by the EPA. Asbestos occurs naturally in mineral formations and crushing or breaking these rocks, through construction or other means, can release asbestiform fibers into the air. Asbestos emissions can result from the sale or use of asbestos-containing materials, road surfacing with such materials, grading activities, and surface mining. The risk of disease is dependent upon the intensity and duration of exposure. When inhaled, asbestos fibers may remain in the lungs and with time may be linked to such diseases as asbestosis, lung cancer, and mesothelioma. Naturally occurring asbestos is not present in Los Angeles County. The nearest likely locations of naturally occurring asbestos, as identified in the General Location Guide for Ultramafic Rocks in California prepared by the California Division of Mines and Geology, is located in Santa Barbara County. Due to the distance to the nearest natural occurrences of asbestos, the project site is not likely to contain asbestos.

## REGULATORY SETTING

The proposed project is addressed through the efforts of various international, federal, state, regional, and local government agencies. These agencies work jointly, as well as individually, to improve air quality through legislation, regulations, planning, policy making, education, and a variety of programs. The agencies responsible for improving the air quality are discussed below.

## Federal – United States Environmental Protection Agency

The United States Environmental Protection Agency (EPA) is responsible for setting and enforcing the National Ambient Air Quality Standards (NAAQS) for atmospheric pollutants. It regulates emission sources that are under the exclusive authority of the federal government, such as aircraft, ships, and certain locomotives. The National Ambient Air Quality Standards (NAAQS) pollutants were identified using medical evidence and are shown below in Table 2.

The EPA and the California Air Resource Board (CARB) designate air basins where ambient air quality standards are exceeded as "nonattainment" areas. If standards are met, the area is designated as an "attainment" area. If there is inadequate or inconclusive data to make a definitive attainment designation, they are considered "unclassified." National nonattainment areas are further designated as marginal, moderate, serious, severe, or extreme as a function of deviation from standards. Each standard has a different definition, or 'form' of what constitutes attainment, based on specific air quality statistics. For example, the Federal 8-hour CO standard is not to be exceeded more than once per year; therefore, an area is in attainment of the CO standard if no more than one 8-hour ambient air monitoring values exceeds the threshold per year. In contrast, the Federal annual PM2.5 standard is met if the three-year average of the annual average PM2.5 concentration is less than or equal to the standard. Attainment status is shown in Table 3.

As part of its enforcement responsibilities, the EPA requires each state with federal nonattainment areas to prepare and submit a State Implementation Plan (SIP) that demonstrates the means to attain the national standards. The State Implementation Plan (SIP) must integrate federal, state, and local components and regulations to identify specific measures to reduce pollution, using a combination of performance standards and market-based programs within the timeframe identified in the State Implementation Plan (SIP).

As indicated below in Table 3, the Basin has been designated by the EPA as a non-attainment area for ozone ($O_3$) and suspended particulates (PM10 and PM2.5). Currently, the Basin is in attainment with the ambient air quality standards for carbon monoxide (CO), lead, sulfur dioxide ($SO_2$), suspended particulate matter (PM-2.5), and nitrogen dioxide ($NO_2$).

## State – California Air Resources Board

The California Air Resources Board (CARB), which is a part of the California Environmental Protection Agency, is responsible for the coordination and administration of both federal and state air pollution control programs within California. In this capacity, the CARB conducts research, sets the California Ambient Air Quality Standards (CAAQS), compiles emission inventories, develops suggested control measures, provides oversight of local programs, and prepares the State Implementation Plan (SIP). The California Ambient Air Quality Standards (CAAQS) for criteria pollutants are shown in Table 2. In addition, the CARB establishes emission standards for motor vehicles sold in California, consumer products (e.g., hairspray, aerosol paints, and barbeque lighter fluid), and various types of commercial equipment. It also sets fuel specifications to further reduce vehicular emissions.

The South Coast Air Basin has been designated by the CARB as a nonattainment area for ozone, PM10 and PM2.5. Currently, the South Coast Air Basin is in attainment with the ambient air quality standards for CO, lead, SO2, NO2, and sulfates and is unclassified for visibility reducing particles and Hydrogen Sulfide.

On June 20, 2002, the CARB revised the PM10 annual average standard to 20 µg/m3 and established an annual average standard for PM2.5 of 12 µg/m3. These standards were approved by the Office of Administrative Law in June 2003 and are now effective. On September 27, 2007 CARB approved the South Coast Air Basin and the Coachella Valley 2007 Air Quality Management Plan for Attaining the Federal 8-hour Ozone and PM2.5 Standards. The plan projected attainment for the 8-hour Ozone standard by 2024 and the PM2.5 standard by 2015.

On December 12, 2008 the CARB adopted Resolution 08-43, which limits NOx, PM10 and PM2.5 emissions from on-road diesel truck fleets that operate in California. On October 12, 2009 Executive Order R-09-010 was adopted that codified Resolution 08-43 into Section 2025, Title 13 of the California Code of Regulations. This regulation requires that by the year 2023 all commercial diesel trucks that operate in California shall meet model year 2010 (Tier 4) or latter emission standards. In the interim period, this regulation provides annual interim targets for fleet owners to meet. This regulation also provides a few exemptions including a onetime per year 3-day pass for trucks registered outside of California.

The CARB is also responsible for regulations pertaining to toxic air contaminants. The Air Toxics "Hot Spots" Information and Assessment Act (AB 2588, 1987, Connelly) was enacted in 1987 as a means to establish a formal air toxics emission inventory risk quantification program. AB 2588, as amended, establishes a process that requires stationary sources to report the type and quantities of certain substances their facilities routinely release into the South Coast Air Basin. The data is ranked by high, intermediate, and low categories, which are determined by: the potency, toxicity, quantity, volume, and proximity of the facility to nearby receptors.

*AB 617 Nonvehicular air pollution: criteria air pollutants and toxic air contaminants*

This bill requires the state board to develop a uniform statewide system of annual reporting of emissions of criteria air pollutants and toxic air contaminants for use by certain categories of stationary sources. The bill requires those stationary sources to report their annual emissions of criteria air pollutants and toxic air contaminants, as specified. This bill required the state board, by October 1, 2018, to prepare a monitoring plan regarding technologies for monitoring criteria air pollutants and toxic air contaminants and the need for and benefits of additional community air monitoring systems, as defined. The bill requires the state board to select, based on the monitoring plan, the highest priority locations in the state for the deployment of community air monitoring systems. The bill requires an air district containing a selected location, by July 1, 2019, to deploy a system in the selected location. The bill would authorize the air district to require a stationary source that emits air pollutants in, or that materially affect, the selected location to deploy a fence-line monitoring system, as defined, or other specified real-time, on-site monitoring. The bill authorizes the state board, by January 1, 2020, and annually thereafter, to select additional locations for the deployment of the systems. The bill would require air districts that have deployed a system to provide to the state board air quality data produced by the system. By increasing the duties of air districts, this bill would impose a state-mandated local program. The bill requires the state board to publish the data on its Internet Web site.

## Regional

The SCAQMD is the agency principally responsible for comprehensive air pollution control in the South Coast Air Basin. To that end, as a regional agency, the SCAQMD works directly with the Southern California Association of Governments (SCAG), county transportation commissions, and local governments and cooperates actively with all federal and state agencies.

### South Coast Air Quality Management District

The SCAQMD develops rules and regulations, establishes permitting requirements for stationary sources, inspects emission sources, and enforces such measures through educational programs or fines, when necessary. The SCAQMD is directly responsible for reducing emissions from stationary, mobile, and indirect sources. It has responded to this requirement by preparing a sequence of AQMPs. On June 30, 2016, the SCAQMD released its Draft 2016 AQMP. The 2016 AQMP is a regional blueprint for achieving the federal air quality standards and healthful air.

### Air Quality Management Plan

The 2016 AQMP includes both stationary and mobile source strategies to ensure that rapidly approaching attainment deadlines are met, that public health is protected to the maximum extent feasible, and that the region is not faced with burdensome sanctions if the Plan is not approved or if the NAAQS are not met on

time. As with every AQMP, a comprehensive analysis of emissions, meteorology, atmospheric chemistry, regional growth projections, and the impact of existing control measures is updated with the latest data and methods. The most significant air quality challenge in the Basin is to reduce nitrogen oxide (NOx) emissions sufficiently to meet the upcoming ozone standard deadlines. On March 23, 2017 the CARB approved the 2016 AQMP. The primary goal of this Air Quality Management Plan is to meet clean air standards and protect public health, including ensuring benefits to environmental justice and disadvantaged communities. Now that the Plan has been approved by the CARB, it has been forwarded to the U.S. EPA for its review. The Plan was approved by the EPA on June 15, 2017.

SCAQMD Rules and Regulations

During construction and operation, the project must comply with applicable rules and regulations. The following are rules the project may be required to comply with, either directly, or indirectly:

*SCAQMD Rule 402*

Prohibits a person from discharging from any source whatsoever such quantities of air contaminants or other material which cause injury, detriment, nuisance, or annoyance to any considerable number of persons or to the public, or which endanger the comfort, repose, health or safety of any such persons or the public, or which cause, or have a natural tendency to cause, injury or damage to business or property.

*SCAQMD Rule 403*

Governs emissions of fugitive dust during construction and operation activities. Compliance with this rule is achieved through application of standard Best Management Practices, such as application of water or chemical stabilizers to disturbed soils, covering haul vehicles, restricting vehicle speeds on unpaved roads to 15 miles per hour, sweeping loose dirt from paved site access roadways, cessation of construction activity when winds exceed 25 mph, and establishing a permanent ground cover on finished sites.

Rule 403 requires that fugitive dust be controlled with best available control measures so that the presence of such dust does not remain visible in the atmosphere beyond the property line of the emission source. In addition, SCAQMD Rule 403 requires implementation of dust suppression techniques to prevent fugitive dust from creating a nuisance off-site. Applicable dust suppression techniques from Rule 403 are summarized below. Implementation of these dust suppression techniques can reduce the fugitive dust generation (and thus the $PM_{10}$ component). Compliance with these rules would reduce impacts on nearby sensitive receptors. Rule 403 measures may include but are not limited to the following:

- Apply nontoxic chemical soil stabilizers according to manufacturers' specifications to all inactive construction areas (previously graded areas inactive for 10 days or more).
- Water active sites at least three times daily. (Locations where grading is to occur will be thoroughly watered prior to earthmoving.)
- Cover all trucks hauling dirt, sand, soil, or other loose materials, or maintain at least 0.6 meters (2 feet) of freeboard (vertical space between the top of the load and top of the trailer) in accordance with the requirements of California Vehicle Code section 23114.
- Reduce traffic speeds on all unpaved roads to 15 miles per hour (mph) or less.
- Suspension of all grading activities when wind speeds (including instantaneous wind gusts) exceed 25 mph.
- Bumper strips or similar best management practices shall be provided where vehicles enter and exit the construction site onto paved roads or wash off trucks and any equipment leaving the site each trip.
- Replanting disturbed areas as soon as practical.
- During all construction activities, construction contractors shall sweep on-site and off-site streets if silt is carried to adjacent public thoroughfares, to reduce the amount of particulate matter on public streets. All sweepers shall be compliant with SCAQMD Rule 1186.1, Less Polluting Sweepers.

*SCAQMD Rule 445*

Prohibits permanently installed wood burning devices into any new development. A wood burning device means any fireplace, wood burning heater, or pellet-fueled wood heater, or any similarly enclosed, permanently installed, indoor or outdoor device burning any solid fuel for aesthetic or space-heating purposes, which has a heat input of less than one million British thermal units per hour.

*SCAQMD Rule 481*

Applies to all spray painting and spray coating operations and equipment. The rule states that a person shall not use or operate any spray painting or spray coating equipment unless one of the following conditions is met:

(1) The spray coating equipment is operated inside a control enclosure, which is approved by the Executive Officer. Any control enclosure for which an application for permit for new construction, alteration, or change of ownership or location is submitted after the date of adoption of this rule shall be exhausted only through filters at a design face velocity not less than 100 feet per minute nor greater than 300 feet per minute, or through a water wash system designed to be equally effective for the purpose of air pollution control.
(2) Coatings are applied with high-volume low-pressure, electrostatic and/or airless spray equipment.
(3) An alternative method of coating application or control is used which has effectiveness equal to or greater than the equipment specified in the rule.

*SCAQMD Rule 1108*

Governs the sale, use, and manufacturing of asphalt and limits the volatile organic compound (VOC) content in asphalt used in the South Coast Air Basin. This rule would regulate the VOC content of asphalt used during construction. Therefore, all asphalt used during construction of the project must comply with SCAQMD Rule 1108.

*SCAQMD Rule 1113*

Governs the sale, use, and manufacturing of architectural coating and limits the VOC content in paints and paint solvents. This rule regulates the VOC content of paints available during construction. Therefore, all paints and solvents used during construction and operation of the project must comply with SCAQMD Rule 1113.

*SCAQMD Rule 1143*

Governs the manufacture, sale, and use of paint thinners and solvents used in thinning of coating materials, cleaning of coating application equipment, and other solvent cleaning operations by limiting their VOC content. This rule regulates the VOC content of solvents used during construction. Solvents used during the construction phase must comply with this rule.

*SCAQMD Rule 1186*

Limits the presence of fugitive dust on paved and unpaved roads and sets certification protocols and requirements for street sweepers that are under contract to provide sweeping services to any federal, state, county, agency or special district such as water, air, sanitation, transit, or school district.

*SCAQMD Rule 1303*

Governs the permitting of re-located or new major emission sources, requiring Best Available Control Measures and setting significance limits for $PM_{10}$ among other pollutants.

*SCAQMD Rule 1401*

New Source Review of Toxic Air Contaminants, specifies limits for maximum individual cancer risk, cancer burden, and non-cancer acute and chronic hazard index from new permit units, relocations, or modifications to existing permit units, which emit toxic air contaminants.

*SCAQMD Rule 1403*

Asbestos Emissions from Demolition/Renovation Activities, specifies work practice requirements to limit asbestos emissions from building demolition and renovation activities, including the removal and associated disturbance of asbestos-containing materials (ACM).

*SCAQMD Rule 2202*

On-Road Motor Vehicle Mitigation Options, is to provide employers with a menu of options to reduce mobile source emissions generated from employee commutes, to comply with federal and state Clean Air Act requirements, Health & Safety Code Section 40458, and Section 182(d)(1)(B) of the federal Clean Air Act. It applies to any employer who employs 250 or more employees on a full or part-time basis at a worksite for a consecutive six-month period calculated as a monthly average.

In order to assist local agencies with direction on GHG emissions, the SCAQMD organized a working group and adopted Rules 2700, 2701, 2702, and 3002 which are described below.

*SCAQMD Rules 2700 and 2701*

The SCAQMD adopted Rules 2700 and 2701 on December 5, 2008, which establishes the administrative structure for a voluntary program designed to quantify GHG emission reductions. Rule 2700 establishes definitions for the various terms used in Regulation XXVII – Global Climate Change. Rule 2701 provides specific protocols for private parties to follow to generate certified GHG emission reductions for projects within the district. Approved protocols include forest projects, urban tree planting, and manure management. The SCAQMD is currently developing additional protocols for other reduction measures. For a GHG emission reduction project to qualify, it must be verified and certified by the SCAQMD Executive Officer, who has 60 days to approve or deny the Plan to reduce GHG emissions. Upon approval of the Plan, the Executive Officer issues required to issue a certified receipt of the GHG emission reductions within 90 days.

*SCAQMD Rule 2702*

The SCAQMD adopted Rule 2702 on February 6, 2009, which establishes a voluntary air quality investment program from which SCAQMD can collect funds from parties that desire certified GHG emission reductions, pool those funds, and use them to purchase or fund GHG emission reduction projects within two years, unless extended by the Governing Board. Priority will be given to projects that result in co-benefit emission reductions of GHG emissions and criteria or toxic air pollutants within environmental justice areas. Further, this voluntary program may compete with the cap-and-trade program identified for implementation in CARB's Scoping Plan, or a Federal cap and trade program.

*SCAQMD Rule 3002*

The SCAQMD amended Rule 3002 on November 5, 2010 to include facilities that emit greater than 100,000 tons per year of $CO_2e$ are required to apply for a Title V permit by July 1, 2011. A Title V permit is for facilities that are considered major sources of emissions.

## Air Quality Guidance Documents

*SCAQMD CEQA Handbook*

Although the SCAQMD is responsible for regional air quality planning efforts, it does not have the authority to directly regulate air quality issues associated with plans and new development projects throughout the South Coast Air Basin. Instead, this is controlled through local jurisdictions in accordance with the California Environmental Quality Act (CEQA). In order to assist local jurisdictions with air quality compliance issues the CEQA Air Quality Handbook (SCAQMD CEQA Handbook) prepared by the SCAQMD (1993) with the most current updates found at http://www.aqmd.gov/ceqa/hdbk.html, was developed in accordance with the projections and programs of the AQMP. The purpose of the SCAQMD CEQA Handbook is to assist Lead Agencies, as well as consultants, project proponents, and other interested parties in evaluating a proposed project's potential air quality impacts. Specifically, the SCAQMD CEQA Handbook explains the procedures that the SCAQMD recommends be followed for the environmental review process required by CEQA. The SCAQMD CEQA Handbook provides direction on how to evaluate potential air quality impacts, how to determine whether these impacts are significant, and how to mitigate these impacts. SCAQMD is in the process of developing an "Air Quality Analysis Guidance Handbook" to replace the CEQA Air Quality Handbook approved by the AQMD Governing Board in 1993. The 1993 CEQA Air Quality Handbook is still available but not online. In addition, there are sections of the 1993 Handbook that are obsolete. In order to assist the CEQA practitioner in conducting an air quality analysis while the new Handbook is being prepared, supplemental information regarding: significance thresholds and analysis, emissions factors, cumulative impacts emissions analysis, and other useful subjects, are available at the SCAQMD website.[1] The SCAQMD CEQA Handbook and supplemental information is used in this analysis.

*Southern California Association of Governments*

The SCAG is the regional planning agency for Los Angeles, Orange, Ventura, Riverside, San Bernardino and Imperial Counties and addresses regional issues relating to transportation, the economy, community development and the environment. SCAG is the Federally designated MPO for the majority of the southern California region and is the largest MPO in the nation. With respect to air quality planning, SCAG has prepared the Regional Transportation Plan and Regional Transportation Improvement Plan (RTIP), which addresses regional development and growth forecasts. These plans form the basis for the land use and transportation components of the AQMP, which are utilized in the preparation of air quality forecasts and in the consistency analysis included in the AQMP. The Regional Transportation Plan, Regional Transportation Improvement Plan, and AQMP are based on projections originating within the City and County General Plans.

On April 7, 2016, SCAG's Regional Council adopted the 2016-2040 Regional Transportation Plan/ Sustainable Communities Strategy (2016 RTP/SCS or Plan). The Plan is a long-range visioning plan that balances future mobility and housing needs with economic, environmental and public health goals. The Plan charts a course for closely integrating land use and transportation – so that the region can grow smartly and sustainably. It outlines more than $556.5 billion in transportation system investments through 2040. The Plan was prepared through a collaborative, continuous, and comprehensive process with input from local governments, county transportation commissions, tribal governments, non-profit organizations, businesses and local stakeholders within the counties of Imperial, Los Angeles, Orange, Riverside, San Bernardino and Ventura. In June 2016, SCAG received its conformity determination from the Federal Highway Administration (FHWA) and the Federal Transit Administration (FTA) indicating that all air quality conformity requirements for the 2016 RTP/SCS and associated 2015 FTIP Consistency Amendment through Amendment 15-12 have been met.

## Local – City of Torrance

Local jurisdictions, such as the City of Torrance, have the authority and responsibility to reduce air pollution through its police power and decision-making authority. Specifically, the City is responsible for the assessment

[1] http://www.aqmd.gov/home/regulations/ceqa/air-quality-analysis-handbook.

and mitigation of air emissions resulting from its land use decisions. The City is also responsible for the implementation of transportation control measures as outlined in the 2016 AQMP. Examples of such measures include bus turnouts, energy-efficient streetlights, and synchronized traffic signals. In accordance with CEQA requirements and the CEQA review process, the City assesses the air quality impacts of new development projects, requires mitigation of potentially significant air quality impacts by conditioning discretionary permits, and monitors and enforces implementation of such mitigation.

The City relies on the expertise of the SCAQMD and utilizes the SCAQMD CEQA Air Quality Handbook as the guidance document for the environmental review of plans and development proposals within its jurisdiction.

The Community Resources Element of the City of Torrance General Plan contains the following air quality-related objectives and policies that are applicable to the proposed project:

Objective CR.13 To contribute to the improvement of local and regional ambient air quality to benefit the health of all.

*Policies*

CR.13.1 Continue to participate in the efforts of the State Air Resources Board and the South Coast Air Quality Management District to meet State and federal air quality standards.

CR.13.2 Work with neighboring cities to implement local and regional projects that improve mobility on freeways and railways, reduce emissions, and improve air quality.

CR.13.3 Support regional air quality goals through conscientious land use and transportation planning and the implementation of resource conservation measures.

CR13.4 Balance the achievement of clean air with other major goals of the City.

CR.13.5 Support air quality and energy and resource conservation by encouraging alternative modes of transportation such as walking, bicycling, transit, and carpooling.

CR.13.6 Promote citizen awareness and participation in programs to reduce air pollution and traffic congestion.

CR.13.7 Encourage the use of alternative fuel vehicles and re-refined oil.

CR13.8 Promote energy-efficient building construction and operation practices that reduce emissions and improve air quality.

Objective CR.14 To reduce the City's overall carbon footprint and counteract the effects of global warming through a reduction in the emissions of greenhouse gases within Torrance.

CR14.1 Support the California Air Resources Board in its ongoing plans to implement AB32, and fully follow any new AB32-related regulations.

CR.14.2 Develop and implement greenhouse gas emissions reduction measures, including discrete, early-action greenhouse gas reducing measures that are technologically feasible and cost-effective.

CR.14.3 Pursue actions recommended in the U.S. Mayors Climate Protection Agreement to meet AB32 requirements.

CR.14.4 Act as a leader and example in sustainability and reduction in greenhouse gas emissions by conducting City business in the most greenhouse gas-sensitive way.

**Table 2**
**State and Federal Criteria Pollutant Standards**

| Air Pollutant | Concentration / Averaging Time | | Most Relevant Effects |
|---|---|---|---|
| | California Standards | Federal Primary Standards | |
| Ozone ($O_3$) | 0.09 ppm/1-hour<br>0.07 ppm/8-hour | 0.070 ppm/8-hour | (a) Decline in pulmonary function and localized lung edema in humans and animals; (b) Risk to public health implied by alterations in pulmonary morphology and host defense in animals; (c) Increased mortality risk; (d) Risk to public health implied by altered connective tissue metabolism and altered pulmonary morphology in animals after long-term exposures and pulmonary function decrements in chronically exposed humans; (e) Vegetation damage; and (f) Property damage. |
| Carbon Monoxide (CO) | 20.0 ppm/1-hour<br>9.0 ppm/8-hour | 35.0 ppm/1-hour<br>9.0 ppm/8-hour | (a) Aggravation of angina pectoris and other aspects of coronary heart disease; (b) Decreased exercise tolerance in persons with peripheral vascular disease and lung disease; (c) Impairment of central nervous system functions; and (d) Possible increased risk to fetuses. |
| Nitrogen Dioxide ($NO_2$) | 0.18 ppm/1-hour<br>0.03 ppm/annual | 100 ppb/1-hour<br>0.053 ppm/annual | (a) Potential to aggravate chronic respiratory disease and respiratory symptoms in sensitive groups; (b) Risk to public health implied by pulmonary and extra-pulmonary biochemical and cellular changes and pulmonary structural changes; and (c) Contribution to atmospheric discoloration. |
| Sulfur Dioxide ($SO_2$) | 0.25 ppm/1-hour<br>0.04 ppm/24-hour | 75 ppb/1-hour<br>0.14 ppm/annual | (a) Bronchoconstriction accompanied by symptoms which may include wheezing, shortness of breath and chest tightness, during exercise or physical activity in persons with asthma. |
| Suspended Particulate Matter ($PM_{10}$) | 50 µg/$m^3$/24-hour<br>20 µg/$m^3$/annual | 150 µg/$m^3$/24-hour | (a) Exacerbation of symptoms in sensitive patients with respiratory or cardiovascular disease; (b) Declines in pulmonary function growth in children; (c) Increased risk of premature death from heart or lung diseases in elderly. |
| Suspended Particulate Matter ($PM_{2.5}$) | 12 µg/$m^3$ / annual | 35 µg/$m^3$/24-hour<br>12 µg/$m^3$/annual | |
| Sulfates | 25 µg/$m^3$/24-hour | No Federal Standards | (a) Decrease in ventilatory function; (b) Aggravation of asthmatic symptoms; (c ) Aggravation of cardio-pulmonary disease; (d) Vegetation damage; (e) Degradation of visibility; (f) property damage. |
| Lead | 1.5 µg/$m^3$/30-day | 0.15 µg/$m^3$/3-month rolling | (a) Learning disabilities; (b) Impairment of blood formation and nerve conduction. |
| Visibility Reducing Particles | Extinction coefficient of 0.23 per kilometer-visibility of 10 miles or more due to particles when humidity is less than 70 percent. | No Federal Standards | Visibility impairment on days when relative humidity is less than 70 percent. |

Source: http://www3.epa.gov/climatechange/ghgemissions/gases.html

**Table 3**
**South Coast Air Basin Attainment Status**

| Pollutant | State Status | National Status |
|---|---|---|
| Ozone | Nonattainment | Nonattainment (Extreme) |
| Carbon monoxide | Attainment | Attainment/Unclassified |
| Nitrogen dioxide | Attainment | Attainment/Unclassified |
| Sulfur dioxide | Attainment | Attainment/Unclassified |
| PM10 | Nonattainment | Attainment (Maintenance) |
| PM2.5 | Nonattainment | Nonattainment (Moderate) |

Source: (Federal and State Status): California Air Resources Board, October 2018.

## MONITORED AIR QUALITY

The air quality at any site is dependent on the regional air quality and local pollutant sources. Regional air quality is determined by the release of pollutants throughout the air basin. Estimates of the existing emissions in the Basin provided in the Final 2016 Air Quality Management Plan prepared by SCAQMD (March 2017) indicate that collectively, mobile sources account for 60 percent of the VOC, 90 percent of the NOx emissions, 95 percent of the CO emissions and 34 percent of directly emitted PM2.5, with another 13 percent of PM2.5 from road dust.

The EPA and the ARB designate air basins where ambient air quality standards are exceeded as "nonattainment" areas. If standards are met, the area is designated as an "attainment" area. If there is inadequate or inconclusive data to make a definitive attainment designation, they are considered "unclassified". National nonattainment areas are further designated as marginal, moderate, serious, severe, or extreme as a function of deviation from standards. Each standard has a different definition, or 'form' of what constitutes attainment, based on specific air quality statistics. For example, the Federal 8-hour CO standard is not to be exceeded more than once per year; therefore, an area is in attainment of the CO standard if no more than one 8-hour ambient air monitoring values exceeds the threshold per year. In contrast, the Federal annual PM2.5 standard is met if the three-year average of the annual average PM2.5 concentration is less than or equal to the standard. Attainment status is shown in Table 3.

The SCAQMD has divided the South Coast Air Basin into 38 air-monitoring areas with a designated ambient air monitoring station representative of each area. The project site is located in the Southwest Coastal LA County Air Monitoring Area (Area 3), which is located in Los Angeles County and covers from the area from the Pacific Ocean on the west, the Interstate 110 Freeway on the east, Slauson Avenue on the north, and San Pedro on the south. The nearest air monitoring station to the project site is the Long Beach – 2425 Webster Street Monitoring Station (Long Beach Station). The Long Beach Station is located approximately 7.11 miles southeast of the project site at 2425 Webster Street, Long Beach. As not all monitoring stations monitor all pollutants, data was also taken from the next nearest monitoring station, Compton – 700 North Bullis Road Monitoring Station (Compton Station). The Compton Station is located approximately 7.27 miles northeast of the project site at 700 North Bullis Road, Compton. Table 4 presents the monitored pollutant levels from the Long Beach and Compton Stations. However, it should be noted that due to the air monitoring stations distances from the project site, recorded air pollution levels at the air monitoring stations reflect with varying degrees of accuracy, local air quality conditions at the project site.

Table 4 summarizes 2016 through 2018 published monitoring data, which is the most recent 3-year period available. The data shows that during the past few years, the project area has exceeded the particulate matter (PM2.5 and PM10) standards.

Ozone

During the 2016 to 2018 monitoring period, the State 1-hour concentration standard for ozone was not exceeded at the Long Beach Station. The State 8-hour ozone standard was not over the past three years at the Long Beach Station. The Federal 8-hour ozone standard was not exceeded over the past three years at the Long Beach Station.

Ozone is a secondary pollutant as it is not directly emitted. Ozone is the result of chemical reactions between other pollutants, most importantly hydrocarbons and $NO_2$, which occur only in the presence of bright sunlight. Pollutants emitted from upwind cities react during transport downwind to produce the oxidant concentrations experienced in the area. Many areas of the SCAQMD contribute to the ozone levels experienced at the monitoring station, with the more significant areas being those directly upwind.

Carbon Monoxide

CO is another important pollutant that is due mainly to motor vehicles. The Long Beach Station did not record an exceedance of the state or federal 8-hour CO standard for the last three years.

Nitrogen Dioxide

The Long Beach Station did not record an exceedance of the State or Federal $NO_2$ standards for the last three years.

Particulate Matter

The State 24-hour concentration standards for PM10 were exceeded between four and 10 days each year over the last three years at the Long Beach Station. Over the past three years, the Federal 24-hour standards for PM10 were not exceeded at the Long Beach Station.

The Federal 24 hour standard for PM2.5 were exceeded between one and five days each year over the past three years at the Compton Station.

According to the EPA, some people are much more sensitive than others to breathing fine particles (PM10 and PM2.5). People with influenza, chronic respiratory and cardiovascular diseases, and the elderly may suffer worsening illness and premature death due to breathing these fine particles. People with bronchitis can expect aggravated symptoms from breathing in fine particles. Children may experience decline in lung function due to breathing in PM10 and PM2.5. Other groups considered sensitive are smokers and people who cannot breathe well through their noses. Exercising athletes are also considered sensitive, because many breathe through their mouths during exercise.

## Table 4
## Air Quality Monitoring Summary

| Pollutant (Standard)[1] | | Year | | |
|---|---|---|---|---|
| | | 2016 | 2017 | 2018 |
| Ozone: | Maximum 1-Hour Concentration (ppm) | 0.079 | 0.082 | 0.074 |
| | Days > CAAQS (0.09 ppm) | 0 | 0 | 0 |
| | Maximum 8-Hour Concentration (ppm) | 0.059 | 0.069 | 0.064 |
| | Days > NAAQS (0.070 ppm) | 0 | 0 | 0 |
| | Days > CAAQS (0.070 ppm) | 0 | 0 | 0 |
| Carbon Monoxide: | Maximum 8-Hour Concentration (ppm) | * | * | * |
| | Days > CAAQS (9 ppm) | 0 | 0 | 0 |
| | Days > NAAQS (9 ppm) | 0 | 0 | 0 |
| Nitrogen Dioxide: | Maximum 1-Hour Concentration (ppm) | 0.076 | 0.090 | 0.085 |
| | Days > CAAQS (0.18 ppm) | 0 | 0 | 0 |
| Inhalable Particulates (PM10): | Maximum 24-Hour Concentration (µg/m$^3$) | 75.3 | 79.0 | 84.0 |
| | Days > NAAQS (150 µg/m3) | 0 | 0 | 0 |
| | Days > CAAQS (50 µg/m3) | 8 | 10 | 4 |
| | Annual Average (µg/m3) | 31.9 | 33.5 | 32.7 |
| Ultra-Fine Particulates (PM2.5):[2] | Maximum 24-Hour Concentration (µg/m3) | 36.3 | 66.7 | 49.4 |
| | Days > NAAQS (35 µg/m3) | 1 | 5 | 2 |
| | Annual Average (µg/m3) | 11 | 13.2 | 13.2 |

Notes:

Source: http://www.arb.ca.gov/adam/topfour/topfour1.php. Data from the Long Beach -2425 Webster Street Monitoring Station, unless otherwise noted.

(1) CAAQS = California Ambient Air Quality Standard; NAAQS = National Ambient Air Quality Standard; ppm = parts per million

* Means there was insufficient data available to determine value.

## AIR QUALITY STANDARDS

### Significance Thresholds

*Appendix G of the State CEQA Guidelines*

Appendix G of the State CEQA Guidelines states that, where available, the significance criteria established by the applicable air quality management district or air pollution control district may be relied upon to make a significance determination. Pursuant to Appendix G, the project would result in a significant impact related to air quality if it would:

- Conflict with or obstruct the implementation of the applicable air quality plan;
- Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is nonattainment under an applicable federal or state ambient air quality standard;
- Expose sensitive receptors to substantial pollutant concentrations; or
- Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people.

The CEQA Guidelines Section 15064.7 provides the significance criteria established by the applicable air quality management district or air pollution control district, when available, may be relied upon to make determinations of significance. The potential air quality impacts of the project are, therefore, evaluated according to thresholds developed by SCAQMD in their CEQA Air Quality Handbook, Air Quality Analysis Guidance Handbook, and subsequent guidance, which are listed below.[2] Therefore, the project would result in a potentially significant impact to air quality if it would:

AIR-1: Conflict with or obstruct the implementation of the applicable air quality plan;

AIR-2: Violate any air quality standard or contribute substantially to an existing or projected air quality violation as a result of:

- Criteria pollutant emissions during construction (direct and indirect) in excess of the SCAQMD's regional significance thresholds,
- Criteria pollutant emissions during operation (direct and indirect) in excess of the SCAQMD's regional significance thresholds.

AIR-3: Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is nonattainment under an applicable federal or state ambient air quality standard (including releasing emissions which exceed quantitative thresholds for ozone precursors);

AIR-4: Expose sensitive receptors to substantial pollutant concentrations that would:

- Exceed SCAQMD's localized significance thresholds,
- Cause or contribute to the formation of CO hotspots.

AIR-5: Create objectionable odors affecting a substantial number of people.

The SCAQMD is in the process of developing an Air Quality Analysis Guidance Handbook to replace the CEQA Air Quality Handbook. In the interim, supplemental guidance has been adopted by the SCAQMD. The

[2] While the SCAQMD CEQA Air Quality Handbook contains significance thresholds for lead, Project construction and operation would not include sources of lead emissions and would not exceed the established thresholds for lead. Unleaded fuel and unleaded paints have virtually eliminated lead emissions from industrial land use projects such as the Project. As a result, lead emissions are not further evaluated herein.

potential air quality impacts of the project are, therefore, evaluated according to numeric indicators developed by the SCAQMD in the CEQA Air Quality Handbook and supplemental guidance from the SCAQMD.[3]

**Regional Air Quality**

Many air quality impacts that derive from dispersed mobile sources, which are the dominate pollution generators in the basin, often occurs hours later and miles away after photochemical processes have converted primary exhaust pollutants into secondary contaminants such as ozone. The incremental regional air quality impact of an individual project is generally very small and difficult to measure. Therefore, the SCAQMD has developed significance thresholds based on the volume of pollution emitted rather than on actual ambient air quality because the direct air quality impact of a project is not quantifiable on a regional scale. The SCAQMD CEQA Handbook states that any project in the South Coast Air Basin with daily emissions that exceed any of the identified significance thresholds should be considered as having an individually and cumulatively significant air quality impact. For the purposes to this air quality impact analysis, a regional air quality impact would be considered significant if emissions exceed the SCAQMD significance thresholds identified in Table 5.

**Local Air Quality**

Project-related construction air emissions may have the potential to exceed the State and Federal air quality standards in the project vicinity, even though these pollutant emissions may not be significant enough to create a regional impact to the South Coast Air Basin. In order to assess local air quality impacts the SCAQMD has developed Localized Significant Thresholds (LSTs) to assess the project-related air emissions in the project vicinity. The SCAQMD has also provided Final Localized Significant Threshold Methodology (LST Methodology), June 2003, which details the methodology to analyze local air emission impacts. The Localized Significant Threshold Methodology found that the primary emissions of concern are $NO_2$, CO, PM10, and PM2.5.

The significance thresholds for the local emissions of $NO_2$ and CO are determined by subtracting the highest background concentration from the last three years of these pollutants from Table 4 above, from the most restrictive ambient air quality standards for these pollutants that are outlined in the Localized Significant Thresholds. Table 5 shows the ambient air quality standards for $NO_2$, CO, and PM10 and PM2.5.

**Toxic Air Contaminants**

According to the SCAQMD CEQA Handbook, any project that has the potential to expose the public to toxic air contaminants in excess of the following thresholds would be considered to have a significant air quality impact:

- If the Maximum Incremental Cancer Risk is 10 in one million or greater; or
- Toxic air contaminants from the proposed project would result in a Hazard Index increase of 1 or greater.

In order to determine if the proposed project may have a significant impact related to hazardous air pollutants (HAP), the Health Risk Assessment Guidance for analyzing Cancer Risks from Mobile Source Diesel Idling Emissions for CEQA Air Quality Analysis, (Diesel Analysis) prepared by SCAQMD (August 2003) recommends that if the proposed project is anticipated to create hazardous air pollutants through stationary sources or regular operations of diesel trucks on the project site, then the proximity of the nearest receptors to the source of the hazardous air pollutants and the toxicity of the hazardous air pollutants should be analyzed through a comprehensive facility-wide health risk assessment (HRA).

[3] While the SCAQMD CEQA Air Quality Handbook contains significance thresholds for lead, Project construction and operation would not include sources of lead emissions and would not exceed the established thresholds for lead. Unleaded fuel and unleaded paints have virtually eliminated lead emissions from residential land use projects such as the Project. As a result, lead emissions are not further evaluated herein.

As determined in the *California Building Industry Association v. Bay Area Air Quality Management District* (2015) 62 Cal. 4th 369 (CBIA) case the California Supreme Court determined that CEQA does not generally require an impact analysis of the existing environmental conditions on the future residents of a proposed project and generally only requires an analysis of the proposed project's impact on the environment. However, the CBIA case also stated that when a proposed project brings development and people into an area already subject to specific hazards and the new development/people exacerbate the existing hazards, then CEQA requires an analysis of the hazards and the proposed project's effect in terms of increasing the risks related to those hazards. In regard to air quality hazards, TACs are defined as substances that may cause or contribute to an increase in deaths or in serious illness, or that may pose a present or potential hazard to human health. As such, if a proposed project would not exacerbate pre-existing hazards (e.g., TAC health risks) then an analysis of those hazards and the proposed project's effect on increasing those hazards is not required.

However, the project is an industrial project and will be a source of toxic air contaminants; therefore, an HRA was conducted (please see Section 4 of this report).

**Odor Impacts**

The SCAQMD CEQA Handbook states that an odor impact would occur if the proposed project creates an odor nuisance pursuant to SCAQMD Rule 402, which states:

A person shall not discharge from any source whatsoever such quantities of air contaminants or other material which cause injury, detriment, nuisance, or annoyance to any considerable number of persons to the public, or which endanger the comfort, repose, health or safety of any such persons or the public, or which cause, or have a natural tendency to cause, injury or damage to business or property.

The provisions of this rule shall not apply to odors emanating from agricultural operations necessary for the growing of crops or the raising of fowl or animals.

If the proposed project results in a violation of Rule 402 with regards to odor impacts, then the proposed project would create a significant odor impact.

**Table 5**
**SCAQMD Air Quality Significance Thresholds**

| Mass Daily Thresholds | | |
|---|---|---|
| Pollutant | Construction (lbs/day) | Operation (lbs/day) |
| NOx | 100 | 55 |
| VOC | 75 | 55 |
| PM10 | 150 | 150 |
| PM2.5 | 55 | 55 |
| SOx | 150 | 150 |
| CO | 550 | 550 |
| Lead | 3 | 3 |

| Toxic Air Contaminants, Odor and GHG Thresholds | |
|---|---|
| TACs | Maximum Incremental Cancer Risk ≥ 10 in 1 million<br>Cancer Burden > 0.5 excess cancer cases (in areas ≥ 1 in 1 million)<br>Chronic & Acute Hazard Index > 1.0 (project increment) |
| Odor | Project creates an odor nuisance pursuant to SCAQMD Rule 402 |
| GHG | 10,000 MT/yr CO2e for industrial projects |

| Ambient Air Quality Standards | |
|---|---|
| Pollutant | SCAQMD Standards |
| NO2 -1-hour average | 0.18 ppm (338 µg/m^3) |
| PM10 -24-hour average<br>Construction<br>Operations | <br>10.4 µg/m^3<br>2.5 ug/m^3 |
| PM2.5 -24-hour average<br>Construction<br>Operations | <br>10.4 µg/m^3<br>2.5 µg/m^3 |
| SO2<br>1-hour average<br>24-hour average | <br>0.25 ppm<br>0.04 ppm |
| CO<br>1-hour average<br>8-hour average | <br>20 ppm (23,000 µg/m^3)<br>9 ppm (10,000 µg/m^3) |
| Lead<br>30-day average<br>Rolling 3-month average<br>Quarterly average | <br>1.5 µg/m^3<br>0.15 µg/m^3<br>1.5 µg/m^3 |

Source: http://www.aqmd.gov/ceqa/handbook/signthres.pdf

## SHORT-TERM CONSTRUCTION EMISSIONS

Construction activities associated with the proposed project would have the potential to generate air emissions, toxic air contaminant emissions, and odor impacts. Assumptions for the phasing, duration, and required equipment for the construction of the proposed project were obtained from the project applicant. The construction activities for the proposed project are anticipated to include: demolition of an approximately 162,504 square foot existing building; site preparation of approximately 9.3 acres to remove existing asphalt parking areas; grading of approximately 13.29 acres; construction of 86,780 square feet of warehouse, 198,400 square feet of manufacturing, 20,370 square feet of office use, and detention basins and landscaping of approximately 0.9 acres; paving of canopy parking lot with 636 parking spaces; and application of architectural coatings. See Appendix B for more details.

The proposed project is anticipated to start demolition no sooner than mid-June 2020, with building construction starting no sooner than May 2021 and being completed by May 2022. The project is anticipated to be operational in 2022. The grading phase is to include approximately 19,930 cubic yards of import.

### Methodology

The following provides a discussion of the methodology used to calculate regional construction air emissions and an analysis of the proposed project's short-term construction emissions for the criteria pollutants. The construction-related regional air quality impacts have been analyzed for both criteria pollutants and GHGs.

Emissions are estimated using the CalEEMod (Version 2016.3.2) software, which is a statewide land use emissions computer model designed to provide a uniform platform for government agencies, land use planners, and environmental professionals to quantify potential criteria pollutant and GHG emissions from a variety of land use projects. CalEEMod was developed in collaboration with the air districts of California. Regional data (e.g., emission factors, trip lengths, meteorology, source inventory, etc.) have been provided by the various California air districts to account for local requirements and conditions. The model is considered to be an accurate and comprehensive tool for quantifying air quality and GHG impacts from land use projects throughout California and is recommended by the SCAQMD.[4]

Daily regional emissions during construction are forecasted by assuming a conservative estimate of construction activities (i.e., assuming all construction occurs at the earliest feasible date) and applying the mobile source and fugitive dust emissions factors. The input values used in this analysis were adjusted to be project-specific for the construction schedule and the equipment used was based on CalEEMod defaults. The CalEEMod program uses the EMFAC2014 computer program to calculate the emission rates specific for the southern portion of Los Angeles County for construction-related employee vehicle trips and the OFFROAD2011 computer program to calculate emission rates for heavy truck operations. EMFAC2014 and OFFROAD2011 are computer programs generated by CARB that calculates composite emission rates for vehicles. Emission rates are reported by the program in grams per trip and grams per mile or grams per running hour. Daily truck trips and CalEEMod default trip length data were used to assess roadway emissions from truck exhaust. The maximum daily emissions are estimated values for the worst-case day and do not represent the emissions that would occur for every day of project construction. The maximum daily emissions are compared to the SCAQMD daily regional numeric indicators. Detailed construction equipment lists, construction scheduling, and emission calculations are provided in Appendix B.

The project will be required to comply with existing SCAQMD rules for the reduction of fugitive dust emissions. SCAQMD Rule 403 establishes these procedures. Compliance with this rule is achieved through application of standard best management practices in construction and operation activities, such as application of water or chemical stabilizers to disturbed soils, managing haul road dust by application of water, covering haul vehicles, restricting vehicle speeds on unpaved roads to 15 mph, sweeping loose dirt from paved site access roadways, cessation of construction activity when winds exceed 25 mph and establishing a permanent,

[4] South Coast Air Quality Management District, California Emissions Estimator Model, http://www.aqmd.gov/caleemod/.

stabilizing ground cover on finished sites. In addition, projects that disturb 50 acres or more of soil or move 5,000 cubic yards of materials per day are required to submit a Fugitive Dust Control Plan or a Large Operation Notification Form to SCAQMD. Based on the size of the Project area (approximately 13.29 acres) a Fugitive Dust Control Plan or Large Operation Notification would not be required.

SCAQMD's Rule 403 minimum requirements require that the application of the best available dust control measures are used for all grading operations and include the application of water or other soil stabilizers in sufficient quantity to prevent the generation of visible dust plumes. Compliance with Rule 403 would require the use of water trucks during all phases where earth moving operations would occur. Compliance with Rule 403 has been included in the CalEEMod modeling for the proposed project.

Per SCAQMD Rule 1113 as amended on June 3, 2011, the architectural coatings that would be applied after January 1, 2014 will be limited to an average of 50 grams per liter or less. CalEEMod defaults have been adjusted accordingly.

The phases of the construction activities which have been analyzed below for each phase are: (1) demolition, (2) site preparation, (3) grading, (4) building construction, (5) paving, and (6) application of architectural coatings. Details pertaining to the project's construction timing and the type of equipment modeled for each construction phase are available in the CalEEMod output in Appendix B.

**Construction-Related Regional Impacts**

The construction-related criteria pollutant emissions for each phase are shown below in Table 6. Table 6 shows that none of the project's emissions will exceed regional thresholds. Therefore, a less than significant regional air quality impact would occur from construction of the proposed project.

**Construction-Related Local Impacts**

Construction-related air emissions may have the potential to exceed the State and Federal air quality standards in the project vicinity, even though these pollutant emissions may not be significant enough to create a regional impact to the South Coast Air Basin. The proposed project has been analyzed for the potential local air quality impacts created from: construction-related fugitive dust and diesel emissions; from toxic air contaminants; and from construction-related odor impacts.

*Local Air Quality Impacts from Construction*

The SCAQMD has published a "Fact Sheet for Applying CalEEMod to Localized Significance Thresholds" (South Coast Air Quality Management District 2011b). CalEEMod calculates construction emissions based on the number of equipment hours and the maximum daily disturbance activity possible for each piece of equipment. In order to compare CalEEMod reported emissions against the localized significance threshold lookup tables, the CEQA document should contain the following parameters:

(1) The off-road equipment list (including type of equipment, horsepower, and hours of operation) assumed for the day of construction activity with maximum emissions.
(2) The maximum number of acres disturbed on the peak day.
(3) Any emission control devices added onto off-road equipment.
(4) Specific dust suppression techniques used on the day of construction activity with maximum emissions.

The CalEEMod output in Appendix B show the equipment used for this analysis.

As shown in Table 7, the maximum number of acres disturbed in a day would be 4 acres during grading**.** The local air quality emissions from construction were analyzed using the SCAQMD's Mass Rate Localized Significant Threshold Look-up Tables and the methodology described in Localized Significance Threshold

Methodology prepared by SCAQMD (revised July 2008). The Look-up Tables were developed by the SCAQMD in order to readily determine if the daily emissions of CO, NOx, PM10, and PM2.5 from the proposed project could result in a significant impact to the local air quality. The emission thresholds were calculated based on the Southwest Coastal LA County source receptor area (SRA) 3 and, to be conservative, a disturbance value of two acres per day. According to LST Methodology, any receptor located closer than 25 meters (82 feet) shall be based on the 25-meter thresholds. The nearest sensitive receptors to the project site are the existing single-family detached residential dwelling units located as close as approximately 200 feet west (~61 meters) of the project site; therefore, to be conservative, the SCAQMD Look-up Tables for 50meters was used. Table 8 shows the on-site emissions from the CalEEMod model for the different construction phases and the LST emissions thresholds.

The data provided in Table 8 shows that none of the analyzed criteria pollutants would exceed the local emissions thresholds at the nearest sensitive receptors. Therefore, a less than significant local air quality impact would occur from construction of the proposed project.

**Construction-Related Toxic Air Contaminant Impacts**

The greatest potential for toxic air contaminant emissions would be related to diesel particulate emissions associated with heavy equipment operations during construction of the proposed project. According to the Office of Environmental Health Hazard Assessment (OEHHA)[5] and the SCAQMD *Health Risk Assessment Guidance for Analyzing Cancer Risks from Mobile Source Diesel Idling Emissions for CEQA Air Quality Analysis* (August 2003),[6] health effects from TACs are described in terms of individual cancer risk based on a lifetime (i.e., 30-year) resident exposure duration. Given the temporary and short-term construction schedule (approximately 13 months), the project would not result in a long-term (i.e., lifetime or 30-year) exposure as a result of project construction. Furthermore, construction-based particulate matter (PM) emissions (including diesel exhaust emissions) do not exceed any local or regional thresholds.

The project would comply with the CARB Air Toxics Control Measure that limits diesel powered equipment and vehicle idling to no more than 5 minutes at a location, and the CARB In-Use Off-Road Diesel Vehicle Regulation; compliance with these would minimize emissions of TACs during construction. The project would also comply with the requirements of SCAQMD Rule 1403 if asbestos is found during the renovation and construction activities. Therefore, impacts from TACs during construction would be less than significant.

**Construction-Related Odor Impacts**

Potential sources that may emit odors during construction activities include the application of materials such as asphalt pavement. The objectionable odors that may be produced during the construction process are of short-term in nature and the odor emissions are expected to cease upon the drying or hardening of the odor producing materials. Due to the short-term nature and limited amounts of odor producing materials being utilized, no significant impact related to odors would occur during construction of the proposed project. Diesel exhaust and VOCs would be emitted during construction of the project, which are objectionable to some; however, emissions would disperse rapidly from the project site and therefore should not reach an objectionable level at the nearest sensitive receptors.

[5] Office of Environmental Health Hazard Assessment, Air Toxic Hot Spots Program Risk Assessment Guidelines Guidance Manual for Preparation of Health Risk Assessment, February 2015, https://oehha.ca.gov/media/downloads/crnr/2015guidancemanual.pdf.

[6] South Coast Air Quality Management District, Health Risk Assessment Guidance for Analyzing Cancer Risks from Mobile Source Diesel Idling Emissions for CEQA Air Quality Analysis, August 2003,http://www.aqmd.gov/docs/default-source/ceqa/handbook/mobile-source-toxics-analysis.doc?sfvrsn=2.

## Table 6
## Construction-Related Regional Pollutant Emissions

| Activity | | Pollutant Emissions (pounds/day) | | | | | |
|---|---|---|---|---|---|---|---|
| | | ROG | NOx | CO | $SO_2$ | PM10 | PM2.5 |
| Demolition | On-Site[1] | 3.31 | 33.20 | 21.75 | 0.04 | 4.78 | 2.01 |
| | Off-Site[2] | 0.41 | 10.82 | 3.10 | 0.03 | 0.85 | 0.26 |
| | Subtotal | 3.72 | 44.02 | 24.86 | 0.07 | 5.63 | 2.27 |
| Site Preparation | On-Site[1] | 2.65 | 27.63 | 14.86 | 0.03 | 6.48 | 3.91 |
| | Off-Site[2] | 0.06 | 0.04 | 0.52 | 0.00 | 0.15 | 0.04 |
| | Subtotal | 2.72 | 27.67 | 15.38 | 0.03 | 6.63 | 3.95 |
| Grading | On-Site[1] | 4.19 | 46.40 | 30.88 | 0.06 | 5.40 | 3.23 |
| | Off-Site[2] | 0.80 | 22.61 | 6.27 | 0.07 | 1.75 | 0.53 |
| | Subtotal | 5.00 | 69.01 | 37.15 | 0.13 | 7.14 | 3.76 |
| Building Construction | On-Site[1] | 2.55 | 23.44 | 23.41 | 0.04 | 1.31 | 1.24 |
| | Off-Site[2] | 1.50 | 10.31 | 12.56 | 0.05 | 3.46 | 0.96 |
| | Subtotal | 4.06 | 33.75 | 35.96 | 0.09 | 4.77 | 2.20 |
| Paving | On-Site[1] | 1.85 | 11.12 | 14.58 | 0.02 | 0.57 | 0.55 |
| | Off-Site[2] | 0.07 | 0.04 | 0.56 | 0.00 | 0.17 | 0.05 |
| | Subtotal | 1.92 | 11.17 | 15.14 | 0.02 | 0.74 | 0.60 |
| Architectural Coating[3] | On-Site[1] | 50.13 | 1.41 | 1.81 | 0.00 | 0.08 | 0.08 |
| | Off-Site[2] | 0.22 | 0.15 | 1.86 | 0.01 | 0.56 | 0.15 |
| | Subtotal | 50.36 | 1.56 | 3.67 | 0.01 | 0.65 | 0.23 |
| Total for overlapping phases[4] | | 56.33 | 46.47 | 54.77 | 0.12 | 6.15 | 3.03 |
| SCAQMD Thresholds | | 75 | 100 | 550 | 150 | 150 | 55 |
| **Exceeds Thresholds?** | | **No** | **No** | **No** | **No** | **No** | **No** |

Notes:
Source: CalEEMod Version 2016.3.2

(1) On-site emissions from equipment operated on-site that is not operated on public roads. On-site grading PM-10 and PM-2.5 emissions show mitigated values for fugitive dust for compliance with SCAQMD Rule 403.

(2) Off-site emissions from equipment operated on public roads.

(3) Architectural coating emissions include compliance with SCAQMD Rule 1113 limiting architectural coatings to 50 g/L VOC for buildings and 100 g/L VOC for parking lot striping.

(4) Construction, painting and paving phases may overlap.

## Table 7
## Maximum Number of Acres Disturbed Per Day

| Activity | Equipment | Number | Acres/8hr-day | Total Acres |
|---|---|---|---|---|
| Demolition | Rubber Tired Dozers | 2 | 0.5 | 1 |
| **Total for phase** | **-** | **-** | **-** | **1** |
| Site Preparation | Rubber Tired Dozers | 2 | 0.5 | 1 |
| | Crawler Tractors[1] | 3 | 0.5 | 1.5 |
| **Total for phase** | | **-** | **-** | **2.5** |
| Grading | Rubber Tired Dozers | 1 | 0.5 | 0.5 |
| | Graders | 1 | 0.5 | 0.5 |
| | Scrapers | 2 | 1 | 2 |
| | Crawler Tractors[1] | 2 | 0.5 | 1 |
| **Total for phase** | | **-** | **-** | **4** |

Notes:
Source: South Coast AQMD, Fact Sheet for Applying CalEEMod to Localized Significance Thresholds, 2011b.

(1) Tractor/loader/backhoe is a suitable surrogate for a crawler tractor per SCAQMD staff.

## Table 8
## Local Construction Emissions at the Nearest Receptors

| Activity[1] | On-Site Pollutant Emissions (pounds/day)[2] | | | |
|---|---|---|---|---|
| | NOx | CO | PM10 | PM2.5 |
| Demolition | 33.20 | 21.75 | 4.78 | 2.01 |
| Site Preparation | 27.63 | 14.86 | 6.48 | 3.91 |
| Grading | 46.40 | 30.88 | 5.40 | 3.23 |
| Building Construction | 23.44 | 23.41 | 1.31 | 1.24 |
| Paving | 11.12 | 14.58 | 0.57 | 0.55 |
| Architectural Coating | 1.41 | 1.81 | 0.08 | 0.08 |
| SCAQMD Thresholds[3] | 128 | 1,158 | 23 | 7 |
| **Exceeds Threshold?** | **No** | **No** | **No** | **No** |

Notes:

(1) The project will disturb up to a maximum of 4 acres a day during grading (see Table 7).

(2) Source: Calculated from CalEEMod and SCAQMD's Mass Rate Look-up Tables for 2 acre, to be conservative, at a distance of 50 meters in SRA 3 Southwest Coastal LA County.

(3) The nearest sensitive receptors are the existing single-family detached residential dwelling units located as close as approximately 215 feet (~66 meters) west of the project site; therefore, to be conservative, the 50 meter threshold was used.

## LONG-TERM OPERATIONAL EMISSIONS

The on-going operation of the proposed project would result in a long-term increase in air quality emissions. This increase would be due to emissions from the project-generated vehicle trips and through operational emissions from the on-going use of the proposed project. The following section provides an analysis of potential long-term air quality impacts due to: regional air quality and local air quality impacts with the on-going operations of the proposed project.

### Operations-Related Regional Air Quality Impacts

The potential operations-related air emissions have been analyzed below for the criteria pollutants and cumulative impacts.

*Operations-Related Criteria Pollutants Analysis*

The operations-related criteria air quality impacts created by the proposed project have been analyzed through the use of the CalEEMod model. The operating emissions were based on the year 2022, which is the anticipated opening year per the 2555 W. 190$^{th}$ Street Warehouse/Manufacturing Project Traffic Impact Analysis (TIA) prepared by Linscott Law & Greenspan Engineers (July 29, 2019) for the proposed project. The operations daily emissions printouts from the CalEEMod model are provided in Appendix B. The CalEEMod analyzes operational emissions from area sources, energy usage, and mobile sources, which are discussed below.

*Mobile Sources*

Mobile sources include emissions from the additional vehicle miles generated from the proposed project. The vehicle trips associated with the proposed project have been analyzed by inputting the project-generated vehicular trips (trip generation rate) from the TIA into the CalEEMod Model. The TIA found that the proposed project will generate approximately 1,129 vehicle trips per day (non-PCE) and 1,417 vehicle trips per day (PCE). Trip generation rates included 3.93 trips per thousand square foot per day for the manufacturing use, 1.74 trips per thousand square foot per day for the warehouse use, and 9.74 trips per thousand square foot per day for the office use. As the TIA did not provide weekend trip rates, the Saturday trip generation rate of 2.21 trips per thousand square foot and Sunday trip generation rate of 0.7 trips per thousand square foot for the office use and the Saturday trip generation rate of 0.15 trips per thousand square foot and Sunday trip generation rate of 0.06 trips per thousand square foot for the warehouse was utilized from the Institute of Transportation Engineers (ITE) 10$^{th}$ edition Trip Generation Manual (September 2017). The program then applies the emission factors for each trip which is provided by the EMFAC2014 model to determine the vehicular traffic pollutant emissions.

The Traffic Impact Analysis found that the proposed warehouse use would create 120 automobile round trips, 5 2-axle truck round trips, 7 3-axle truck round trips, and 19 4+-axle truck round trips per day (non-PCE). In addition, the proposed manufacturing use would create 621 automobile round trips, 28 2-axle truck round trips, 36 3-axle truck round trips, and 95 4+-axle truck round trips per day (non-PCE). The warehouse and manufacturing use vehicle mix were changed in CalEEMod to match the Traffic Impact Analysis (see Tables 9 and 10) and the percentages in CalEEMod for the warehouse and manufacturing uses were changed to 79.57% autos (C-NW) and 20.43% trucks (C-W) to match the overall vehicle percentages given in the Traffic Impact Analysis. Due to the proposed project's location and proposed warehouse and manufacturing land use, the average customer-based trip length was increased to 40 miles per SCAQMD recommendation, while all other trip lengths were based on the urban default values.

*Area Sources*

Per the CAPCOA Appendix A Calculation Details for CalEEMod, area sources include emissions from consumer products, landscape equipment and architectural coatings. Landscape maintenance includes fuel

combustion emissions from equipment such as lawn mowers, rototillers, shredders/grinders, blowers, trimmers, chain saws, and hedge trimmers, as well as air compressors, generators, and pumps. As specifics were not known about the landscaping equipment fleet, CalEEMod defaults were used to estimate emissions from landscaping equipment. No changes were made to the default area source parameters.

*Energy Usage*

Energy usage includes emissions from the generation of electricity and natural gas used on-site. No changes were made to the default energy usage parameters.

*Project Impacts*

The worst-case summer or winter criteria pollutant emissions created from the proposed project's long-term operations have been calculated and are shown below in Table 11. Table 11 shows that none of the analyzed criteria pollutants would exceed the regional emissions thresholds. Therefore, a less than significant regional air quality impact would occur from operation of the proposed project.

**Operations-Related Local Air Quality Impacts**

Project-related air emissions may have the potential to exceed the State and Federal air quality standards in the project vicinity, even though these pollutant emissions may not be significant enough to create a regional impact to the South Coast Air Basin. The proposed project has been analyzed for the potential local CO emission impacts from the project-generated vehicular trips and from the potential local air quality impacts from on-site operations. The following analysis analyzes the vehicular CO emissions, local impacts from on-site operations per SCAQMD LST methodology, and odor impacts.

*Local CO Emission Impacts from Project-Generated Vehicular Trips*

CO is the pollutant of major concern along roadways because the most notable source of CO is motor vehicles. For this reason, CO concentrations are usually indicative of the local air quality generated by a roadway network and are used as an indicator of potential local air quality impacts. Local air quality impacts can be assessed by comparing future without and with project CO levels to the State and Federal CO standards which were presented above.

To determine if the proposed project could cause emission levels in excess of the CO standards discussed above, a sensitivity analysis is typically conducted to determine the potential for CO "hot spots" at a number of intersections in the general project vicinity. Because of reduced speeds and vehicle queuing, "hot spots" potentially can occur at high traffic volume intersections with a Level of Service E or worse.

The analysis prepared for CO attainment in the South Coast Air Basin by the SCAQMD can be used to assist in evaluating the potential for CO exceedances in the South Coast Air Basin. CO attainment was thoroughly analyzed as part of the SCAQMD's 2003 Air Quality Management Plan (2003 AQMP) and the 1992 Federal Attainment Plan for Carbon Monoxide (1992 CO Plan). As discussed in the 1992 CO Plan, peak carbon monoxide concentrations in the South Coast Air Basin are due to unusual meteorological and topographical conditions, and not due to the impact of particular intersections. Considering the region's unique meteorological conditions and the increasingly stringent CO emissions standards, CO modeling was performed as part of 1992 CO Plan and subsequent plan updates and air quality management plans. In the 1992 CO Plan, a CO hot spot analysis was conducted for four busy intersections in Los Angeles at the peak morning and afternoon time periods. The intersections evaluated included: South Long Beach Boulevard and Imperial Highway (Lynwood); Wilshire Boulevard and Veteran Avenue (Westwood); Sunset Boulevard and Highland Avenue (Hollywood); and La Cienega Boulevard and Century Boulevard (Inglewood). These analyses did not predict a violation of CO standards. The busiest intersection evaluated was that at Wilshire Boulevard and Veteran Avenue, which has a daily traffic volume of approximately 100,000 vehicles per day. The Los Angeles County Metropolitan Transportation Authority evaluated the Level of Service in the vicinity of the Wilshire

Boulevard/Veteran Avenue intersection and found it to be Level of Service E during the morning peak hour and Level of Service F during the afternoon peak hour.

The TIA showed that the proposed project would generate a maximum of approximately 1,129 vehicle trips per day (non-PCE) and 1,417 vehicle trips per day (PCE). The intersection with the highest traffic volume is located at Crenshaw Boulevard and Crenshaw Place and has an Existing with Ambient Growth (Year 2022) with Project with Cumulative Projects AM peak hour volume of 2,383 vehicles. The 1992 Federal Attainment Plan for Carbon Monoxide (1992 CO Plan) showed that an intersection which has a daily traffic volume of approximately 100,000 vehicles per day would not violate the CO standard. Therefore, as both the intersection and ADT volumes fall far short of 100,000 vehicles per day, no CO "hot spot" modeling was performed and no significant long-term air quality impact is anticipated to local air quality with the on-going use of the proposed project.

*Local Air Quality Impacts from On-Site Operations*

Project-related air emissions from on-site sources such as architectural coatings, landscaping equipment, on-site usage of natural gas appliances as well as the operation of vehicles on-site may have the potential to exceed the State and Federal air quality standards in the project vicinity, even though these pollutant emissions may not be significant enough to create a regional impact to the South Coast Air Basin. The nearest sensitive receptors that may be impacted by the proposed project are the existing single-family detached residential dwelling units located approximately 215 feet west of the project site.

The local air quality emissions from on-site operations were analyzed according to the methodology described in Localized Significance Threshold Methodology, prepared by SCAQMD, revised July 2008. The Look-up Tables were developed by the SCAQMD in order to readily determine if the daily emissions of CO, NOx, PM10, and PM2.5 from the proposed project could result in a significant impact to the local air quality. Per SCAQMD staff, the 5-acre Look-up Table, which is the largest site available, can be used as a conservative screening analysis for on-site operational emissions to determine whether more-detailed dispersion modeling would be necessary. The proposed project was analyzed based on the Southwest Coastal LA County source receptor area (SRA) 3 and used the thresholds for a five-acre project site.

Table 12 shows the on-site emissions from the CalEEMod model that includes natural gas usage, landscape maintenance equipment, and vehicles operating on-site and the calculated emissions thresholds. Per LST methodology, mobile emissions include only on-site sources which equate to less than 10 percent of the project-related new mobile sources.[7] The data provided in Table 12 shows that the on-going unmitigated operations of the proposed project would not exceed SCAQMD local operational thresholds of significance.

Therefore, the on-going operations of the proposed project would create a less than significant operations-related impact to local air quality due to on-site emissions.

**Operations-Related Odor Impacts**

Potential sources that may emit odors during the on-going operations of the proposed project would include odor emissions from the intermittent diesel delivery truck emissions and trash storage areas. Due to the distance of the nearest receptors from the project site and through compliance with SCAQMD's Rule 402 no significant impact related to odors would occur during the on-going operations of the proposed project.

[7] The project site is approximately 0.22 miles in length at its longest point; therefore the on-site mobile source emissions represent approximately 1/31 of the shortest CalEEMod default distance of 6.9 miles. Therefore, to be conservative, 1/10th the distance (dividing the mobile source emissions by 10) was used to represent the portion of the overall mobile source emissions that would occur on-site.

## Table 9
## CalEEMod Revised Vehicle Mix Parameters for Warehousing

| CalEEMod Vehicle Type | Vehicle Mix from Traffic Analysis | CalEEMod Default Mix[1] | | CalEEMod Revised Mix[2] | |
|---|---|---|---|---|---|
| | | Ratio | Number of Vehicles[3] | Ratio | Number of Vehicles[3] |
| Light Auto | Automobile | 0.547 | 83 | 0.472 | 71 |
| Light Truck < 3750 lbs | Automobile | 0.045 | 7 | 0.039 | 6 |
| Light Truck 3751-5750 lbs | Automobile | 0.204 | 31 | 0.176 | 27 |
| Med Truck 5751-8500 lbs | Automobile | 0.120 | 18 | 0.104 | 16 |
| Lite-Heavy Truck 8501-10,000 lbs | 2-Axle Truck | 0.016 | 2 | 0.025 | 4 |
| Lite-Heavy Truck 10,001-14,000 lbs | 2-Axle Truck | 0.006 | 1 | 0.010 | 1 |
| Med-Heavy Truck 14,001-33,000 lbs | 3-Axle Truck | 0.020 | 3 | 0.046 | 7 |
| Heavy-Heavy Truck 33,001-60,000 lbs | 4+-Axle Truck | 0.031 | 5 | 0.123 | 19 |
| Other Bus | -- | 0.003 | 0 | 0.000 | 0 |
| Urban Bus | -- | 0.002 | 0 | 0.000 | 0 |
| Motorcycle | Automobile | 0.005 | 1 | 0.004 | 1 |
| School Bus | -- | 0.001 | 0 | 0.000 | 0 |
| Motor Home | -- | 0.001 | 0 | 0.000 | 0 |
| **Total** | | **1.0** | **151** | **1.0** | **151** |

Notes:

(1) Source: CalEEMod Version 2016.3.2 default values for Opening year of 2022.

(2) Revised per the vehicle mix provided in the Traffic Impact Analysis of 79.57% Autos, 3.46% 2-Axle Trucks, 4.64% 3-Axle Trucks and 12.33% 4+ Axle Trucks for the warehouse use.

(3) Non-PCE (Passenger Car Equivalent)

## Table 10
## CalEEMod Revised Vehicle Mix Parameters for Manufacturing

| CalEEMod Vehicle Type | Vehicle Mix from Traffic Analysis | CalEEMod Default Mix[1] | | CalEEMod Revised Mix[2] | |
|---|---|---|---|---|---|
| | | Ratio | Number of Vehicles[3] | Ratio | Number of Vehicles[3] |
| Light Auto | Automobile | 0.547 | 426 | 0.472 | 368 |
| Light Truck < 3750 lbs | Automobile | 0.045 | 35 | 0.039 | 30 |
| Light Truck 3751-5750 lbs | Automobile | 0.204 | 159 | 0.176 | 137 |
| Med Truck 5751-8500 lbs | Automobile | 0.120 | 94 | 0.104 | 81 |
| Lite-Heavy Truck 8501-10,000 lbs | 2-Axle Truck | 0.016 | 12 | 0.025 | 19 |
| Lite-Heavy Truck 10,001-14,000 lbs | 2-Axle Truck | 0.006 | 5 | 0.010 | 8 |
| Med-Heavy Truck 14,001-33,000 lbs | 3-Axle Truck | 0.020 | 16 | 0.046 | 36 |
| Heavy-Heavy Truck 33,001-60,000 lbs | 4+-Axle Truck | 0.031 | 24 | 0.123 | 96 |
| Other Bus | -- | 0.003 | 2 | 0.000 | 0 |
| Urban Bus | -- | 0.002 | 2 | 0.000 | 0 |
| Motorcycle | Automobile | 0.005 | 4 | 0.004 | 3 |
| School Bus | -- | 0.001 | 1 | 0.000 | 0 |
| Motor Home | -- | 0.001 | 1 | 0.000 | 0 |
| **Total** | | **1.0** | **780** | **1.0** | **780** |

Notes:

(1) Source: CalEEMod Version 2016.3.2 default values for Opening year of 2022.

(2) Revised per the vehicle mix provided in the Traffic Impact Analysis of 79.57% Autos, 3.46% 2-Axle Trucks, 4.64% 3-Axle Trucks and 12.33% 4+ Axle Trucks for the manufacturing use.

(3) Non-PCE

## Table 11
## Regional Operational Pollutant Emissions

| Activity | Pollutant Emissions (pounds/day) | | | | | |
|---|---|---|---|---|---|---|
| | ROG | NOx | CO | SO2 | PM10 | PM2.5 |
| Area Sources[1] | 6.96 | 0.00 | 0.10 | 0.00 | 0.00 | 0.00 |
| Energy Usage[2] | 0.14 | 1.26 | 1.05 | 0.01 | 0.10 | 0.10 |
| Mobile Sources[3] | 2.58 | 28.67 | 34.66 | 0.17 | 10.83 | 3.00 |
| Total Emissions | 9.68 | 29.93 | 35.81 | 0.18 | 10.92 | 3.09 |
| SCAQMD Thresholds | 55 | 55 | 550 | 150 | 150 | 55 |
| **Exceeds Threshold?** | **No** | **No** | **No** | **No** | **No** | **No** |

Notes:
Source: CalEEMod Version 2016.3.2; the higher of either summer or winter emissions.

(1) Area sources consist of emissions from consumer products, architectural coatings, and landscaping equipment.

(2) Energy usage consists of emissions from generation of electricity and on-site natural gas usage.

(3) Mobile sources consist of emissions from vehicles and road dust.

## Table 12
## Local Operational Emissions at the Nearest Receptors

| On-Site Emission Source | On-Site Pollutant Emissions (pounds/day)[1] | | | |
|---|---|---|---|---|
| | NOx | CO | PM10 | PM2.5 |
| Area Sources[2] | 0.00 | 0.10 | 0.00 | 0.00 |
| Energy Usage[3] | 1.26 | 1.05 | 0.10 | 0.10 |
| Vehicle Emissions[4] | 2.87 | 3.47 | 1.08 | 0.30 |
| Total Emissions | 4.12 | 4.62 | 1.18 | 0.40 |
| SCAQMD Thresholds[5] | 189 | 1,984 | 12 | 3 |
| **Exceeds Threshold?** | **No** | **No** | **No** | **No** |

Notes:

(1) Source: Calculated from CalEEMod and SCAQMD's Mass Rate Look-up Tables for 5 acres.

(2) Area sources consist of emissions from consumer products, architectural coatings, and landscaping equipment.

(3) Energy usage consists of emissions from on-site natural gas usage.

(4) On-site vehicular emissions based on 1/10 of the gross vehicular emissions and road dust.

(5) The nearest sensitive receptors are the existing single-family detached residential dwelling units located as close as approximately 215 feet (~66 meters) west of the project site; therefore, to be conservative, the 50 meter threshold was used.

## CUMULATIVE AIR QUALITY IMPACTS

There are a number of cumulative projects in the project area that have not yet been built or are currently under construction. Since the timing or sequencing of the cumulative projects is unknown, any quantitative analysis to ascertain daily construction emissions that assumes multiple, concurrent construction projects would be speculative. Further, cumulative projects include local development as well as general growth within the project area. However, as with most development, the greatest source of emissions is from mobile sources, which travel well out of the local area. Therefore, from an air quality standpoint, the cumulative analysis would extend beyond any local projects and when wind patterns are considered would cover an even larger area. The SCAQMD recommends using two different methodologies: (1) that project-specific air quality impacts be used to determine the potential cumulative impacts to regional air quality;[8] and (2) that a project's consistency with the current AQMP be used to determine its potential cumulative impacts.

### Project Specific Impacts

The project area is out of attainment for ozone and in 2018 was out of attainment for PM10. Construction and operation of cumulative projects will further degrade the local air quality, as well as the air quality of the South Coast Air Basin. The greatest cumulative impact on the quality of regional air cell will be the incremental addition of pollutants mainly from increased traffic volumes from residential, commercial, and industrial development and the use of heavy equipment and trucks associated with the construction of these projects. Air quality will be temporarily degraded during construction activities that occur separately or simultaneously. However, in accordance with the SCAQMD methodology, projects that do not exceed the SCAQMD criteria or can be mitigated to less than criteria levels are not significant and do not add to the overall cumulative impact. A significant impact may occur if a project would add a cumulatively considerable contribution of a federal or state non-attainment pollutant.

Project operations would generate emissions of NOx, ROG, CO, PM10, and PM2.5, which, with incorporation of sustainable design and compliance with regulation, would not exceed the SCAQMD regional or local thresholds and would not be expected to result in ground level concentrations that exceed the NAAQS or CAAQS. Since the project would not introduce any substantial stationary sources of emissions, CO is the benchmark pollutant for assessing local area air quality impacts from post-construction motor vehicle operations. As indicated earlier, no violations of the state and federal CO standards are projected to occur for the project, based on the magnitude of traffic the project is anticipated to create. Therefore, with incorporation of sustainable design and compliance with regulation, operation of the project would not result in a cumulatively considerable net increase for non-attainment of criteria pollutants or ozone precursors. As a result, the project would result in a less than significant cumulative impact for operational emissions.

### Air Quality Compliance

The California Environmental Quality Act (CEQA) requires a discussion of any inconsistencies between a proposed project and applicable General Plans and Regional Plans (CEQA Guidelines Section 15125). The regional plan that applies to the proposed project includes the SCAQMD Air Quality Management Plan (AQMP). Therefore, this section discusses any potential inconsistencies of the proposed project with the AQMP.

The purpose of this discussion is to set forth the issues regarding consistency with the assumptions and objectives of the AQMP and discuss whether the proposed project would interfere with the region's ability to comply with Federal and State air quality standards. If the decision-makers determine that the proposed project is inconsistent, the lead agency may consider project modifications or inclusion of mitigation to eliminate the inconsistency.

[8] South Coast Air Quality Management District, Potential Control Strategies to Address Cumulative Impacts from Air Pollution White Paper, 1993, http://www.aqmd.gov/home/regulations/ceqa/air-quality-analysis-handbook.

The SCAQMD CEQA Handbook states that "New or amended General Plan Elements (including land use zoning and density amendments), Specific Plans, and significant projects must be analyzed for consistency with the AQMP". Strict consistency with all aspects of the plan is usually not required. A proposed project should be considered to be consistent with the AQMP if it furthers one or more policies and does not obstruct other policies. The SCAQMD CEQA Handbook identifies two key indicators of consistency:

(1) Whether the project will result in an increase in the frequency or severity of existing air quality violations, or cause or contribute to new violations, or delay timely attainment of air quality standards or the interim emission reductions specified in the AQMP.
(2) Whether the project will exceed the assumptions in the AQMP in 2016 or increments based on the year of project buildout and phase.

Both of these criteria are evaluated in the following sections.

*Criteria 1 – Increase in the Frequency or Severity of Violations*

Based on the air quality modeling analysis contained in this Air Analysis, short-term construction impacts will not result in significant impacts based on the SCAQMD regional and local thresholds of significance. This Air Analysis also found that, long-term operations impacts will not result in significant impacts based on the SCAQMD local and regional thresholds of significance.

Therefore, the proposed project is not projected to contribute to the exceedance of any air pollutant concentration standards and is found to be consistent with the AQMP for the first criterion.

*Criteria 2 – Exceed Assumptions in the AQMP?*

Consistency with the AQMP assumptions is determined by performing an analysis of the proposed project with the assumptions in the AQMP. The emphasis of this criterion is to ensure that the analyses conducted for the proposed project are based on the same forecasts as the AQMP. The 2016-2040 Regional Transportation/Sustainable Communities Strategy prepared by SCAG (2016) includes chapters on: the challenges in a changing region, creating a plan for our future, and the road to greater mobility and sustainable growth. These chapters currently respond directly to federal and state requirements placed on SCAG. Local governments are required to use these as the basis of their plans for purposes of consistency with applicable regional plans under CEQA. For this project, the City of Torrance Land Use Plan defines the assumptions that are represented in the AQMP.

The Project Site has a City of Torrance General Plan land use designation of Heavy Industrial (I-HVY). The project proposes to develop the site with a warehouse/cross dock industrial warehouse. The proposed project is consistent with the existing land use designation. Therefore, the proposed project is not anticipated to exceed the AQMP assumptions for the project site and is found to be consistent with the AQMP for the second criterion.

Based on the above, with incorporation of sustainable design and compliance with regulation, the proposed project will not result in an inconsistency with the SCAQMD AQMP. Therefore, a less than significant impact will occur.

# 3. DIESEL EMISSIONS HEALTH RISK ASSESSMENT

The on-going operation of the proposed project would generate toxic air contaminant emissions from diesel truck emissions created by the on-going operations of the proposed project. 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 exposed to concentrations of toxic air contaminants over a 30-year lifetime will contract cancer, based on the use of revised Office of Environmental Health Hazard Assessment (OEHHA) risk-assessment methodology.[9]

A health risk assessment requires the completion and interaction of four general steps:

1. Quantify project-generated TAC emissions.
2. Identify nearby ground-level receptor locations that may be affected by the emissions (including any special sensitive receptor locations such as residences, schools, hospitals, convalescent homes, and daycare centers).
3. Perform air dispersion modeling analyses to estimate ambient pollutant concentrations at each receptor location using project TAC emissions and representative meteorological data to define the transport and dispersion of those emissions in the atmosphere.
4. Characterize and compare the calculated health risks with the applicable health risk significance thresholds.

## EMISSIONS

### Emission Inventory Development

Important issues that affect the dispersion modeling include the following: (1) Model Selection, (2) Source Treatment, (3) Meteorological Data, and (4) Receptor Grid. Each of these issues is addressed below.

### Emission Source Estimates – DPM from Motor Vehicles

DPM emissions from the various sources were calculated using information derived from the project description, and mobile source emission factors from the CARB EMFAC2017 emissions factor model. Truck mix information was obtained from the TIA.

Four pieces of information are required to generate the mobile source emissions from the proposed project:

- Number of vehicle trips for each component of the proposed project;
- Types of vehicles that access the proposed project (passenger car vs. heavy-duty truck and gasoline vs. diesel);
- The allocation of the vehicle trips to each building that comprises the proposed project; and
- Estimate of the vehicle emission factors for estimating exhaust and idling emissions.

*Estimate of Vehicle Trips and Vehicle Types*

The TIA showed the project is expected to generate approximately 931 (non-passenger car equivalents [PCE]) vehicle trips per day from the warehouse and manufacturing uses. Of those vehicle trips, 741 are automobile

[9] In February 2015, the Office of Environmental Health Hazard Assessment updated their "Air Toxics Hot Spots Program, Risk Assessments Guidelines, Guidance Manual for Preparation of Health Risk Assessments; however, the updated OEHHA guidance states in the page footers "do not cite or quote." SCAQMD staff have incorporated the updates into their methodology for SCAQMD's Rules 1401, 1401.1, 1402, and 212, and have updated their HRA Guidance for permitting; however they are still in the process of updating the guidance for CEQA analyses (via working group sessions); however, to be conservative, the new OEHHA guidance was used to assess HRA impacts in this analysis. Per SCAQMD staff (personal communication with Dr. Jillian Wong 6-19-2015 and 12-22-15), updated SCAQMD HRA guidance will be forthcoming.

round trips, 32 are 2-axle truck round trips, 43 are 3-axle truck round trips, and 115 are 4+-axle truck round trips per day (non-passenger car equivalents).

Per the TIA, the vehicle mix for the warehouse/manufacturing portion of the proposed project was based on surveys conducted at existing similar facilities, with a mix of 3.46 percent 2-axle trucks, 4.64 percent 3-axle trucks and 12.33 percent 4-axle trucks.

**Estimate of Emission Factors**

The DPM emission factors for the various vehicle types were derived from the CARB EMFAC2017 mobile source emission model. The third trimester exposure used opening year (2022) emissions factors, 2-year factors (for infant exposure) reflect years 2023 and 2024, 14-year average factors (for child exposure during years 2-16) reflect emissions during the first 14 years of operation (2025 to 2039), and the second 14 years of exposure (years 2040-2053) were also used for assessment of exposure during years 16 to 30.

Emissions factors were estimated to establish the emissions generated while the vehicles travel off-site, along travel links from the entrance to the proposed buildings, and while idling at the proposed buildings. All vehicles were assumed to travel on-site at a speed of 10 miles per hour. Off-site, the speeds along the roads were anticipated to average 35 miles per hour. Delivery vehicles were assumed to idle for a maximum of 15 minutes per vehicle per day (5 minutes per location: at the facility entrance, at the loading bay, and at the facility exit, in keeping with the CARB Air Toxic Control Measure (ATCM), which regulates truck idling time (CARB 2005). The four different sets of emissions factors used in this assessment are detailed in Table 13. It should be noted that the DPM emissions on both the gram per mile and gram per idle hour bases decline beyond 2022 for all vehicle classes and in particular the heavy-heavy-duty truck class (the 4+ axle "big rig" trucks). This is due to the CARB emissions' requirements on heavy-duty trucks that call for either the replacement of older trucks with cleaner trucks or the installation of diesel particulate matter filters on the truck fleet.

**Emission Source Characterization**

Each of the emission source types described above also requires geometrical and emission release specifications for use in the air dispersion model. Table 14 provides a summary of the assumptions used to configure the various emission sources. The following definitions are used to characterize the emission source geometrical configurations referred to in Table 14:

- Point source: A single, identifiable, local source of emissions; it is approximated in the AERMOD air dispersion model as a mathematical point in the modeling region with a location and emission characteristics such as height of release, temperature, etc., for example, a truck idle location where emissions are sourced from the truck's exhaust stack while the vehicle is stationary.

- Line source: A series of volume sources along a path, for example, vehicular traffic volumes along a roadway.

Figure 3 provides the location of the project buildings, emission source locations, and the locations of the nearest sensitive receptors (the pre-school facility and the single-family detached residential dwelling units located along the western side of Crenshaw Boulevard, and north of 190$^{th}$ St, east of Van Ness Avenue). The pre-school receptor is shown as an orange triangle labeled Preschool_1, the closest residential receptors are shown as orange triangles labeled 2 through 8. The direction of on and off-site truck travel was estimated based on the TIA, site plan, and/or traffic engineer.

## RECEPTOR NETWORK

The assessment requires that a network of receptors be specified where the impacts can be computed at the various locations surrounding the project. Receptors were located at existing sensitive receptors surrounding

the proposed project (as detailed above). In addition, the identified closest (representative) sensitive receptors locations were supplemented by the specification of a modeling grid that extended around the proposed project to identify other potential locations of impact. The locations of the discrete receptors are shown as orange triangles on Figure 3.

## DISPERSION MODELING

The next step in the assessment process utilizes the emissions inventory along with a mathematical air dispersion model and representative meteorological data to calculate impacts at the various receptor locations. The dispersion model used in this assessment is described below.

### Model Selection

The assessment of air quality and health risk impacts from pollutant emissions from this project applied the USEPA AERMOD Model, which is the air dispersion model accepted by the SCAQMD for performing air quality impact analyses. AERMOD predicts pollutant concentrations from point, area, volume, line, and flare sources with variable emissions in terrain from flat to complex with the inclusion of building downwash effects from buildings on pollutant dispersion. It captures the essential atmospheric physical processes and provides reasonable estimates over a wide range of meteorological conditions and modeling scenarios.

### General Model Assumptions

A summary of Emission Configurations is shown in Table 14. The basic options used in the dispersion modeling are summarized in Table 15.

As indicated in Table 15 the analysis takes into account the effects of building downwash on the dispersion of emissions from the various sources located on the project's property. Building downwash occurs when the aerodynamic turbulence, induced by nearby buildings, causes pollutants emitted from an elevated source to be mixed rapidly toward the ground (downwash), resulting in potentially higher ground-level concentrations than if the buildings were not present. The AERMOD dispersion model contains algorithms to account for building downwash effects. The required information includes the location of the emission source; the location of adjacent buildings; and the building geometry in terms of length, width, and height. For purposes of this analysis, the emission source (loading docks) location, building location and height were taken from the project site plan.

### Meteorological Data

Meteorological data from the Air District's Hawthorne monitoring site was selected for this modeling application. Five full years of sequential meteorological data was collected at the site from January 1, 2012 to December 31, 2016 by the SCAQMD. The SCAQMD processed the data for input to the model. The data was obtained at SCAQMD's http://www.aqmd.gov/home/air-quality/air-quality-data-studies/meteorological-data/data-for-aermod (see Figure 4).

## ESTIMATION OF HEALTH RISKS

Health risks from diesel particulate matter are twofold. First, diesel particulate matter is a carcinogen according to the State of California. Second, long-term chronic exposure to diesel particulate matter can cause health effects to the respiratory system. Each of these health risks is discussed below.

### Cancer Risks

According to the *Risk Assessment Guidelines: Guidance Manual for Preparation of Health Risk Assessments*, released by the Office of Environmental Health Hazard Assessment (OEHHA) in February 2015 and formally

adopted in March 2015, the residential inhalation dose for cancer risk assessment should be calculated using the following formula:

[Dose-air (mg/(Kg-day)]*Cancer Potency*[1x10$^{-6}$] = Potential Cancer Risk

Where:
Cancer Potency Factor = 1.1
Dose-inh = (C¬air * DBR * A * EF * ED *ASF*FAH* 10-6) / AT

Where:
Cair [Concentration in air (µg/m3)] = (Calculated by AERMOD Model)
DBR [Daily breathing rate (L/kg body weight – day)] = 261 for adults, 572 for children, and 1,090 for infants, and 361 for 3rd trimester per SCAQMD Permit Application Package "M" Table 9.1 guidance.

A [Inhalation absorption factor] = 1
EF [Exposure frequency (days/year)] = 350
ED [Exposure duration (years)] = 30 for adults (for an individual who is an adult at opening year), 14 for children (from 2-16 years), 14 for adults (from 16-30 years), 2 for infants, and 1 for 3rd Trimester
ASF [Age sensitivity factor) = 10 for 3rd trimester to 2 years of age, 3 for 2 to 16 years of age, and 1 for 16 to 30 years of age
FAH [Fraction of time spent at home] = 1 for 3rd trimester to 2 years of age, 1 for 2 to 16 years of age, and 0.73 for 16 to 30 years of age
$10^6$ [Micrograms to milligrams conversion]
AT [Average time period over which exposure is averaged in days] = 25,550

The model run results are shown in Appendix C. Figure 5 illustrates the cancer risk to the most affected age-group, children (2-16-years).

Table 16 shows the cancer risk for the unborn child during the 3rd trimester, Table 17 shows the cancer risk to infants (0-2 years), Table 18 shows the cancer risk to children ages 2 to 16 years and Table 19 shows the cancer risk as that child becomes an adult (years 16-30). Table 18 shows that the highest child cancer risk is at receptor 3; with a maximum risk of 0.69 in one million. The highest infant cancer risk is also at receptor 3; with a maximum risk of 0.66 in one million. Therefore, no children or infants are exposed to cancer risks in excess of 10 in a million, from project-related DPM emissions, at any receptor location in the project vicinity.

The assessment of cancer-related health risk to sensitive receptors within the project vicinity is based on the following most-conservative scenario:

- an unborn child in its 3rd trimester is potentially exposed to DPM emissions (via exposure of the mother) during the opening year,
- that child is born opening year and then remains at home for the entire first two years of life
- from age 2 to 16, the child remains at home 100 percent of the time
- from age 16 to 30, the child continues to live at home, growing into an adult that spends 73 percent of its time at home and lives there until age 30.

Based on the above, ultra-conservative assumptions, the 30.25-year, cumulative carcinogenic health risk (3rd trimester [-0.25 to 0 years] + infant [0-2 years] + child [2-16 years] + adult [16-30 years]) to an individual born during the opening year of the project, and located in the project vicinity for the entire 30-year duration, is a maximum of 1.47 in a million, as shown in Table 20.

Therefore, the on-going operations of the proposed project would result in a less than significant impact due to the cancer risk from diesel emissions created by the proposed project. As the residential cancer risk does

not exceed 10 in a million, it is anticipated that any offsite worker risk (where the potential for exposure is only 8 hours instead of 24 hours per day) would also not exceed 10 in a million.

**Non-Cancer Risks**

The relationship for non-cancer health effects is given by the equation:

HIDPM = CDPM/RELDPM

Where,

| | | |
|---|---|---|
| HIDPM | = | Hazard Index; an expression of the potential for non-cancer health effects. |
| CDPM | = | Annual average diesel particulate matter concentration in µg/m3. |
| RELDPM | = | Reference Exposure Level (REL) for diesel particulate matter; the diesel particulate matter concentration at which no adverse health effects are anticipated. |

The non-carcinogenic hazards to residential adult, 3rd trimester, child and infant receptors are also detailed in Tables 16 through 19 column (j). The RELDPM is 5 µg/m3. The Office of Environmental Health Hazard Assessment as protective for the respiratory system has established this concentration. Using the maximum DPM concentration for the opening year (2022), the resulting Hazard Index is:

HIDPM = 0.0086/5 = 0.00172

The criterion for significance is a Hazard Index increase of 1.0 or greater. Therefore, the proposed project would have a less than significant impact due to the non-cancer risk from diesel emissions created by the proposed project.

## Table 13
## DPM Emissions Factors for the Proposed Project

| Vehicle Class | 14-Year Average (First 14 years of Operation - 2025-2039) | | |
|---|---|---|---|
| | Idling (g/hr) | On-Site Travel (g/mi) | Off-Site Travel (g/mi) |
| Light Heavy Duty Truck 2 | 0.79363 | 0.03705 | 0.01629 |
| Medium Heavy Duty Truck | 0.01672 | 0.00493 | 0.00386 |
| Heavy Heavy Duty Truck | 0.01098 | 0.01036 | 0.00848 |

| Vehicle Class | 14-Year Average (Second 14 years of Operation - 2040-2053) | | |
|---|---|---|---|
| | Idling (g/hr) | On-Site Travel (g/mi) | Off-Site Travel (g/mi) |
| Light Heavy Duty Truck 2 | 0.79427 | 0.02916 | 0.01434 |
| Medium Heavy Duty Truck | 0.00774 | 0.00435 | 0.00368 |
| Heavy Heavy Duty Truck | 0.01015 | 0.00958 | 0.00810 |

| Vehicle Class | 2-Year Average (2023-2024) | | |
|---|---|---|---|
| | Idling (g/hr) | On-Site Travel (g/mi) | Off-Site Travel (g/mi) |
| Light Heavy Duty Truck 2 | 0.78826 | 0.04861 | 0.01906 |
| Medium Heavy Duty Truck | 0.04116 | 0.00577 | 0.00394 |
| Heavy Heavy Duty Truck | 0.01244 | 0.01139 | 0.00884 |

| Vehicle Class | 1-Year Average (Opening Year-2022) | | |
|---|---|---|---|
| | Idling (g/hr) | On-Site Travel (g/mi) | Off-Site Travel (g/mi) |
| Light Heavy Duty Truck 2 | 0.78700 | 0.05169 | 0.01977 |
| Medium Heavy Duty Truck | 0.14701 | 0.06229 | 0.03426 |
| Heavy Heavy Duty Truck | 0.01503 | 0.03710 | 0.01772 |

Notes:

Source: EMFAC2017.

**Table 14**
**Summary of Emission Configurations**

| Emission Source Type | Geometric Configuration | Relevant Assumptions |
|---|---|---|
| Off-Site Diesel Truck Traffic | Line Sources | Stack release height: 12 feet |
| | | Vehicle speed: 35 mph |
| | | Length of the line sources (along Crenshaw Blvd, Crenshaw Pl, and along 190th St) ) |
| | | Vehicle types: heavy-heavy-duty, medium-heavy-duty and light-heavy-duty diesel delivery trucks |
| | | Emission factor: CARB EMFAC2017 |
| On-Site Diesel Truck Traffic | Line Sources | Stack release height: 12 feet |
| | | Vehicle speed: 10 mph |
| | | Length of the line source (distance from the facility entrances to the loading docks) |
| | | Vehicle types: heavy-heavy-duty, medium-heavy-duty and light-heavy-duty diesel delivery trucks |
| | | Emission factor: CARB EMFAC2017 |
| On-Site Diesel Truck Idling | Point Sources located at the loading docks | Stack release height: 12 feet |
| | | Stack release characteristics |
| | | > Stack diameter: 0.1 meter (0.3 feet) |
| | | > Stack velocity: 51.9 mps (170 feet/sec) |
| | | > Stack temperature: 366 °k (200° F) |
| | | Idle time: 15 minutes per truck per day |
| | | Vehicle types: heavy-heavy-duty, medium-heavy-duty and light-heavy-duty diesel delivery trucks |
| | | Emission factor: CARB EMFAC2017 |

**Table 15**
**General Modeling Assumptions - AERMOD Model**

| Feature | Option Selected |
|---|---|
| Terrain processing | AERMAP |
| Emission source configuration | See Table 15 |
| Regulatory dispersion options | Default |
| Land use | Urban |
| Coordinate system | UTM, Zone 11 north |
| Building downwash | Included in calculations |
| Receptor height | 0 meters above ground (per SCAQMD methodology) |
| Meteorological data | SCAQMD Hawthorne Meteorological Data |

## Table 16
## Carcinogenic Risks and Non-Carcinogenic 3rd Trimester Exposure Scenario (0.25-Years)

| Receptor ID (a) | Maximum Concentration (ug/m3) (b) | Maximum Concentration (mg/m3) (c) | Weight Fraction (d) | Contaminant (e) | Carcinogenic Hazards CPF (mg/kg/day) (f) | Carcinogenic Hazards RISK (per million) (g) | Noncarcinogenic Hazards REL (ug/m3) (h) | Noncarcinogenic Hazards RfD (mg/kg/day) (i) | Noncarcinogenic Hazards Index (j) |
|---|---|---|---|---|---|---|---|---|---|
| Preschool_1 | 0.00213 | 2.1E-06 | 1.00E+00 | DPM | 1.1E+00 | 0.03 | 5.0E+00 | 1.4E-03 | 0.0004 |
| 2 | 0.003 | 3.0E-06 | 1.00E+00 | DPM | 1.1E+00 | 0.04 | 5.0E+00 | 1.4E-03 | 0.0006 |
| 3 | 0.00313 | 3.1E-06 | 1.00E+00 | DPM | 1.1E+00 | 0.04 | 5.0E+00 | 1.4E-03 | 0.0006 |
| 4 | 0.00288 | 2.9E-06 | 1.00E+00 | DPM | 1.1E+00 | 0.04 | 5.0E+00 | 1.4E-03 | 0.0006 |
| 5 | 0.0024 | 2.4E-06 | 1.00E+00 | DPM | 1.1E+00 | 0.03 | 5.0E+00 | 1.4E-03 | 0.0005 |
| 6 | 0.00204 | 2.0E-06 | 1.00E+00 | DPM | 1.1E+00 | 0.03 | 5.0E+00 | 1.4E-03 | 0.0004 |
| 7 | 0.00205 | 2.1E-06 | 1.00E+00 | DPM | 1.1E+00 | 0.03 | 5.0E+00 | 1.4E-03 | 0.0004 |
| 8 | 0.00197 | 2.0E-06 | 1.00E+00 | DPM | 1.1E+00 | 0.03 | 5.0E+00 | 1.4E-03 | 0.0004 |

Notes:

Exposure factors used to calculate TAC intake:

| | |
|---|---|
| Exposure Frequency (days/year) | 350 |
| Exposure Duration (years) | 0.25 |
| Daily Breathing Rate | 361 |
| Age Sensitivity Factor | 10 |
| Fraction of Time At Home (FAH) | 1 |
| Averaging Time $_{(cancer)}$ (days) | 25550 |
| Averaging Time $_{(non\text{-}cancer)}$ (days) | 91.25 |

E= $10^{X}$, i.e. E-02 = $10^{-2}$

## Table 17
## Carcinogenic Risks and Non-Carcinogenic Infant Exposure Scenario (2-Year)

| Receptor ID (a) | Maximum Concentration (ug/m3) (b) | Maximum Concentration (mg/m3) (c) | Weight Fraction (d) | Contaminant (e) | Carcinogenic Hazards CPF (mg/kg/day) (f) | Carcinogenic Hazards RISK (per million) (g) | Noncarcinogenic Hazards REL (ug/m3) (h) | Noncarcinogenic Hazards RfD (mg/kg/day) (i) | Noncarcinogenic Hazards Index (j) |
|---|---|---|---|---|---|---|---|---|---|
| Preschool_1 | 0.00139 | 1.4E-06 | 1.00E+00 | DPM | 1.1E+00 | 0.46 | 5.0E+00 | 1.4E-03 | 0.0003 |
| 2 | 0.00198 | 2.0E-06 | 1.00E+00 | DPM | 1.1E+00 | 0.65 | 5.0E+00 | 1.4E-03 | 0.0004 |
| 3 | 0.00202 | 2.0E-06 | 1.00E+00 | DPM | 1.1E+00 | 0.66 | 5.0E+00 | 1.4E-03 | 0.0004 |
| 4 | 0.00182 | 1.8E-06 | 1.00E+00 | DPM | 1.1E+00 | 0.60 | 5.0E+00 | 1.4E-03 | 0.0004 |
| 5 | 0.00146 | 1.5E-06 | 1.00E+00 | DPM | 1.1E+00 | 0.48 | 5.0E+00 | 1.4E-03 | 0.0003 |
| 6 | 0.00117 | 1.2E-06 | 1.00E+00 | DPM | 1.1E+00 | 0.38 | 5.0E+00 | 1.4E-03 | 0.0002 |
| 7 | 0.00106 | 1.1E-06 | 1.00E+00 | DPM | 1.1E+00 | 0.35 | 5.0E+00 | 1.4E-03 | 0.0002 |
| 8 | 0.00096 | 9.6E-07 | 1.00E+00 | DPM | 1.1E+00 | 0.32 | 5.0E+00 | 1.4E-03 | 0.0002 |

Notes:

Exposure factors used to calculate TAC intake:

| | |
|---|---|
| Exposure Frequency (days/year) | 350 |
| Exposure Duration (years) | 2 |
| Daily Breathing Rate | 1090 |
| Age Sensitivity Factor | 10 |
| Fraction of Time At Home (FAH) | 1 |
| Averaging Time $_{(cancer)}$ (days) | 25550 |
| Averaging Time $_{(non\text{-}cancer)}$ (days) | 730 |

E= $10^{X}$, i.e. E-02 = $10^{-2}$

## Table 18
## Carcinogenic Risks and Non-Carcinogenic Child Exposure Scenario (14-Year)

| Receptor ID (a) | Maximum Concentration (ug/m3) (b) | Maximum Concentration (mg/m3) (c) | Weight Fraction (d) | Contaminant (e) | Carcinogenic Hazards CPF (mg/kg/day) (f) | Carcinogenic Hazards RISK (per million) (g) | Noncarcinogenic Hazards REL (ug/m3) (h) | Noncarcinogenic Hazards RfD (mg/kg/day) (i) | Noncarcinogenic Hazards Index (j) |
|---|---|---|---|---|---|---|---|---|---|
| Preschool_1 | 0.00132 | 1.3E-06 | 1.00E+00 | DPM | 1.1E+00 | 0.48 | 5.0E+00 | 1.4E-03 | 0.0003 |
| 2 | 0.00188 | 1.9E-06 | 1.00E+00 | DPM | 1.1E+00 | 0.68 | 5.0E+00 | 1.4E-03 | 0.0004 |
| 3 | 0.00191 | 1.9E-06 | 1.00E+00 | DPM | 1.1E+00 | 0.69 | 5.0E+00 | 1.4E-03 | 0.0004 |
| 4 | 0.00172 | 1.7E-06 | 1.00E+00 | DPM | 1.1E+00 | 0.62 | 5.0E+00 | 1.4E-03 | 0.0003 |
| 5 | 0.00138 | 1.4E-06 | 1.00E+00 | DPM | 1.1E+00 | 0.50 | 5.0E+00 | 1.4E-03 | 0.0003 |
| 6 | 0.00111 | 1.1E-06 | 1.00E+00 | DPM | 1.1E+00 | 0.40 | 5.0E+00 | 1.4E-03 | 0.0002 |
| 7 | 0.001 | 1.0E-06 | 1.00E+00 | DPM | 1.1E+00 | 0.36 | 5.0E+00 | 1.4E-03 | 0.0002 |
| 8 | 0.0009 | 9.0E-07 | 1.00E+00 | DPM | 1.1E+00 | 0.33 | 5.0E+00 | 1.4E-03 | 0.0002 |

Notes:

Exposure factors used to calculate TAC intake:

| | |
|---|---|
| Exposure Frequency (days/year) | 350 |
| Exposure Duration (years) | 14 |
| Daily Breathing Rate | 572.00 |
| Age Sensitivity Factor | 3 |
| Fraction of Time At Home (FAH) | 1 |
| Averaging Time $_{(cancer)}$ (days) | 25550 |
| Averaging Time $_{(non\text{-}cancer)}$ (days) | 5110 |

E= $10^{X}$, i.e. E-02 = $10^{-2}$

## Table 19
## Carcinogenic Risks and Non-Carcinogenic Hazards Adult Exposure Scenario (14 Year)

| Receptor ID (a) | Maximum Concentration (ug/m3) (b) | Maximum Concentration (mg/m3) (c) | Weight Fraction (d) | Contaminant (e) | Carcinogenic Hazards CPF (mg/kg/day) (f) | Carcinogenic Hazards RISK (per million) (g) | Noncarcinogenic Hazards REL (ug/m3) (h) | Noncarcinogenic Hazards RfD (mg/kg/day) (i) | Noncarcinogenic Hazards Index (j) |
|---|---|---|---|---|---|---|---|---|---|
| Preschool_1 | 0.00128 | 6.9E-04 | 1.00E+00 | DPM | 1.1E+00 | 0.05 | 5.0E+00 | 1.4E-03 | 0.0003 |
| 2 | 0.00182 | 8.3E-04 | 1.00E+00 | DPM | 1.1E+00 | 0.07 | 5.0E+00 | 1.4E-03 | 0.0004 |
| 3 | 0.00185 | 1.9E-03 | 1.00E+00 | DPM | 1.1E+00 | 0.07 | 5.0E+00 | 1.4E-03 | 0.0004 |
| 4 | 0.00166 | 1.4E-03 | 1.00E+00 | DPM | 1.1E+00 | 0.07 | 5.0E+00 | 1.4E-03 | 0.0003 |
| 5 | 0.00132 | 1.4E-03 | 1.00E+00 | DPM | 1.1E+00 | 0.05 | 5.0E+00 | 1.4E-03 | 0.0003 |
| 6 | 0.00106 | 1.0E-03 | 1.00E+00 | DPM | 1.1E+00 | 0.04 | 5.0E+00 | 1.4E-03 | 0.0002 |
| 7 | 0.00095 | 9.5E-07 | 1.00E+00 | DPM | 1.1E+00 | 0.04 | 5.0E+00 | 1.4E-03 | 0.0002 |
| 8 | 0.00084 | 8.4E-07 | 1.00E+00 | DPM | 1.1E+00 | 0.03 | 5.0E+00 | 1.4E-03 | 0.0002 |

Notes:

Exposure factors used to calculate TAC intake:

| | |
|---|---|
| Exposure Frequency (days/year) | 350 |
| Exposure Duration (years) | 14 |
| Daily Breathing Rate | 261 |
| Age Sensitivity Factor | 1 |
| Fraction of Time At Home (FAH) | 0.73 |
| Averaging Time $_{(cancer)}$ (days) | 25550 |
| Averaging Time $_{(non\text{-}cancer)}$ (days) | 5110 |

E= $10^{X}$, i.e. E-02 = $10^{-2}$

**Table 20**
**Cumulative Carcinogenic Risk**
**30.25 Year Exposure Scenario**

| Receptor ID | Cumulative RISK (per million) |
|---|---|
| Preschool_1 | 1.01 |
| 2 | 1.44 |
| 3 | 1.47 |
| 4 | 1.33 |
| 5 | 1.06 |
| 6 | 0.86 |
| 7 | 0.78 |
| 8 | 0.70 |

N

Legend

Site Boundary
On/Off Site Truck Travel
Cartesian Receptor Grid
Idling Locations
Sensitive Receptors

**Figure 3**
**AERMOD Model Source and Receptor Placement**

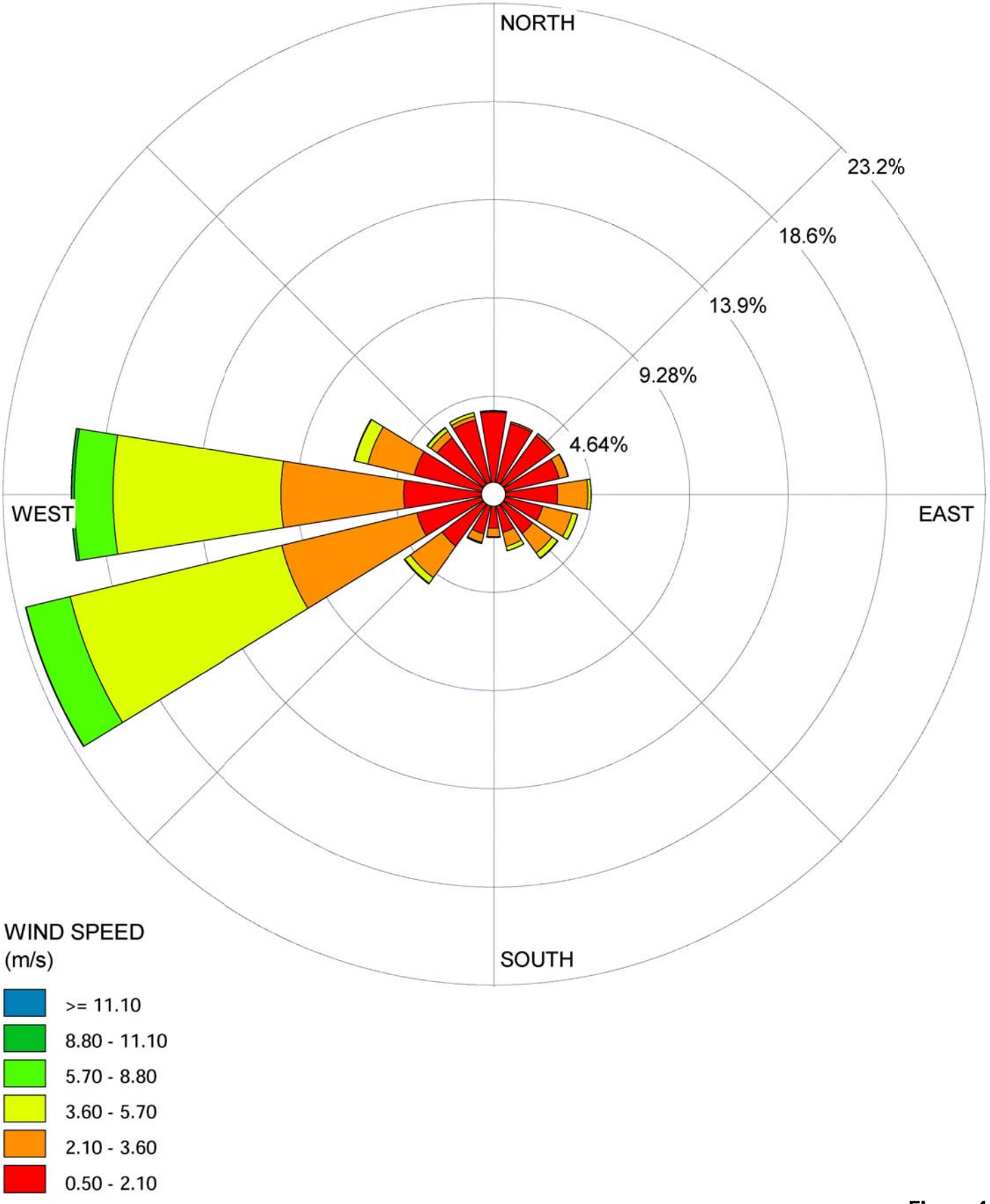
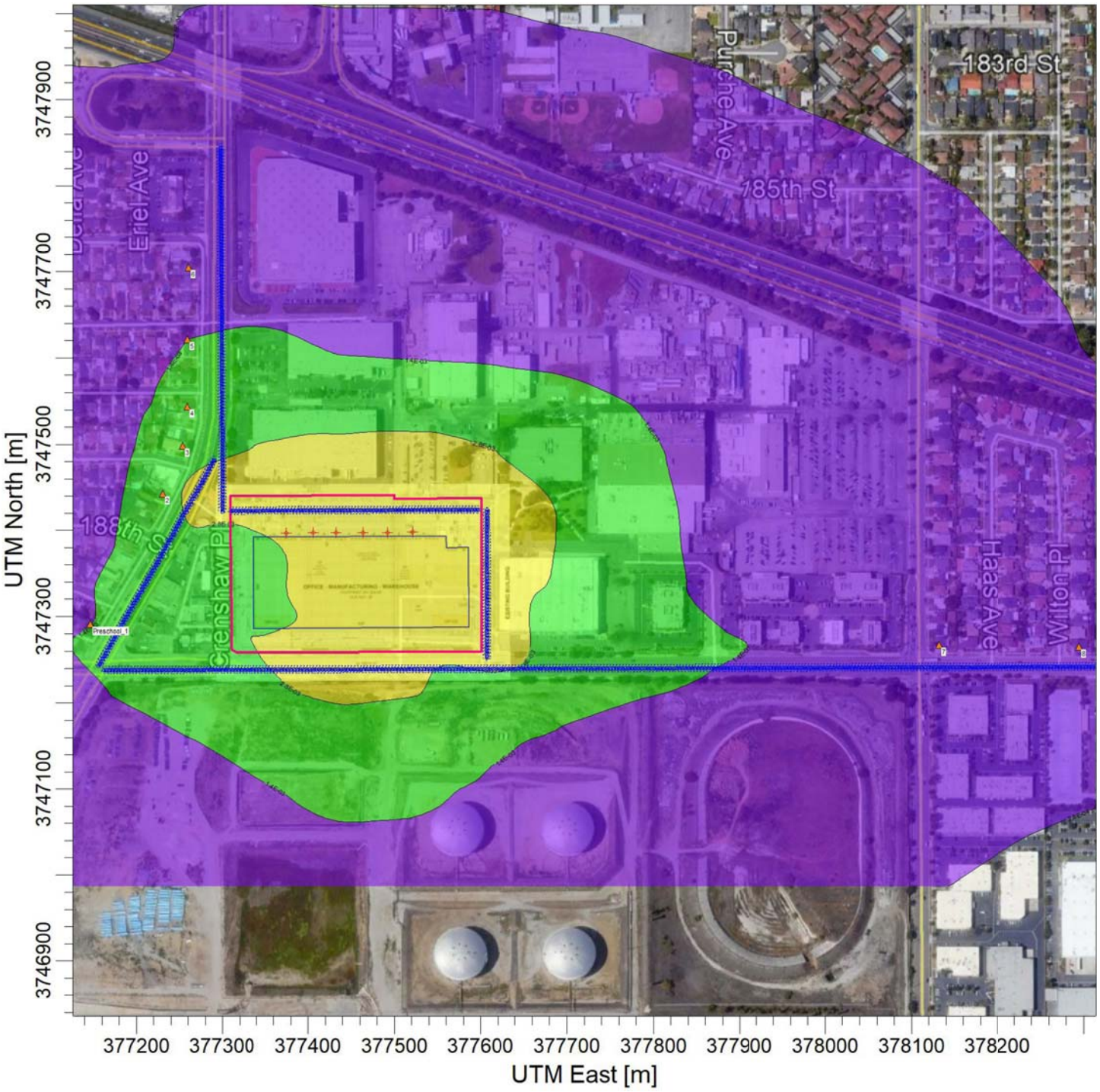



**Figure 4**
**Wind Rose: Hawthorne**




N

Legend

Infant Cancer Risk

- 2 in a million
- 1 in a million
- 0.5 in a million
- 0.1 in a million

**Figure 5**
**Modeled Study Area Highest Annual DPM Emissions**

# 4. GLOBAL CLIMATE CHANGE ANALYSIS

## EXISTING GREENHOUSE GAS ENVIRONMENT

Constituent gases of the Earth's atmosphere, called atmospheric greenhouse gases (GHG), play a critical role in the Earth's radiation amount by trapping infrared radiation emitted from the Earth's surface, which otherwise would have escaped to space. Prominent greenhouse gases contributing to this process include carbon dioxide ($CO_2$), methane ($CH_4$), ozone, water vapor, nitrous oxide ($N_2O$), and chlorofluorocarbons (CFCs). This phenomenon, known as the Greenhouse Effect, is responsible for maintaining a habitable climate. Anthropogenic (caused or produced by humans) emissions of these greenhouse gases in excess of natural ambient concentrations are responsible for the enhancement of the Greenhouse Effect and have led to a trend of unnatural warming of the Earth's natural climate, known as global warming or climate change. Emissions of gases that induce global warming are attributable to human activities associated with industrial/manufacturing, agriculture, utilities, transportation, and residential land uses. Transportation is responsible for 41 percent of the State's greenhouse gas emissions, followed by electricity generation. Emissions of $CO_2$ and nitrous oxide (NOx) are byproducts of fossil fuel combustion. Methane, a potent greenhouse gas, results from off-gassing associated with agricultural practices and landfills. Sinks of $CO_2$, where $CO_2$ is stored outside of the atmosphere, include uptake by vegetation and dissolution into the ocean. The following provides a description of each of the greenhouse gases and their global warming potential.

Water Vapor

Water vapor is the most abundant, important, and variable GHG in the atmosphere. Water vapor is not considered a pollutant; in the atmosphere it maintains a climate necessary for life. Changes in its concentration are primarily considered a result of climate feedbacks related to the warming of the atmosphere rather than a direct result of industrialization. The feedback loop in which water is involved is critically important to projecting future climate change. As the temperature of the atmosphere rises, more water is evaporated from ground storage (rivers, oceans, reservoirs, soil). Because the air is warmer, the relative humidity can be higher (in essence, the air is able to "hold" more water when it is warmer), leading to more water vapor in the atmosphere. As a GHG, the higher concentration of water vapor is then able to absorb more thermal indirect energy radiated from the Earth, thus further warming the atmosphere. The warmer atmosphere can then hold more water vapor and so on and so on. This is referred to as a "positive feedback loop". The extent to which this positive feedback loop will continue is unknown as there is also dynamics that put the positive feedback loop in check. As an example, when water vapor increases in the atmosphere, more of it will eventually also condense into clouds, which are more able to reflect incoming solar radiation (thus allowing less energy to reach the Earth's surface and heat it up).

Carbon Dioxide ($CO_2$)

The natural production and absorption of $CO_2$ is achieved through the terrestrial biosphere and the ocean. However, humankind has altered the natural carbon cycle by burning coal, oil, natural gas, and wood. Since the industrial revolution began in the mid-1700s. Each of these activities has increased in scale and distribution. $CO_2$ was the first GHG demonstrated to be increasing in atmospheric concentration with the first conclusive measurements being made in the last half of the 20th century. Prior to the industrial revolution, concentrations were fairly stable at 280 parts per million (ppm). The International Panel on Climate Change (IPCC Fifth Assessment Report, 2014) Emissions of $CO_2$ from fossil fuel combustion and industrial processes contributed about 78% of the total GHG emissions increase from 1970 to 2010, with a similar percentage contribution for the increase during the period 2000 to 2010. Globally, economic and population growth continued to be the most important drivers of increases in $CO_2$ emissions from fossil fuel combustion. The contribution of population growth between 2000 and 2010 remained roughly identical to the previous three decades, while the contribution of economic growth has risen sharply.

Methane ($CH_4$)

$CH_4$ is an extremely effective absorber of radiation, although its atmospheric concentration is less than that of $CO_2$. Its lifetime in the atmosphere is brief (10 to 12 years), compared to some other GHGs (such as $CO_2$, $N_2O$, and Chlorofluorocarbons (CFCs). $CH_4$ has both natural and anthropogenic sources. It is released as part of the biological processes in low oxygen environments, such as in swamplands or in rice production (at the roots of the plants). Over the last 50 years, human activities such as growing rice, raising cattle, using natural gas, and mining coal have added to the atmospheric concentration of methane. Other anthropocentric sources include fossil-fuel combustion and biomass burning.

Nitrous Oxide ($N_2O$)

Concentrations of $N_2O$ also began to rise at the beginning of the industrial revolution. In 1998, the global concentration of this GHG was documented at 314 parts per billion (ppb). $N_2O$ is produced by microbial processes in soil and water, including those reactions which occur in fertilizer containing nitrogen. In addition to agricultural sources, some industrial processes (fossil fuel-fired power plants, nylon production, nitric acid production, and vehicle emissions) also contribute to its atmospheric load. It is also commonly used as an aerosol spray propellant, (i.e., in whipped cream bottles, in potato chip bags to keep chips fresh, and in rocket engines and in race cars).

Chlorofluorocarbons (CFC)

CFCs are gases formed synthetically by replacing all hydrogen atoms in methane or ethane ($C_2H_6$) with chlorine and/or fluorine atoms. CFCs are nontoxic, nonflammable, insoluble, and chemically unreactive in the troposphere (the level of air at the Earth's surface). CFCs have no natural source, but were first synthesized in 1928. It was used for refrigerants, aerosol propellants, and cleaning solvents. Due to the discovery that they are able to destroy stratospheric ozone, a global effort to halt their production was undertaken and in 1989 the European Community agreed to ban CFCs by 2000 and subsequent treaties banned CFCs worldwide by 2010. This effort was extremely successful, and the levels of the major CFCs are now remaining level or declining. However, their long atmospheric lifetimes mean that some of the CFCs will remain in the atmosphere for over 100 years.

Hydrofluorocarbons (HFC)

HFCs are synthetic man-made chemicals that are used as a substitute for CFCs. Out of all the GHGs, they are one of three groups with the highest global warming potential. The HFCs with the largest measured atmospheric abundances are (in order), HFC-23 ($CHF_3$), HFC-134a ($CF_3CH_2F$), and HFC-152a ($CH_3CHF_2$). Prior to 1990, the only significant emissions were HFC-23. HFC-134a use is increasing due to its use as a refrigerant. Concentrations of HFC-23 and HFC-134a in the atmosphere are now about 10 parts per trillion (ppt) each. Concentrations of HFC-152a are about 1 ppt. HFCs are manmade for applications such as automobile air conditioners and refrigerants.

Perfluorocarbons (PFC)

PFCs have stable molecular structures and do not break down through the chemical processes in the lower atmosphere. High-energy ultraviolet rays about 60 kilometers above Earth's surface are able to destroy the compounds. Because of this, PFCs have very long lifetimes, between 10,000 and 50,000 years. Two common PFCs are tetrafluoromethane ($CF_4$) and hexafluoroethane ($C_2F_6$). Concentrations of $CF_4$ in the atmosphere are over 70 ppt. The two main sources of PFCs are primary aluminum production and semiconductor manufacturing.

Sulfur Hexafluoride ($SF_6$)

$SF_6$ is an inorganic, odorless, colorless, nontoxic, nonflammable gas. $SF_6$ has the highest global warming potential of any gas evaluated; 23,900 times that of $CO_2$. Concentrations in the 1990s were about 4 ppt. Sulfur hexafluoride is used for insulation in electric power transmission and distribution equipment, in the magnesium industry, in semiconductor manufacturing, and as a tracer gas for leak detection.

Aerosols

Aerosols are particles emitted into the air through burning biomass (plant material) and fossil fuels. Aerosols can warm the atmosphere by absorbing and emitting heat and can cool the atmosphere by reflecting light. Cloud formation can also be affected by aerosols. Sulfate aerosols are emitted when fuel containing sulfur is burned. Black carbon (or soot) is emitted during biomass burning due to the incomplete combustion of fossil fuels. Particulate matter regulation has been lowering aerosol concentrations in the United States; however, global concentrations are likely increasing.

Global Warming Potential

The Global Warming Potential (GWP) was developed to allow comparisons of the global warming impacts of different gases. Specifically, it is a measure of how much energy the emissions of 1 ton of a gas will absorb over a given period of time, relative to the emissions of 1 ton of carbon dioxide ($CO_2$). The larger the GWP, the more that a given gas warms the Earth compared to $CO_2$ over that time period. The time period usually used for GWPs is 100 years. GWPs provide a common unit of measure, which allows analysts to add up emissions estimates of different gases (e.g., to compile a national GHG inventory), and allows policymakers to compare emissions reduction opportunities across sectors and gases. A summary of the atmospheric lifetime and the global warming potential of selected gases are summarized in Table 21. As shown in Table 21, the global warming potential of GHGs ranges from 1 to 22,800.

## Table 21
## Global Warming Potentials and Atmospheric Lifetimes

| Gas | Atmospheric Lifetime | Global Warming Potential[1] (100 Year Horizon) |
|---|---|---|
| Carbon Dioxide ($CO_2$) | –[2] | 1 |
| Methane ($CH_4$) | 12 | 28-36 |
| Nitrous Oxide (NO) | 114 | 298 |
| Hydrofluorocarbons (HFCs) | 1-270 | 12-14,800 |
| Perfluorocarbons (PFCs) | 2,600-50,000 | 7,390-12,200 |
| Nitrogen trifluoride ($NF_3$) | 740 | 17,200 |
| Sulfur Hexafluoride ($SF_6$) | 3,200 | 22,800 |

Notes:
Source: http://www3.epa.gov/climatechange/ghgemissions/gases.html

(1) Compared to the same quantity of $CO_2$ emissions.

(2) Carbon dioxide's lifetime is poorly defined because the gas is not destroyed over time, but instead moves among different parts of the ocean–atmosphere–land system. Some of the excess carbon dioxide will be absorbed quickly (for example, by the ocean surface), but some will remain in the atmosphere for thousands of years, due in part to the very slow process by which carbon is transferred to ocean sediments.

## GREENHOUSE GAS STANDARDS AND REGULATION

### International

*Montreal Protocol*

In 1988, the United Nations established the Intergovernmental Panel on Climate Change (IPCC) to evaluate the impacts of global climate change and to develop strategies that nations could implement to curtail global climate change. In 1992, the United States joined other countries around the world in signing the United Nations' Framework Convention on Climate Change (UNFCCC) agreement with the goal of controlling GHG emissions. As a result, the Climate Change Action Plan was developed to address the reduction of GHGs in the United States. The plan consists of more than 50 voluntary programs.

Additionally, the Montreal Protocol was originally signed in 1987 and substantially amended in 1990 and 1992. The Montreal Protocol stipulates that the production and consumption of compounds that deplete ozone in the stratosphere—CFCs, halons, carbon tetrachloride, and methyl chloroform—were to be phased out, with the first three by the year 2000 and methyl chloroform by 2005.

*The Paris Agreement*

The Paris Agreement became effective on November 4, 2016. Thirty days after this date at least 55 Parties to the United Nations Framework Convention on Climate Change (Convention), accounting in total for at least an estimated 55 % of the total global greenhouse gas emissions, had deposited their instruments of ratification, acceptance, approval or accession with the Depositary.

The Paris Agreement built upon the Convention and – for the first time – attempted to bring all nations into a common cause to undertake ambitious efforts to combat climate change and adapt to its effects, with enhanced support to assist developing countries to do so. As such, it charts a new course in the global climate effort.

The Paris Agreement's central aim is to strengthen the global response to the threat of climate change by keeping a global temperature rise this century well below 2 degrees Celsius above pre-industrial levels and to pursue efforts to limit the temperature increase even further to 1.5 degrees Celsius. Additionally, the agreement aims to strengthen the ability of countries to deal with the impacts of climate change. To reach these ambitious goals, appropriate financial flows, a new technology framework and an enhanced capacity building framework will be put in place, thus supporting action by developing countries and the most vulnerable countries, in line with their own national objectives. The Agreement also provides for enhanced transparency of action and support through a more robust transparency framework. The Trump administration has recently indicated the United States federal government will no longer participate in the Paris agreement. However, the U.S. cannot technically withdraw from the Agreement until November 4, 2020.

### Federal

The United States Environmental Protection Agency (USEPA) is responsible for implementing federal policy to address GHGs. The federal government administers a wide array of public-private partnerships to reduce the GHG intensity generated in the United States. These programs focus on energy efficiency, renewable energy, methane and other non-CO2 gases, agricultural practices, and implementation of technologies to achieve GHG reductions. The USEPA implements numerous voluntary programs that contribute to the reduction of GHG emissions. These programs (e.g., the ENERGY STAR labeling system for energy-efficient products) play a significant role in encouraging voluntary reductions from large corporations, consumers, industrial and commercial buildings, and many major industrial sectors.

In Massachusetts v. Environmental Protection Agency (Docket No. 05–1120), argued November 29, 2006 and decided April 2, 2007, the U.S. Supreme Court held that not only did the EPA have authority to regulate

greenhouse gases, but the EPA's reasons for not regulating this area did not fit the statutory requirements. As such, the U.S. Supreme Court ruled that the EPA should be required to regulate $CO_2$ and other greenhouse gases as pollutants under the federal Clean Air Act (CAA).

In response to the FY2008 Consolidations Appropriations Act (H.R. 2764; Public Law 110-161), EPA proposed a rule on March 10, 2009 that requires mandatory reporting of GHG emissions from large sources in the United States. On September 22, 2009, the Final Mandatory Reporting of GHG Rule was signed and published in the Federal Register on October 30, 2009. The rule became effective on December 29, 2009. This rule requires suppliers of fossil fuels or industrial GHGs, manufacturers of vehicles and engines, and facilities that emit 25,000 metric tons or more per year of GHG emissions to submit annual reports to EPA.

On December 7, 2009, the EPA Administrator signed two distinct findings under section 202(a) of the Clean Air Act. One is an endangerment finding that finds concentrations of the six GHGs in the atmosphere threaten the public health and welfare of current and future generations. The other is a cause or contribute finding, that finds emissions from new motor vehicles and new motor vehicle engines contribute to the GHG pollution which threatens public health and welfare. These actions will not themselves impose any requirements on industry or other entities. However, it is a prerequisite to finalizing the EPA's proposed GHG emission standards for light-duty vehicles, which were jointly proposed by the EPA and Department of Transportation on September 15, 2009.

*Clean Air Act*

In Massachusetts v. Environmental Protection Agency (Docket No. 05–1120), the U.S. Supreme Court held in April of 2007 that the USEPA has statutory authority under Section 202 of the federal Clean Air Act (CAA) to regulate GHGs. The court did not hold that the USEPA was required to regulate GHG emissions; however, it indicated that the agency must decide whether GHGs cause or contribute to air pollution that is reasonably anticipated to endanger public health or welfare. On December 7, 2009, the USEPA Administrator signed two distinct findings regarding GHGs under Section 202(a) of the CAA. The USEPA adopted a Final Endangerment Finding for the six defined GHGs (CO2, CH4, N2O, HFCs, PFCs, and SF6) on December 7, 2009. The Endangerment Finding is required before USEPA can regulate GHG emissions under Section 202(a)(1) of the CAA consistently with the United States Supreme Court decision. The USEPA also adopted a Cause or Contribute Finding in which the USEPA Administrator found that GHG emissions from new motor vehicle and motor vehicle engines are contributing to air pollution, which is endangering public health and welfare. These findings do not, by themselves, impose any requirements on industry or other entities. However, these actions were a prerequisite for implementing GHG emissions standards for vehicles.

*Energy Independence Security Act*

The Energy Independence and Security Act of 2007 (EISA) facilitates the reduction of national GHG emissions by requiring the following:

- Increasing the supply of alternative fuel sources by setting a mandatory Renewable Fuel Standard (RFS) that requires fuel producers to use at least 36 billion gallons of biofuel in 2022;
- Prescribing or revising standards affecting regional efficiency for heating and cooling products, procedures for new or amended standards, energy conservation, energy efficiency labeling for consumer electronic products, residential boiler efficiency, electric motor efficiency, and home appliances;
- Requiring approximately 25 percent greater efficiency for light bulbs by phasing out incandescent light bulbs between 2012 and 2014; requiring approximately 200 percent greater efficiency for light bulbs, or similar energy savings, by 2020; and
- While superseded by the USEPA and NHTSA actions described above, (i) establishing miles per gallon targets for cars and light trucks and (ii) directing the NHTSA to establish a fuel economy program for medium- and heavy-duty trucks and create a separate fuel economy standard for trucks.

Additional provisions of EISA address energy savings in government and public institutions, promote research for alternative energy, additional research in carbon capture, international energy programs, and the creation of green jobs.[10]

*Executive Order 13432*

In response to the Massachusetts v. Environmental Protection Agency ruling, the President signed Executive Order 13432 on May 14, 2007, directing the USEPA, along with the Departments of Transportation, Energy, and Agriculture, to initiate a regulatory process that responds to the Supreme Court's decision. Executive Order 13432 was codified into law by the 2009 Omnibus Appropriations Law signed on February 17, 2009. The order sets goals in the areas of energy efficiency, acquisition, renewable energy, toxics reductions, recycling, sustainable buildings, electronics stewardship, fleets, and water conservation. Light-Duty Vehicle Greenhouse Gas and Corporate Average Fuel Economy Standards.

On May 19, 2009, President Obama announced a national policy for fuel efficiency and emissions standards in the United States auto industry. The adopted federal standard applies to passenger cars and light-duty trucks for model years 2012 through 2016. The rule surpasses the prior Corporate Average Fuel Economy standards (CAFE)[11] and requires an average fuel economy standard of 35.5 miles per gallon (mpg) and 250 grams of CO2 per mile by model year 2016, based on USEPA calculation methods. These standards were formally adopted on April 1, 2010. In August 2012, standards were adopted for model year 2017 through 2025 for passenger cars and light-duty trucks. By 2025, vehicles are required to achieve 54.5 mpg (if GHG reductions are achieved exclusively through fuel economy improvements) and 163 grams of CO2 per mile. According to the USEPA, a model year 2025 vehicle would emit one-half of the GHG emissions from a model year 2010 vehicle.[12] In 2017, the USEPA recommended no change to the GHG standards for light-duty vehicles for model years 2022-2025.

In August 2018, the USEPA and NHTSA proposed the Safer Affordable Fuel-Efficient Vehicles Rule that would, if adopted, maintain the CAFE and CO2 standards applicable in model year 2020 for model years 2021 through 2026. The estimated CAFE and CO2 standards for model year 2020 are 43.7 mpg and 204 grams of CO2 per mile for passenger cars and 31.3 mpg and 284 grams of CO2 per mile for light trucks, projecting an overall industry average of 37 mpg, as compared to 46.7 mpg under the standards issued in 2012. The proposal, if adopted, would also exclude CO2- equivalent emission improvements associated with air conditioning refrigerants and leakage (and, optionally, offsets for nitrous oxide and methane emissions) after model year 2020.[13]

**State of California**

*California Air Resources Board*

CARB, a part of the California Environmental Protection Agency (CalEPA), is responsible for the coordination and administration of both federal and state air pollution control programs within California. In this capacity, CARB conducts research, sets state ambient air quality standards (California Ambient Air Quality Standards

[10] A green job, as defined by the United States Department of Labor, is a job in business that produces goods or provides services that benefit the environment or conserve natural resources.

[11] The Corporate Average Fuel Economy standards are regulations in the United States, first enacted by Congress in 1975, to improve the average fuel economy of cars and light trucks. The U.S Department of Transportation has delegated the National Highway Traffic Safety Administration as the regulatory agency for the Corporate Average Fuel Economy standards.

[12] United States Environmental Protection Agency, EPA and NHTSA Set Standards to Reduce Greenhouse Gases and Improve Fuel Economy for Model Years 2017-2025 Cars and Light Trucks, August 2012, https://nepis.epa.gov/Exe/ZyPDF.cgi/P100EZ7C.PDF?Dockey=P100EZ7C.PDF.

[13] National Highway Traffic Safety Administration (NHTSA) and U.S. Environmental Protection Agency (USEPA), 2018. Federal Register / Vol. 83, No. 165 / Friday, August 24, 2018 / Proposed Rules, The Safer Affordable Fuel-Efficient (SAFE) Vehicles Rule for Model Years 2021–2026 Passenger Cars and Light Trucks 2018. Available at: https://www.gpo.gov/fdsys/pkg/FR-2018-08-24/pdf/2018-16820.pdf.

[CAAQS]), compiles emission inventories, develops suggested control measures, and provides oversight of local programs. CARB establishes emissions standards for motor vehicles sold in California, consumer products (such as hairspray, aerosol paints, and barbecue lighter fluid), and various types of commercial equipment. It also sets fuel specifications to further reduce vehicular emissions.

In 2004, the California Air Resources Board (CARB) adopted an Airborne Toxic Control Measure to limit heavy-duty diesel motor vehicle idling in order to reduce public exposure to diesel particulate matter and other toxic air contaminants (Title 13 California Code of Regulations [CCR], Section 2485). The measure applies to diesel-fueled commercial vehicles with gross vehicle weight ratings greater than 10,000 pounds that are licensed to operate on highways, regardless of where they are registered. This measure generally does not allow diesel-fueled commercial vehicles to idle for more than 5 minutes at any given location with certain exemptions for equipment in which idling is a necessary function such as concrete trucks. While this measure primarily targets diesel particulate matter emissions, it has co-benefits of minimizing GHG emissions from unnecessary truck idling.

In 2008, CARB approved the Truck and Bus regulation to reduce particulate matter and nitrogen oxide emissions from existing diesel vehicles operating in California (13 CCR, Section 2025, subsection (h)). CARB has also promulgated emission standards for off-road diesel construction equipment of greater than 25 horsepower such as bulldozers, loaders, backhoes and forklifts, as well as many other self-propelled off-road diesel vehicles. The regulation, adopted by the CARB on July 26, 2007, aims to reduce emissions by installation of diesel soot filters and encouraging the retirement, replacement, or repower of older, dirtier engines with newer emission controlled models. Refer to Section IV.B, *Air Quality*, of this Draft EIR for additional details regarding these regulations. While these regulations primarily target reductions in criteria air pollutant emission, they have co-benefits of minimizing GHG emissions due to improved engine efficiencies.

The State currently has no regulations that establish ambient air quality standards for GHGs. However, the State has passed laws directing CARB to develop actions to reduce GHG emissions, which are listed below.

*Assembly Bill 1493*

California Assembly Bill 1493 enacted on July 22, 2002, required the CARB to develop and adopt regulations that reduce GHGs emitted by passenger vehicles and light duty trucks. In 2005, the CARB submitted a "waiver" request to the EPA from a portion of the federal Clean Air Act in order to allow the State to set more stringent tailpipe emission standards for $CO_2$ and other GHG emissions from passenger vehicles and light duty trucks. On December 19, 2007 the EPA announced that it denied the "waiver" request. On January 21, 2009, CARB submitted a letter to the EPA administrator regarding the State's request to reconsider the waiver denial. The EPA approved the waiver on June 30, 2009.

*Executive Order S-3-05*

The California Governor issued Executive Order S-3-05, GHG Emission, in June 2005, which established the following reduction targets:

- By 2010, California shall reduce GHG emissions to 2000 levels;
- By 2020, California shall reduce GHG emissions to 1990 levels; and
- By 2050, California shall reduce GHG emissions to 80 percent below 1990 levels.

The Executive Order directed the secretary of the California Environmental Protection Agency (CalEPA) to coordinate a multi-agency effort to reduce GHG emissions to the target levels. To comply with the Executive Order, the secretary of CalEPA created the California Climate Action Team (CAT), made up of members from various state agencies and commissions. The team released its first report in March 2006. The report proposed to achieve the targets by building on the voluntary actions of businesses, local governments, and communities and through State incentive and regulatory programs.

*Assembly Bill 32 (California Health and Safety Code, Division 25.5 – California Global Warming Solutions Act of 2006)*

In 2006, the California State Legislature adopted Assembly Bill (AB) 32 (codified in the California Health and Safety Code [HSC], Division 25.5 – California Global Warming Solutions Act of 2006), which focuses on reducing GHG emissions in California to 1990 levels by 2020. HSC Division 25.5 defines GHGs as CO2, CH4, N2O, HFCs, PFCs, and SF6 and represents the first enforceable statewide program to limit emissions of these GHGs from all major industries with penalties for noncompliance. The law further requires that reduction measures be technologically feasible and cost effective. Under HSC Division 25.5, CARB has the primary responsibility for reducing GHG emissions. CARB is required to adopt rules and regulations directing state actions that would achieve GHG emissions reductions equivalent to 1990 statewide levels by 2020.

*Senate Bill 32 and Assembly Bill 197*

In 2016, the California State Legislature adopted Senate Bill (SB) 32 and its companion bill AB 197, and both were signed by Governor Brown. SB 32 and AB 197 amends HSC Division 25.5 and establishes a new climate pollution reduction target of 40 percent below 1990 levels by 2030 and includes provisions to ensure the benefits of state climate policies reach into disadvantaged communities.

*Climate Change Scoping Plan (2008)*

A specific requirement of AB 32 was to prepare a Climate Change Scoping Plan for achieving the maximum technologically feasible and cost-effective GHG emission reduction by 2020 (Health and Safety Code section 38561 (h)). CARB developed an AB 32 Scoping Plan that contains strategies to achieve the 2020 emissions cap. The initial Scoping Plan was approved in 2008, and contains a mix of recommended strategies that combined direct regulations, market-based approaches, voluntary measures, policies, and other emission reduction programs calculated to meet the 2020 statewide GHG emission limit and initiate the transformations needed to achieve the State's long-range climate objectives.

As required by HSC Division 25.5, CARB approved the 1990 GHG emissions inventory, thereby establishing the emissions limit for 2020. The 2020 emissions limit was originally set at 427 MMTCO2e using the GWP values from the IPCC SAR. CARB also projected the state's 2020 GHG emissions under no-action-taken (NAT) conditions – that is, emissions that would occur without any plans, policies, or regulations to reduce GHG emissions. CARB originally used an average of the state's GHG emissions from 2002 through 2004 and projected the 2020 levels at approximately 596 MMTCO2e (using GWP values from the IPCC SAR). Therefore, under the original projections, the state must reduce its 2020 NAT emissions by 28.4 percent in order to meet the 1990 target of 427 MMTCO2e.

*First Update to the Climate Change Scoping Plan (2014)*

The First Update to the Scoping Plan was approved by CARB in May 2014 and builds upon the initial Scoping Plan with new strategies and recommendations. In 2014, CARB revised the target using the GWP values from the IPCC AR4 and determined that the 1990 GHG emissions inventory and 2020 GHG emissions limit is 431 MMTCO2e. CARB also updated the State's 2020 NAT emissions estimate to account for the effect of the 2007–2009 economic recession, new estimates for future fuel and energy demand, and the reductions required by regulation that were recently adopted for motor vehicles and renewable energy. CARB's projected statewide 2020 emissions estimate using the GWP values from the IPCC AR4 is 509.4 MMTCO2e.

*2017 Climate Change Scoping Plan*

In response to the 2030 GHG reduction target, CARB adopted the 2017 Climate Change Scoping Plan at a public meeting held in December 2017. The 2017 Scoping Plan outlines the strategies the State will implement

to achieve the 2030 GHG reduction target of 40 percent below 1990 levels. The 2017 Scoping Plan also addresses GHG emissions from natural and working lands of California, including the agriculture and forestry sectors. The 2017 Scoping Plan considered the Scoping Plan Scenario and four alternatives for achieving the required GHG reductions but ultimately selected the Scoping Plan Scenario.

CARB states that the Scoping Plan Scenario "is the best choice to achieve the State's climate and clean air goals."[14] Under the Scoping Plan Scenario, the majority of the reductions would result from the continuation of the Cap-and-Trade regulation. Additional reductions are achieved from electricity sector standards (i.e., utility providers to supply at least 50 percent renewable electricity by 2030), doubling the energy efficiency savings at end uses, additional reductions from the LCFS, implementing the short-lived GHG strategy (e.g., hydrofluorocarbons), and implementing the mobile source strategy and sustainable freight action plan. The alternatives were designed to consider various combinations of these programs, as well as consideration of a carbon tax in the event the Cap-and-Trade regulation is not continued. However, in July 2017, the California Legislature voted to extend the Cap-and-Trade regulation to 2030. Implementing this Scoping Plan will ensure that California's climate actions continue to promote innovation, drive the generation of new jobs, and achieve continued reductions of smog and air toxics. The ambitious approach draws on a decade of successful programs that address the major sources of climate-changing gases in every sector of the economy:

- More Clean Cars and Trucks: The plan sets out far-reaching programs to incentivize the sale of millions of zero-emission vehicles, drive the deployment of zero-emission trucks, and shift to a cleaner system of handling freight statewide.
- Increased Renewable Energy: California's electric utilities are ahead of schedule meeting the requirement that 33 percent of electricity come from renewable sources by 2020. The Scoping Plan guides utilities to 50 percent renewables, as required under SB 350.
- Slashing Super-Pollutants: The plan calls for a significant cut in super-pollutants such as methane and HFC refrigerants, which are responsible for as much as 40 percent of global warming.
- Cleaner Industry and Electricity: California's renewed cap-and-trade program extends the declining cap on emissions from utilities and industries and the carbon allowance auctions. The auctions will continue to fund investments in clean energy and efficiency, particularly in disadvantaged communities.
- Cleaner Fuels: The Low Carbon Fuel Standard will drive further development of cleaner, renewable transportation fuels to replace fossil fuels.
- Smart Community Planning: Local communities will continue developing plans which will further link transportation and housing policies to create sustainable communities.
- Improved Agriculture and Forests: The Scoping Plan also outlines innovative programs to account for and reduce emissions from agriculture, as well as forests and other natural lands.

The 2017 Scoping Plan also evaluates reductions of smog-causing pollutants through California's climate programs.

*SB 32, Pavley. California Global Warming Solutions Act of 2006*

(1) The California Global Warming Solutions Act of 2006 designates the State Air Resources Board as the state agency charged with monitoring and regulating sources of emissions of greenhouse gases. The state board is required to approve a statewide greenhouse gas emissions limit equivalent to the statewide greenhouse gas emissions level in 1990 to be achieved by 2020 and to adopt rules and regulations in an open public process to achieve the maximum, technologically feasible, and cost-effective greenhouse gas emissions reductions. This bill would require the state board to ensure that statewide greenhouse gas emissions are reduced to 40% below the 1990 level by 2030.
(2) This bill would become operative only if AB 197 of the 2015–16 Regular Session is enacted and becomes effective on or before January 1, 2017. AB 197 requires that the California Air Resources Board, which

[14] California Air Resources Board, California's 2017 Climate Change Scoping Plan, November 2017, https://www.arb.ca.gov/cc/scopingplan/scoping_plan_2017.pdf

directs implementation of emission-reduction programs, should target direct reductions at both stationary and mobile sources. AB 197 of the 2015-2016 Regular Session was approved on September 8, 2016.

*Executive Order S-1-07*

Executive Order S-1-07 was issued in 2007 and proclaims that the transportation sector is the main source of GHG emissions in the State, since it generates more than 40 percent of the State's GHG emissions. It establishes a goal to reduce the carbon intensity of transportation fuels sold in the State by at least ten percent by 2020. This Order also directs the CARB to determine whether this Low Carbon Fuel Standard (LCFS) could be adopted as a discrete early-action measure as part of the effort to meet the mandates in AB 32.

On April 23, 2009, the CARB approved the proposed regulation to implement the low carbon fuel standard. The low carbon fuel standard is anticipated to reduce GHG emissions by about 16 MMT per year by 2020. The low carbon fuel standard is designed to provide a framework that uses market mechanisms to spur the steady introduction of lower carbon fuels. The framework establishes performance standards that fuel producers and importers must meet each year beginning in 2011. Separate standards are established for gasoline and diesel fuels and the alternative fuels that can replace each. The standards are "back-loaded", with more reductions required in the last five years, than during the first five years. This schedule allows for the development of advanced fuels that are lower in carbon than today's fuels and the market penetration of plug-in hybrid electric vehicles, battery electric vehicles, fuel cell vehicles, and flexible fuel vehicles. It is anticipated that compliance with the low carbon fuel standard will be based on a combination of both lower carbon fuels and more efficient vehicles.

Reformulated gasoline mixed with corn-derived ethanol at ten percent by volume and low sulfur diesel fuel represent the baseline fuels. Lower carbon fuels may be ethanol, biodiesel, renewable diesel, or blends of these fuels with gasoline or diesel as appropriate. Compressed natural gas and liquefied natural gas also may be low carbon fuels. Hydrogen and electricity, when used in fuel cells or electric vehicles are also considered as low carbon fuels for the low carbon fuel standard.

*Senate Bill 97*

Senate Bill 97 (SB 97) was adopted August 2007 and acknowledges that climate change is a prominent environmental issue that requires analysis under CEQA. SB 97 directed the Governor's Office of Planning and Research (OPR), which is part of the State Natural Resources Agency, to prepare, develop, and transmit to the CARB guidelines for the feasible mitigation of GHG emissions or the effects of GHG emissions, as required by CEQA, by July 1, 2009. The Natural Resources Agency was required to certify and adopt those guidelines by January 1, 2010.

Pursuant to the requirements of SB 97 as stated above, on December 30, 2009, the Natural Resources Agency adopted amendments to the state CEQA guidelines that address GHG emissions. The CEQA Guidelines Amendments changed 14 sections of the CEQA Guidelines and incorporate GHG language throughout the Guidelines. However, no GHG emissions thresholds of significance were provided and no specific mitigation measures were identified. The GHG emission reduction amendments went into effect on March 18, 2010, and are summarized below:

- Climate action plans and other greenhouse gas reduction plans can be used to determine whether a project has significant impacts, based upon its compliance with the plan.
- Local governments are encouraged to quantify the greenhouse gas emissions of proposed projects, noting that they have the freedom to select the models and methodologies that best meet their needs and circumstances. The section also recommends consideration of several qualitative factors that may be used in the determination of significance, such as the extent to which the given project complies with state, regional, or local GHG reduction plans and policies. OPR does not set or dictate specific thresholds of

significance. Consistent with existing CEQA Guidelines, OPR encourages local governments to develop and publish their own thresholds of significance for GHG impacts assessment.

- When creating their own thresholds of significance, local governments may consider the thresholds of significance adopted or recommended by other public agencies or recommended by experts.
- New amendments include guidelines for determining methods to mitigate the effects of greenhouse gas emissions in Appendix F of the CEQA Guidelines.
- OPR is clear to state that "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".
- OPR's emphasizes the advantages of analyzing GHG impacts on an institutional, programmatic level. OPR therefore approves tiering of environmental analyses and highlights some benefits of such an approach.
- Environmental impact reports (EIRs) must specifically consider a project's energy use and energy efficiency potential.

*Senate Bill 100*

Senate Bill 100 (SB 100) requires 100 percent of total retail sales of electricity in California to come from eligible renewable energy resources and zero-carbon resources by December 31, 2045. SB 100 was adopted September 2018.

The interim thresholds from prior Senate Bills and Executive Orders would also remain in effect. These include Senate Bill 1078 (SB 1078), which requires retail sellers of electricity, including investor-owned utilities and community choice aggregators, to provide at least 20 percent of their supply from renewable sources by 2017. Senate Bill 107 (SB 107) which changed the target date to 2010. Executive Order S-14-08, which was signed on November 2008 and expanded the State's Renewable Energy Standard to 33 percent renewable energy by 2020. Executive Order S-21-09 directed the CARB to adopt regulations by July 31, 2010 to enforce S-14-08. Senate Bill X1-2 codifies the 33 percent renewable energy requirement by 2020.

*Senate Bill 375*

Senate Bill 375 (SB 375) was adopted September 2008 and aligns regional transportation planning efforts, regional GHG emission reduction targets, and land use and housing allocation. SB 375 requires Metropolitan Planning Organizations (MPO) to adopt a sustainable communities strategy (SCS) or alternate planning strategy (APS) that will prescribe land use allocation in that MPOs Regional Transportation Plan (RTP). The CARB, in consultation with each MPO, will provide each affected region with reduction targets for GHGs emitted by passenger cars and light trucks in the region for the years 2020 and 2035. These reduction targets will be updated every eight years but can be updated every four years if advancements in emissions technologies affect the reduction strategies to achieve the targets. The CARB is also charged with reviewing each MPO's sustainable communities strategy or alternate planning strategy for consistency with its assigned targets.

The proposed project is located within the Southern California Association of Governments (SCAG) jurisdiction, which has authority to develop the SCS or APS. For the SCAG region, the targets set by the CARB are at eight percent below 2005 per capita GHG emissions levels by 2020 and 19 percent below 2005 per capita GHG emissions levels by 2035. These reduction targets became effective October 2018.

*Senate Bill X7-7*

Senate Bill X7-7 (SB X7-7), enacted on November 9, 2009, mandates water conservation targets and efficiency improvements for urban and agricultural water suppliers. SB X7-7 requires the Department of Water Resources (DWR) to develop a task force and technical panel to develop alternative best management practices for the water sector. In addition, SB X7-7 required the DWR to develop criteria for baseline uses for residential, commercial, and industrial uses for both indoor and landscaped area uses. The DWR was also required to develop targets and regulations that achieve a statewide 20 percent reduction in water usage.

*Assembly Bill 939 and Senate Bill 1374*

Assembly Bill 939 (AB 939) requires that each jurisdiction in California to divert at least 50 percent of its waste away from landfills, whether through waste reduction, recycling or other means. Senate Bill 1374 (SB 1374) requires the California Integrated Waste Management Board to adopt a model ordinance by March 1, 2004, suitable for adoption by any local agency to require 50 to 75 percent diversion of construction and demolition of waste materials from landfills.

*California Code of Regulations (CCR) Title 24, Part 6*

CCR Title 24, Part 6: California's Energy Efficiency Standards for Residential and Nonresidential Buildings (Title 24) were first established in 1978 in response to a legislative mandate to reduce California's energy consumption. The standards are updated periodically to allow consideration and possible incorporation of new energy efficiency technologies and methods. Although it was not originally intended to reduce GHG emissions, electricity production by fossil fuels results in GHG emissions and energy efficient buildings require less electricity. Therefore, increased energy efficiency results in decreased GHG emissions.

The Energy Commission adopted 2008 Standards on April 23, 2008, and Building Standards Commission approved them for publication on September 11, 2008. These updates became effective on August 1, 2009. CalEEMod modeling defaults to 2008 standards. 2013 Standards were approved and have been effective since July 1, 2014. 2016 Standards were adopted January 1, 2017. 2019 standards were published July 1, 2019 and became effective January 1, 2020. All buildings for which an application for a building permit is submitted on or after January 1, 2020 must follow the 2019 standards. The 2016 residential standards were estimated to be approximately 28 percent more efficient than the 2013 standards, whereas the 2019 residential standards are estimated to be approximately 7 percent more efficient than the 2016 standards. Furthermore, once rooftop solar electricity generation is factored in, 2019 residential standards are estimated to be approximately 53 percent more efficient than the 2016 standards. Under the 2019 standards, nonresidential buildings are estimated to be approximately 30 percent more efficient than the 2016 standards. Energy efficient buildings require less electricity; therefore, increased energy efficiency reduces fossil fuel consumption and decreases greenhouse gas emissions.

Per Section 100 Scope, the 2019 Title 24, Part 6 Building Code now requires healthcare facilities, such as assisted living facilities, hospitals, and nursing homes, to meet documentation requirements of Title 24, Part 1 Chapter 7 – Safety Standards for Health Facilities. A healthcare facility is defined as any building or portion thereof licensed pursuant to California Health and Safety Code Division 2, Chapter 1, Section 1204 or Chapter 2, Section 1250.

Section 120.1 Ventilation and Indoor Air Quality included both additions and revisions in the 2019 Code. This section now requires nonresidential and hotel/motel buildings to have air filtration systems that use forced air ducts to supply air to occupiable spaces to have air filters. Further, the air filter efficiency must be either MERV 13 or use a particle size efficiency rating specific in the Energy Code AND be equipped with air filters with a minimum 2-inch depth or minimum 1-inch depth if sized according to the equation 120.1-A. If natural ventilation is to be used the space must also use mechanical unless ventilation openings are either permanently open or controlled to stay open during occupied times. The 2019 version of the Code also completely revised the minimum ventilation requirements including DVC airflow rates within Section 120.1 Table 120.1–A. Table 120.1-A now includes air classification and recirculation limitations, these are based on either the number of occupants or the CFM/$ft^2$ (cubic feet per minute per square foot), whichever is greater.

Section 120.1 Ventilation and Indoor Air Quality also included additions for high-rise residential buildings. Requirements include that mechanical systems must provide air filters that and that air filters must be MERV 13 or use a particle size efficiency rating specified in the Energy Code. Window operation is no longer a method allowed to meet ventilation requirements, continuous operation of central forced air system handlers used in central fan integrated ventilation system is not a permissible method of providing the dwelling unit ventilation airflow, and central ventilation systems that serve multiple dwelling units must be balanced to

provide ventilation airflow to each dwelling unit. In addition, requirements for kitchen range hoods were also provided in the updated Section 120.1.

Per Section 120.1(a) healthcare facilities must be ventilated in accordance with Chapter 4 of the California Mechanical Code and are NOT required to meet the ventilations requirements of Title 24, Part 6.

Section 140.4 Space Conditioning Systems included both additions and revisions within the 2019 Code. The changes provided new requirements for cooling tower efficiency, new chilled water cooling system requirements, as well as new formulas for calculating allowed fan power. Section 140.4(n) also provide a new exception for mechanical system shut-offs for high-rise multifamily dwelling units, while Section 140.4(o) added new requirements for conditioned supply air being delivered to space with mechanical exhaust.

Section 120.6 Covered Processes added information in regards to adiabatic chiller requirements that included that all condenser fans for air-cooled converseness, evaporative-cooled condensers, adiabatic condensers, gas coolers, air or water fluid coolers or cooling towers must be continuously variable speed, with the speed of all fans serving a common condenser high side controlled in unison .Further, the mid-condensing setpoint must be 70 degrees Fahrenheit for all of the above mentioned systems.

New regulations were also adopted under Section 130.1 Indoor Lighting Controls. These included new exceptions being added for restrooms, the exception for classrooms being removed, as well as exceptions in regard to sunlight provided through skylights and overhangs.

Section 130.2 Outdoor Lighting Controls and Equipment added automatic scheduling controls which included that outdoor lighting power must be reduced by 50 to 90 percent, turn the lighting off during unoccupied times and have at least two scheduling options for each luminaire independent from each other and with a 2-hour override function. Furthermore, motion sensing controls must have the ability to reduce power within 15 minutes of area being vacant and be able to come back on again when occupied. An exception allows for lighting subject to a health or life safety statute, ordinance, or regulation may have a minimum time-out period longer than 15 minutes or a minimum dimming level above 50% when necessary to comply with the applicable law.

*California Code of Regulations (CCR) Title 24, Part 11 (California Green Building Standards)*

On January 12, 2010, the State Building Standards Commission unanimously adopted updates to the California Green Building Standards Code, which went into effect on January 1, 2011.

2016 CALGreen Code: The 2016 residential standards are estimated to be approximately 28 percent more efficient than the 2013 standards. Energy efficient buildings require less electricity; therefore, increased energy efficiency reduces fossil fuel consumption and decreases greenhouse gas emissions. During the 2016-2017 fiscal year, the Department of Housing and Community Development (HCD) updated CALGreen through the 2015 Triennial Code Adoption Cycle.

HCD also increased the required construction waste reduction from 50 percent to 65 percent of the total building site waste. This increase aids in meeting CalRecycle's statewide solid waste recycling goal of 75 percent for 2020 as stated in Chapter 476, Statutes of 2011 (AB 341). HCD adopted new regulations requiring recycling areas for multifamily projects of five or more dwelling units. This regulation requires developers to provide readily accessible areas adequate in size to accommodate containers for depositing, storage and collection of non-hazardous materials (including organic waste) for recycling. This requirement assists businesses that were required as of April 1, 2016, to meet the requirements of Chapter 727, Statutes of 2014 (AB 1826).

HCD adopted new regulations to require information on photovoltaic systems and electric vehicle chargers to be included in operation and maintenance manuals. Currently, CALGreen section 4.410.1 Item 2(a) requires operation and maintenance instructions for equipment and appliances. Photovoltaic systems and electric

vehicle chargers are systems that play an important role in many households in California, and their importance is increasing every day. HCD incorporated these two terms in the existing language in order to provide clarity to code users as to additional systems requiring operation and maintenance instructions.

HCD updated the reference to Clean Air Standards of the United States Environmental Protection Agency applicable to woodstoves and pellet stoves. HCD also adopted a new requirement for woodstoves and pellet stoves to have a permanent label indicating they are certified to meet the emission limits. This requirement provides clarity to the code user and is consistent with the United States Environmental Protection Agency's New Source Performance Standards. HCD updated the list of standards which can be used for verification of compliance for exterior grade composite wood products. This list now includes four standards from the Canadian Standards Association (CSA): CSA O121, CSA O151, CSA O153 and CSA O325. HCD updated heating and air-conditioning system design references to the ANSI/ACCA 2 Manual J, ANSI/ACCA 1 Manual D, and ANSI/ACCA 3 Manual S to the most recent versions approved by ANSI. HCD adopted a new elective measure for hot water recirculation systems for water conservation. The United States Department of Energy estimates that 3,600 to 12,000 gallons of water per year can be saved by the typical household (with four points of hot water use) if a hot water recirculation system is installed.

2019 CALGreen Code: During the 2019-2020 fiscal year, the Department of Housing and Community Development (HCD) updated CALGreen through the 2019 Triennial Code Adoption Cycle.

HCD modified the best management practices for stormwater pollution prevention adding Section 5.106.2 for projects that disturb one or more acres of land. This section requires projects that disturb one acre or more of land or less than one acre of land but are part of a larger common plan of development or sale must comply with the postconstruction requirement detailed in the applicable National Pollutant Discharge Elimination System (NPDES) General Permit for Stormwater Discharges Associated with Construction and Land Disturbance Activities issued by the State Water Resources Control Board. The NPDES permits require postconstruction runoff (post-project hydrology) to match the preconstruction runoff pre-project hydrology) with installation of postconstruction stormwater management measures.

HCD added sections 5.106.4.1.3 and 5.106.4.1.5 in regard to bicycle parking. Section 5.106.4.1.3 requires new buildings with tenant spaces that have 10 or more tenant-occupants, provide secure bicycle parking for 5 percent of the tenant-occupant vehicular parking spaces with a minimum of one bicycle parking facility. In addition, Section 5.106.4.1.5 states that acceptable bicycle parking facility for Sections 5.106.4.1.2 through 5.106.4.1.4 shall be convenient from the street and shall meeting one of the following: (1) covered, lockable enclosures with permanently anchored racks for bicycles; (2) lockable bicycle rooms with permanently anchored racks; or (3) lockable, permanently anchored bicycle lockers.

HCD amended section 5.106.5.3.5 allowing future charging spaces to qualify as designated parking for clean air vehicles.

HCD updated section 5.303.3.3 in regard to showerhead flow rates. This update reduced the flow rate to 1.8 GPM.

HCD amended section 5.304.1 for outdoor potable water use in landscape areas and repealed sections 5.304.2 and 5.304.3. The update requires nonresidential developments to comply with a local water efficient landscape ordinance or the current California Department of Water Resource's' Model Water Efficient Landscape Ordinance (MWELO), whichever is more stringent. Some updates were also made in regard to the outdoor potable water use in landscape areas for public schools and community colleges.

HCD updated Section 5.504.5.3 in regard to the use of MERV filters in mechanically ventilated buildings. This update changed the filter use from MERV 8 to MERV 13. MERV 13 filters are to be installed prior to occupancy, and recommendations for maintenance with filters of the same value shall be included in the operation and maintenance manual.

*Executive Order B-30-15*

On April 29, 2015, Governor Brown issued Executive Order B-30-15. Therein, the Governor directed the following:

- Established a new interim statewide reduction target to reduce GHG emissions to 40 percent below 1990 levels by 2030.
- Ordered all state agencies with jurisdiction over sources of GHG emissions to implement measures to achieve reductions of GHG emissions to meet the 2030 and 2050 reduction targets.
- Directed CARB to update the Climate Change Scoping Plan to express the 2030 target in terms of million metric tons of carbon dioxide equivalent.

*Executive Order B-29-15*

Executive Order B-29-15, mandates a statewide 25 percent reduction in potable water usage. EO B-29-15 signed into law on April 1, 2015.

*Executive Order B-37-16*

Executive Order B-37-16, continuing the State's adopted water reductions, was signed into law on May 9, 2016. The water reductions build off the mandatory 25 percent reduction called for in EO B-29-15.

*SBX1 2*

Signed into law in April 2011, SBX1 2, requires one-third of the State's electricity to come from renewable sources. The legislation increases California's current 20 percent renewables portfolio standard target in 2010 to a 33 percent renewables portfolio standard by December 31, 2020.

*Senate Bill 350*

Signed into law October 7, 2015, SB 350 increases California's renewable electricity procurement goal from 33 percent by 2020 to 50 percent by 2030. This will increase the use of Renewables Portfolio Standard (RPS) eligible resources, including solar, wind, biomass, geothermal, and others. In addition, SB 350 requires the state to double statewide energy efficiency savings in electricity and natural gas end uses by 2030. To help ensure these goals are met and the greenhouse gas emission reductions are realized, large utilities will be required to develop and submit Integrated Resource Plans (IRPs). These IRPs will detail how each entity will meet their customers resource needs, reduce greenhouse gas emissions and ramp up the deployment of clean energy resources.

*Energy Sector and CEQA Guidelines Appendix F*

The CEC first adopted Energy Efficiency Standards for Residential and Nonresidential Buildings (CCR, Title 24, Part 6) in 1978 in response to a legislative mandate to reduce energy consumption in the state. Although not originally intended to reduce GHG emissions, increased energy efficiency and reduced consumption of electricity, natural gas, and other fuels would result in fewer GHG emissions from residential and nonresidential buildings subject to the standard. The standards are updated periodically (typically every three years) to allow for the consideration and inclusion of new energy efficiency technologies and methods. The 2016 update to the Energy Efficiency Standards for Residential and Nonresidential Buildings focuses on several key areas to improve the energy efficiency of renovations and addition to existing buildings as well as newly constructed buildings and renovations and additions to existing buildings. The major efficiency improvements to the residential Standards involve improvements for attics, walls, water heating, and lighting, whereas the major efficiency improvements to the nonresidential Standards include alignment with the American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) 90.1-2013 national

standards. Furthermore, the 2016 update requires that enforcement agencies determine compliance with CCR, Title 24, Part 6 before issuing building permits for any construction.[15]

Part 11 of the Title 24 Building Energy Efficiency Standards is referred to as the California Green Building Standards (CALGreen) Code. The purpose of the CALGreen Code is to "improve public health, safety and general welfare by enhancing the design and construction of buildings through the use of building concepts having a reduced negative impact or positive environmental impact and encouraging sustainable construction practices in the following categories: (1) Planning and design; (2) Energy efficiency; (3) Water efficiency and conservation; (4) Material conservation and resource efficiency; and (5) Environmental air quality."16 As of January 1, 2011, the CALGreen Code is mandatory for all new buildings constructed in the state. The CALGreen Code establishes mandatory measures for new residential and non-residential buildings. Such mandatory measures include energy efficiency, water conservation, material conservation, planning and design, and overall environmental quality. The CALGreen Code was most recently updated in 2019 to include new mandatory measures for residential and nonresidential uses; the new measures took effect on January 1, 2020.

**Regional – South Coast Air Quality Management District**

The project is within the South Coast Air Basin, which is under the jurisdiction of the South Coast Air Quality Management District (SCAQMD).

*SCAQMD Regulation XXVII, Climate Change*

SCAQMD Regulation XXVII currently includes three rules:

- The purpose of Rule 2700 is to define terms and post global warming potentials.
- The purpose of Rule 2701, SoCal Climate Solutions Exchange, is to establish a voluntary program to encourage, quantify, and certify voluntary, high quality certified greenhouse gas emission reductions in the SCAQMD.
- Rule 2702, Greenhouse Gas Reduction Program, was adopted on February 6, 2009. The purpose of this rule is to create a Greenhouse Gas Reduction Program for greenhouse gas emission reductions in the SCAQMD. The SCAQMD will fund projects through contracts in response to requests for proposals or purchase reductions from other parties.

A variety of agencies have developed greenhouse gas emission thresholds and/or have made recommendations for how to identify a threshold. However, the thresholds for projects in the jurisdiction of the SCAQMD remain in flux. The California Air Pollution Control Officers Association explored a variety of threshold approaches but did not recommend one approach (2008). The ARB recommended approaches for setting interim significance thresholds (California Air Resources Board 2008b), in which a draft industrial project threshold suggests that non-transportation related emissions under 7,000 MTCO2e per year would be less than significant; however, the ARB has not approved those thresholds and has not published anything since then. The SCAQMD is in the process of developing thresholds, as discussed below.

*SCAQMD Threshold Development*

On December 5, 2008, the SCAQMD Governing Board adopted an interim greenhouse gas significance threshold for stationary sources, rules, and plans where the SCAQMD is lead agency (SCAQMD permit threshold). The SCAQMD permit threshold consists of five tiers. However, the SCAQMD is not the lead agency for this project. Therefore, the five permit threshold tiers do not apply to the proposed project.

[15] California Energy Commission, 2016 Building Energy Efficiency Standards, June 2015, http://www.energy.ca.gov/2015publications/CEC-400-2015-037/CEC-400-2015-037-CMF.pdf

[16] California Building Standards Commission, 2010 California Green Building Standards Code, (2010).

The SCAQMD is in the process of preparing recommended significance thresholds for greenhouse gases for local lead agency consideration ("SCAQMD draft local agency threshold"); however, the SCAQMD Board has not approved the thresholds as of the date of the Notice of Preparation. The current draft thresholds consist of the following tiered approach:

- Tier 1 consists of evaluating whether or not the project qualifies for any applicable exemption under CEQA.
- Tier 2 consists of determining whether the project is consistent with a greenhouse gas reduction plan. If a project is consistent with a qualifying local greenhouse gas reduction plan, it does not have significant greenhouse gas emissions.
- Tier 3 consists of screening values, which the lead agency can choose, but must be consistent with all projects within its jurisdiction. A project's construction emissions are averaged over 30 years and are added to a project's operational emissions. If a project's emissions are under one of the following screening thresholds, then the project is less than significant:
  - All land use types: 3,000 MTCO2e per year
  - Based on land use type: residential: 3,500 MTCO2e per year; commercial: 1,400 MTCO2e per year; or mixed use: 3,000 MTCO2e per year.
  - Based on land type: Industrial (where SCAQMD is the lead agency), 10,000 MTCO2e per year.
- Tier 4 has the following options:
  - Option 1: Reduce emissions from business as usual (BAU) by a certain percentage; this percentage is currently undefined.
  - Option 2: Early implementation of applicable AB 32 Scoping Plan measures.
  - Option 3, 2020 target for service populations (SP), which includes residents and employees: 4.8 MTCO2e/SP/year for projects and 6.6 MTCO2e/SP/year for plans;
  - Option 3, 2035 target: 3.0 MTCO2e/SP/year for projects and 4.1 MTCO2e/SP/year for plans.
- Tier 5 involves mitigation offsets to achieve target significance threshold.

The SCAQMD's draft threshold uses the Executive Order S-3-05 goal as the basis for the Tier 3 screening level. Achieving the Executive Order's objective would contribute to worldwide efforts to cap carbon dioxide concentrations at 450 ppm, thus stabilizing global climate. Specifically, the Tier 3 screening level for stationary sources is based on an emission capture rate of 90 percent for all new or modified projects. A 90 percent emission capture rate means that 90 percent of total emissions from all new or modified stationary source projects would be subject to a CEQA analysis, including a negative declaration, a mitigated negative declaration, or an environmental impact report, which includes analyzing feasible alternatives and imposing feasible mitigation measures. A GHG significance threshold based on a 90 percent emission capture rate may be more appropriate to address the long-term adverse impacts associated with global climate change because most projects will be required to implement GHG reduction measures. Further, a 90 percent emission capture rate sets the emission threshold low enough to capture a substantial fraction of future stationary source projects that will be constructed to accommodate future statewide population and economic growth, while setting the emission threshold high enough to exclude small projects that will in aggregate contribute a relatively small fraction of the cumulative statewide GHG emissions. This assertion is based on the fact that staff estimates that these GHG emissions would account for slightly less than one percent of future 2050 statewide GHG emissions target (85 MMTCO2eq/year). In addition, these small projects may be subject to future applicable GHG control regulations that would further reduce their overall future contribution to the statewide GHG inventory. Finally, these small sources are already subject to BACT for criteria pollutants and are more likely to be single-permit facilities, so they are more likely to have few opportunities readily available to reduce GHG emissions from other parts of their facility.

*SCAQMD Working Group*

Since neither the CARB nor the OPR has developed GHG emissions threshold, the SCAQMD formed a Working Group to develop significance thresholds related to GHG emissions. At the September 28, 2010 Working Group meeting, the SCAQMD released its most current version of the draft GHG emissions

thresholds, which recommends a tiered approach that provides a quantitative annual threshold of 10,000 MTCO2e for industrial uses.

**Local – City of Torrance**

In December 2017, the City of Torrance adopted the City of Torrance Climate Action Plan (CAP). The Climate Action Plan is a guide which sets greenhouse gas emission reduction goals and establishes strategies to achieve these outcomes. The strategies included in the CAP are voluntary, however the City has committed to the targets outlined in the CAP. The CAP identifies community-wide strategies to lower GHG emissions from a range of sources within the jurisdiction, including transportation, land use, energy generation and consumption, water, and waste. The CAP reduction targets are consistent with California's AB 32 goals and will help the State meet its long-term goal of 80 percent below 1990 levels by 2050. The City's reduction targets include a 15 percent reduction from 2005 levels by 2020 and a 49 percent reduction from 2005 levels by 2035.

## SIGNIFICANCE THRESHOLDS

**Appendix G of State CEQA Guidelines**

The CEQA Guidelines recommend that a lead agency consider the following when assessing the significance of impacts from GHG emissions on the environment:

- The extent to which the project may increase (or reduce) GHG emissions as compared to the existing environmental setting;
- Whether the project emissions exceed a threshold of significance that the lead agency determines applies to the project;
- The extent to which the project complies with regulations or requirements adopted to implement an adopted statewide, regional, or local plan for the reduction or mitigation of GHG emissions.[17]

**Thresholds of Significance for this Project**

To determine whether the project's GHG emissions are significant, this analysis uses the SCAQMD draft tier 3 screening threshold of 3,000 MTCO2e per year for all land uses.

## METHODOLOGY

The proposed project is anticipated to generate GHG emissions from area sources, energy usage, mobile sources, waste, water, and construction equipment. The following provides the methodology used to calculate the project-related GHG emissions and the project impacts.

CalEEMod Version 2016.3.2 was used to calculate the GHG emissions from the proposed project. The CalEEMod Annual Output for year 2022 is available in Appendix C. Each source of GHG emissions is described in greater detail below.

*Area Sources*

Area sources include emissions from consumer products, landscape equipment and architectural coatings. No changes were made to the default area source emissions.

[17] The Governor's Office of Planning and Research recommendations include a requirement that such a plan must be adopted through a public review process and include specific requirements that reduce or mitigate the project's incremental contribution of GHG emissions. If there is substantial evidence that the possible effects of a particular project are still cumulatively considerable, notwithstanding compliance with the adopted regulations or requirements, an EIR must be prepared for the project.

*Energy Usage*

Energy usage includes emissions from the generation of electricity and natural gas used on-site. No changes were made to the default energy usage parameters.

*Mobile Sources*

Mobile sources include emissions from the additional vehicle miles generated from the proposed project. The vehicle trips associated with the proposed project have been analyzed by inputting the project-generated vehicular trips from the TIA into the CalEEMod Model. The program then applies the emission factors for each trip which is provided by the EMFAC2014 model to determine the vehicular traffic pollutant emissions. See Section 2 for details.

*Waste*

Waste includes the GHG emissions generated from the processing of waste from the proposed project as well as the GHG emissions from the waste once it is interred into a landfill. AB 341 requires that 75 percent of waste be diverted from landfills by 2020, reductions for this are shown in the mitigated CalEEMod output values. No other changes were made to the default waste parameters.

*Water*

Water includes the water used for the interior of the building as well as for landscaping and is based on the GHG emissions associated with the energy used to transport and filter the water. CALGreen standards require that indoor water use be reduced by 20 percent, reductions for this are shown in the mitigated CalEEMod output values. The project is also required to use water-efficient irrigation. No other changes were made to the default water usage parameters.

*Construction*

The construction-related GHG emissions were also included in the analysis and were based on a 30 year amortization rate as recommended in the SCAQMD GHG Working Group meeting on November 19, 2009. The construction-related GHG emissions were calculated by CalEEMod and are detailed above.

## PROJECT GREENHOUSE GAS EMISSIONS

The GHG emissions have been calculated based on the parameters described above. A summary of the results are shown below in Table 22 and the CalEEMod Model run for the proposed project is provided in Appendix C. Table 22 shows that the total for the proposed project's emissions (without credit for any reductions from sustainable design and/or regulatory requirements) would be 4,273.32 MTCO2e per year. According to the thresholds of significance established above, a cumulative global climate change impact would occur if the GHG emissions created from the on-going operations of the proposed project would exceed the SCAQMD draft threshold of 3,000 $MTCO_2e$ per year for all land uses. Therefore, as the total emissions for the proposed project would exceed the SCAQMD draft screening threshold of 3,000 MTCO2e per year, emissions reductions are required (see Section 5, Emissions Reduction Measures for details).

The data provided in Table 23 shows that the proposed project's total emissions (compliance with regulation is shown as "mitigation" in the CalEEMod output) would be reduced to 2,910.85 $MTCO_2e$ per year. The reduction comes from incorporation of the following California Air Pollution Control Officers Association (CAPCOA)-based reduction measures and regulatory compliance: utilizing low-flow fixtures that would reduce indoor water demand by 20% per CALGreen Standards, recycling programs that reduces waste to landfills by a minimum of 75 percent (per AB 341), utilizing Energy Star appliances and high-efficiency lighting (at least 34 percent more efficient than standard), utilizing water-efficient irrigation systems; and incorporation of the

CAPCOA-based land use and site enhancement reduction measures: LUT-1 Increased Density, LUT-4 Improve Destination Accessibility, LUT-5 Increase Transit Accessibility, and SDT-1 Improve Pedestrian Network (see CalEEMod Annual Output in Appendix C for details).

With incorporation of regulatory compliance and credit for reductions due to CAPCOA location-based efficiency measures, as shown in Table 23, the proposed project would no longer exceed the SCAQMD draft screening threshold of 3,000 MTCO2e per year for all land uses and operation of the proposed project would not create a significant cumulative impact to global climate change.

## Table 22
## Project-Related Greenhouse Gas Emissions

| Category | Greenhouse Gas Emissions (Metric Tons/Year) | | | | | |
|---|---|---|---|---|---|---|
| | Bio-CO2 | NonBio-$CO_2$ | $CO_2$ | $CH_4$ | $N_2O$ | $CO_2e$ |
| Area Sources[1] | 0.00 | 0.02 | 0.02 | 0.00 | 0.00 | 0.02 |
| Energy Usage[2] | 0.00 | 1,017.77 | 1,017.77 | 0.04 | 0.01 | 1,022.00 |
| Mobile Sources[3] | 0.00 | 2,644.88 | 2,644.88 | 0.13 | 0.00 | 2,648.03 |
| Waste[4] | 70.34 | 0.00 | 70.34 | 4.16 | 0.00 | 174.27 |
| Water[5] | 22.07 | 296.48 | 318.55 | 2.28 | 0.06 | 392.23 |
| Construction[6] | 0.00 | 36.64 | 36.64 | 0.00 | 0.00 | 36.76 |
| Total Emissions | 92.41 | 3,995.79 | 4,088.20 | 6.60 | 0.07 | 4,273.32 |
| SCAQMD Draft Screening Threshold | | | | | | 3,000 |
| **Exceeds Threshold?** | | | | | | **Yes** |

Notes:
Source: CalEEMod Version 2016.3.2 for Opening Year 2022.

(1) Area sources consist of GHG emissions from consumer products, architectural coatings, and landscape equipment.

(2) Energy usage consist of GHG emissions from electricity and natural gas usage.

(3) Mobile sources consist of GHG emissions from vehicles.

(4) Solid waste includes the $CO_2$ and $CH_4$ emissions created from the solid waste placed in landfills.

(5) Water includes GHG emissions from electricity used for transport of water and processing of wastewater.

(6) Construction GHG emissions CO2e based on a 30 year amortization rate.

## Table 23
## Project-Related Greenhouse Gas Emissions With Incorporation of Sustainable Design/Regulation

| Category | Greenhouse Gas Emissions (Metric Tons/Year) | | | | | |
|---|---|---|---|---|---|---|
| | Bio-CO2 | NonBio-$CO_2$ | $CO_2$ | $CH_4$ | $N_2O$ | $CO_2e$ |
| Area Sources[1] | 0.00 | 0.02 | 0.02 | 0.00 | 0.00 | 0.02 |
| Energy Usage[2] | 0.00 | 908.75 | 908.75 | 0.03 | 0.01 | 912.59 |
| Mobile Sources[3] | 0.00 | 1,600.40 | 1,600.40 | 0.09 | 0.00 | 1,602.54 |
| Waste[4] | 17.59 | 0.00 | 17.59 | 1.04 | 0.00 | 43.57 |
| Water[5] | 17.66 | 238.75 | 256.41 | 1.82 | 0.04 | 315.36 |
| Construction[6] | 0.00 | 36.64 | 36.64 | 0.00 | 0.00 | 36.76 |
| Total Emissions | 35.24 | 2,784.56 | 2,819.80 | 2.99 | 0.06 | 2,910.85 |
| SCAQMD Draft Screening Threshold | | | | | | 3,000 |
| **Exceeds Threshold?** | | | | | | **No** |

Notes:

Source: CalEEMod Version 2016.3.2 for Opening Year 2022.

(1) Area sources consist of GHG emissions from consumer products, architectural coatings, and landscape equipment.

(2) Energy usage consist of GHG emissions from electricity and natural gas usage.

(3) Mobile sources consist of GHG emissions from vehicles.

(4) Solid waste includes the $CO_2$ and $CH_4$ emissions created from the solid waste placed in landfills.

(5) Water includes GHG emissions from electricity used for transport of water and processing of wastewater.

(6) Construction GHG emissions CO2e based on a 30 year amortization rate.

## CONSISTENCY WITH APPLICABLE GREENHOUSE GAS REDUCTION PLANS AND POLICIES

The proposed project could have the potential to conflict with any applicable plan, policy or regulation of an agency adopted for the purpose of reducing the emissions of greenhouse gases. As stated previously, the applicable plan for the proposed project is the City of Torrance Climate Action Plan. The City of Torrance has selected goals to reduce its community GHG emissions to a level that is 15 percent below its 2005 GHG emissions level by 2020 and 49 percent below its 2005 levels by 2035.

As stated previously, the SCAQMD's tier 3 thresholds used Executive Order S-3-05 goal as the basis for deriving the screening level. The California Governor issued Executive Order S-3-05, GHG Emission, in June 2005, which established the following reduction targets:

- 2010: Reduce greenhouse gas emissions to 2000 levels
- 2020: Reduce greenhouse gas emissions to 1990 levels
- 2050: Reduce greenhouse gas emissions to 80 percent below 1990 levels.

In 2006, the California State Legislature adopted AB 32, the California Global Warming Solutions Act of 2006. AB 32 requires CARB, to adopt rules and regulations that would achieve GHG emissions equivalent to statewide levels in 1990 by 2020 through an enforceable statewide emission cap which was phased in starting in 2012.

Therefore, as the project's emissions meet the threshold for compliance with Executive Order S-3-05, the project's emissions also comply with the goals of AB 32 and the City of Torrance Climate Action Plan. Additionally, as the project meets the current interim emissions targets/thresholds established by SCAQMD, the project would also be on track to meet the reduction target of 40 percent below 1990 levels by 2030 mandated by SB-32. Furthermore, the majority of the post 2020 reductions in GHG emissions are addressed via regulatory requirements at the State level and the project will be required to comply with these regulations as they come into effect.

With incorporation of sustainable design and regulation, at a level of 2,910.85 MTCO2e per year, the project's GHG emissions do not exceed the SCAQMD draft threshold of 3,000 $MTCO_2e$ per year and is in compliance with the goals of the City of Torrance Climate Action Plan, AB-32 and SB-32. Furthermore, the project will comply with applicable Green Building Standards and City of Torrance's policies regarding sustainability (as dictated by the City's General Plan). Impacts are considered to be less than significant.

## CUMULATIVE GREENHOUSE GAS IMPACTS

Although the project is expected to emit GHGs, the emission of GHGs by a single project into the atmosphere is not itself necessarily an adverse environmental effect. Rather, it is the increased accumulation of GHG from more than one project and many sources in the atmosphere that may result in global climate change. Therefore, in the case of global climate change, the proximity of the project to other GHG emission generating activities is not directly relevant to the determination of a cumulative impact because climate change is a global condition. According to CAPCOA, "GHG impacts are exclusively cumulative impacts; there are no non-cumulative GHG emission impacts from a climate change perspective."[18] The resultant consequences of that climate change can cause adverse environmental effects. A project's GHG emissions typically would be very small in comparison to state or global GHG emissions and, consequently, they would, in isolation, have no significant direct impact on climate change.

The state has mandated a goal of reducing statewide emissions to 1990 levels by 2020, even though statewide population and commerce are predicted to continue to expand. In order to achieve this goal, CARB is in the process of establishing and implementing regulations to reduce statewide GHG emissions. Consistent with CEQA Guidelines Section 15064h(3),[19] the City, as lead agency, has determined that the project's contribution to cumulative GHG emissions and global climate change would be less than significant if the project is consistent with the applicable regulatory plans and policies to reduce GHG emissions.

As discussed in the "Consistency With Applicable Greenhouse Gas Reduction Plans and Policies" section above, the project is consistent with the goals and objectives of the City of Torrance Climate Action Plan.

Thus, given the project's consistency with the SCAQMD's 3,000 MTCO2e per year draft threshold for all land uses, the project would not conflict with any applicable plan, policy, or regulation of an agency adopted for the purpose of reducing the emissions of GHGs. Given this consistency, it is concluded that the project's incremental contribution to greenhouse gas emissions and their effects on climate change would not be cumulatively considerable.

[18] Source: California Air Pollution Control Officers Association, CEQA & Climate change: Evaluating and Addressing Greenhouse Gas Emissions from Projects Subject to the California Environmental Quality Act, (2008).

[19] The State CEQA Guidelines were amended in response to SB 97. In particular, the State CEQA Guidelines were amended to specify that compliance with a GHG emissions reduction program renders a cumulative impact insignificant. Per State CEQA Guidelines Section 15064(h)(3), a project's incremental contribution to a cumulative impact can be found not cumulatively considerable if the project will comply with an approved plan or mitigation program that provides specific requirements that will avoid or substantially lessen the cumulative problem within the geographic area of the project. To qualify, such a plan or program must be specified in law or adopted by the public agency with jurisdiction over the affected resources through a public review process to implement, interpret, or make specific the law enforced or administered by the public agency. Examples of such programs include a "water quality control plan, air quality attainment or maintenance plan, integrated waste management plan, habitat conservation plan, natural community conservation plan, [and] plans or regulations for the reduction of greenhouse gas emissions."

# 5. ENERGY ANALYSIS

## EXISTING CONDITIONS

This section provides an overview of the existing energy conditions in the project area and region.

### Overview

California's estimated annual energy use as of 2018 included:

- Approximately 194,842 gigawatt hours of electricity;[20]
- Approximately 2,110,829 million cubic feet of natural gas per year;[21] and
- Approximately 23.2 billion gallons of transportation fuel (for the year 2015).[22]

As of 2016, the year of most recent data currently available by the United States Energy Information Administration (EIA), energy use in California by demand sector was:

- Approximately 39.8 percent transportation;
- Approximately 23.7 percent industrial;
- Approximately 17.7 percent residential; and
- Approximately 18.9 percent commercial.[23]

California's electricity in-state generation system generates approximately 194,842 gigawatt-hours each year. In 2018, California produced approximately 68 percent of the electricity it uses; the rest was imported from the Pacific Northwest (approximately 14 percent) and the U.S. Southwest (approximately 18 percent). Natural gas is the main source for electricity generation at approximately 46.54 percent of the total in-state electric generation system power as shown in Table 24.

A summary of and context for energy consumption and energy demands within the State is presented in "U.S. Energy Information Administration, California State Profile and Energy Estimates, Quick Facts" excerpted below:

- Excluding federal offshore areas, California was the fourth-largest producer of crude oil among the 50 states in 2017, after Texas, North Dakota, and Alaska, and, as of January 2018, third in oil refining capacity after Texas and Louisiana.
- In 2016, California accounted for one-fifth of the nation's jet fuel consumption.
- California's total energy consumption is the second highest in the nation, but, in 2016, the State's per capita energy consumption ranked 48th, due in part to its mild climate and its energy efficiency programs.
- In 2017, California ranked second in the nation in conventional hydroelectric generation and first as a producer of electricity from solar, geothermal, and biomass resources.
- In 2017, solar PV and solar thermal installations provided about 16 percent of California's net electricity generation.[24]

[20] California Energy Commission. Energy Almanac. Total Electric Generation. [Online] June 24, 2019. http://www.energy.ca.gov/almanac/electricity_data/total_system_power.html.
[21] Natural Gas Consumption by End Use . U.S. Energy Information Administration. [Online] March 29, 2019. https://www.eia.gov/dnav/ng/ng_cons_sum_dcu_SCA_a.htm.
[22] California Energy Commission. Revised Transportation Energy Demand Forecast 2018-2030. [Online] April 19, 2018. https://www.energy.ca.gov/assessments/
[23] U.S. Energy Information Administration. California Energy Consumption by End-Use Sector. California State Profile and Energy Estimates.[Online] November 15, 2018 https://www.eia.gov/state/?sid=CA#tabs-2
[24] State Profile and Energy Estimates. Independent Statistics and Analysis. [Online] [Cited: November 15, 2018.] http://www.eia.gov/state/?sid=CA#tabs2.

As indicated above, California is one of the nation's leading energy-producing states, and California per capita energy use is among the nation's most efficient. Given the nature of the proposed project, the remainder of this discussion will focus on the three sources of energy that are most relevant to the project—namely, electricity and natural gas, and transportation fuel for vehicle trips associated with the proposed project.

**Electricity**

Electricity would be provided to the project by Southern California Edison (SCE). SCE provides electric power to more than 15 million persons, within a service area encompassing approximately 50,000 square miles.[25] SCE derives electricity from varied energy resources including: fossil fuels, hydroelectric generators, nuclear power plants, geothermal power plants, solar power generation, and wind farms. SCE also purchases from independent power producers and utilities, including out-of-state suppliers.[26]

Table 25 identifies SCE's specific proportional shares of electricity sources in 2017. As shown in Table 25, the 2017 SCE Power Mix has renewable energy at 29 percent of the overall energy resources, of which biomass and waste is at 2 percent, geothermal is at 4 percent, small hydroelectric is at 3 percent, solar energy is at 10 percent, and wind power is at 10 percent; other energy sources include coal at 4 percent, large hydroelectric at 15 percent, natural gas at 34 percent, nuclear at 9 percent and unspecified sources at 9 percent.

**Natural Gas**

Natural gas would be provided to the project by Southern California Gas (SoCalGas). The following summary of natural gas resources and service providers, delivery systems, and associated regulation is excerpted from information provided by the California Public Utilities Commission (CPUC).

The CPUC regulates natural gas utility service for approximately 10.8 million customers that receive natural gas from Pacific Gas and Electric (PG&E), Southern California Gas (SoCalGas), San Diego Gas & Electric (SDG&E), Southwest Gas, and several smaller investor-owned natural gas utilities. The CPUC also regulates independent storage operators Lodi Gas Storage, Wild Goose Storage, Central Valley Storage and Gill Ranch Storage.

The vast majority of California's natural gas customers are residential and small commercial customers, referred to as "core" customers, who accounted for approximately 32 percent of the natural gas delivered by California utilities in 2012. Large consumers, like electric generators and industrial customers, referred to as "noncore" customers, accounted for approximately 68 percent of the natural gas delivered by California utilities in 2012.

The PUC regulates the California utilities' natural gas rates and natural gas services, including in-state transportation over the utilities' transmission and distribution pipeline systems, storage, procurement, metering and billing.

Most of the natural gas used in California comes from out-of-state natural gas basins. In 2012, California customers received 35 percent of their natural gas supply from basins located in the Southwest, 16 percent from Canada, 40 percent from the Rocky Mountains, and 9 percent from basins located within California. California gas utilities may soon also begin receiving biogas into their pipeline systems."[27]

[25] https://www.sce.com/about-us/who-we-are/leadership/our-service-territory

[26] California Energy Commission. Utility Energy Supply plans from 2015. https://www.energy.ca.gov/almanac/electricity_data/supply_forms.html

[27] California Public Utilities Commission. Natural Gas and California. http://www.cpuc.ca.gov/natural_gas/

### Transportation Energy Resources

The project would attract additional vehicle trips with resulting consumption of energy resources, predominantly gasoline and diesel fuel. Gasoline (and other vehicle fuels) are commercially-provided commodities and would be available to the project patrons and employees via commercial outlets.

The most recent data available (2016) shows the transportation sector emits 41 percent of the total greenhouse gases in the state and about 84 percent of smog-forming oxides of nitrogen (NOx).[28,29] Petroleum comprises about 92 percent of all transportation energy use, excluding fuel consumed for aviation and most marine vessels.[30]

## REGULATORY BACKGROUND

Federal and state agencies regulate energy use and consumption through various means and programs. On the federal level, the United States Department of Transportation, the United States Department of Energy, and the United States Environmental Protection Agency are three federal agencies with substantial influence over energy policies and programs. On the state level, the PUC and the California Energy Commissions (CEC) are two agencies with authority over different aspects of energy. Relevant federal and state energy-related laws and plans are summarized below.

### Federal Regulations

*Corporate Average Fuel Economy (CAFE) Standards*

First established by the U.S. Congress in 1975, the Corporate Average Fuel Economy (CAFE) standards reduce energy consumption by increasing the fuel economy of cars and light trucks. The National Highway Traffic Safety Administration (NHTSA) and U.S. Environmental Protection Agency (USEPA) jointly administer the CAFE standards. The U.S. Congress has specified that CAFE standards must be set at the "maximum feasible level" with consideration given for: (1) technological feasibility; (2) economic practicality; (3) effect of other standards on fuel economy; and (4) need for the nation to conserve energy.[31]

*Intermodal Surface transportation Efficiency Act of 1991 (ISTEA)*

The Intermodal Surface Transportation Efficiency Act of 1991 (ISTEA) promoted the development of inter-modal transportation systems to maximize mobility as well as address national and local interests in air quality and energy. ISTEA contained factors that Metropolitan Planning Organizations (MPOs) were to address in developing transportation plans and programs, including some energy-related factors. To meet the new ISTEA requirements, MPOs adopted explicit policies defining the social, economic, energy, and environmental values guiding transportation decisions.

*The Transportation Equity Act of the 21st Century (TEA-21)*

The Transportation Equity Act for the 21st Century (TEA-21) was signed into law in 1998 and builds upon the initiatives established in the ISTEA legislation, discussed above. TEA-21 authorizes highway, highway safety, transit, and other efficient surface transportation programs. TEA-21 continues the program structure established for highways and transit under ISTEA, such as flexibility in the use of funds, emphasis on measures to improve the environment, and focus on a strong planning process as the foundation of good transportation

[28] CARB. California Greenhouse Gas Emissions Inventory – 2018 Edition. https://www.arb.ca.gov/cc/inventory/data/data.htm

[29] CARB. 2016 SIP Emission Projection Data. https://www.arb.ca.gov/app/emsinv/2017/emseic1_query.php?F_DIV=-4&F_YR=2012&F_SEASON=A&SP=SIP105ADJ&F_AREA=CA

[30] US Energy Information Administration. Use of Energy in the United States Explained: Energy Use for Transportation. https://www.eia.gov/energyexplained/?page=us_energy_transportation

[31] https://www.nhtsa.gov/lawsregulations/corporate-average-fuel-economy.

decisions. TEA-21 also provides for investment in research and its application to maximize the performance of the transportation system through, for example, deployment of Intelligent Transportation Systems, to help improve operations and management of transportation systems and vehicle safety.

## State Regulations

Integrated Energy Policy Report (IEPR)

Senate Bill 1389 requires the California Energy Commission (CEC) to prepare a biennial integrated energy policy report that assesses major energy trends and issues facing the State's electricity, natural gas, and transportation fuel sectors and provides policy recommendations to conserve resources; protect the environment; ensure reliable, secure, and diverse energy supplies; enhance the state's economy; and protect public health and safety. The Energy Commission prepares these assessments and associated policy recommendations every two years, with updates in alternate years, as part of the Integrated Energy Policy Report.

The recently approved 2017 Integrated Energy Policy Report Updated (2017 IEPR) was published in April 2018, and continues to work towards improving electricity, natural gas, and transportation fuel energy use in California. The 2016 IEPR focuses on a variety of topics such as implementation of Senate Bill 350, integrated resource planning, distributed energy resources, transportation electrification, solutions to increase resiliency in the electricity sector, energy efficiency, transportation electrification, barriers faced by disadvantaged communities, demand response, transmission and landscape-scale planning, the California Energy Demand Preliminary Forecast, the preliminary transportation energy demand forecast, renewable gas (in response to Senate Bill 1383), updates on Southern California electricity reliability, natural gas outlook, and climate adaptation and resiliency.[32]

State of California Energy Plan

The CEC is responsible for preparing the State Energy Plan, which identifies emerging trends related to energy supply, demand, conservation, public health and safety, and the maintenance of a healthy economy. The Plan calls for the state to assist in the transformation of the transportation system to improve air quality, reduce congestion, and increase the efficient use of fuel supplies with the least environmental and energy costs. To further this policy, the plan identifies a number of strategies, including assistance to public agencies and fleet operators and encouragement of urban designs that reduce vehicle miles traveled and accommodate pedestrian and bicycle access.

California Building Standards Code (Title 24)

The California Building Standards Code Title 24 was previously discussed in Section 3 of this report.

*California Building Energy Efficiency Standards (Title 24, Part 6)*

The California Building Energy Efficiency Standards for Residential and Nonresidential Buildings (California Code of Regulations, Title 24, Part 6) were adopted to ensure that building construction and system design and installation achieve energy efficiency and preserve outdoor and indoor environmental quality. The current California Building Energy Efficiency Standards (Title 24 standards) are the 2019 Title 24 standards, which became effective on January 1, 2020. The 2019 Title 24 standards include efficiency improvements to the lighting and efficiency improvements to the non-residential standards include alignment with the American Society of Heating and Air-Conditioning Engineers. For example, window operation is no longer a method allowed to meet ventilation requirements, continuous operation of central forced air system handlers used in central fan integrated ventilation system is not a permissible method of providing the dwelling unit ventilation

[32] California Energy Commission. Final 2017 Integrated Energy Policy Report. April 16, 2018. https://www.energy.ca.gov/2017_energypolicy/

airflow, and central ventilation systems that serve multiple dwelling units must be balanced to provide ventilation airflow to each dwelling unit. In addition, requirements for kitchen range hoods were also provided in the updated Section 120.1. Ventilation and Indoor Air Quality included both additions and revisions in the 2019 Code. This section now requires nonresidential and hotel/motel buildings to have air filtration systems that use forced air ducts to supply air to occupiable spaces to have air filters. Further, the air filter efficiency must be either MERV 13 or use a particle size efficiency rating specific in the Energy Code AND be equipped with air filters with a minimum 2-inch depth or minimum 1-inch depth if sized according to the equation 120.1-A. If natural ventilation is to be used the space must also use mechanical unless ventilation openings are either permanently open or controlled to stay open during occupied times.

New regulations were also adopted under Section 130.1 Indoor Lighting Controls. These included new exceptions being added for restrooms, the exception for classrooms being removed, as well as exceptions in regard to sunlight provided through skylights and overhangs.

All buildings for which an application for a building permit is submitted on or after January 1, 2020 must follow the 2019 standards. The 2016 residential standards were estimated to be approximately 28 percent more efficient than the 2013 standards, whereas the 2019 residential standards are estimated to be approximately 7 percent more efficient than the 2016 standards. Furthermore, once rooftop solar electricity generation is factored in, 2019 residential standards are estimated to be approximately 53 percent more efficient than the 2016 standards. Under the 2019 standards, nonresidential buildings are estimated to be approximately 30 percent more efficient than the 2016 standards. Energy efficient buildings require less electricity; therefore, increased energy efficiency reduces fossil fuel consumption and decreases greenhouse gas emissions.

*California Building Energy Efficiency Standards (Title 24, Part 11)*

The 2019 California Green Building Standards Code (California Code of Regulations, Title 24, Part 11), commonly referred to as the CALGreen Code, went into effect on January 1, 2020. The 2019 CALGreen Code includes mandatory measures for non-residential development related to site development; energy efficiency; water efficiency and conservation; material conservation and resource efficiency; and environmental quality.

As previously discussed in Section 3 of this report, the Department of Housing and Community Development (HCD) updated CALGreen through the 2019 Triennial Code Adoption Cycle. HCD modified the best management practices for stormwater pollution prevention adding Section 5.106.2 for projects that disturb one or more acres of land. This section requires projects that disturb one acre or more of land or less than one acre of land but are part of a larger common plan of development or sale must comply with the postconstruction requirement detailed in the applicable National Pollutant Discharge Elimination System (NPDES) General Permit for Stormwater Discharges Associated with Construction and Land Disturbance Activities issued by the State Water Resources Control Board. The NPDES permits require postconstruction runoff (post-project hydrology) to match the preconstruction runoff pre-project hydrology) with installation of postconstruction stormwater management measures.

HCD added sections 5.106.4.1.3 and 5.106.4.1.5 in regard to bicycle parking. Section 5.106.4.1.3 requires new buildings with tenant spaces that have 10 or more tenant-occupants, provide secure bicycle parking for 5 percent of the tenant-occupant vehicular parking spaces with a minimum of one bicycle parking facility. In addition, Section 5.106.4.1.5 states that acceptable bicycle parking facility for Sections 5.106.4.1.2 through 5.106.4.1.4 shall be convenient from the street and shall meeting one of the following: (1) covered, lockable enclosures with permanently anchored racks for bicycles; (2) lockable bicycle rooms with permanently anchored racks; or (3) lockable, permanently anchored bicycle lockers.

HCD amended section 5.106.5.3.5 allowing future charging spaces to qualify as designated parking for clean air vehicles.

HCD updated section 5.303.3.3 in regard to showerhead flow rates. This update reduced the flow rate to 1.8 GPM.

HCD amended section 5.304.1 for outdoor potable water use in landscape areas and repealed sections 5.304.2 and 5.304.3. The update requires nonresidential developments to comply with a local water efficient landscape ordinance or the current California Department of Water Resource's' Model Water Efficient Landscape Ordinance (MWELO), whichever is more stringent. Some updates were also made in regard to the outdoor potable water use in landscape areas for public schools and community colleges.

HCD updated Section 5.504.5.3 in regard to the use of MERV filters in mechanically ventilated buildings. This update changed the filter use from MERV 8 to MERV 13. MERV 13 filters are to be installed prior to occupancy, and recommendations for maintenance with filters of the same value shall be included in the operation and maintenance manual.

Senate Bill 350

As previously discussed in Section 3 of this report, Senate Bill 350 (SB 350) was signed into law October 7, 2015, SB 350 increases California's renewable electricity procurement goal from 33 percent by 2020 to 50 percent by 2030. This will increase the use of Renewables Portfolio Standard (RPS) eligible resources, including solar, wind, biomass, geothermal, and others. In addition, SB 350 requires the state to double statewide energy efficiency savings in electricity and natural gas end uses by 2030. To help ensure these goals are met and the greenhouse gas emission reductions are realized, large utilities will be required to develop and submit Integrated Resource Plans (IRPs). These IRPs will detail how each entity will meet their customers resource needs, reduce greenhouse gas emissions and ramp up the deployment of clean energy resources.

Assembly Bill 32

As discussed in Section 3 of this report, in 2006 the California State Legislature adopted Assembly Bill 32 (AB 32), the California Global Warming Solutions Act of 2006. AB 32 requires CARB, to adopt rules and regulations that would achieve GHG emissions equivalent to statewide levels in 1990 by 2020 through an enforceable statewide emission cap which will be phased in starting in 2012. Emission reductions shall include carbon sequestration projects that would remove carbon from the atmosphere and best management practices that are technologically feasible and cost effective. Please see Section 3 for further detail on AB 32.

Assembly Bill 1493/Pavley Regulations

As discussed in Section 3 of this report, California Assembly Bill 1493 enacted on July 22, 2002, required CARB to develop and adopt regulations that reduce GHGs emitted by passenger vehicles and light duty trucks. In 2005, the CARB submitted a "waiver" request to the EPA from a portion of the federal Clean Air Act in order to allow the State to set more stringent tailpipe emission standards for $CO_2$ and other GHG emissions from passenger vehicles and light duty trucks. On December 19, 2007 the EPA announced that it denied the "waiver" request. On January 21, 2009, CARB submitted a letter to the EPA administrator regarding the State's request to reconsider the waiver denial. The EPA approved the waiver on June 30, 2009.

Executive Order S-1-07/Low Carbon Fuel Standard

As discussed in Section 3 of this report, Executive Order S-1-07 was issued in 2007 and proclaims that the transportation sector is the main source of GHG emissions in the State, since it generates more than 40 percent of the State's GHG emissions. It establishes a goal to reduce the carbon intensity of transportation fuels sold in the State by at least ten percent by 2020. This Order also directs CARB to determine whether this Low Carbon Fuel Standard (LCFS) could be adopted as a discrete early-action measure as part of the effort to meet the mandates in AB 32.

On April 23, 2009 CARB approved the proposed regulation to implement the low carbon fuel standard. The low carbon fuel standard is anticipated to reduce GHG emissions by about 16 MMT per year by 2020. The low carbon fuel standard is designed to provide a framework that uses market mechanisms to spur the steady introduction of lower carbon fuels. The framework establishes performance standards that fuel producers and importers must meet each year beginning in 2011. Separate standards are established for gasoline and diesel fuels and the alternative fuels that can replace each. The standards are "back-loaded", with more reductions required in the last five years, than during the first five years. This schedule allows for the development of advanced fuels that are lower in carbon than today's fuels and the market penetration of plug-in hybrid electric vehicles, battery electric vehicles, fuel cell vehicles, and flexible fuel vehicles. It is anticipated that compliance with the low carbon fuel standard will be based on a combination of both lower carbon fuels and more efficient vehicles.

Reformulated gasoline mixed with corn-derived ethanol at ten percent by volume and low sulfur diesel fuel represent the baseline fuels. Lower carbon fuels may be ethanol, biodiesel, renewable diesel, or blends of these fuels with gasoline or diesel as appropriate. Compressed natural gas and liquefied natural gas also may be low carbon fuels. Hydrogen and electricity, when used in fuel cells or electric vehicles are also considered as low carbon fuels for the low carbon fuel standard.

California Air Resources Board

*CARB's Advanced Clean Cars Program*

Closely associated with the Pavley regulations, the Advanced Clean Cars emissions control program was approved by CARB in 2012. The program combines the control of smog, soot, and GHGs with requirements for greater numbers of zero-emission vehicles for model years 2015–2025.15 The components of the Advanced Clean Cars program include the Low-Emission Vehicle (LEV) regulations that reduce criteria pollutants and GHG emissions from light- and medium-duty vehicles, and the Zero-Emission Vehicle (ZEV) regulation, which requires manufacturers to produce an increasing number of pure ZEVs (meaning battery electric and fuel cell electric vehicles), with provisions to also produce plug-in hybrid electric vehicles (PHEV) in the 2018 through 2025 model years.[33]

*Airborne Toxic Control Measure to Limit Diesel-Fueled Commercial Motor Vehicle Idling*

The Airborne Toxic Control Measure to Limit Diesel-Fueled Commercial Motor Vehicle Idling (Title 13, California Code of Regulations, Division 3, Chapter 10, Section 2435) was adopted to reduce public exposure to diesel particulate matter and other air contaminants by limiting the idling of diesel-fueled commercial motor vehicles. This section applies to diesel-fueled commercial motor vehicles with gross vehicular weight ratings of greater than 10,000 pounds that are or must be licensed for operation on highways. Reducing idling of diesel-fueled commercial motor vehicles reduces the amount of petroleum-based fuel used by the vehicle.

*Regulation to Reduce Emissions of Diesel Particulate Matter, Oxides of Nitrogen, and other Criteria Pollutants, form In-Use Heavy-Duty Diesel-Fueled Vehicles*

The Regulation to Reduce Emissions of Diesel Particulate Matter, Oxides of Nitrogen and other Criteria Pollutants, from In-Use Heavy-Duty Diesel-Fueled Vehicles (Title 13, California Code of Regulations, Division 3, Chapter 1, Section 2025) was adopted to reduce emissions of diesel particulate matter, oxides of nitrogen (NOX) and other criteria pollutants from in-use diesel-fueled vehicles. This regulation is phased, with full implementation by 2023. The regulation aims to reduce emissions by requiring the installation of diesel soot filters and encouraging the retirement, replacement, or repower of older, dirtier engines with newer emission-controlled models. The newer emission-controlled models would use petroleum-based fuel in a more efficient manner.

[33] California Air Resources Board, California's Advanced Clean Cars Program, January 18, 2017. www.arb.ca.gov/msprog/acc/acc.htm.

Sustainable Communities Strategy

The Sustainable Communities and Climate Protection Act of 2008, or Senate Bill 375 (SB 375), coordinates land use planning, regional transportation plans, and funding priorities to help California meet the GHG reduction mandates established in AB 32.

As previously stated in Section 3 of this report, Senate Bill 375 (SB 375) was adopted September 2008 and aligns regional transportation planning efforts, regional GHG emission reduction targets, and land use and housing allocation. SB 375 requires Metropolitan Planning Organizations (MPO) to adopt a sustainable communities strategy (SCS) or alternate planning strategy (APS) that will prescribe land use allocation in that MPOs Regional Transportation Plan (RTP). CARB, in consultation with each MPO, will provide each affected region with reduction targets for GHGs emitted by passenger cars and light trucks in the region for the years 2020 and 2035. These reduction targets will be updated every eight years but can be updated every four years if advancements in emissions technologies affect the reduction strategies to achieve the targets. CARB is also charged with reviewing each MPO's sustainable communities strategy or alternate planning strategy for consistency with its assigned targets.

The proposed project is located within the Southern California Association of Governments (SCAG) jurisdiction, which has authority to develop the SCS or APS. For the SCAG region, the targets set by CARB are at eight percent below 2005 per capita GHG emissions levels by 2020 and 19 percent below 2005 per capita GHG emissions levels by 2035. These reduction targets became effective October 2018.

## PROJECT ENERGY DEMANDS AND ENERGY EFFICIENCY MEASURES

### Evaluation Criteria

In compliance with Appendix G of the State CEQA Guidelines, this report analyzes the project's anticipated energy use to determine if the project would:

- Result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation; or
- Conflict with or obstruct a state or local plan for renewable energy or energy efficiency.

In addition, Appendix F of the State CEQA Guidelines states that the means of achieving the goal of energy conservation includes the following:

- Decreasing overall per capita energy consumption;
- Decreasing reliance on fossil fuels such as coal, natural gas and oil; and
- Increasing reliance on renewable energy sources.

### Methodology

Information from the CalEEMod 2016.3.2 Daily Outputs contained in Appendix B and Annual Output contained in Appendix C, utilized for the air quality and greenhouse gas analyses in Sections 2 and 4 respectively of this report, were also utilized for this analysis. The CalEEMod outputs detail project related construction equipment, transportation energy demands, and facility energy demands.

### Construction Energy Demands

The construction schedule is anticipated to start no sooner than mid-June 2020 for demolition, with all other construction phases beginning May 2021 and being completed by May 2022.occur between the Staging of construction vehicles and equipment will occur on-site. The approximately thirteen-month schedule is relatively short and the project site is approximately 13.29 acres.

*Construction Equipment Electricity Usage Estimates*

As stated previously, Electrical service will be provided by Southern California Edison. The focus within this section is the energy implications of the construction process, specifically the power cost from on-site electricity consumption during construction of the proposed project. Based on the 2017 National Construction Estimator, Richard Pray (2017),[34] the typical power cost per 1,000 square feet of building construction per month is estimated to be $2.32. The project plans to develop the site with 305,550 square feet of floor area consisting of 86,780 square feet of warehouse, 198,400 square feet of manufacturing, and 20,370 square feet of office. Based on Table 26, the total power cost of the on-site electricity usage during the construction of the proposed project is estimated to be approximately $9,215.39.

*Construction Equipment Fuel Estimates*

Fuel consumed by construction equipment would be the primary energy resource expended over the course of project construction. Fuel consumed by construction equipment was evaluated with the following assumptions:

- Construction schedule of approximately 13 months
- All construction equipment was assumed to run on diesel fuel
- Typical daily use of 8 hours, with some equipment operating from ~6-7 hours
- Aggregate fuel consumption rate for all equipment was estimated at 18.5 hp-hr/day (from CARB's 2017 Emissions Factors Tables and fuel consumption rate factors as shown in Table D-21 of the Moyer Guidelines: (https://www.arb.ca.gov/msprog/moyer/guidelines/2017gl/2017_gl_appendix_d.pdf).
- Diesel fuel would be the responsibility of the equipment operators/contractors and would be sources within the region.
- Project construction represents a "single-event" for diesel fuel demand and would not require on-going or permanent commitment of diesel fuel resources during long term operation.

Using the CalEEMod data input for the air quality and greenhouse gas analyses (Sections 2 and 4 of this report), the project's construction phase would consume electricity and fossil fuels as a single energy demand, that is, once construction is completed their use would cease. CARB's 2014 Emissions Factors Tables show that on average aggregate fuel consumption (gasoline and diesel fuel) would be approximately 18.5 hp-hr-gal. Table 27 shows the results of the analysis of construction equipment.

As presented in Table 27, project construction activities would consume an estimated 51,724 gallons of diesel fuel. As stated previously, project construction would represent a "single-event" diesel fuel demand and would not require on-going or permanent commitment of diesel fuel resources for this purpose.

*Construction Worker Fuel Estimates*

It is assumed that all construction worker trips are from light duty autos (LDA) along area roadways. With respect to estimated VMT, the construction worker trips would generate an estimated 770,280 VMT. Data regarding project related construction worker trips were based on CalEEMod 2016.3.2 model defaults.

Vehicle fuel efficiencies for construction workers were estimated in the air quality and greenhouse gas analyses (Sections 2 and 4 of this report) using information generated using CARB's EMFAC model. An aggregate fuel efficiency of 28.57 miles per gallon (mpg) was used to calculate vehicle miles traveled for construction worker trips. Table 28 shows that an estimated 27,182 gallons of fuel would be consumed for construction worker trips.

[34] Pray, Richard. 2017 National Construction Estimator. Carlsbad : Craftsman Book Company, 2017.

*Construction Vendor/Hauling Fuel Estimates*

Tables 29 and 30 show the estimated fuel consumption for vendor and hauling during building construction and architectural coating. With respect to estimated VMT, the vendor and hauling trips would generate an estimated 1,925,440 VMT. Data regarding project related construction worker trips were based on CalEEMod 2016.3.2 model defaults.

For the architectural coatings it is assumed that the contractors would be responsible for bringing coatings and equipment with them in their light duty vehicles. Therefore, vendors delivering construction material or hauling debris from the site during grading would use medium to heavy duty vehicles with an average fuel consumption of 8.5 mpg. Tables 29 and 30 show that an estimated 226,522 gallons of fuel would be consumed for vendor and hauling trips.

*Construction Energy Efficiency/Conservation Measures*

Construction equipment used over the approximately nine-month construction phase would conform to CARB regulations and California emissions standards and is evidence of related fuel efficiencies. There are no unusual project characteristics or construction processes that would require the use of equipment that would be more energy intensive than is used for comparable activities; or equipment that would not conform to current emissions standards (and related fuel efficiencies). Equipment employed in construction of the project would therefore not result in inefficient wasteful, or unnecessary consumption of fuel.

The project would utilize construction contractors which practice compliance with applicable CARB regulation regarding retrofitting, repowering, or replacement of diesel off-road construction equipment. Additionally, CARB has adopted the Airborne Toxic Control Measure to limit heavy-duty diesel motor vehicle idling in order to reduce public exposure to diesel particulate matter and other Toxic Air Contaminants. Compliance with these measures would result in a more efficient use of construction-related energy and would minimize or eliminate wasteful or unnecessary consumption of energy. Idling restrictions and the use of newer engines and equipment would result in less fuel combustion and energy consumption.

Additionally, as required by California Code of Regulations Title 13, Motor Vehicles, section 2449(d)(3) Idling, limits idling times of construction vehicles to no more than five minutes, thereby minimizing or eliminating unnecessary and wasteful consumption of fuel due to unproductive idling of construction equipment. Enforcement of idling limitations is realized through periodic site inspections conducted by County building officials, and/or in response to citizen complaints.

**Operational Energy Demands**

Energy consumption in support of or related to project operations would include transportation energy demands (energy consumed by employee and patron vehicles accessing the project site) and facilities energy demands (energy consumed by building operations and site maintenance activities).

*Transportation Fuel Consumption*

Using the CalEEMod output from the air quality and greenhouse gas analyses (Sections 2 and 4 of this report), it is assumed that an average trip for autos and light trucks was assumed to be 40 miles and 3- 4-axle trucks were assumed to travel an average of 6.9 miles[35]. To present a worst-case scenario, it was assumed that vehicles would operate 365 days per year rather than the more likely 253 days (excluding weekends and up to 8 holidays). Table 31 shows the estimated annual fuel consumption for all classes of vehicles from autos to heavy-heavy trucks.

[35] CalEEMod default distance for H-W (home-work) or C-W (commercial-work) is 16.6 miles and 6.9 miles for H-O (home-other) or C-O (commercial-other).

Per the TIA, the proposed project would generate, 1,129 vehicle trips per day (non-PCE) and 1,417 vehicle trips per day (PCE). The vehicle fleet mix was used from the CalEEMod output. Table 31 shows that an estimated 751,636 gallons of fuel would be consumed per year for the operation of the proposed project.

*Facility Energy Demands (Electricity and Natural Gas)*

Building operation and site maintenance (including landscape maintenance) would result in the consumption of electricity (provided by Southern California Edison) and natural gas (provided by Southern California Gas Company). The annual natural gas and electricity demands were provided per the CalEEMod output from the air quality and greenhouse gas analyses (Sections 2 and 4 of this report) and are provided in Table 32.

Energy use in buildings is divided into energy consumed by the built environment and energy consumed by uses that are independent of the construction of the building such as in plug-in appliances. In California, the California Building Standards Code Title 24 governs energy consumed by the built environment, mechanical systems, and some types of fixed lighting. Non-building energy use, or "plug-in" energy use can be further subdivided by specific end-use (refrigeration, cooking, appliances, etc.).

## RENEWABLE ENERGY AND ENERGY EFFICIENCY PLAN CONSISTENCY

Regarding federal transportation regulations, the project site is located in an already developed area. Access to/from the project site is from existing roads. These roads are already in place so the project would not interfere with, nor otherwise obstruct intermodal transportation plans or projects that may be proposed pursuant to the ISTEA because SCAG is not planning for intermodal facilities in the project area.

Regarding the State's Energy Plan and compliance with Title 24 CCR energy efficiency standards, the applicant is required to comply with the California Green Building Standard Code requirements for energy efficient buildings and appliances as well as utility energy efficiency programs implemented by Southern California Edison and Southern California Gas Company.

Regarding Pavley (AB 1493) regulations, an individual project does not have the ability to comply or conflict with these regulations because they are intended for agencies and their adoption of procedures and protocols for reporting and certifying GHG emission reductions from mobile sources.

Regarding the State's Renewable Energy Portfolio Standards, the project would be required to meet or exceed the energy standards established in the California Green Building Standards Code, Title 24, Part 11 (CALGreen). CALGreen Standards require that new buildings reduce water consumption, employ building commissioning to increase building system efficiencies, divert construction waste from landfills, and install low pollutant-emitting finish materials.

As shown in Section 3 above, the proposed project is consistent with the applicable strategies of the City of Torrance Climate Action Plan.

## CONCLUSIONS

As supported by the preceding analyses, project construction and operations would not result in the inefficient, wasteful or unnecessary consumption of energy. Further, the energy demands of the project can be accommodated within the context of available resources and energy delivery systems. The project would therefore not cause or result in the need for additional energy producing or transmission facilities. The project would not engage in wasteful or inefficient uses of energy and aims to achieve energy conservations goals within the State of California. Notwithstanding, the project proposes industrial and office uses and will not have any long-term effects on an energy provider's future energy development or future energy conservation strategies.

## Table 24
## Total Electricity System Power (California 2018)

| Fuel Type | California In-State Generation (GWh) | Percent of California In-State Generation | Northwest Imports (GWh) | Southwest Imports (GWh) | California Power Mix (GWh) | Percent California Power Mix |
|---|---|---|---|---|---|---|
| Coal | 294 | 0.15% | 399 | 8,740 | 9,433 | 3.30% |
| Large Hydro | 22,096 | 11.34% | 7,418 | 985 | 30,499 | 10.68% |
| Natural Gas | 90,691 | 46.54% | 49 | 8,904 | 99,644 | 34.91% |
| Nuclear | 18,268 | 9.38% | 0 | 7,573 | 25,841 | 9.05% |
| Oil | 35 | 0.02% | 0 | 0 | 35 | 0.01% |
| Other (Petroleum Coke/Waste Heat) | 430 | 0.22% | 0 | 9 | 439 | 0.15% |
| Renewables | 63,028 | 32.35% | 14,074 | 12,400 | 89,502 | 31.36% |
| Biomass | 5,909 | 3.03% | 772 | 26 | 6,707 | 2.35% |
| Geothermal | 11,528 | 5.92% | 171 | 1269 | 12,968 | 4.54% |
| Small Hydro | 4,248 | 2.18% | 334 | 1 | 4,583 | 1.61% |
| Solar | 27,265 | 13.99% | 174 | 5,094 | 32,533 | 11.40% |
| Wind | 14,078 | 7.23% | 12,623 | 6,010 | 32,711 | 11.46% |
| Unspecified Sources of Power | N/A | N/A | 17,576 | 12,519 | 30,095 | 10.54% |
| Total | 194,842 | 100.00% | 39,517 | 51,130 | 285,488 | 100.00% |

Notes:

(1) Source: California Energy Commission. Total System electric Generation, June 24, 2019. https://www.energy.ca.gov/almanac/electricity_data/total_system_power.html

**Table 25**
**SCE 2017 Power Content Mix**

| Energy Resources | 2017 SCE Power Mix[1] |
|---|---|
| Eligible Renewable | 29% |
| Biomass & Waste | 2% |
| Geothermal | 4% |
| Small Hydroelectric | 3% |
| Solar | 10% |
| Wind | 10% |
| Coal | 4% |
| Large Hydroelectric | 15% |
| Natural Gas | 34% |
| Nuclear | 9% |
| Other | <1% |
| Unspecified Sources of power* | 9% |
| Total | 100% |

Notes:

(1) https://www.sce.com/sites/default/files/inline-files/2017PCL_0.pdf

* Unspecified sources of power means electricity from transactions that are not traceable to specific generation sources.

**Table 26**
**Project Construction Power Cost and Electricity Usage**

| Power Cost (per 1,000 square foot of building per month of construction) | Total Building Size (1,000 Square Foot) | Construction Duration (months) | Total Project Construction Power Cost |
|---|---|---|---|
| $2.32 | 305.55 | 13 | $9,215.39 |

## Table 27
## Construction Equipment Fuel Consumption Estimates

| Phase | Number of Days | Offroad Equipment Type | Amount | Usage Hours | Horse Power (HP) | Load Factor | HP hrs/day | Total Fuel Consumption (gal diesel fuel)[1] |
|---|---|---|---|---|---|---|---|---|
| Demolition | 20 | Concrete/Industrial Saws | 1 | 8 | 81 | 0.73 | 473 | 511 |
| | 20 | Excavators | 3 | 8 | 158 | 0.38 | 1,441 | 1,558 |
| | 20 | Rubber Tired Dozers | 2 | 8 | 247 | 0.40 | 1,581 | 1,709 |
| Site Preparation | 10 | Tractors/Loaders/Backhoes | 3 | 8 | 97 | 0.37 | 861 | 466 |
| | 10 | Rubber Tired Dozers | 2 | 8 | 247 | 0.40 | 1,581 | 854 |
| Grading | 30 | Excavators | 2 | 8 | 158 | 0.38 | 961 | 1,558 |
| | 30 | Graders | 1 | 8 | 187 | 0.41 | 613 | 995 |
| | 30 | Rubber Tired Dozers | 1 | 8 | 247 | 0.40 | 790 | 1,282 |
| | 30 | Scrapers | 2 | 8 | 367 | 0.48 | 2,819 | 4,571 |
| | 30 | Tractors/Loaders/Backhoes | 2 | 8 | 97 | 0.37 | 574 | 931 |
| Building Construction | 200 | Cranes | 1 | 7 | 231 | 0.29 | 469 | 5,070 |
| | 200 | Forklifts | 4 | 8 | 89 | 0.20 | 570 | 6,158 |
| | 200 | Generator Sets | 2 | 8 | 84 | 0.74 | 995 | 10,752 |
| | 200 | Tractors/Loaders/Backhoes | 4 | 7 | 97 | 0.37 | 1,005 | 10,864 |
| | 200 | Welders | 1 | 8 | 46 | 0.45 | 166 | 1,790 |
| Paving | 20 | Pavers | 2 | 8 | 130 | 0.42 | 874 | 944 |
| | 20 | Paving Equipment | 2 | 8 | 132 | 0.36 | 760 | 822 |
| | 20 | Rollers | 2 | 8 | 80 | 0.38 | 486 | 526 |
| Architectural Coating | 30 | Air Compressors | 1 | 6 | 78 | 0.48 | 225 | 364 |
| **CONSTRUCTION FUEL DEMAND (gallons of diesel fuel)** | | | | | | | | **51,724** |

Notes:

(1) Using Carl Moyer Guidelines Table D-21 Fuel consumption rate factors (bhp-hr/gal) for engines less than 750 hp. (Source: https://www.arb.ca.gov/msprog/moyer/guidelines/2017gl/2017_gl_appendix_d.pdf)

## Table 28
## Construction Worker Fuel Consumption Estimates

| Phase | Number of Days | Worker Trips/Day | Trip Length (miles)[1] | Vehicle Miles Traveled[1] | Average Vehicle Fuel Economy (mpg) | Estimated Fuel Consumption (gallons) |
|---|---|---|---|---|---|---|
| Demolition | 20 | 15 | 14.7 | 4,410 | 28.57 | 154 |
| Site Preparation | 10 | 13 | 14.7 | 1,911 | 28.57 | 67 |
| Grading | 30 | 20 | 14.7 | 8,820 | 28.57 | 309 |
| Building Construction | 200 | 250 | 14.7 | 735,000 | 28.57 | 25,726 |
| Paving | 20 | 15 | 14.7 | 4,410 | 28.57 | 154 |
| Architectural Coating | 30 | 50 | 14.7 | 22,050 | 28.57 | 772 |
| **Total Construction Worker Fuel Consumption** | | | | | | **27,182** |

Notes:

(1) Assumptions for the worker trip length and vehicle miles traveled are consistent with CalEEMod 2016.3.2 defaults.

## Table 29
## Construction Vendor Fuel Consumption Estimates (MHD Trucks)

| Phase | Number of Days | Vendor Trips/Day | Trip Length (miles)[1] | Vehicle Miles Traveled[1] | Average Vehicle Fuel Economy (mpg) | Estimated Fuel Consumption (gallons) |
|---|---|---|---|---|---|---|
| Demolition | 20 | 0 | 6.9 | 0 | 8.5 | 0 |
| Site Preparation | 10 | 0 | 6.9 | 0 | 8.5 | 0 |
| Grading | 30 | 0 | 6.9 | 0 | 8.5 | 0 |
| Building Construction | 200 | 98 | 6.9 | 135,240 | 8.5 | 15,911 |
| Paving | 20 | 0 | 6.9 | 0 | 8.5 | 0 |
| Architectural Coating | 30 | 0 | 6.9 | 0 | 8.5 | 0 |
| **Total Construction Worker Fuel Consumption** | | | | | | **15,911** |

Notes:

(1) Assumptions for the vendor trip length and vehicle miles traveled are consistent with CalEEMod 2016.3.2 defaults.

## Table 30
## Construction Hauling Fuel Consumption Estimates (HHD Trucks)

| Phase | Number of Days | Hauling Trips/Day | Trip Length (miles)[1] | Vehicle Miles Traveled[1] | Average Vehicle Fuel Economy (mpg) | Estimated Fuel Consumption (gallons) |
|---|---|---|---|---|---|---|
| Demolition | 20 | 739 | 20 | 295,600 | 8.5 | 34,776 |
| Site Preparation | 10 | 0 | 20 | 0 | 8.5 | 0 |
| Grading | 30 | 2,491 | 20 | 1,494,600 | 8.5 | 175,835 |
| Building Construction | 200 | 0 | 20 | 0 | 8.5 | 0 |
| Paving | 20 | 0 | 20 | 0 | 8.5 | 0 |
| Architectural Coating | 30 | 0 | 20 | 0 | 8.5 | 0 |
| **Total Construction Worker Fuel Consumption** | | | | | | **210,612** |

Notes:

(1) Assumptions for the hauling trip length and vehicle miles traveled are consistent with CalEEMod 2016.3.2 defaults.

## Table 31
## Estimated Vehicle Operations Fuel Consumption

| Vehicle Type | Vehicle Mix | Number of Vehicles | Average Trip Length (miles)[1] | Daily VMT | Average Fuel Economy (mpg) | Total Gallons per Day | Total Annual Fuel Consumption (gallons) |
|---|---|---|---|---|---|---|---|
| Light Auto | Automobile | 617 | 40.0 | 24,680 | 28.57 | 863.84 | 315,303 |
| Light Truck | Automobile | 51 | 40.0 | 2,040 | 14.08 | 144.89 | 52,884 |
| Light Truck | Automobile | 230 | 40.0 | 9,200 | 14.08 | 653.41 | 238,494 |
| Medium Truck | Automobile | 136 | 6.9 | 938 | 8.50 | 110.40 | 40,296 |
| Light Heavy Truck | 2-Axle Truck | 18 | 6.9 | 124 | 8.50 | 14.61 | 5,333 |
| Light Heavy Truck 10,000 lbs + | 2-Axle Truck | 7 | 6.9 | 48 | 8.50 | 5.68 | 2,074 |
| Medium Heavy Truck | 3-Axle Truck | 23 | 6.9 | 159 | 5.85 | 27.13 | 9,902 |
| Heavy Heavy Truck | 4-Axle Truck | 35 | 40.0 | 1,400 | 5.85 | 239.32 | 87,350 |
| Total | | 1,129 | -- | 38,590 | 11.74 | 2059.28 | -- |
| **Total Annual Fuel Consumption** | | | | | | | **751,636** |

Notes:

(1) Based on the size of the site and relative location, trips were assumed to be local rather than regional.

## Table 32
## Project Annual Operational Energy Demand Summary

| Natural Gas Demand | kBTU/year[1] |
|---|---|
| General Office Building | 186,182 |
| Manufacturing | 4,146,560 |
| Unrefrigerated Warehouse - No Rail | 341,045 |
| Total | 4,332,742 |

| Mitigated Electricity Demand | kWh/year |
|---|---|
| General Office Building | 253,757 |
| Manufacturing | 1,453,660 |
| Unrefrigerated Warehouse - No Rail | 303,175 |
| Total | 1,707,417 |

Notes:

(1) Taken from the CalEEMod 2016.3.2 annual output (Appendix D of this report).

# 6. EMISSIONS REDUCTION MEASURES

## CONSTRUCTION MEASURES

*Adherence to SCAQMD Rule 403 is required.*

## OPERATIONAL MEASURES

The measures listed below are either required through regulation (compliance with Title 24, CALGreen for example) and/or part of the project's sustainable design.

Measure 1. The project applicant shall require that all faucets, toilets and showers installed in the proposed structures utilize low-flow fixtures that would reduce indoor water demand by 20% per CALGreen Standards.

Measure 2. The project applicant shall require recycling programs that reduces waste to landfills by a minimum 75 percent per AB 341.

Measure 3. The project applicant shall provide sidewalks on-site and connecting off-site.

Measure 4. The project applicant shall require that ENERGY STAR-compliant appliances are installed wherever appliances are required on-site.

Measure 5. The project applicant shall require that high-efficiency lighting (such as LED lighting that is 34 percent more efficient than fluorescent lighting) be installed within buildings on-site.

Measure 6. The project applicant shall require water-efficient irrigation systems be installed on-site.

# 7. REFERENCES


California Air Pollution Control Officers Association

2009 Health Risk Assessments for Proposed Land Use Projects

California Air Resources Board

2008 Resolution 08-43

2008 Recommended Approaches for Setting Interim Significance Thresholds for Greenhouse Gases under the California Environmental Quality Act

2008 ARB Recommended Interim Risk Management Policy for Inhalation-Based Residential Cancer Risk – Frequently Asked Questions

2008 Climate Change Scoping Plan, a framework for change.

2011 Supplement to the AB 32 Scoping Plan Functional Equivalent Document

2013 Almanac of Emissions and Air Quality.
Source: https://www.arb.ca.gov/aqd/almanac/almanac13/almanac13.htm

2014 First Update to the Climate Change Scoping Plan, Building on the Framework Pursuant to AB32, the California Global Warming Solutions Act of 2006. May.

2017 California's 2017 Climate Change Scoping Plan. November.

2020 Historical Air Quality, Top 4 Summary

City of Torrance

2010 City of Torrance General Plan. April 6.

2017 City of Torrance Climate Action Plan. December.

Governor's Office of Planning and Research

2008 CEQA and Climate: Addressing Climate Change Through California Environmental Quality Act (CEQA) Review

2018 CEQA Guideline Sections to be Added or Amended

Intergovernmental Panel on Climate Change (IPCC).

2014 IPCC Fifth Assessment Report, Climate Change 2014: Synthesis Report

Linscott Law & Greenspan Engineers

2019 2555 W. 190th Street Warehouse/Manufacturing Project. July 29.

Office of Environmental Health Hazard Assessment

2015 Air Toxics Hot Spots Program Risk Assessment Guidelines

South Coast Air Quality Management District

1993 CEQA Air Quality Handbook

2003 Health Risk Assessment Guidance for Analyzing Cancer Risks from Mobile Source Diesel Idling Emissions for CEQA Air Quality Analysis

2005 Rule 403 Fugitive Dust

2007 2007 Air Quality Management Plan

2008 Final Localized Significance Threshold Methodology, Revised

2012 Final 2012 Air Quality Management Plan

2015 Final MATES-IV Multiple Air Toxics Exposure Study in the South Coast Air Basin. May.

2016 2016 Air Quality Management Plan

2018 Historical Data by Year. 2013, 2014 and 2015 Air Quality Data Tables.
Source: http://www.aqmd.gov/home/library/air-quality-data-studies/historical-data-by-year

Southern California Association of Governments

2016 2016-2040 Regional Transportation Plan/Sustainable Communities Strategy

U.S. Environmental Protection Agency (EPA)

2017 Understanding Global Warming Potentials
(Source: https://www.epa.gov/ghgemissions/understanding-global-warming-potentials)

U.S. Geological Survey

2011 Reported Historic Asbestos Mines, Historic Asbestos Prospects, and Other Natural Occurrences of Asbestos in California

# APPENDICES

Appendix A  Glossary of Terms

Appendix B  CalEEMod Model Daily Emissions Printouts

Appendix C  AERMOD Model Printouts

Appendix D  CalEEMod Model Annual Emissions Printouts

# APPENDIX A

# GLOSSARY OF TERMS

| | |
|---|---|
| AQMP | Air Quality Management Plan |
| BACT | Best Available Control Technologies |
| CAAQS | California Ambient Air Quality Standards |
| CalEPA | California Environmental Protection Agency |
| CARB | California Air Resources Board |
| CCAA | California Clean Air Act |
| CCAR | California Climate Action Registry |
| CEQA | California Environmental Quality Act |
| CFCs | Chlorofluorocarbons |
| $CH_4$ | Methane |
| CNG | Compressed natural gas |
| CO | Carbon monoxide |
| $CO_2$ | Carbon dioxide |
| $CO_2e$ | Carbon dioxide equivalent |
| DPM | Diesel particulate matter |
| EPA | U.S. Environmental Protection Agency |
| GHG | Greenhouse gas |
| GWP | Global warming potential |
| HIDPM | Hazard Index Diesel Particulate Matter |
| HFCs | Hydrofluorocarbons |
| IPCC | International Panel on Climate Change |
| LCFS | Low Carbon Fuel Standard |
| LST | Localized Significant Thresholds |
| $MTCO_2e$ | Metric tons of carbon dioxide equivalent |
| $MMTCO_2e$ | Million metric tons of carbon dioxide equivalent |
| MPO | Metropolitan Planning Organization |
| NAAQS | National Ambient Air Quality Standards |
| NOx | Nitrogen Oxides |
| $NO_2$ | Nitrogen dioxide |
| $N_2O$ | Nitrous oxide |
| $O_3$ | Ozone |
| OPR | Governor's Office of Planning and Research |
| PFCs | Perfluorocarbons |
| PM | Particle matter |
| PM10 | Particles that are less than 10 micrometers in diameter |
| PM2.5 | Particles that are less than 2.5 micrometers in diameter |
| PMI | Point of maximum impact |
| PPM | Parts per million |
| PPB | Parts per billion |
| RTIP | Regional Transportation Improvement Plan |
| RTP | Regional Transportation Plan |
| SANBAG | San Bernardino Association of Governments |
| SCAB | South Coast Air Basin |
| SCAG | Southern California Association of Governments |
| SCAQMD | South Coast Air Quality Management District |
| SSAB | Salton Sea Air Basin |
| $SF_6$ | Sulfur hexafluoride |
| SIP | State Implementation Plan |
| SOx | Sulfur Oxides |
| TAC | Toxic air contaminants |
| VOC | Volatile organic compounds |

# APPENDIX B

# CALEEMOD MODEL DAILY EMISSIONS PRINTOUTS

# 19260 190th Street Warehouse

**Los Angeles-South Coast County, Summer**

## 1.0 Project Characteristics

### 1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|---|---|---|---|---|---|
| General Office Building | 20.37 | 1000sqft | 0.13 | 20,370.00 | 0 |
| Manufacturing | 198.40 | 1000sqft | 4.55 | 198,400.00 | 0 |
| Unrefrigerated Warehouse-No Rail | 86.78 | 1000sqft | 1.99 | 86,780.00 | 0 |
| Other Non-Asphalt Surfaces | 0.90 | Acre | 0.90 | 39,204.00 | 0 |
| Parking Lot | 636.00 | Space | 5.72 | 254,400.00 | 0 |

### 1.2 Other Project Characteristics

| | | | | | |
|---|---|---|---|---|---|
| **Urbanization** | Urban | **Wind Speed (m/s)** | 2.2 | **Precipitation Freq (Days)** | 33 |
| **Climate Zone** | 8 | | | **Operational Year** | 2022 |
| **Utility Company** | Southern California Edison | | | | |
| **CO2 Intensity (lb/MWhr)** | 702.44 | **CH4 Intensity (lb/MWhr)** | 0.029 | **N2O Intensity (lb/MWhr)** | 0.006 |

### 1.3 User Entered Comments & Non-Default Data

19260 190th Street Warehouse - Los Angeles-South Coast County, Summer

Project Characteristics -

Land Use - 13.29 gross ac w/ (total bldg footrpint is 291TSF) 86.78TSF warehouse, 198.4TSF manufacturing, 20.37TSF office (includes ~14,550sf mezzanine), parking lot w/ 636 stalls, & rmdr detention basins/landscaping ~0.9 ac.

Construction Phase - Demolition anticipated to begin no earlier than mid-June 2020. All other site work & building construction anticipated to begin May 2021 and be completed by May 2022.

Off-road Equipment - CalEEMod default building construction timing decreased by ~33%; therefore, ~33% more equipement needed than CalEEMod defaults.

Off-road Equipment - Site Preparation of ~70% of site (~9.3 ac) to remove existing asphalt parking lot; therefore, only ~70% of CalEEMod default equipment needed for site preparation.

Trips and VMT -

Demolition - Demolition of an existing ~162,504 sf building.

Grading - Site Preparation of ~70% of site (~9.3 ac) to remove existing asphalt parking lot. ~19,930 CY import during grading.

Architectural Coating - SCAQMD Rule 1113 limits architectural coatings to 50g/L VOC for buildings & 100g/L VOC for parking lot striping.

Vehicle Trips - Per TIA, 1.74trips/TSF warehouse (non-PCE), 3.93trips/TSF manufacturing (non-PCE), & 9.74trips/TSf office. ITE10th Ed used Sat/Sun for warehouse & office. Truck trips 40 miles one-way. Trip % 20.4% C-W & 79.57% C-NW warehouse/manufacturing.

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation - ~0.02 miles NW Transit Rte 6 stop 190th/Honeywell & ~1.76 miles NE dwntwn Torrance. Sidewalks on/off site. LA County 1emp/1,306sf industrial & 1emp/302sf office = 285emp/6.68ac (job ac=bldg ftprnt only)= 42.7jobs/jb ac.

Energy Mitigation - Lighting that is ~34% more efficient than standard. EnergyStar appliances to be used on-site.

Water Mitigation - 20% indoor water reduction per CalGreen Standards. Water-efficient irrigation systems.

Waste Mitigation - AB 341 requires each jurisdiction in CA divert at least 75% of their waste away from landfills by 2020.

Fleet Mix - Revised vehicle mix per TIA of 79.57% autos, 3.46% 2 axle trucks, 4.64% 3 axle trucks, & 12.33% 4+ axle trucks for warehouse & manufacturing.

| Table Name | Column Name | Default Value | New Value |
|---|---|---|---|
| tblArchitecturalCoating | EF_Nonresidential_Exterior | 100.00 | 50.00 |
| tblArchitecturalCoating | EF_Nonresidential_Interior | 100.00 | 50.00 |
| tblConstDustMitigation | WaterUnpavedRoadVehicleSpeed | 0 | 15 |
| tblConstructionPhase | NumDays | 300.00 | 200.00 |
| tblConstructionPhase | NumDays | 20.00 | 30.00 |
| tblFleetMix | HHD | 0.03 | 0.12 |
| tblFleetMix | HHD | 0.03 | 0.12 |

| | | | |
|---|---|---|---|
| tblFleetMix | LDA | 0.55 | 0.47 |
| tblFleetMix | LDA | 0.55 | 0.47 |
| tblFleetMix | LDT1 | 0.04 | 0.04 |
| tblFleetMix | LDT1 | 0.04 | 0.04 |
| tblFleetMix | LDT2 | 0.20 | 0.18 |
| tblFleetMix | LDT2 | 0.20 | 0.18 |
| tblFleetMix | LHD1 | 0.02 | 0.02 |
| tblFleetMix | LHD1 | 0.02 | 0.02 |
| tblFleetMix | LHD2 | 6.1960e-003 | 9.7730e-003 |
| tblFleetMix | LHD2 | 6.1960e-003 | 9.7730e-003 |
| tblFleetMix | MCY | 5.1420e-003 | 4.4430e-003 |
| tblFleetMix | MCY | 5.1420e-003 | 4.4430e-003 |
| tblFleetMix | MDV | 0.12 | 0.10 |
| tblFleetMix | MDV | 0.12 | 0.10 |
| tblFleetMix | MH | 8.7600e-004 | 0.00 |
| tblFleetMix | MH | 8.7600e-004 | 0.00 |
| tblFleetMix | MHD | 0.02 | 0.05 |
| tblFleetMix | MHD | 0.02 | 0.05 |
| tblFleetMix | OBUS | 2.5150e-003 | 0.00 |
| tblFleetMix | OBUS | 2.5150e-003 | 0.00 |
| tblFleetMix | SBUS | 6.8700e-004 | 0.00 |
| tblFleetMix | SBUS | 6.8700e-004 | 0.00 |
| tblFleetMix | UBUS | 2.2010e-003 | 0.00 |
| tblFleetMix | UBUS | 2.2010e-003 | 0.00 |
| tblGrading | AcresOfGrading | 0.00 | 9.30 |
| tblGrading | MaterialImported | 0.00 | 19,930.00 |
| tblLandUse | LotAcreage | 0.47 | 0.13 |

| | | | |
|---|---|---|---|
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00 | 4.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 2.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00 | 2.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00 | 4.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 4.00 | 3.00 |
| tblVehicleTrips | CC_TTP | 28.00 | 0.00 |
| tblVehicleTrips | CNW_TTP | 13.00 | 79.57 |
| tblVehicleTrips | CNW_TTP | 41.00 | 79.57 |
| tblVehicleTrips | CW_TL | 16.60 | 40.00 |
| tblVehicleTrips | CW_TL | 16.60 | 40.00 |
| tblVehicleTrips | CW_TTP | 59.00 | 20.43 |
| tblVehicleTrips | CW_TTP | 59.00 | 20.43 |
| tblVehicleTrips | ST_TR | 2.46 | 2.21 |
| tblVehicleTrips | ST_TR | 1.49 | 3.93 |
| tblVehicleTrips | ST_TR | 1.68 | 0.15 |
| tblVehicleTrips | SU_TR | 1.05 | 0.70 |
| tblVehicleTrips | SU_TR | 0.62 | 3.93 |
| tblVehicleTrips | SU_TR | 1.68 | 0.06 |
| tblVehicleTrips | WD_TR | 11.03 | 9.74 |
| tblVehicleTrips | WD_TR | 3.82 | 3.93 |
| tblVehicleTrips | WD_TR | 1.68 | 1.74 |

## 2.0 Emissions Summary

## 2.1 Overall Construction (Maximum Daily Emission)

### Unmitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Year | lb/day | | | | | | | | | | lb/day | | | | | |
| 2020 | 3.7039 | 43.8748 | 24.7643 | 0.0698 | 8.8118 | 1.6940 | 10.5058 | 1.4325 | 1.5756 | 3.0081 | 0.0000 | 7,086.4204 | 7,086.4204 | 1.2788 | 0.0000 | 7,118.3893 |
| 2021 | 4.9692 | 68.7319 | 36.9064 | 0.1291 | 13.1758 | 2.0555 | 14.5772 | 6.7655 | 1.8936 | 8.0548 | 0.0000 | 13,263.1229 | 13,263.1229 | 2.4265 | 0.0000 | 13,323.7849 |
| 2022 | 55.8242 | 43.4850 | 53.6043 | 0.1232 | 4.1484 | 1.7989 | 5.9472 | 1.1144 | 1.6907 | 2.8052 | 0.0000 | 12,209.3969 | 12,209.3969 | 1.7558 | 0.0000 | 12,253.2910 |
| **Maximum** | **55.8242** | **68.7319** | **53.6043** | **0.1291** | **13.1758** | **2.0555** | **14.5772** | **6.7655** | **1.8936** | **8.0548** | **0.0000** | **13,263.1229** | **13,263.1229** | **2.4265** | **0.0000** | **13,323.7849** |

### Mitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Year | lb/day | | | | | | | | | | lb/day | | | | | |
| 2020 | 3.7039 | 43.8748 | 24.7643 | 0.0698 | 3.9330 | 1.6940 | 5.6270 | 0.6938 | 1.5756 | 2.2694 | 0.0000 | 7,086.4204 | 7,086.4204 | 1.2788 | 0.0000 | 7,118.3893 |
| 2021 | 4.9692 | 68.7319 | 36.9064 | 0.1291 | 5.2272 | 2.0555 | 7.1428 | 2.6621 | 1.8936 | 3.9513 | 0.0000 | 13,263.1229 | 13,263.1229 | 2.4265 | 0.0000 | 13,323.7849 |
| 2022 | 55.8242 | 43.4850 | 53.6043 | 0.1232 | 4.1484 | 1.7989 | 5.9472 | 1.1144 | 1.6907 | 2.8052 | 0.0000 | 12,209.3969 | 12,209.3969 | 1.7558 | 0.0000 | 12,253.2910 |
| **Maximum** | **55.8242** | **68.7319** | **53.6043** | **0.1291** | **5.2272** | **2.0555** | **7.1428** | **2.6621** | **1.8936** | **3.9513** | **0.0000** | **13,263.1229** | **13,263.1229** | **2.4265** | **0.0000** | **13,323.7849** |

19260 190th Street Warehouse - Los Angeles-South Coast County, Summer

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N20 | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Percent Reduction** | 0.00 | 0.00 | 0.00 | 0.00 | 49.08 | 0.00 | 39.68 | 52.00 | 0.00 | 34.92 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

## 2.2 Overall Operational

### Unmitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Area | 6.9612 | 8.8000e-004 | 0.0964 | 1.0000e-005 | | 3.4000e-004 | 3.4000e-004 | | 3.4000e-004 | 3.4000e-004 | | 0.2063 | 0.2063 | 5.4000e-004 | | 0.2199 |
| Energy | 0.1381 | 1.2554 | 1.0545 | 7.5300e-003 | | 0.0954 | 0.0954 | | 0.0954 | 0.0954 | | 1,506.4584 | 1,506.4584 | 0.0289 | 0.0276 | 1,515.4105 |
| Mobile | 2.5792 | 28.3006 | 34.6603 | 0.1696 | 10.6917 | 0.1322 | 10.8238 | 2.8735 | 0.1243 | 2.9977 | | 17,553.8360 | 17,553.8360 | 0.8140 | | 17,574.1863 |
| **Total** | **9.6785** | **29.5569** | **35.8112** | **0.1772** | **10.6917** | **0.2279** | **10.9196** | **2.8735** | **0.2200** | **3.0935** | | **19,060.5007** | **19,060.5007** | **0.8434** | **0.0276** | **19,089.8167** |

### Mitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Area | 6.9612 | 8.8000e-004 | 0.0964 | 1.0000e-005 | | 3.4000e-004 | 3.4000e-004 | | 3.4000e-004 | 3.4000e-004 | | 0.2063 | 0.2063 | 5.4000e-004 | | 0.2199 |
| Energy | 0.1381 | 1.2554 | 1.0545 | 7.5300e-003 | | 0.0954 | 0.0954 | | 0.0954 | 0.0954 | | 1,506.4584 | 1,506.4584 | 0.0289 | 0.0276 | 1,515.4105 |
| Mobile | 1.9635 | 21.3594 | 21.7824 | 0.1026 | 6.0859 | 0.0788 | 6.1647 | 1.6356 | 0.0741 | 1.7097 | | 10,634.2239 | 10,634.2239 | 0.5486 | | 10,647.9394 |
| **Total** | **9.0628** | **22.6157** | **22.9333** | **0.1101** | **6.0859** | **0.1745** | **6.2604** | **1.6356** | **0.1698** | **1.8054** | | **12,140.8886** | **12,140.8886** | **0.5780** | **0.0276** | **12,163.5698** |

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N20 | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Percent Reduction** | **6.36** | **23.48** | **35.96** | **37.85** | **43.08** | **23.43** | **42.67** | **43.08** | **22.83** | **41.64** | **0.00** | **36.30** | **36.30** | **31.47** | **0.00** | **36.28** |

## 3.0 Construction Detail

**Construction Phase**

| Phase Number | Phase Name | Phase Type | Start Date | End Date | Num Days Week | Num Days | Phase Description |
|---|---|---|---|---|---|---|---|
| 1 | Demolition | Demolition | 6/15/2020 | 7/10/2020 | 5 | 20 | |
| 2 | Site Preparation | Site Preparation | 5/1/2021 | 5/14/2021 | 5 | 10 | |
| 3 | Grading | Grading | 5/15/2021 | 6/25/2021 | 5 | 30 | |
| 4 | Building Construction | Building Construction | 6/26/2021 | 4/2/2022 | 5 | 200 | |
| 5 | Paving | Paving | 3/21/2022 | 4/15/2022 | 5 | 20 | |
| 6 | Architectural Coating | Architectural Coating | 3/22/2022 | 5/2/2022 | 5 | 30 | |

**Acres of Grading (Site Preparation Phase): 9.3**

**Acres of Grading (Grading Phase): 75**

**Acres of Paving: 6.62**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 458,325; Non-Residential Outdoor: 152,775; Striped Parking Area: 17,616 (Architectural Coating – sqft)**

**OffRoad Equipment**

19260 190th Street Warehouse - Los Angeles-South Coast County, Summer

| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|---|---|---|---|---|---|
| Demolition | Concrete/Industrial Saws | 1 | 8.00 | 81 | 0.73 |
| Demolition | Excavators | 3 | 8.00 | 158 | 0.38 |
| Demolition | Rubber Tired Dozers | 2 | 8.00 | 247 | 0.40 |
| Site Preparation | Rubber Tired Dozers | 2 | 8.00 | 247 | 0.40 |
| Site Preparation | Tractors/Loaders/Backhoes | 3 | 8.00 | 97 | 0.37 |
| Grading | Excavators | 2 | 8.00 | 158 | 0.38 |
| Grading | Graders | 1 | 8.00 | 187 | 0.41 |
| Grading | Rubber Tired Dozers | 1 | 8.00 | 247 | 0.40 |
| Grading | Scrapers | 2 | 8.00 | 367 | 0.48 |
| Grading | Tractors/Loaders/Backhoes | 2 | 8.00 | 97 | 0.37 |
| Building Construction | Cranes | 1 | 7.00 | 231 | 0.29 |
| Building Construction | Forklifts | 4 | 8.00 | 89 | 0.20 |
| Building Construction | Generator Sets | 2 | 8.00 | 84 | 0.74 |
| Building Construction | Tractors/Loaders/Backhoes | 4 | 7.00 | 97 | 0.37 |
| Building Construction | Welders | 1 | 8.00 | 46 | 0.45 |
| Paving | Pavers | 2 | 8.00 | 130 | 0.42 |
| Paving | Paving Equipment | 2 | 8.00 | 132 | 0.36 |
| Paving | Rollers | 2 | 8.00 | 80 | 0.38 |
| Architectural Coating | Air Compressors | 1 | 6.00 | 78 | 0.48 |

**Trips and VMT**

| Phase Name | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|---|---|---|---|---|---|---|---|---|---|---|
| Demolition | 6 | 15.00 | 0.00 | 739.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Site Preparation | 5 | 13.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Grading | 8 | 20.00 | 0.00 | 2,491.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Building Construction | 12 | 250.00 | 98.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Paving | 6 | 15.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Architectural Coating | 1 | 50.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |

## 3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

## 3.2 Demolition - 2020

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 7.9981 | 0.0000 | 7.9981 | 1.2110 | 0.0000 | 1.2110 | | | 0.0000 | | | 0.0000 |
| Off-Road | 3.3121 | 33.2010 | 21.7532 | 0.0388 | | 1.6587 | 1.6587 | | 1.5419 | 1.5419 | | 3,747.7049 | 3,747.7049 | 1.0580 | | 3,774.1536 |
| **Total** | **3.3121** | **33.2010** | **21.7532** | **0.0388** | **7.9981** | **1.6587** | **9.6568** | **1.2110** | **1.5419** | **2.7528** | | **3,747.7049** | **3,747.7049** | **1.0580** | | **3,774.1536** |

## 3.2 Demolition - 2020

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.3228 | 10.6246 | 2.3543 | 0.0292 | 0.6461 | 0.0339 | 0.6800 | 0.1771 | 0.0324 | 0.2095 | | 3,162.2986 | 3,162.2986 | 0.2153 | | 3,167.6797 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0690 | 0.0491 | 0.6568 | 1.7700e-003 | 0.1677 | 1.4000e-003 | 0.1691 | 0.0445 | 1.2900e-003 | 0.0458 | | 176.4169 | 176.4169 | 5.5600e-003 | | 176.5560 |
| **Total** | **0.3918** | **10.6737** | **3.0111** | **0.0310** | **0.8137** | **0.0353** | **0.8490** | **0.2216** | **0.0337** | **0.2553** | | **3,338.7155** | **3,338.7155** | **0.2208** | | **3,344.2357** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 3.1193 | 0.0000 | 3.1193 | 0.4723 | 0.0000 | 0.4723 | | | 0.0000 | | | 0.0000 |
| Off-Road | 3.3121 | 33.2010 | 21.7532 | 0.0388 | | 1.6587 | 1.6587 | | 1.5419 | 1.5419 | 0.0000 | 3,747.7049 | 3,747.7049 | 1.0580 | | 3,774.1536 |
| **Total** | **3.3121** | **33.2010** | **21.7532** | **0.0388** | **3.1193** | **1.6587** | **4.7780** | **0.4723** | **1.5419** | **2.0141** | **0.0000** | **3,747.7049** | **3,747.7049** | **1.0580** | | **3,774.1536** |

## 3.2 Demolition - 2020

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.3228 | 10.6246 | 2.3543 | 0.0292 | 0.6461 | 0.0339 | 0.6800 | 0.1771 | 0.0324 | 0.2095 | | 3,162.2986 | 3,162.2986 | 0.2153 | | 3,167.6797 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0690 | 0.0491 | 0.6568 | 1.7700e-003 | 0.1677 | 1.4000e-003 | 0.1691 | 0.0445 | 1.2900e-003 | 0.0458 | | 176.4169 | 176.4169 | 5.5600e-003 | | 176.5560 |
| **Total** | **0.3918** | **10.6737** | **3.0111** | **0.0310** | **0.8137** | **0.0353** | **0.8490** | **0.2216** | **0.0337** | **0.2553** | | **3,338.7155** | **3,338.7155** | **0.2208** | | **3,344.2357** |

## 3.3 Site Preparation - 2021

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 13.0304 | 0.0000 | 13.0304 | 6.7270 | 0.0000 | 6.7270 | | | 0.0000 | | | 0.0000 |
| Off-Road | 2.6545 | 27.6300 | 14.8563 | 0.0264 | | 1.4002 | 1.4002 | | 1.2882 | 1.2882 | | 2,557.4046 | 2,557.4046 | 0.8271 | | 2,578.0825 |
| **Total** | **2.6545** | **27.6300** | **14.8563** | **0.0264** | **13.0304** | **1.4002** | **14.4307** | **6.7270** | **1.2882** | **8.0152** | | **2,557.4046** | **2,557.4046** | **0.8271** | | **2,578.0825** |

## 3.3 Site Preparation - 2021

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0557 | 0.0383 | 0.5236 | 1.4900e-003 | 0.1453 | 1.1700e-003 | 0.1465 | 0.0385 | 1.0800e-003 | 0.0396 | | 148.0401 | 148.0401 | 4.3600e-003 | | 148.1491 |
| **Total** | **0.0557** | **0.0383** | **0.5236** | **1.4900e-003** | **0.1453** | **1.1700e-003** | **0.1465** | **0.0385** | **1.0800e-003** | **0.0396** | | **148.0401** | **148.0401** | **4.3600e-003** | | **148.1491** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 5.0819 | 0.0000 | 5.0819 | 2.6235 | 0.0000 | 2.6235 | | | 0.0000 | | | 0.0000 |
| Off-Road | 2.6545 | 27.6300 | 14.8563 | 0.0264 | | 1.4002 | 1.4002 | | 1.2882 | 1.2882 | 0.0000 | 2,557.4046 | 2,557.4046 | 0.8271 | | 2,578.0825 |
| **Total** | **2.6545** | **27.6300** | **14.8563** | **0.0264** | **5.0819** | **1.4002** | **6.4821** | **2.6235** | **1.2882** | **3.9117** | **0.0000** | **2,557.4046** | **2,557.4046** | **0.8271** | | **2,578.0825** |

## 3.3 Site Preparation - 2021

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0557 | 0.0383 | 0.5236 | 1.4900e-003 | 0.1453 | 1.1700e-003 | 0.1465 | 0.0385 | 1.0800e-003 | 0.0396 | | 148.0401 | 148.0401 | 4.3600e-003 | | 148.1491 |
| **Total** | **0.0557** | **0.0383** | **0.5236** | **1.4900e-003** | **0.1453** | **1.1700e-003** | **0.1465** | **0.0385** | **1.0800e-003** | **0.0396** | | **148.0401** | **148.0401** | **4.3600e-003** | | **148.1491** |

## 3.4 Grading - 2021

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 8.7485 | 0.0000 | 8.7485 | 3.6079 | 0.0000 | 3.6079 | | | 0.0000 | | | 0.0000 |
| Off-Road | 4.1912 | 46.3998 | 30.8785 | 0.0620 | | 1.9853 | 1.9853 | | 1.8265 | 1.8265 | | 6,007.0434 | 6,007.0434 | 1.9428 | | 6,055.6134 |
| **Total** | **4.1912** | **46.3998** | **30.8785** | **0.0620** | **8.7485** | **1.9853** | **10.7338** | **3.6079** | **1.8265** | **5.4344** | | **6,007.0434** | **6,007.0434** | **1.9428** | | **6,055.6134** |

## 3.4 Grading - 2021

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.6923 | 22.2732 | 5.2224 | 0.0648 | 1.4519 | 0.0684 | 1.5202 | 0.3980 | 0.0654 | 0.4634 | | 7,028.3255 | 7,028.3255 | 0.4770 | | 7,040.2497 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0857 | 0.0589 | 0.8056 | 2.2900e-003 | 0.2236 | 1.8100e-003 | 0.2254 | 0.0593 | 1.6600e-003 | 0.0610 | | 227.7540 | 227.7540 | 6.7100e-003 | | 227.9217 |
| **Total** | **0.7781** | **22.3321** | **6.0280** | **0.0671** | **1.6754** | **0.0702** | **1.7456** | **0.4573** | **0.0671** | **0.5243** | | **7,256.0795** | **7,256.0795** | **0.4837** | | **7,268.1715** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 3.4119 | 0.0000 | 3.4119 | 1.4071 | 0.0000 | 1.4071 | | | 0.0000 | | | 0.0000 |
| Off-Road | 4.1912 | 46.3998 | 30.8785 | 0.0620 | | 1.9853 | 1.9853 | | 1.8265 | 1.8265 | 0.0000 | 6,007.0434 | 6,007.0434 | 1.9428 | | 6,055.6134 |
| **Total** | **4.1912** | **46.3998** | **30.8785** | **0.0620** | **3.4119** | **1.9853** | **5.3972** | **1.4071** | **1.8265** | **3.2336** | **0.0000** | **6,007.0434** | **6,007.0434** | **1.9428** | | **6,055.6134** |

## 3.4 Grading - 2021

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.6923 | 22.2732 | 5.2224 | 0.0648 | 1.4519 | 0.0684 | 1.5202 | 0.3980 | 0.0654 | 0.4634 | | 7,028.3255 | 7,028.3255 | 0.4770 | | 7,040.2497 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0857 | 0.0589 | 0.8056 | 2.2900e-003 | 0.2236 | 1.8100e-003 | 0.2254 | 0.0593 | 1.6600e-003 | 0.0610 | | 227.7540 | 227.7540 | 6.7100e-003 | | 227.9217 |
| **Total** | **0.7781** | **22.3321** | **6.0280** | **0.0671** | **1.6754** | **0.0702** | **1.7456** | **0.4573** | **0.0671** | **0.5243** | | **7,256.0795** | **7,256.0795** | **0.4837** | | **7,268.1715** |

## 3.5 Building Construction - 2021

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 2.5515 | 23.4362 | 23.4055 | 0.0377 | | 1.3079 | 1.3079 | | 1.2360 | 1.2360 | | 3,587.7169 | 3,587.7169 | 0.7808 | | 3,607.2378 |
| **Total** | **2.5515** | **23.4362** | **23.4055** | **0.0377** | | **1.3079** | **1.3079** | | **1.2360** | **1.2360** | | **3,587.7169** | **3,587.7169** | **0.7808** | | **3,607.2378** |

## 3.5 Building Construction - 2021

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.2979 | 9.5148 | 2.4874 | 0.0252 | 0.6274 | 0.0195 | 0.6469 | 0.1806 | 0.0186 | 0.1993 | | 2,693.8302 | 2,693.8302 | 0.1587 | | 2,697.7977 |
| Worker | 1.0716 | 0.7366 | 10.0694 | 0.0286 | 2.7944 | 0.0226 | 2.8170 | 0.7411 | 0.0208 | 0.7619 | | 2,846.9246 | 2,846.9246 | 0.0839 | | 2,849.0217 |
| **Total** | **1.3695** | **10.2514** | **12.5568** | **0.0538** | **3.4218** | **0.0420** | **3.4639** | **0.9217** | **0.0394** | **0.9611** | | **5,540.7548** | **5,540.7548** | **0.2426** | | **5,546.8195** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 2.5515 | 23.4362 | 23.4055 | 0.0377 | | 1.3079 | 1.3079 | | 1.2360 | 1.2360 | 0.0000 | 3,587.7169 | 3,587.7169 | 0.7808 | | 3,607.2378 |
| **Total** | **2.5515** | **23.4362** | **23.4055** | **0.0377** | | **1.3079** | **1.3079** | | **1.2360** | **1.2360** | **0.0000** | **3,587.7169** | **3,587.7169** | **0.7808** | | **3,607.2378** |

## 3.5 Building Construction - 2021

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.2979 | 9.5148 | 2.4874 | 0.0252 | 0.6274 | 0.0195 | 0.6469 | 0.1806 | 0.0186 | 0.1993 | | 2,693.8302 | 2,693.8302 | 0.1587 | | 2,697.7977 |
| Worker | 1.0716 | 0.7366 | 10.0694 | 0.0286 | 2.7944 | 0.0226 | 2.8170 | 0.7411 | 0.0208 | 0.7619 | | 2,846.9246 | 2,846.9246 | 0.0839 | | 2,849.0217 |
| **Total** | **1.3695** | **10.2514** | **12.5568** | **0.0538** | **3.4218** | **0.0420** | **3.4639** | **0.9217** | **0.0394** | **0.9611** | | **5,540.7548** | **5,540.7548** | **0.2426** | | **5,546.8195** |

## 3.5 Building Construction - 2022

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 2.2940 | 21.0650 | 23.1513 | 0.0378 | | 1.1047 | 1.1047 | | 1.0449 | 1.0449 | | 3,588.9831 | 3,588.9831 | 0.7747 | | 3,608.3498 |
| **Total** | **2.2940** | **21.0650** | **23.1513** | **0.0378** | | **1.1047** | **1.1047** | | **1.0449** | **1.0449** | | **3,588.9831** | **3,588.9831** | **0.7747** | | **3,608.3498** |

## 3.5 Building Construction - 2022

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.2796 | 9.0484 | 2.3535 | 0.0250 | 0.6274 | 0.0170 | 0.6444 | 0.1807 | 0.0163 | 0.1969 | | 2,670.3617 | 2,670.3617 | 0.1532 | | 2,674.1928 |
| Worker | 1.0038 | 0.6654 | 9.2901 | 0.0276 | 2.7944 | 0.0219 | 2.8163 | 0.7411 | 0.0202 | 0.7612 | | 2,746.7808 | 2,746.7808 | 0.0758 | | 2,748.6761 |
| **Total** | **1.2834** | **9.7137** | **11.6435** | **0.0525** | **3.4218** | **0.0389** | **3.4607** | **0.9217** | **0.0364** | **0.9582** | | **5,417.1425** | **5,417.1425** | **0.2291** | | **5,422.8689** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 2.2940 | 21.0650 | 23.1513 | 0.0378 | | 1.1047 | 1.1047 | | 1.0449 | 1.0449 | 0.0000 | 3,588.9831 | 3,588.9831 | 0.7747 | | 3,608.3498 |
| **Total** | **2.2940** | **21.0650** | **23.1513** | **0.0378** | | **1.1047** | **1.1047** | | **1.0449** | **1.0449** | **0.0000** | **3,588.9831** | **3,588.9831** | **0.7747** | | **3,608.3498** |

## 3.5 Building Construction - 2022

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.2796 | 9.0484 | 2.3535 | 0.0250 | 0.6274 | 0.0170 | 0.6444 | 0.1807 | 0.0163 | 0.1969 | | 2,670.3617 | 2,670.3617 | 0.1532 | | 2,674.1928 |
| Worker | 1.0038 | 0.6654 | 9.2901 | 0.0276 | 2.7944 | 0.0219 | 2.8163 | 0.7411 | 0.0202 | 0.7612 | | 2,746.7808 | 2,746.7808 | 0.0758 | | 2,748.6761 |
| **Total** | **1.2834** | **9.7137** | **11.6435** | **0.0525** | **3.4218** | **0.0389** | **3.4607** | **0.9217** | **0.0364** | **0.9582** | | **5,417.1425** | **5,417.1425** | **0.2291** | | **5,422.8689** |

## 3.6 Paving - 2022

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 1.1028 | 11.1249 | 14.5805 | 0.0228 | | 0.5679 | 0.5679 | | 0.5225 | 0.5225 | | 2,207.6603 | 2,207.6603 | 0.7140 | | 2,225.5104 |
| Paving | 0.7493 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| **Total** | **1.8521** | **11.1249** | **14.5805** | **0.0228** | | **0.5679** | **0.5679** | | **0.5225** | **0.5225** | | **2,207.6603** | **2,207.6603** | **0.7140** | | **2,225.5104** |

## 3.6 Paving - 2022

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0602 | 0.0399 | 0.5574 | 1.6500e-003 | 0.1677 | 1.3100e-003 | 0.1690 | 0.0445 | 1.2100e-003 | 0.0457 | | 164.8069 | 164.8069 | 4.5500e-003 | | 164.9206 |
| **Total** | **0.0602** | **0.0399** | **0.5574** | **1.6500e-003** | **0.1677** | **1.3100e-003** | **0.1690** | **0.0445** | **1.2100e-003** | **0.0457** | | **164.8069** | **164.8069** | **4.5500e-003** | | **164.9206** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 1.1028 | 11.1249 | 14.5805 | 0.0228 | | 0.5679 | 0.5679 | | 0.5225 | 0.5225 | 0.0000 | 2,207.6603 | 2,207.6603 | 0.7140 | | 2,225.5104 |
| Paving | 0.7493 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| **Total** | **1.8521** | **11.1249** | **14.5805** | **0.0228** | | **0.5679** | **0.5679** | | **0.5225** | **0.5225** | **0.0000** | **2,207.6603** | **2,207.6603** | **0.7140** | | **2,225.5104** |

## 3.6 Paving - 2022

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0602 | 0.0399 | 0.5574 | 1.6500e-003 | 0.1677 | 1.3100e-003 | 0.1690 | 0.0445 | 1.2100e-003 | 0.0457 | | 164.8069 | 164.8069 | 4.5500e-003 | | 164.9206 |
| **Total** | **0.0602** | **0.0399** | **0.5574** | **1.6500e-003** | **0.1677** | **1.3100e-003** | **0.1690** | **0.0445** | **1.2100e-003** | **0.0457** | | **164.8069** | **164.8069** | **4.5500e-003** | | **164.9206** |

## 3.7 Architectural Coating - 2022

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Archit. Coating | 49.9292 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.2045 | 1.4085 | 1.8136 | 2.9700e-003 | | 0.0817 | 0.0817 | | 0.0817 | 0.0817 | | 281.4481 | 281.4481 | 0.0183 | | 281.9062 |
| **Total** | **50.1337** | **1.4085** | **1.8136** | **2.9700e-003** | | **0.0817** | **0.0817** | | **0.0817** | **0.0817** | | **281.4481** | **281.4481** | **0.0183** | | **281.9062** |

## 3.7 Architectural Coating - 2022

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.2008 | 0.1331 | 1.8580 | 5.5100e-003 | 0.5589 | 4.3700e-003 | 0.5633 | 0.1482 | 4.0300e-003 | 0.1523 | | 549.3562 | 549.3562 | 0.0152 | | 549.7352 |
| **Total** | **0.2008** | **0.1331** | **1.8580** | **5.5100e-003** | **0.5589** | **4.3700e-003** | **0.5633** | **0.1482** | **4.0300e-003** | **0.1523** | | **549.3562** | **549.3562** | **0.0152** | | **549.7352** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Archit. Coating | 49.9292 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.2045 | 1.4085 | 1.8136 | 2.9700e-003 | | 0.0817 | 0.0817 | | 0.0817 | 0.0817 | 0.0000 | 281.4481 | 281.4481 | 0.0183 | | 281.9062 |
| **Total** | **50.1337** | **1.4085** | **1.8136** | **2.9700e-003** | | **0.0817** | **0.0817** | | **0.0817** | **0.0817** | **0.0000** | **281.4481** | **281.4481** | **0.0183** | | **281.9062** |

### 3.7 Architectural Coating - 2022

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.2008 | 0.1331 | 1.8580 | 5.5100e-003 | 0.5589 | 4.3700e-003 | 0.5633 | 0.1482 | 4.0300e-003 | 0.1523 | | 549.3562 | 549.3562 | 0.0152 | | 549.7352 |
| **Total** | **0.2008** | **0.1331** | **1.8580** | **5.5100e-003** | **0.5589** | **4.3700e-003** | **0.5633** | **0.1482** | **4.0300e-003** | **0.1523** | | **549.3562** | **549.3562** | **0.0152** | | **549.7352** |

## 4.0 Operational Detail - Mobile

### 4.1 Mitigation Measures Mobile

Increase Density

Improve Destination Accessibility

Increase Transit Accessibility

Improve Pedestrian Network

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Mitigated | 1.9635 | 21.3594 | 21.7824 | 0.1026 | 6.0859 | 0.0788 | 6.1647 | 1.6356 | 0.0741 | 1.7097 | | 10,634.2239 | 10,634.2239 | 0.5486 | | 10,647.9394 |
| Unmitigated | 2.5792 | 28.3006 | 34.6603 | 0.1696 | 10.6917 | 0.1322 | 10.8238 | 2.8735 | 0.1243 | 2.9977 | | 17,553.8360 | 17,553.8360 | 0.8140 | | 17,574.1863 |

## 4.2 Trip Summary Information

| | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|---|---|---|---|---|---|
| Land Use | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| General Office Building | 198.40 | 45.02 | 14.26 | 483,815 | 275,397 |
| Manufacturing | 779.71 | 779.71 | 779.71 | 3,616,692 | 2,058,687 |
| Other Non-Asphalt Surfaces | 0.00 | 0.00 | 0.00 | | |
| Parking Lot | 0.00 | 0.00 | 0.00 | | |
| Unrefrigerated Warehouse-No Rail | 151.00 | 13.02 | 5.21 | 512,362 | 291,646 |
| Total | 1,129.11 | 837.75 | 799.18 | 4,612,869 | 2,625,729 |

## 4.3 Trip Type Information

| | Miles | | | Trip % | | | Trip Purpose % | | |
|---|---|---|---|---|---|---|---|---|---|
| Land Use | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary | Diverted | Pass-by |
| General Office Building | 16.60 | 8.40 | 6.90 | 33.00 | 48.00 | 19.00 | 77 | 19 | 4 |
| Manufacturing | 40.00 | 8.40 | 6.90 | 20.43 | 0.00 | 79.57 | 92 | 5 | 3 |
| Other Non-Asphalt Surfaces | 16.60 | 8.40 | 6.90 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |
| Parking Lot | 16.60 | 8.40 | 6.90 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |
| Unrefrigerated Warehouse-No | 40.00 | 8.40 | 6.90 | 20.43 | 0.00 | 79.57 | 92 | 5 | 3 |

### 4.4 Fleet Mix

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| General Office Building | 0.546501 | 0.044961 | 0.204016 | 0.120355 | 0.015740 | 0.006196 | 0.020131 | 0.030678 | 0.002515 | 0.002201 | 0.005142 | 0.000687 | 0.000876 |
| Manufacturing | 0.472164 | 0.038845 | 0.176265 | 0.103984 | 0.024827 | 0.009773 | 0.046400 | 0.123300 | 0.000000 | 0.000000 | 0.004443 | 0.000000 | 0.000000 |
| Other Non-Asphalt Surfaces | 0.546501 | 0.044961 | 0.204016 | 0.120355 | 0.015740 | 0.006196 | 0.020131 | 0.030678 | 0.002515 | 0.002201 | 0.005142 | 0.000687 | 0.000876 |
| Parking Lot | 0.546501 | 0.044961 | 0.204016 | 0.120355 | 0.015740 | 0.006196 | 0.020131 | 0.030678 | 0.002515 | 0.002201 | 0.005142 | 0.000687 | 0.000876 |
| Unrefrigerated Warehouse-No Rail | 0.472164 | 0.038845 | 0.176265 | 0.103984 | 0.024827 | 0.009773 | 0.046400 | 0.123300 | 0.000000 | 0.000000 | 0.004443 | 0.000000 | 0.000000 |

## 5.0 Energy Detail

Historical Energy Use: N

### 5.1 Mitigation Measures Energy

Install High Efficiency Lighting

Install Energy Efficient Appliances

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| NaturalGas Mitigated | 0.1381 | 1.2554 | 1.0545 | 7.5300e-003 | | 0.0954 | 0.0954 | | 0.0954 | 0.0954 | | 1,506.4584 | 1,506.4584 | 0.0289 | 0.0276 | 1,515.4105 |
| NaturalGas Unmitigated | 0.1381 | 1.2554 | 1.0545 | 7.5300e-003 | | 0.0954 | 0.0954 | | 0.0954 | 0.0954 | | 1,506.4584 | 1,506.4584 | 0.0289 | 0.0276 | 1,515.4105 |

## 5.2 Energy by Land Use - NaturalGas

**Unmitigated**

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| General Office Building | 510.087 | 5.5000e-003 | 0.0500 | 0.0420 | 3.0000e-004 | | 3.8000e-003 | 3.8000e-003 | | 3.8000e-003 | 3.8000e-003 | | 60.0103 | 60.0103 | 1.1500e-003 | 1.1000e-003 | 60.3669 |
| Manufacturing | 11360.4 | 0.1225 | 1.1138 | 0.9356 | 6.6800e-003 | | 0.0847 | 0.0847 | | 0.0847 | 0.0847 | | 1,336.5222 | 1,336.5222 | 0.0256 | 0.0245 | 1,344.4644 |
| Other Non-Asphalt Surfaces | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Unrefrigerated Warehouse-No Rail | 934.371 | 0.0101 | 0.0916 | 0.0770 | 5.5000e-004 | | 6.9600e-003 | 6.9600e-003 | | 6.9600e-003 | 6.9600e-003 | | 109.9260 | 109.9260 | 2.1100e-003 | 2.0200e-003 | 110.5792 |
| **Total** | | **0.1381** | **1.2554** | **1.0545** | **7.5300e-003** | | **0.0954** | **0.0954** | | **0.0954** | **0.0954** | | **1,506.4584** | **1,506.4584** | **0.0289** | **0.0276** | **1,515.4105** |

## 5.2 Energy by Land Use - NaturalGas

**Mitigated**

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| General Office Building | 0.510087 | 5.5000e-003 | 0.0500 | 0.0420 | 3.0000e-004 | | 3.8000e-003 | 3.8000e-003 | | 3.8000e-003 | 3.8000e-003 | | 60.0103 | 60.0103 | 1.1500e-003 | 1.1000e-003 | 60.3669 |
| Manufacturing | 11.3604 | 0.1225 | 1.1138 | 0.9356 | 6.6800e-003 | | 0.0847 | 0.0847 | | 0.0847 | 0.0847 | | 1,336.5222 | 1,336.5222 | 0.0256 | 0.0245 | 1,344.4644 |
| Other Non-Asphalt Surfaces | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Unrefrigerated Warehouse-No Rail | 0.934371 | 0.0101 | 0.0916 | 0.0770 | 5.5000e-004 | | 6.9600e-003 | 6.9600e-003 | | 6.9600e-003 | 6.9600e-003 | | 109.9260 | 109.9260 | 2.1100e-003 | 2.0200e-003 | 110.5792 |
| **Total** | | **0.1381** | **1.2554** | **1.0545** | **7.5300e-003** | | **0.0954** | **0.0954** | | **0.0954** | **0.0954** | | **1,506.4584** | **1,506.4584** | **0.0289** | **0.0276** | **1,515.4105** |

# 6.0 Area Detail

## 6.1 Mitigation Measures Area

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Mitigated | 6.9612 | 8.8000e-004 | 0.0964 | 1.0000e-005 | | 3.4000e-004 | 3.4000e-004 | | 3.4000e-004 | 3.4000e-004 | | 0.2063 | 0.2063 | 5.4000e-004 | | 0.2199 |
| Unmitigated | 6.9612 | 8.8000e-004 | 0.0964 | 1.0000e-005 | | 3.4000e-004 | 3.4000e-004 | | 3.4000e-004 | 3.4000e-004 | | 0.2063 | 0.2063 | 5.4000e-004 | | 0.2199 |

## 6.2 Area by SubCategory

**Unmitigated**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SubCategory | lb/day | | | | | | | | | | lb/day | | | | | |
| Architectural Coating | 0.7984 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 6.1539 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Landscaping | 8.9600e-003 | 8.8000e-004 | 0.0964 | 1.0000e-005 | | 3.4000e-004 | 3.4000e-004 | | 3.4000e-004 | 3.4000e-004 | | 0.2063 | 0.2063 | 5.4000e-004 | | 0.2199 |
| **Total** | **6.9612** | **8.8000e-004** | **0.0964** | **1.0000e-005** | | **3.4000e-004** | **3.4000e-004** | | **3.4000e-004** | **3.4000e-004** | | **0.2063** | **0.2063** | **5.4000e-004** | | **0.2199** |

### 6.2 Area by SubCategory

**Mitigated**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SubCategory | lb/day | | | | | | | | | | lb/day | | | | | |
| Architectural Coating | 0.7984 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 6.1539 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Landscaping | 8.9600e-003 | 8.8000e-004 | 0.0964 | 1.0000e-005 | | 3.4000e-004 | 3.4000e-004 | | 3.4000e-004 | 3.4000e-004 | | 0.2063 | 0.2063 | 5.4000e-004 | | 0.2199 |
| **Total** | **6.9612** | **8.8000e-004** | **0.0964** | **1.0000e-005** | | **3.4000e-004** | **3.4000e-004** | | **3.4000e-004** | **3.4000e-004** | | **0.2063** | **0.2063** | **5.4000e-004** | | **0.2199** |

## 7.0 Water Detail

### 7.1 Mitigation Measures Water

Apply Water Conservation Strategy

Use Water Efficient Irrigation System

## 8.0 Waste Detail

### 8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

## 9.0 Operational Offroad

| Equipment Type | Number | Hours/Day | Days/Year | Horse Power | Load Factor | Fuel Type |
|---|---|---|---|---|---|---|

## 10.0 Stationary Equipment

### Fire Pumps and Emergency Generators

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

### Boilers

| Equipment Type | Number | Heat Input/Day | Heat Input/Year | Boiler Rating | Fuel Type |
|---|---|---|---|---|---|

### User Defined Equipment

| Equipment Type | Number |
|---|---|

## 11.0 Vegetation

# 19260 190th Street Warehouse

**Los Angeles-South Coast County, Winter**

## 1.0 Project Characteristics

### 1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|---|---|---|---|---|---|
| General Office Building | 20.37 | 1000sqft | 0.13 | 20,370.00 | 0 |
| Manufacturing | 198.40 | 1000sqft | 4.55 | 198,400.00 | 0 |
| Unrefrigerated Warehouse-No Rail | 86.78 | 1000sqft | 1.99 | 86,780.00 | 0 |
| Other Non-Asphalt Surfaces | 0.90 | Acre | 0.90 | 39,204.00 | 0 |
| Parking Lot | 636.00 | Space | 5.72 | 254,400.00 | 0 |

### 1.2 Other Project Characteristics

| | | | | | |
|---|---|---|---|---|---|
| **Urbanization** | Urban | **Wind Speed (m/s)** | 2.2 | **Precipitation Freq (Days)** | 33 |
| **Climate Zone** | 8 | | | **Operational Year** | 2022 |
| **Utility Company** | Southern California Edison | | | | |
| **CO2 Intensity (lb/MWhr)** | 702.44 | **CH4 Intensity (lb/MWhr)** | 0.029 | **N2O Intensity (lb/MWhr)** | 0.006 |

### 1.3 User Entered Comments & Non-Default Data

19260 190th Street Warehouse - Los Angeles-South Coast County, Winter

Project Characteristics -

Land Use - 13.29 gross ac w/ (total bldg footrpint is 291TSF) 86.78TSF warehouse, 198.4TSF manufacturing, 20.37TSF office (includes ~14,550sf mezzanine), parking lot w/ 636 stalls, & rmdr detention basins/landscaping ~0.9 ac.

Construction Phase - Demolition anticipated to begin no earlier than mid-June 2020. All other site work & building construction anticipated to begin May 2021 and be completed by May 2022.

Off-road Equipment - CalEEMod default building construction timing decreased by ~33%; therefore, ~33% more equipement needed than CalEEMod defaults.

Off-road Equipment - Site Preparation of ~70% of site (~9.3 ac) to remove existing asphalt parking lot; therefore, only ~70% of CalEEMod default equipment needed for site preparation.

Trips and VMT -

Demolition - Demolition of an existing ~162,504 sf building.

Grading - Site Preparation of ~70% of site (~9.3 ac) to remove existing asphalt parking lot. ~19,930 CY import during grading.

Architectural Coating - SCAQMD Rule 1113 limits architectural coatings to 50g/L VOC for buildings & 100g/L VOC for parking lot striping.

Vehicle Trips - Per TIA, 1.74trips/TSF warehouse (non-PCE), 3.93trips/TSF manufacturing (non-PCE), & 9.74trips/TSf office. ITE10th Ed used Sat/Sun for warehouse & office. Truck trips 40 miles one-way. Trip % 20.4% C-W & 79.57% C-NW warehouse/manufacturing.

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation - ~0.02 miles NW Transit Rte 6 stop 190th/Honeywell & ~1.76 miles NE dwntwn Torrance. Sidewalks on/off site. LA County 1emp/1,306sf industrial & 1emp/302sf office = 285emp/6.68ac (job ac=bldg ftprnt only)= 42.7jobs/jb ac.

Energy Mitigation - Lighting that is ~34% more efficient than standard. EnergyStar appliances to be used on-site.

Water Mitigation - 20% indoor water reduction per CalGreen Standards. Water-efficient irrigation systems.

Waste Mitigation - AB 341 requires each jurisdiction in CA divert at least 75% of their waste away from landfills by 2020.

Fleet Mix - Revised vehicle mix per TIA of 79.57% autos, 3.46% 2 axle trucks, 4.64% 3 axle trucks, & 12.33% 4+ axle trucks for warehouse & manufacturing.

| Table Name | Column Name | Default Value | New Value |
|---|---|---|---|
| tblArchitecturalCoating | EF_Nonresidential_Exterior | 100.00 | 50.00 |
| tblArchitecturalCoating | EF_Nonresidential_Interior | 100.00 | 50.00 |
| tblConstDustMitigation | WaterUnpavedRoadVehicleSpeed | 0 | 15 |
| tblConstructionPhase | NumDays | 300.00 | 200.00 |
| tblConstructionPhase | NumDays | 20.00 | 30.00 |
| tblFleetMix | HHD | 0.03 | 0.12 |
| tblFleetMix | HHD | 0.03 | 0.12 |

| | | | |
|---|---|---|---|
| tblFleetMix | LDA | 0.55 | 0.47 |
| tblFleetMix | LDA | 0.55 | 0.47 |
| tblFleetMix | LDT1 | 0.04 | 0.04 |
| tblFleetMix | LDT1 | 0.04 | 0.04 |
| tblFleetMix | LDT2 | 0.20 | 0.18 |
| tblFleetMix | LDT2 | 0.20 | 0.18 |
| tblFleetMix | LHD1 | 0.02 | 0.02 |
| tblFleetMix | LHD1 | 0.02 | 0.02 |
| tblFleetMix | LHD2 | 6.1960e-003 | 9.7730e-003 |
| tblFleetMix | LHD2 | 6.1960e-003 | 9.7730e-003 |
| tblFleetMix | MCY | 5.1420e-003 | 4.4430e-003 |
| tblFleetMix | MCY | 5.1420e-003 | 4.4430e-003 |
| tblFleetMix | MDV | 0.12 | 0.10 |
| tblFleetMix | MDV | 0.12 | 0.10 |
| tblFleetMix | MH | 8.7600e-004 | 0.00 |
| tblFleetMix | MH | 8.7600e-004 | 0.00 |
| tblFleetMix | MHD | 0.02 | 0.05 |
| tblFleetMix | MHD | 0.02 | 0.05 |
| tblFleetMix | OBUS | 2.5150e-003 | 0.00 |
| tblFleetMix | OBUS | 2.5150e-003 | 0.00 |
| tblFleetMix | SBUS | 6.8700e-004 | 0.00 |
| tblFleetMix | SBUS | 6.8700e-004 | 0.00 |
| tblFleetMix | UBUS | 2.2010e-003 | 0.00 |
| tblFleetMix | UBUS | 2.2010e-003 | 0.00 |
| tblGrading | AcresOfGrading | 0.00 | 9.30 |
| tblGrading | MaterialImported | 0.00 | 19,930.00 |
| tblLandUse | LotAcreage | 0.47 | 0.13 |

| | | | |
|---|---|---|---|
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00 | 4.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 2.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00 | 2.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00 | 4.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 4.00 | 3.00 |
| tblVehicleTrips | CC_TTP | 28.00 | 0.00 |
| tblVehicleTrips | CNW_TTP | 13.00 | 79.57 |
| tblVehicleTrips | CNW_TTP | 41.00 | 79.57 |
| tblVehicleTrips | CW_TL | 16.60 | 40.00 |
| tblVehicleTrips | CW_TL | 16.60 | 40.00 |
| tblVehicleTrips | CW_TTP | 59.00 | 20.43 |
| tblVehicleTrips | CW_TTP | 59.00 | 20.43 |
| tblVehicleTrips | ST_TR | 2.46 | 2.21 |
| tblVehicleTrips | ST_TR | 1.49 | 3.93 |
| tblVehicleTrips | ST_TR | 1.68 | 0.15 |
| tblVehicleTrips | SU_TR | 1.05 | 0.70 |
| tblVehicleTrips | SU_TR | 0.62 | 3.93 |
| tblVehicleTrips | SU_TR | 1.68 | 0.06 |
| tblVehicleTrips | WD_TR | 11.03 | 9.74 |
| tblVehicleTrips | WD_TR | 3.82 | 3.93 |
| tblVehicleTrips | WD_TR | 1.68 | 1.74 |

## 2.0 Emissions Summary

## 2.1 Overall Construction (Maximum Daily Emission)

### Unmitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Year | lb/day | | | | | | | | | | lb/day | | | | | |
| 2020 | 3.7194 | 44.0175 | 24.8568 | 0.0692 | 8.8118 | 1.6945 | 10.5063 | 1.4325 | 1.5761 | 3.0086 | 0.0000 | 7,021.6606 | 7,021.6606 | 1.2863 | 0.0000 | 7,053.8170 |
| 2021 | 4.9955 | 69.0111 | 37.1527 | 0.1278 | 13.1758 | 2.0565 | 14.5772 | 6.7655 | 1.8946 | 8.0548 | 0.0000 | 13,128.0660 | 13,128.0660 | 2.4429 | 0.0000 | 13,189.1383 |
| 2022 | 55.9841 | 43.5499 | 52.8340 | 0.1205 | 4.1484 | 1.7994 | 5.9478 | 1.1144 | 1.6913 | 2.8057 | 0.0000 | 11,933.6939 | 11,933.6939 | 1.7599 | 0.0000 | 11,977.6921 |
| **Maximum** | **55.9841** | **69.0111** | **52.8340** | **0.1278** | **13.1758** | **2.0565** | **14.5772** | **6.7655** | **1.8946** | **8.0548** | **0.0000** | **13,128.0660** | **13,128.0660** | **2.4429** | **0.0000** | **13,189.1383** |

### Mitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Year | lb/day | | | | | | | | | | lb/day | | | | | |
| 2020 | 3.7194 | 44.0175 | 24.8568 | 0.0692 | 3.9330 | 1.6945 | 5.6275 | 0.6938 | 1.5761 | 2.2699 | 0.0000 | 7,021.6606 | 7,021.6606 | 1.2863 | 0.0000 | 7,053.8169 |
| 2021 | 4.9955 | 69.0111 | 37.1527 | 0.1278 | 5.2272 | 2.0565 | 7.1439 | 2.6621 | 1.8946 | 3.9513 | 0.0000 | 13,128.0660 | 13,128.0660 | 2.4429 | 0.0000 | 13,189.1383 |
| 2022 | 55.9841 | 43.5499 | 52.8340 | 0.1205 | 4.1484 | 1.7994 | 5.9478 | 1.1144 | 1.6913 | 2.8057 | 0.0000 | 11,933.6939 | 11,933.6939 | 1.7599 | 0.0000 | 11,977.6921 |
| **Maximum** | **55.9841** | **69.0111** | **52.8340** | **0.1278** | **5.2272** | **2.0565** | **7.1439** | **2.6621** | **1.8946** | **3.9513** | **0.0000** | **13,128.0660** | **13,128.0660** | **2.4429** | **0.0000** | **13,189.1383** |

19260 190th Street Warehouse - Los Angeles-South Coast County, Winter

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N20 | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Percent Reduction** | 0.00 | 0.00 | 0.00 | 0.00 | 49.08 | 0.00 | 39.68 | 52.00 | 0.00 | 34.91 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

## 2.2 Overall Operational

### Unmitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Area | 6.9612 | 8.8000e-004 | 0.0964 | 1.0000e-005 | | 3.4000e-004 | 3.4000e-004 | | 3.4000e-004 | 3.4000e-004 | | 0.2063 | 0.2063 | 5.4000e-004 | | 0.2199 |
| Energy | 0.1381 | 1.2554 | 1.0545 | 7.5300e-003 | | 0.0954 | 0.0954 | | 0.0954 | 0.0954 | | 1,506.4584 | 1,506.4584 | 0.0289 | 0.0276 | 1,515.4105 |
| Mobile | 2.5410 | 28.6712 | 33.1803 | 0.1630 | 10.6917 | 0.1335 | 10.8252 | 2.8735 | 0.1256 | 2.9990 | | 16,874.6474 | 16,874.6474 | 0.8275 | | 16,895.3337 |
| **Total** | **9.6403** | **29.9274** | **34.3312** | **0.1705** | **10.6917** | **0.2293** | **10.9209** | **2.8735** | **0.2213** | **3.0948** | | **18,381.3121** | **18,381.3121** | **0.8569** | **0.0276** | **18,410.9641** |

### Mitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Area | 6.9612 | 8.8000e-004 | 0.0964 | 1.0000e-005 | | 3.4000e-004 | 3.4000e-004 | | 3.4000e-004 | 3.4000e-004 | | 0.2063 | 0.2063 | 5.4000e-004 | | 0.2199 |
| Energy | 0.1381 | 1.2554 | 1.0545 | 7.5300e-003 | | 0.0954 | 0.0954 | | 0.0954 | 0.0954 | | 1,506.4584 | 1,506.4584 | 0.0289 | 0.0276 | 1,515.4105 |
| Mobile | 1.9366 | 21.4029 | 21.4106 | 0.0981 | 6.0859 | 0.0801 | 6.1660 | 1.6356 | 0.0754 | 1.7110 | | 10,170.6580 | 10,170.6580 | 0.5676 | | 10,184.8480 |
| **Total** | **9.0360** | **22.6592** | **22.5615** | **0.1056** | **6.0859** | **0.1759** | **6.2618** | **1.6356** | **0.1711** | **1.8067** | | **11,677.3227** | **11,677.3227** | **0.5970** | **0.0276** | **11,700.4784** |

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N20 | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Percent Reduction** | **6.27** | **24.29** | **34.28** | **38.06** | **43.08** | **23.29** | **42.66** | **43.08** | **22.69** | **41.62** | **0.00** | **36.47** | **36.47** | **30.33** | **0.00** | **36.45** |

## 3.0 Construction Detail

**Construction Phase**

| Phase Number | Phase Name | Phase Type | Start Date | End Date | Num Days Week | Num Days | Phase Description |
|---|---|---|---|---|---|---|---|
| 1 | Demolition | Demolition | 6/15/2020 | 7/10/2020 | 5 | 20 | |
| 2 | Site Preparation | Site Preparation | 5/1/2021 | 5/14/2021 | 5 | 10 | |
| 3 | Grading | Grading | 5/15/2021 | 6/25/2021 | 5 | 30 | |
| 4 | Building Construction | Building Construction | 6/26/2021 | 4/2/2022 | 5 | 200 | |
| 5 | Paving | Paving | 3/21/2022 | 4/15/2022 | 5 | 20 | |
| 6 | Architectural Coating | Architectural Coating | 3/22/2022 | 5/2/2022 | 5 | 30 | |

**Acres of Grading (Site Preparation Phase): 9.3**

**Acres of Grading (Grading Phase): 75**

**Acres of Paving: 6.62**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 458,325; Non-Residential Outdoor: 152,775; Striped Parking Area: 17,616 (Architectural Coating – sqft)**

**OffRoad Equipment**

19260 190th Street Warehouse - Los Angeles-South Coast County, Winter

| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|---|---|---|---|---|---|
| Demolition | Concrete/Industrial Saws | 1 | 8.00 | 81 | 0.73 |
| Demolition | Excavators | 3 | 8.00 | 158 | 0.38 |
| Demolition | Rubber Tired Dozers | 2 | 8.00 | 247 | 0.40 |
| Site Preparation | Rubber Tired Dozers | 2 | 8.00 | 247 | 0.40 |
| Site Preparation | Tractors/Loaders/Backhoes | 3 | 8.00 | 97 | 0.37 |
| Grading | Excavators | 2 | 8.00 | 158 | 0.38 |
| Grading | Graders | 1 | 8.00 | 187 | 0.41 |
| Grading | Rubber Tired Dozers | 1 | 8.00 | 247 | 0.40 |
| Grading | Scrapers | 2 | 8.00 | 367 | 0.48 |
| Grading | Tractors/Loaders/Backhoes | 2 | 8.00 | 97 | 0.37 |
| Building Construction | Cranes | 1 | 7.00 | 231 | 0.29 |
| Building Construction | Forklifts | 4 | 8.00 | 89 | 0.20 |
| Building Construction | Generator Sets | 2 | 8.00 | 84 | 0.74 |
| Building Construction | Tractors/Loaders/Backhoes | 4 | 7.00 | 97 | 0.37 |
| Building Construction | Welders | 1 | 8.00 | 46 | 0.45 |
| Paving | Pavers | 2 | 8.00 | 130 | 0.42 |
| Paving | Paving Equipment | 2 | 8.00 | 132 | 0.36 |
| Paving | Rollers | 2 | 8.00 | 80 | 0.38 |
| Architectural Coating | Air Compressors | 1 | 6.00 | 78 | 0.48 |

**Trips and VMT**

| Phase Name | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|---|---|---|---|---|---|---|---|---|---|---|
| Demolition | 6 | 15.00 | 0.00 | 739.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Site Preparation | 5 | 13.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Grading | 8 | 20.00 | 0.00 | 2,491.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Building Construction | 12 | 250.00 | 98.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Paving | 6 | 15.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Architectural Coating | 1 | 50.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |

## 3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

## 3.2 Demolition - 2020

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 7.9981 | 0.0000 | 7.9981 | 1.2110 | 0.0000 | 1.2110 | | | 0.0000 | | | 0.0000 |
| Off-Road | 3.3121 | 33.2010 | 21.7532 | 0.0388 | | 1.6587 | 1.6587 | | 1.5419 | 1.5419 | | 3,747.7049 | 3,747.7049 | 1.0580 | | 3,774.1536 |
| **Total** | **3.3121** | **33.2010** | **21.7532** | **0.0388** | **7.9981** | **1.6587** | **9.6568** | **1.2110** | **1.5419** | **2.7528** | | **3,747.7049** | **3,747.7049** | **1.0580** | | **3,774.1536** |

## 3.2 Demolition - 2020

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.3306 | 10.7622 | 2.5021 | 0.0287 | 0.6461 | 0.0344 | 0.6805 | 0.1771 | 0.0329 | 0.2100 | | 3,107.8426 | 3,107.8426 | 0.2231 | | 3,113.4194 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0767 | 0.0544 | 0.6015 | 1.6700e-003 | 0.1677 | 1.4000e-003 | 0.1691 | 0.0445 | 1.2900e-003 | 0.0458 | | 166.1131 | 166.1131 | 5.2400e-003 | | 166.2440 |
| **Total** | **0.4073** | **10.8165** | **3.1036** | **0.0304** | **0.8137** | **0.0358** | **0.8496** | **0.2216** | **0.0342** | **0.2558** | | **3,273.9556** | **3,273.9556** | **0.2283** | | **3,279.6633** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 3.1193 | 0.0000 | 3.1193 | 0.4723 | 0.0000 | 0.4723 | | | 0.0000 | | | 0.0000 |
| Off-Road | 3.3121 | 33.2010 | 21.7532 | 0.0388 | | 1.6587 | 1.6587 | | 1.5419 | 1.5419 | 0.0000 | 3,747.7049 | 3,747.7049 | 1.0580 | | 3,774.1536 |
| **Total** | **3.3121** | **33.2010** | **21.7532** | **0.0388** | **3.1193** | **1.6587** | **4.7780** | **0.4723** | **1.5419** | **2.0141** | **0.0000** | **3,747.7049** | **3,747.7049** | **1.0580** | | **3,774.1536** |

## 3.2 Demolition - 2020

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.3306 | 10.7622 | 2.5021 | 0.0287 | 0.6461 | 0.0344 | 0.6805 | 0.1771 | 0.0329 | 0.2100 | | 3,107.8426 | 3,107.8426 | 0.2231 | | 3,113.4194 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0767 | 0.0544 | 0.6015 | 1.6700e-003 | 0.1677 | 1.4000e-003 | 0.1691 | 0.0445 | 1.2900e-003 | 0.0458 | | 166.1131 | 166.1131 | 5.2400e-003 | | 166.2440 |
| **Total** | **0.4073** | **10.8165** | **3.1036** | **0.0304** | **0.8137** | **0.0358** | **0.8496** | **0.2216** | **0.0342** | **0.2558** | | **3,273.9556** | **3,273.9556** | **0.2283** | | **3,279.6633** |

## 3.3 Site Preparation - 2021

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 13.0304 | 0.0000 | 13.0304 | 6.7270 | 0.0000 | 6.7270 | | | 0.0000 | | | 0.0000 |
| Off-Road | 2.6545 | 27.6300 | 14.8563 | 0.0264 | | 1.4002 | 1.4002 | | 1.2882 | 1.2882 | | 2,557.4046 | 2,557.4046 | 0.8271 | | 2,578.0825 |
| **Total** | **2.6545** | **27.6300** | **14.8563** | **0.0264** | **13.0304** | **1.4002** | **14.4307** | **6.7270** | **1.2882** | **8.0152** | | **2,557.4046** | **2,557.4046** | **0.8271** | | **2,578.0825** |

## 3.3 Site Preparation - 2021

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0620 | 0.0424 | 0.4787 | 1.4000e-003 | 0.1453 | 1.1700e-003 | 0.1465 | 0.0385 | 1.0800e-003 | 0.0396 | | 139.3926 | 139.3926 | 4.1000e-003 | | 139.4952 |
| **Total** | **0.0620** | **0.0424** | **0.4787** | **1.4000e-003** | **0.1453** | **1.1700e-003** | **0.1465** | **0.0385** | **1.0800e-003** | **0.0396** | | **139.3926** | **139.3926** | **4.1000e-003** | | **139.4952** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 5.0819 | 0.0000 | 5.0819 | 2.6235 | 0.0000 | 2.6235 | | | 0.0000 | | | 0.0000 |
| Off-Road | 2.6545 | 27.6300 | 14.8563 | 0.0264 | | 1.4002 | 1.4002 | | 1.2882 | 1.2882 | 0.0000 | 2,557.4046 | 2,557.4046 | 0.8271 | | 2,578.0825 |
| **Total** | **2.6545** | **27.6300** | **14.8563** | **0.0264** | **5.0819** | **1.4002** | **6.4821** | **2.6235** | **1.2882** | **3.9117** | **0.0000** | **2,557.4046** | **2,557.4046** | **0.8271** | | **2,578.0825** |

## 3.3 Site Preparation - 2021

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0620 | 0.0424 | 0.4787 | 1.4000e-003 | 0.1453 | 1.1700e-003 | 0.1465 | 0.0385 | 1.0800e-003 | 0.0396 | | 139.3926 | 139.3926 | 4.1000e-003 | | 139.4952 |
| **Total** | **0.0620** | **0.0424** | **0.4787** | **1.4000e-003** | **0.1453** | **1.1700e-003** | **0.1465** | **0.0385** | **1.0800e-003** | **0.0396** | | **139.3926** | **139.3926** | **4.1000e-003** | | **139.4952** |

## 3.4 Grading - 2021

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 8.7485 | 0.0000 | 8.7485 | 3.6079 | 0.0000 | 3.6079 | | | 0.0000 | | | 0.0000 |
| Off-Road | 4.1912 | 46.3998 | 30.8785 | 0.0620 | | 1.9853 | 1.9853 | | 1.8265 | 1.8265 | | 6,007.0434 | 6,007.0434 | 1.9428 | | 6,055.6134 |
| **Total** | **4.1912** | **46.3998** | **30.8785** | **0.0620** | **8.7485** | **1.9853** | **10.7338** | **3.6079** | **1.8265** | **5.4344** | | **6,007.0434** | **6,007.0434** | **1.9428** | | **6,055.6134** |

## 3.4 Grading - 2021

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.7090 | 22.5460 | 5.5378 | 0.0637 | 1.4519 | 0.0694 | 1.5213 | 0.3980 | 0.0664 | 0.4644 | | 6,906.5723 | 6,906.5723 | 0.4938 | | 6,918.9169 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0954 | 0.0652 | 0.7365 | 2.1500e-003 | 0.2236 | 1.8100e-003 | 0.2254 | 0.0593 | 1.6600e-003 | 0.0610 | | 214.4502 | 214.4502 | 6.3100e-003 | | 214.6080 |
| **Total** | **0.8044** | **22.6112** | **6.2743** | **0.0658** | **1.6754** | **0.0712** | **1.7466** | **0.4573** | **0.0681** | **0.5253** | | **7,121.0225** | **7,121.0225** | **0.5001** | | **7,133.5249** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 3.4119 | 0.0000 | 3.4119 | 1.4071 | 0.0000 | 1.4071 | | | 0.0000 | | | 0.0000 |
| Off-Road | 4.1912 | 46.3998 | 30.8785 | 0.0620 | | 1.9853 | 1.9853 | | 1.8265 | 1.8265 | 0.0000 | 6,007.0434 | 6,007.0434 | 1.9428 | | 6,055.6134 |
| **Total** | **4.1912** | **46.3998** | **30.8785** | **0.0620** | **3.4119** | **1.9853** | **5.3972** | **1.4071** | **1.8265** | **3.2336** | **0.0000** | **6,007.0434** | **6,007.0434** | **1.9428** | | **6,055.6134** |

## 3.4 Grading - 2021

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.7090 | 22.5460 | 5.5378 | 0.0637 | 1.4519 | 0.0694 | 1.5213 | 0.3980 | 0.0664 | 0.4644 | | 6,906.5723 | 6,906.5723 | 0.4938 | | 6,918.9169 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0954 | 0.0652 | 0.7365 | 2.1500e-003 | 0.2236 | 1.8100e-003 | 0.2254 | 0.0593 | 1.6600e-003 | 0.0610 | | 214.4502 | 214.4502 | 6.3100e-003 | | 214.6080 |
| **Total** | **0.8044** | **22.6112** | **6.2743** | **0.0658** | **1.6754** | **0.0712** | **1.7466** | **0.4573** | **0.0681** | **0.5253** | | **7,121.0225** | **7,121.0225** | **0.5001** | | **7,133.5249** |

## 3.5 Building Construction - 2021

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 2.5515 | 23.4362 | 23.4055 | 0.0377 | | 1.3079 | 1.3079 | | 1.2360 | 1.2360 | | 3,587.7169 | 3,587.7169 | 0.7808 | | 3,607.2378 |
| **Total** | **2.5515** | **23.4362** | **23.4055** | **0.0377** | | **1.3079** | **1.3079** | | **1.2360** | **1.2360** | | **3,587.7169** | **3,587.7169** | **0.7808** | | **3,607.2378** |

## 3.5 Building Construction - 2021

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.3127 | 9.4951 | 2.7515 | 0.0245 | 0.6274 | 0.0201 | 0.6475 | 0.1806 | 0.0192 | 0.1999 | | 2,619.9862 | 2,619.9862 | 0.1691 | | 2,624.2146 |
| Worker | 1.1921 | 0.8154 | 9.2064 | 0.0269 | 2.7944 | 0.0226 | 2.8170 | 0.7411 | 0.0208 | 0.7619 | | 2,680.6277 | 2,680.6277 | 0.0789 | | 2,682.5997 |
| **Total** | **1.5048** | **10.3105** | **11.9579** | **0.0514** | **3.4218** | **0.0427** | **3.4645** | **0.9217** | **0.0400** | **0.9617** | | **5,300.6139** | **5,300.6139** | **0.2480** | | **5,306.8143** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 2.5515 | 23.4362 | 23.4055 | 0.0377 | | 1.3079 | 1.3079 | | 1.2360 | 1.2360 | 0.0000 | 3,587.7169 | 3,587.7169 | 0.7808 | | 3,607.2378 |
| **Total** | **2.5515** | **23.4362** | **23.4055** | **0.0377** | | **1.3079** | **1.3079** | | **1.2360** | **1.2360** | **0.0000** | **3,587.7169** | **3,587.7169** | **0.7808** | | **3,607.2378** |

## 3.5 Building Construction - 2021

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.3127 | 9.4951 | 2.7515 | 0.0245 | 0.6274 | 0.0201 | 0.6475 | 0.1806 | 0.0192 | 0.1999 | | 2,619.9862 | 2,619.9862 | 0.1691 | | 2,624.2146 |
| Worker | 1.1921 | 0.8154 | 9.2064 | 0.0269 | 2.7944 | 0.0226 | 2.8170 | 0.7411 | 0.0208 | 0.7619 | | 2,680.6277 | 2,680.6277 | 0.0789 | | 2,682.5997 |
| **Total** | **1.5048** | **10.3105** | **11.9579** | **0.0514** | **3.4218** | **0.0427** | **3.4645** | **0.9217** | **0.0400** | **0.9617** | | **5,300.6139** | **5,300.6139** | **0.2480** | | **5,306.8143** |

## 3.5 Building Construction - 2022

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 2.2940 | 21.0650 | 23.1513 | 0.0378 | | 1.1047 | 1.1047 | | 1.0449 | 1.0449 | | 3,588.9831 | 3,588.9831 | 0.7747 | | 3,608.3498 |
| **Total** | **2.2940** | **21.0650** | **23.1513** | **0.0378** | | **1.1047** | **1.1047** | | **1.0449** | **1.0449** | | **3,588.9831** | **3,588.9831** | **0.7747** | | **3,608.3498** |

## 3.5 Building Construction - 2022

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.2936 | 9.0238 | 2.6045 | 0.0243 | 0.6274 | 0.0176 | 0.6450 | 0.1807 | 0.0168 | 0.1975 | | 2,596.7087 | 2,596.7087 | 0.1632 | | 2,600.7886 |
| Worker | 1.1196 | 0.7364 | 8.4794 | 0.0260 | 2.7944 | 0.0219 | 2.8163 | 0.7411 | 0.0202 | 0.7612 | | 2,586.4236 | 2,586.4236 | 0.0712 | | 2,588.2041 |
| **Total** | **1.4132** | **9.7601** | **11.0840** | **0.0502** | **3.4218** | **0.0394** | **3.4613** | **0.9217** | **0.0370** | **0.9587** | | **5,183.1324** | **5,183.1324** | **0.2344** | | **5,188.9927** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 2.2940 | 21.0650 | 23.1513 | 0.0378 | | 1.1047 | 1.1047 | | 1.0449 | 1.0449 | 0.0000 | 3,588.9831 | 3,588.9831 | 0.7747 | | 3,608.3498 |
| **Total** | **2.2940** | **21.0650** | **23.1513** | **0.0378** | | **1.1047** | **1.1047** | | **1.0449** | **1.0449** | **0.0000** | **3,588.9831** | **3,588.9831** | **0.7747** | | **3,608.3498** |

## 3.5 Building Construction - 2022

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.2936 | 9.0238 | 2.6045 | 0.0243 | 0.6274 | 0.0176 | 0.6450 | 0.1807 | 0.0168 | 0.1975 | | 2,596.7087 | 2,596.7087 | 0.1632 | | 2,600.7886 |
| Worker | 1.1196 | 0.7364 | 8.4794 | 0.0260 | 2.7944 | 0.0219 | 2.8163 | 0.7411 | 0.0202 | 0.7612 | | 2,586.4236 | 2,586.4236 | 0.0712 | | 2,588.2041 |
| **Total** | **1.4132** | **9.7601** | **11.0840** | **0.0502** | **3.4218** | **0.0394** | **3.4613** | **0.9217** | **0.0370** | **0.9587** | | **5,183.1324** | **5,183.1324** | **0.2344** | | **5,188.9927** |

## 3.6 Paving - 2022

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 1.1028 | 11.1249 | 14.5805 | 0.0228 | | 0.5679 | 0.5679 | | 0.5225 | 0.5225 | | 2,207.6603 | 2,207.6603 | 0.7140 | | 2,225.5104 |
| Paving | 0.7493 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| **Total** | **1.8521** | **11.1249** | **14.5805** | **0.0228** | | **0.5679** | **0.5679** | | **0.5225** | **0.5225** | | **2,207.6603** | **2,207.6603** | **0.7140** | | **2,225.5104** |

## 3.6 Paving - 2022

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0672 | 0.0442 | 0.5088 | 1.5600e-003 | 0.1677 | 1.3100e-003 | 0.1690 | 0.0445 | 1.2100e-003 | 0.0457 | | 155.1854 | 155.1854 | 4.2700e-003 | | 155.2922 |
| **Total** | **0.0672** | **0.0442** | **0.5088** | **1.5600e-003** | **0.1677** | **1.3100e-003** | **0.1690** | **0.0445** | **1.2100e-003** | **0.0457** | | **155.1854** | **155.1854** | **4.2700e-003** | | **155.2922** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 1.1028 | 11.1249 | 14.5805 | 0.0228 | | 0.5679 | 0.5679 | | 0.5225 | 0.5225 | 0.0000 | 2,207.6603 | 2,207.6603 | 0.7140 | | 2,225.5104 |
| Paving | 0.7493 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| **Total** | **1.8521** | **11.1249** | **14.5805** | **0.0228** | | **0.5679** | **0.5679** | | **0.5225** | **0.5225** | **0.0000** | **2,207.6603** | **2,207.6603** | **0.7140** | | **2,225.5104** |

## 3.6 Paving - 2022

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0672 | 0.0442 | 0.5088 | 1.5600e-003 | 0.1677 | 1.3100e-003 | 0.1690 | 0.0445 | 1.2100e-003 | 0.0457 | | 155.1854 | 155.1854 | 4.2700e-003 | | 155.2922 |
| **Total** | **0.0672** | **0.0442** | **0.5088** | **1.5600e-003** | **0.1677** | **1.3100e-003** | **0.1690** | **0.0445** | **1.2100e-003** | **0.0457** | | **155.1854** | **155.1854** | **4.2700e-003** | | **155.2922** |

## 3.7 Architectural Coating - 2022

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Archit. Coating | 49.9292 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.2045 | 1.4085 | 1.8136 | 2.9700e-003 | | 0.0817 | 0.0817 | | 0.0817 | 0.0817 | | 281.4481 | 281.4481 | 0.0183 | | 281.9062 |
| **Total** | **50.1337** | **1.4085** | **1.8136** | **2.9700e-003** | | **0.0817** | **0.0817** | | **0.0817** | **0.0817** | | **281.4481** | **281.4481** | **0.0183** | | **281.9062** |

## 3.7 Architectural Coating - 2022

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.2239 | 0.1473 | 1.6959 | 5.1900e-003 | 0.5589 | 4.3700e-003 | 0.5633 | 0.1482 | 4.0300e-003 | 0.1523 | | 517.2847 | 517.2847 | 0.0142 | | 517.6408 |
| **Total** | **0.2239** | **0.1473** | **1.6959** | **5.1900e-003** | **0.5589** | **4.3700e-003** | **0.5633** | **0.1482** | **4.0300e-003** | **0.1523** | | **517.2847** | **517.2847** | **0.0142** | | **517.6408** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Archit. Coating | 49.9292 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.2045 | 1.4085 | 1.8136 | 2.9700e-003 | | 0.0817 | 0.0817 | | 0.0817 | 0.0817 | 0.0000 | 281.4481 | 281.4481 | 0.0183 | | 281.9062 |
| **Total** | **50.1337** | **1.4085** | **1.8136** | **2.9700e-003** | | **0.0817** | **0.0817** | | **0.0817** | **0.0817** | **0.0000** | **281.4481** | **281.4481** | **0.0183** | | **281.9062** |

### 3.7 Architectural Coating - 2022

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.2239 | 0.1473 | 1.6959 | 5.1900e-003 | 0.5589 | 4.3700e-003 | 0.5633 | 0.1482 | 4.0300e-003 | 0.1523 | | 517.2847 | 517.2847 | 0.0142 | | 517.6408 |
| **Total** | **0.2239** | **0.1473** | **1.6959** | **5.1900e-003** | **0.5589** | **4.3700e-003** | **0.5633** | **0.1482** | **4.0300e-003** | **0.1523** | | **517.2847** | **517.2847** | **0.0142** | | **517.6408** |

## 4.0 Operational Detail - Mobile

### 4.1 Mitigation Measures Mobile

Increase Density

Improve Destination Accessibility

Increase Transit Accessibility

Improve Pedestrian Network

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Mitigated | 1.9366 | 21.4029 | 21.4106 | 0.0981 | 6.0859 | 0.0801 | 6.1660 | 1.6356 | 0.0754 | 1.7110 | | 10,170.6580 | 10,170.6580 | 0.5676 | | 10,184.8480 |
| Unmitigated | 2.5410 | 28.6712 | 33.1803 | 0.1630 | 10.6917 | 0.1335 | 10.8252 | 2.8735 | 0.1256 | 2.9990 | | 16,874.6474 | 16,874.6474 | 0.8275 | | 16,895.3337 |

## 4.2 Trip Summary Information

| | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|---|---|---|---|---|---|
| Land Use | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| General Office Building | 198.40 | 45.02 | 14.26 | 483,815 | 275,397 |
| Manufacturing | 779.71 | 779.71 | 779.71 | 3,616,692 | 2,058,687 |
| Other Non-Asphalt Surfaces | 0.00 | 0.00 | 0.00 | | |
| Parking Lot | 0.00 | 0.00 | 0.00 | | |
| Unrefrigerated Warehouse-No Rail | 151.00 | 13.02 | 5.21 | 512,362 | 291,646 |
| Total | 1,129.11 | 837.75 | 799.18 | 4,612,869 | 2,625,729 |

## 4.3 Trip Type Information

| | Miles | | | Trip % | | | Trip Purpose % | | |
|---|---|---|---|---|---|---|---|---|---|
| Land Use | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary | Diverted | Pass-by |
| General Office Building | 16.60 | 8.40 | 6.90 | 33.00 | 48.00 | 19.00 | 77 | 19 | 4 |
| Manufacturing | 40.00 | 8.40 | 6.90 | 20.43 | 0.00 | 79.57 | 92 | 5 | 3 |
| Other Non-Asphalt Surfaces | 16.60 | 8.40 | 6.90 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |
| Parking Lot | 16.60 | 8.40 | 6.90 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |
| Unrefrigerated Warehouse-No | 40.00 | 8.40 | 6.90 | 20.43 | 0.00 | 79.57 | 92 | 5 | 3 |

### 4.4 Fleet Mix

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| General Office Building | 0.546501 | 0.044961 | 0.204016 | 0.120355 | 0.015740 | 0.006196 | 0.020131 | 0.030678 | 0.002515 | 0.002201 | 0.005142 | 0.000687 | 0.000876 |
| Manufacturing | 0.472164 | 0.038845 | 0.176265 | 0.103984 | 0.024827 | 0.009773 | 0.046400 | 0.123300 | 0.000000 | 0.000000 | 0.004443 | 0.000000 | 0.000000 |
| Other Non-Asphalt Surfaces | 0.546501 | 0.044961 | 0.204016 | 0.120355 | 0.015740 | 0.006196 | 0.020131 | 0.030678 | 0.002515 | 0.002201 | 0.005142 | 0.000687 | 0.000876 |
| Parking Lot | 0.546501 | 0.044961 | 0.204016 | 0.120355 | 0.015740 | 0.006196 | 0.020131 | 0.030678 | 0.002515 | 0.002201 | 0.005142 | 0.000687 | 0.000876 |
| Unrefrigerated Warehouse-No Rail | 0.472164 | 0.038845 | 0.176265 | 0.103984 | 0.024827 | 0.009773 | 0.046400 | 0.123300 | 0.000000 | 0.000000 | 0.004443 | 0.000000 | 0.000000 |

## 5.0 Energy Detail

Historical Energy Use: N

### 5.1 Mitigation Measures Energy

Install High Efficiency Lighting

Install Energy Efficient Appliances

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| NaturalGas Mitigated | 0.1381 | 1.2554 | 1.0545 | 7.5300e-003 | | 0.0954 | 0.0954 | | 0.0954 | 0.0954 | | 1,506.4584 | 1,506.4584 | 0.0289 | 0.0276 | 1,515.4105 |
| NaturalGas Unmitigated | 0.1381 | 1.2554 | 1.0545 | 7.5300e-003 | | 0.0954 | 0.0954 | | 0.0954 | 0.0954 | | 1,506.4584 | 1,506.4584 | 0.0289 | 0.0276 | 1,515.4105 |

## 5.2 Energy by Land Use - NaturalGas

**Unmitigated**

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| General Office Building | 510.087 | 5.5000e-003 | 0.0500 | 0.0420 | 3.0000e-004 | | 3.8000e-003 | 3.8000e-003 | | 3.8000e-003 | 3.8000e-003 | | 60.0103 | 60.0103 | 1.1500e-003 | 1.1000e-003 | 60.3669 |
| Manufacturing | 11360.4 | 0.1225 | 1.1138 | 0.9356 | 6.6800e-003 | | 0.0847 | 0.0847 | | 0.0847 | 0.0847 | | 1,336.5222 | 1,336.5222 | 0.0256 | 0.0245 | 1,344.4644 |
| Other Non-Asphalt Surfaces | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Unrefrigerated Warehouse-No Rail | 934.371 | 0.0101 | 0.0916 | 0.0770 | 5.5000e-004 | | 6.9600e-003 | 6.9600e-003 | | 6.9600e-003 | 6.9600e-003 | | 109.9260 | 109.9260 | 2.1100e-003 | 2.0200e-003 | 110.5792 |
| **Total** | | **0.1381** | **1.2554** | **1.0545** | **7.5300e-003** | | **0.0954** | **0.0954** | | **0.0954** | **0.0954** | | **1,506.4584** | **1,506.4584** | **0.0289** | **0.0276** | **1,515.4105** |

## 5.2 Energy by Land Use - NaturalGas

**Mitigated**

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| General Office Building | 0.510087 | 5.5000e-003 | 0.0500 | 0.0420 | 3.0000e-004 | | 3.8000e-003 | 3.8000e-003 | | 3.8000e-003 | 3.8000e-003 | | 60.0103 | 60.0103 | 1.1500e-003 | 1.1000e-003 | 60.3669 |
| Manufacturing | 11.3604 | 0.1225 | 1.1138 | 0.9356 | 6.6800e-003 | | 0.0847 | 0.0847 | | 0.0847 | 0.0847 | | 1,336.5222 | 1,336.5222 | 0.0256 | 0.0245 | 1,344.4644 |
| Other Non-Asphalt Surfaces | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Unrefrigerated Warehouse-No Rail | 0.934371 | 0.0101 | 0.0916 | 0.0770 | 5.5000e-004 | | 6.9600e-003 | 6.9600e-003 | | 6.9600e-003 | 6.9600e-003 | | 109.9260 | 109.9260 | 2.1100e-003 | 2.0200e-003 | 110.5792 |
| **Total** | | **0.1381** | **1.2554** | **1.0545** | **7.5300e-003** | | **0.0954** | **0.0954** | | **0.0954** | **0.0954** | | **1,506.4584** | **1,506.4584** | **0.0289** | **0.0276** | **1,515.4105** |

# 6.0 Area Detail

## 6.1 Mitigation Measures Area

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Mitigated | 6.9612 | 8.8000e-004 | 0.0964 | 1.0000e-005 | | 3.4000e-004 | 3.4000e-004 | | 3.4000e-004 | 3.4000e-004 | | 0.2063 | 0.2063 | 5.4000e-004 | | 0.2199 |
| Unmitigated | 6.9612 | 8.8000e-004 | 0.0964 | 1.0000e-005 | | 3.4000e-004 | 3.4000e-004 | | 3.4000e-004 | 3.4000e-004 | | 0.2063 | 0.2063 | 5.4000e-004 | | 0.2199 |

## 6.2 Area by SubCategory

**Unmitigated**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SubCategory | lb/day | | | | | | | | | | lb/day | | | | | |
| Architectural Coating | 0.7984 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 6.1539 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Landscaping | 8.9600e-003 | 8.8000e-004 | 0.0964 | 1.0000e-005 | | 3.4000e-004 | 3.4000e-004 | | 3.4000e-004 | 3.4000e-004 | | 0.2063 | 0.2063 | 5.4000e-004 | | 0.2199 |
| **Total** | **6.9612** | **8.8000e-004** | **0.0964** | **1.0000e-005** | | **3.4000e-004** | **3.4000e-004** | | **3.4000e-004** | **3.4000e-004** | | **0.2063** | **0.2063** | **5.4000e-004** | | **0.2199** |

### 6.2 Area by SubCategory

**Mitigated**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SubCategory | lb/day | | | | | | | | | | lb/day | | | | | |
| Architectural Coating | 0.7984 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 6.1539 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Landscaping | 8.9600e-003 | 8.8000e-004 | 0.0964 | 1.0000e-005 | | 3.4000e-004 | 3.4000e-004 | | 3.4000e-004 | 3.4000e-004 | | 0.2063 | 0.2063 | 5.4000e-004 | | 0.2199 |
| **Total** | **6.9612** | **8.8000e-004** | **0.0964** | **1.0000e-005** | | **3.4000e-004** | **3.4000e-004** | | **3.4000e-004** | **3.4000e-004** | | **0.2063** | **0.2063** | **5.4000e-004** | | **0.2199** |

## 7.0 Water Detail

### 7.1 Mitigation Measures Water

Apply Water Conservation Strategy

Use Water Efficient Irrigation System

## 8.0 Waste Detail

### 8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

## 9.0 Operational Offroad

| Equipment Type | Number | Hours/Day | Days/Year | Horse Power | Load Factor | Fuel Type |
|---|---|---|---|---|---|---|

## 10.0 Stationary Equipment

### Fire Pumps and Emergency Generators

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

### Boilers

| Equipment Type | Number | Heat Input/Day | Heat Input/Year | Boiler Rating | Fuel Type |
|---|---|---|---|---|---|

### User Defined Equipment

| Equipment Type | Number |
|---|---|

## 11.0 Vegetation

# APPENDIX C

# AERMOD MODEL PRINTOUTS

**Emission Assumptions** **DPM** Emissions
**19260 190th Street Warehouse**

**Facility Operations**

Buildout year: 2022

**Emission Factors**

1) Onsite Vehicle Emissions

a) Truck

(1) EMFAC2017

(a) Annual Meteorology

Temperature: 66 degF

Relative Humidity: 60%

(b) Calculations for Los Angeles County

(c) Truck Mix

4+ axle heavy-heavy duty diesel trucks (HHDT)

4 axle diesel trucks (MHDT)

2 axle diesel trucks (LHDT2)

(d) Onsite Truck Travel Speed: 10 mph

(e) Off-site Truck Travel Speed: 35 mph

(f) Idle speed: 0 mph

(g) Truck Idle time: 15 minutes per truck per day

2) Other Parameters

(a) Width of Volume Source: 12 feet

(b) Truck Operational Schedule 24 hours/day

(c) Height of Plume: 12 feet

| **19260 190th Street Warehouse** | | **Emission:** | **DPM** | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | |
| **Processes Modeled** | | **Build-out:** | **2022** | | | | | | | | | |
| | | | | | | | | | | | | |
| Onsite delivery traffic | | | | | | | | | | | | |
| Truck idling | | | | | | | | | | | | |
| Offsite delivery traffic | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| **Facilities in Operation** | | | | | | | | | | | | |
| **Location** | **Truck type** | **Daily trucks** | | | | | | | | | | |
| Project Site | HHDT | 115 | | | | | | | | | | |
| Project Site | MHDT | 43 | | | | | | | | | | |
| Project Site | LHDT2 | 32 | | | | | | | | | | |
| | | | | | | | | | | | | |
| **Total** | | **190** | | | | | | | | | | |
| | | | | | | | | | | | | |
| **Delivery Schedule:** | | | | | | | | | | | | |
| | 24 | **hrs/day, 52 weeks/year** | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| **Emission Factors 1 Year (2022)** | **Onsite** | **Offsite** | | | | | | | | | | |
| | **Exhaust** | **Exhaust** | **Idle** | | | | | | | | | |
| **Vehicle Class** | **(g/mi)** | **(g/mi)** | **(g/hr)** | | | | | | | | | |
| HHDT | 0.03710 | 0.01772 | 0.01503 | | | | | | | | | |
| MHDT | 0.06229 | 0.03426 | 0.14701 | | | | | | | | | |
| LHDT2 | 0.05169 | 0.01977 | 0.78700 | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| **Onsite Roadway Links Modeled** | | | | | | | | | | | | |
| **Link** | **Truck Type** | **Emission Factor (g/mi)** | **Trips per day (in and out)** | **Length (m)** | **Length (mi)** | **Daily Emissions Over the Link (g/day)** | **Emissions Over the Link (g/sec)** | **Emissions Over Link (lb/hr)** | **Daily Emissions (lbs/day)** | **Annual Avg Emissions Over Link (tons/yr)** | **Total Daily Emissions for all Vehicles (g/sec)** | |
| Outbound to Project Driveway 3 | HHDT | 0.03710 | 115 | 287.9 | 0.18 | 7.63E-01 | 8.83E-06 | 6.05E+00 | 1.68E-03 | 3.07E-04 | | |
| Outbound to Project Driveway 3 | MHDT | 0.06229 | 43 | 287.9 | 0.18 | 4.79E-01 | 5.54E-06 | 3.80E+00 | 1.06E-03 | 1.93E-04 | **8.90E-06** | 50% of trucks |
| Outbound to Project Driveway 3 | LHDT2 | 0.05169 | 32 | 287.9 | 0.18 | 2.96E-01 | 3.42E-06 | 2.35E+00 | 6.52E-04 | 1.19E-04 | | |
| | | | | | | | | | | | | |
| Inbound from Project Driveway 2 | HHDT | 0.03710 | 115 | 171.8 | 0.11 | 4.55E-01 | 5.27E-06 | 3.61E+00 | 1.00E-03 | 1.83E-04 | | |
| Inbound from Project Driveway 2 | MHDT | 0.06229 | 43 | 171.8 | 0.11 | 2.86E-01 | 3.31E-06 | 2.27E+00 | 6.30E-04 | 1.15E-04 | **5.31E-06** | 50% of trucks |
| Inbound from Project Driveway 2 | LHDT2 | 0.05169 | 32 | 171.8 | 0.11 | 1.77E-01 | 2.04E-06 | 1.40E+00 | 3.89E-04 | 7.10E-05 | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| **Truck Idling** | Idle time | | 15 | minutes | | | | | | | | |
| **Building/Location** | **Truck Type** | **Emission Factor (g/idle-hour)** | **Idling Time (min)** | **Daily Trucks** | **Total Emissions (g/day)** | **Max Hourly Emissions (g/sec)** | **Max Hourly Emissions (lb/hr)** | **Total Daily Emissions (lbs/day)** | **Total Emissions (tons/yr)** | **Total Emissions (tons/yr)** | | |
| At proposed building | HHDT | 0.01503 | 15 | 115 | 0.43 | 5.00E-06 | 3.97E-05 | 9.52E-04 | 1.74E-04 | | | |
| At proposed building | MHDT | 0.14701 | 15 | 43 | 1.58 | 1.83E-05 | 1.45E-04 | 3.48E-03 | 6.35E-04 | | 9.62E-05 | |
| At proposed building | LHDT2 | 0.78700 | 15 | 32 | 6.30 | 7.29E-05 | 5.78E-04 | 1.39E-02 | 2.53E-03 | | **1.60E-05** | per idling location |
| | | | | | | | | | | | | (6 total) |

## Offsite Roadway Links Modeled

| Link | Truck Type | Emission Factor (g/mi) | Trips per day | Length (m) | Length (mi) | Daily Emissions Over the Link (g/day) | Emissions Over the Link (g/sec) | Max Hourly Emissions Over Link (lb/hr) | Daily Emissions (lbs/day) | Annual Avg Emissions Over Link (tons/yr) | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Crenshaw Blvd NB n/o Project Driveway 3 | HHDT | 0.01772 | 115 | 424.5 | 0.26 | 5.37E-01 | 6.22E-06 | 4.26E+00 | 1.18E-03 | 2.16E-04 | 90% of outbound trucks |
| Crenshaw Blvd NB n/o Project Driveway 3 | MHDT | 0.03426 | 43 | 424.5 | 0.26 | 3.89E-01 | 4.50E-06 | 3.08E+00 | 8.56E-04 | 1.56E-04 | **1.14E-05** |
| Crenshaw Blvd NB n/o Project Driveway 3 | LHDT2 | 0.01977 | 32 | 424.5 | 0.26 | 1.67E-01 | 1.93E-06 | 1.32E+00 | 3.67E-04 | 6.71E-05 | |
| | | | | | | | | | | | |
| Crenshaw Blvd n/o 190th St | HHDT | 0.01772 | 115 | 272.9 | 0.17 | 3.45E-01 | 4.00E-06 | 2.74E+00 | 7.61E-04 | 1.39E-04 | 40% of outbound trucks |
| Crenshaw Blvd n/o 190th St | MHDT | 0.03426 | 43 | 272.9 | 0.17 | 2.50E-01 | 2.89E-06 | 1.98E+00 | 5.50E-04 | 1.00E-04 | **3.25E-06** |
| Crenshaw Blvd n/o 190th St | LHDT2 | 0.01977 | 32 | 272.9 | 0.17 | 1.07E-01 | 1.24E-06 | 8.50E-01 | 2.36E-04 | 4.31E-05 | |
| | | | | | | | | | | | |
| 190th St west of 405 fwy SB ramps | HHDT | 0.01772 | 115 | 1539.2 | 0.96 | 1.95E+00 | 2.26E-05 | 1.55E+01 | 4.29E-03 | 7.83E-04 | 65% of inbound trucks |
| 190th St west of 405 fwy SB ramps | MHDT | 0.03426 | 43 | 1539.2 | 0.96 | 1.41E+00 | 1.63E-05 | 1.12E+01 | 3.10E-03 | 5.66E-04 | **2.98E-05** |
| 190th St west of 405 fwy SB ramps | LHDT2 | 0.01977 | 32 | 1539.2 | 0.96 | 6.05E-01 | 7.00E-06 | 4.80E+00 | 1.33E-03 | 2.43E-04 | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

| **19260 190th Street Warehouse** | | **Emission:** | **DPM** | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | |
| **Processes Modeled** | | **Build-out:** | **2022** | | | | | | | | | |
| | | | | | | | | | | | | |
| Onsite delivery traffic | | | | | | | | | | | | |
| Truck idling | | | | | | | | | | | | |
| Offsite delivery traffic | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| **Facilities in Operation** | | | | | | | | | | | | |
| **Location** | **Truck type** | **Daily trucks** | | | | | | | | | | |
| Project Site | HHDT | 115 | | | | | | | | | | |
| Project Site | MHDT | 43 | | | | | | | | | | |
| Project Site | LHDT2 | 32 | | | | | | | | | | |
| | | | | | | | | | | | | |
| **Total** | | **190** | | | | | | | | | | |
| | | | | | | | | | | | | |
| **Delivery Schedule:** | | | | | | | | | | | | |
| | 24 | **hrs/day, 52weeks/year** | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| **Emission Factors 2 Year** | **Onsite** | **Offsite** | | | | | | | | | | |
| | **Exhaust** | **Exhaust** | **Idle** | | | | | | | | | |
| **Vehicle Class** | **(g/mi)** | **(g/mi)** | **(g/hr)** | | | | | | | | | |
| HHDT | 0.01139 | 0.00884 | 0.01244 | | | | | | | | | |
| MHDT | 0.00577 | 0.00394 | 0.04116 | | | | | | | | | |
| LHDT2 | 0.04861 | 0.01906 | 0.78826 | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| **Onsite Roadway Links Modeled** | | | | | | | | | | | | |
| **Link** | **Truck Type** | **Emission Factor (g/mi)** | **Trips per day (in and out)** | **Length (m)** | **Length (mi)** | **Daily Emissions Over the Link (g/day)** | **Emissions Over the Link (g/sec)** | **Emissions Over Link (lb/hr)** | **Daily Emissions (lbs/day)** | **Annual Avg Emissions Over Link (tons/yr)** | **Total Daily Emissions for all Vehicles (g/sec)** | |
| Outbound to Project Driveway 3 | HHDT | 0.01139 | 115 | 287.9 | 0.18 | 2.34E-01 | 2.71E-06 | 1.86E+00 | 5.16E-04 | 9.41E-05 | | |
| Outbound to Project Driveway 3 | MHDT | 0.00577 | 43 | 287.9 | 0.18 | 4.44E-02 | 5.13E-07 | 3.52E-01 | 9.77E-05 | 1.78E-05 | **3.22E-06** | 50% of trucks |
| Outbound to Project Driveway 3 | LHDT2 | 0.04861 | 32 | 287.9 | 0.18 | 2.78E-01 | 3.22E-06 | 2.21E+00 | 6.13E-04 | 1.12E-04 | | |
| | | | | | | | | | | | | |
| Inbound from Project Driveway 2 | HHDT | 0.01139 | 115 | 171.8 | 0.11 | 1.40E-01 | 1.62E-06 | 1.11E+00 | 3.08E-04 | 5.62E-05 | | |
| Inbound from Project Driveway 2 | MHDT | 0.00577 | 43 | 171.8 | 0.11 | 2.65E-02 | 3.06E-07 | 2.10E-01 | 5.83E-05 | 1.06E-05 | **1.92E-06** | 50% of trucks |
| Inbound from Project Driveway 2 | LHDT2 | 0.04861 | 32 | 171.8 | 0.11 | 1.66E-01 | 1.92E-06 | 1.32E+00 | 3.66E-04 | 6.67E-05 | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| **Truck Idling** | Idle time | | 15 minutes | | | | | | | | | |
| **Building/Location** | **Truck Type** | **Emission Factor (g/idle-hour)** | **Idling Time (min)** | **Daily Trucks** | **Total Emissions (g/day)** | **Max Hourly Emissions (g/sec)** | **Max Hourly Emissions (lb/hr)** | **Total Daily Emissions (lbs/day)** | **Total Emissions (tons/yr)** | **Total Emissions (tons/yr)** | | |
| At proposed building | HHDT | 0.01244 | 15 | 115 | 0.36 | 4.14E-06 | 3.28E-05 | 7.88E-04 | 1.44E-04 | | | |
| At proposed building | MHDT | 0.04116 | 15 | 43 | 0.44 | 5.12E-06 | 4.06E-05 | 9.75E-04 | 1.78E-04 | | 8.22E-05 | |
| At proposed building | LHDT2 | 0.78826 | 15 | 32 | 6.31 | 7.30E-05 | 5.79E-04 | 1.39E-02 | 2.53E-03 | | **1.37E-05** | per idling location |
| | | | | | | | | | | | | (6 total) |

## Offsite Roadway Links Modeled

| Link | Truck Type | Emission Factor (g/mi) | Trips per day | Length (m) | Length (mi) | Daily Emissions Over the Link (g/day) | Emissions Over the Link (g/sec) | Max Hourly Emissions Over Link (lb/hr) | Daily Emissions (lbs/day) | Annual Avg Emissions Over Link (tons/yr) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Crenshaw Blvd NB n/o Project Driveway 3 | HHDT | 0.00884 | 115 | 424.5 | 0.26 | 2.68E-01 | 3.10E-06 | 2.12E+00 | 5.90E-04 | 1.08E-04 | 90% of trucks | |
| Crenshaw Blvd NB n/o Project Driveway 3 | MHDT | 0.00394 | 43 | 424.5 | 0.26 | 4.47E-02 | 5.17E-07 | 3.55E-01 | 9.85E-05 | 1.80E-05 | **4.93E-06** | |
| Crenshaw Blvd NB n/o Project Driveway 3 | LHDT2 | 0.01906 | 32 | 424.5 | 0.26 | 1.61E-01 | 1.86E-06 | 1.28E+00 | 3.54E-04 | 6.46E-05 | | |
| | | | | | | | | | | | | |
| Crenshaw Blvd n/o 190th St | HHDT | 0.00884 | 115 | 272.9 | 0.17 | 1.72E-01 | 1.99E-06 | 1.37E+00 | 3.79E-04 | 6.93E-05 | 40% of trucks | |
| Crenshaw Blvd n/o 190th St | MHDT | 0.00394 | 43 | 272.9 | 0.17 | 2.87E-02 | 3.33E-07 | 2.28E-01 | 6.33E-05 | 1.16E-05 | **1.41E-06** | |
| Crenshaw Blvd n/o 190th St | LHDT2 | 0.01906 | 32 | 272.9 | 0.17 | 1.03E-01 | 1.20E-06 | 8.20E-01 | 2.28E-04 | 4.16E-05 | | |
| | | | | | | | | | | | | |
| 190th St west of 405 fwy SB ramps | HHDT | 0.00884 | 115 | 1539.2 | 0.96 | 9.72E-01 | 1.12E-05 | 7.70E+00 | 2.14E-03 | 3.91E-04 | 65% of inbound trucks | |
| 190th St west of 405 fwy SB ramps | MHDT | 0.00394 | 43 | 1539.2 | 0.96 | 1.62E-01 | 1.88E-06 | 1.29E+00 | 3.57E-04 | 6.52E-05 | **1.29E-05** | |
| 190th St west of 405 fwy SB ramps | LHDT2 | 0.01906 | 32 | 1539.2 | 0.96 | 5.83E-01 | 6.75E-06 | 4.62E+00 | 1.28E-03 | 2.34E-04 | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |

| **19260 190th Street Warehouse** | | **Emission:** | **DPM** | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | |
| **Processes Modeled** | | **Build-out:** | **2022** | | | | | | | | | |
| | | | | | | | | | | | | |
| Onsite delivery traffic | | | | | | | | | | | | |
| Truck idling | | | | | | | | | | | | |
| Offsite delivery traffic | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| **Facilities in Operation** | | | | | | | | | | | | |
| **Location** | **Truck type** | **Daily trucks** | | | | | | | | | | |
| Project Site | HHDT | 115 | | | | | | | | | | |
| Project Site | MHDT | 43 | | | | | | | | | | |
| Project Site | LHDT2 | 32 | | | | | | | | | | |
| | | | | | | | | | | | | |
| **Total** | | **190** | | | | | | | | | | |
| | | | | | | | | | | | | |
| **Delivery Schedule:** | | | | | | | | | | | | |
| | 24 | **hrs/day, 52weeks/year** | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| **Emission Factors 14 Year 2025-2039** | **Onsite** | **Offsite** | | | | | | | | | | |
| | **Exhaust** | **Exhaust** | **Idle** | | | | | | | | | |
| **Vehicle Class** | **(g/mi)** | **(g/mi)** | **(g/hr)** | | | | | | | | | |
| HHDT | 0.01036 | 0.00848 | 0.01098 | | | | | | | | | |
| MHDT | 0.00493 | 0.00386 | 0.01672 | | | | | | | | | |
| LHDT2 | 0.03705 | 0.01629 | 0.79363 | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| **Onsite Roadway Links Modeled** | | | | | | | | | | | | |
| **Link** | **Truck Type** | **Emission Factor (g/mi)** | **Trips per day (in and out)** | **Length (m)** | **Length (mi)** | **Daily Emissions Over the Link (g/day)** | **Emissions Over the Link (g/sec)** | **Emissions Over Link (lb/hr)** | **Daily Emissions (lbs/day)** | **Annual Avg Emissions Over Link (tons/yr)** | **Total Daily Emissions for all Vehicles (g/sec)** | |
| Outbound to Project Driveway 3 | HHDT | 0.01036 | 115 | 287.9 | 0.18 | 2.13E-01 | 2.47E-06 | 1.69E+00 | 4.70E-04 | 8.57E-05 | | |
| Outbound to Project Driveway 3 | MHDT | 0.00493 | 43 | 287.9 | 0.18 | 3.79E-02 | 4.39E-07 | 3.01E-01 | 8.35E-05 | 1.52E-05 | **2.68E-06** | 50% of trucks |
| Outbound to Project Driveway 3 | LHDT2 | 0.03705 | 32 | 287.9 | 0.18 | 2.12E-01 | 2.45E-06 | 1.68E+00 | 4.67E-04 | 8.52E-05 | | |
| | | | | | | | | | | | | |
| Inbound from Project Driveway 2 | HHDT | 0.01036 | 115 | 171.8 | 0.11 | 1.27E-01 | 1.47E-06 | 1.01E+00 | 2.80E-04 | 5.11E-05 | | |
| Inbound from Project Driveway 2 | MHDT | 0.00493 | 43 | 171.8 | 0.11 | 2.26E-02 | 2.62E-07 | 1.79E-01 | 4.98E-05 | 9.09E-06 | **1.60E-06** | 50% of trucks |
| Inbound from Project Driveway 2 | LHDT2 | 0.03705 | 32 | 171.8 | 0.11 | 1.27E-01 | 1.46E-06 | 1.00E+00 | 2.79E-04 | 5.09E-05 | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| **Truck Idling** | Idle time | | 15 minutes | | | | | | | | | |
| **Building/Location** | **Truck Type** | **Emission Factor (g/idle-hour)** | **Idling Time (min)** | **Daily Trucks** | **Total Emissions (g/day)** | **Max Hourly Emissions (g/sec)** | **Max Hourly Emissions (lb/hr)** | **Total Daily Emissions (lbs/day)** | **Total Emissions (tons/yr)** | **Total Emissions (tons/yr)** | | |
| At proposed building | HHDT | 0.01098 | 15 | 115 | 0.32 | 3.65E-06 | 2.90E-05 | 6.96E-04 | 1.27E-04 | | | |
| At proposed building | MHDT | 0.01672 | 15 | 43 | 0.18 | 2.08E-06 | 1.65E-05 | 3.96E-04 | 7.22E-05 | | 7.92E-05 | |
| At proposed building | LHDT2 | 0.79363 | 15 | 32 | 6.35 | 7.35E-05 | 5.83E-04 | 1.40E-02 | 2.55E-03 | | **1.32E-05** | per idling location |
| | | | | | | | | | | | | (6 total) |

## Offsite Roadway Links Modeled

| Link | Truck Type | Emission Factor (g/mi) | Trips per day | Length (m) | Length (mi) | Daily Emissions Over the Link (g/day) | Emissions Over the Link (g/sec) | Max Hourly Emissions Over Link (lb/hr) | Daily Emissions (lbs/day) | Annual Avg Emissions Over Link (tons/yr) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Crenshaw Blvd NB n/o Project Driveway 3 | HHDT | 0.00848 | 115 | 424.5 | 0.26 | 2.57E-01 | 2.98E-06 | 2.04E+00 | 5.66E-04 | 1.03E-04 | 90% of trucks | |
| Crenshaw Blvd NB n/o Project Driveway 3 | MHDT | 0.00386 | 43 | 424.5 | 0.26 | 4.37E-02 | 5.06E-07 | 3.47E-01 | 9.64E-05 | 1.76E-05 | **4.56E-06** | |
| Crenshaw Blvd NB n/o Project Driveway 3 | LHDT2 | 0.01629 | 32 | 424.5 | 0.26 | 1.37E-01 | 1.59E-06 | 1.09E+00 | 3.03E-04 | 5.52E-05 | | |
| | | | | | | | | | | | | |
| Crenshaw Blvd n/o 190th St | HHDT | 0.00848 | 115 | 272.9 | 0.17 | 1.65E-01 | 1.91E-06 | 1.31E+00 | 3.64E-04 | 6.64E-05 | 40% of trucks | |
| Crenshaw Blvd n/o 190th St | MHDT | 0.00386 | 43 | 272.9 | 0.17 | 2.81E-02 | 3.26E-07 | 2.23E-01 | 6.19E-05 | 1.13E-05 | **1.30E-06** | |
| Crenshaw Blvd n/o 190th St | LHDT2 | 0.01629 | 32 | 272.9 | 0.17 | 8.83E-02 | 1.02E-06 | 7.01E-01 | 1.95E-04 | 3.55E-05 | | |
| | | | | | | | | | | | | |
| 190th St west of 405 fwy SB ramps | HHDT | 0.00848 | 115 | 1539.2 | 0.96 | 9.32E-01 | 1.08E-05 | 7.39E+00 | 2.05E-03 | 3.75E-04 | 65% of inbound trucks | |
| 190th St west of 405 fwy SB ramps | MHDT | 0.00386 | 43 | 1539.2 | 0.96 | 1.59E-01 | 1.84E-06 | 1.26E+00 | 3.49E-04 | 6.38E-05 | **1.20E-05** | |
| 190th St west of 405 fwy SB ramps | LHDT2 | 0.01629 | 32 | 1539.2 | 0.96 | 4.98E-01 | 5.77E-06 | 3.95E+00 | 1.10E-03 | 2.00E-04 | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |

| **19260 190th Street Warehouse** | | **Emission:** | **DPM** | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | |
| **Processes Modeled** | | **Build-out:** | **2022** | | | | | | | | | |
| | | | | | | | | | | | | |
| Onsite delivery traffic | | | | | | | | | | | | |
| Truck idling | | | | | | | | | | | | |
| Offsite delivery traffic | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| **Facilities in Operation** | | | | | | | | | | | | |
| **Location** | **Truck type** | **Daily trucks** | | | | | | | | | | |
| Project Site | HHDT | 115 | | | | | | | | | | |
| Project Site | MHDT | 43 | | | | | | | | | | |
| Project Site | LHDT2 | 32 | | | | | | | | | | |
| | | | | | | | | | | | | |
| **Total** | | **190** | | | | | | | | | | |
| | | | | | | | | | | | | |
| **Delivery Schedule:** | | | | | | | | | | | | |
| | 24 | **hrs/day, 52weeks/year** | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| **Emission Factors 14 Year 2040-2053** | **Onsite** | **Offsite** | | | | | | | | | | |
| | **Exhaust** | **Exhaust** | **Idle** | | | | | | | | | |
| **Vehicle Class** | **(g/mi)** | **(g/mi)** | **(g/hr)** | | | | | | | | | |
| HHDT | 0.00958 | 0.00810 | 0.01015 | | | | | | | | | |
| MHDT | 0.00435 | 0.00368 | 0.00774 | | | | | | | | | |
| LHDT2 | 0.02916 | 0.01434 | 0.79427 | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| **Onsite Roadway Links Modeled** | | | | | | | | | | | | |
| **Link** | **Truck Type** | **Emission Factor (g/mi)** | **Trips per day (in and out)** | **Length (m)** | **Length (mi)** | **Daily Emissions Over the Link (g/day)** | **Emissions Over the Link (g/sec)** | **Emissions Over Link (lb/hr)** | **Daily Emissions (lbs/day)** | **Annual Avg Emissions Over Link (tons/yr)** | **Total Daily Emissions for all Vehicles (g/sec)** | |
| Outbound to Project Driveway 3 | HHDT | 0.00958 | 115 | 287.9 | 0.18 | 1.97E-01 | 2.28E-06 | 1.56E+00 | 4.34E-04 | 7.92E-05 | | |
| Outbound to Project Driveway 3 | MHDT | 0.00435 | 43 | 287.9 | 0.18 | 3.35E-02 | 3.87E-07 | 2.65E-01 | 7.37E-05 | 1.35E-05 | **2.30E-06** | 50% of trucks |
| Outbound to Project Driveway 3 | LHDT2 | 0.02916 | 32 | 287.9 | 0.18 | 1.67E-01 | 1.93E-06 | 1.32E+00 | 3.68E-04 | 6.71E-05 | | |
| | | | | | | | | | | | | |
| Inbound from Project Driveway 2 | HHDT | 0.00958 | 115 | 171.8 | 0.11 | 1.18E-01 | 1.36E-06 | 9.32E-01 | 2.59E-04 | 4.73E-05 | | |
| Inbound from Project Driveway 2 | MHDT | 0.00435 | 43 | 171.8 | 0.11 | 2.00E-02 | 2.31E-07 | 1.58E-01 | 4.40E-05 | 8.03E-06 | **1.37E-06** | 50% of trucks |
| Inbound from Project Driveway 2 | LHDT2 | 0.02916 | 32 | 171.8 | 0.11 | 9.96E-02 | 1.15E-06 | 7.90E-01 | 2.19E-04 | 4.00E-05 | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| **Truck Idling** | Idle time | | 15 | minutes | | | | | | | | |
| **Building/Location** | **Truck Type** | **Emission Factor (g/idle-hour)** | **Idling Time (min)** | **Daily Trucks** | **Total Emissions (g/day)** | **Max Hourly Emissions (g/sec)** | **Max Hourly Emissions (lb/hr)** | **Total Daily Emissions (lbs/day)** | **Total Emissions (tons/yr)** | **Total Emissions (tons/yr)** | | |
| At proposed building | HHDT | 0.01015 | 15 | 115 | 0.29 | 3.38E-06 | 2.68E-05 | 6.43E-04 | 1.17E-04 | | | |
| At proposed building | MHDT | 0.00774 | 15 | 43 | 0.08 | 9.63E-07 | 7.64E-06 | 1.83E-04 | 3.35E-05 | | 7.79E-05 | |
| At proposed building | LHDT2 | 0.79427 | 15 | 32 | 6.35 | 7.35E-05 | 5.83E-04 | 1.40E-02 | 2.55E-03 | | **1.30E-05** | per idling location |
| | | | | | | | | | | | | (6 total) |

## Offsite Roadway Links Modeled

| Link | Truck Type | Emission Factor (g/mi) | Trips per day | Length (m) | Length (mi) | Daily Emissions Over the Link (g/day) | Emissions Over the Link (g/sec) | Max Hourly Emissions Over Link (lb/hr) | Daily Emissions (lbs/day) | Annual Avg Emissions Over Link (tons/yr) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Crenshaw Blvd NB n/o Project Driveway 3 | HHDT | 0.00810 | 115 | 424.5 | 0.26 | 2.46E-01 | 2.84E-06 | 1.95E+00 | 5.41E-04 | 9.88E-05 | 90% of trucks | |
| Crenshaw Blvd NB n/o Project Driveway 3 | MHDT | 0.00368 | 43 | 424.5 | 0.26 | 4.17E-02 | 4.83E-07 | 3.31E-01 | 9.18E-05 | 1.68E-05 | **4.25E-06** | |
| Crenshaw Blvd NB n/o Project Driveway 3 | LHDT2 | 0.01434 | 32 | 424.5 | 0.26 | 1.21E-01 | 1.40E-06 | 9.60E-01 | 2.67E-04 | 4.87E-05 | | |
| | | | | | | | | | | | | |
| Crenshaw Blvd n/o 190th St | HHDT | 0.00810 | 115 | 272.9 | 0.17 | 1.58E-01 | 1.83E-06 | 1.25E+00 | 3.48E-04 | 6.35E-05 | 40% of trucks | |
| Crenshaw Blvd n/o 190th St | MHDT | 0.00368 | 43 | 272.9 | 0.17 | 2.68E-02 | 3.10E-07 | 2.13E-01 | 5.90E-05 | 1.08E-05 | **1.22E-06** | |
| Crenshaw Blvd n/o 190th St | LHDT2 | 0.01434 | 32 | 272.9 | 0.17 | 7.78E-02 | 9.01E-07 | 6.17E-01 | 1.71E-04 | 3.13E-05 | | |
| | | | | | | | | | | | | |
| 190th St west of 405 fwy SB ramps | HHDT | 0.00810 | 115 | 1539.2 | 0.96 | 8.91E-01 | 1.03E-05 | 7.06E+00 | 1.96E-03 | 3.58E-04 | 65% of inbound trucks | |
| 190th St west of 405 fwy SB ramps | MHDT | 0.00368 | 43 | 1539.2 | 0.96 | 1.51E-01 | 1.75E-06 | 1.20E+00 | 3.33E-04 | 6.08E-05 | **1.11E-05** | |
| 190th St west of 405 fwy SB ramps | LHDT2 | 0.01434 | 32 | 1539.2 | 0.96 | 4.39E-01 | 5.08E-06 | 3.48E+00 | 9.67E-04 | 1.76E-04 | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |

```
** Lakes Environmental AERMOD MPI
**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 9.9.0
** Lakes Environmental Software Inc.
** Date: 5/15/2020
** File: C:\Lakes\AERMOD View\190th Street Warehouse 2022\190th Street Warehouse 2022.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE 190th St Warehouse 2022
   TITLETWO DPM concentrations
   MODELOPT DFAULT CONC
   AVERTIME PERIOD
   URBANOPT 9818605 Los_Angeles_County_Population
   POLLUTID DPM
   RUNORNOT RUN
   ERRORFIL "190th Street Warehouse 2022.err"
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION STCK1        POINT      377375.140  3747396.430       19.240
** DESCRSRC Idling location
   LOCATION STCK2        POINT      377406.010  3747397.404       19.450
** DESCRSRC Idling location
   LOCATION STCK3        POINT      377432.659  3747397.729       19.590
** DESCRSRC Idling location
   LOCATION STCK4        POINT      377463.533  3747397.729       19.800
** DESCRSRC Idling location
   LOCATION STCK5        POINT      377492.132  3747397.729       20.080
** DESCRSRC Idling location
   LOCATION STCK6        POINT      377521.381  3747398.054       20.590
** DESCRSRC Idling location
** ------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
```

```
** LINE VOLUME Source ID = SLINE1
** DESCRSRC Onsite travel to driveway 3
** PREFIX
** Length of Side = 3.66
** Configuration = Adjacent
** Emission Rate = 8.9E-06
** Elevated
** Building Height = 10.97
** SZINIT = 5.10
** Nodes = 2
** 377309.543, 3747422.669, 18.82, 0.00, 1.70
** 377597.430, 3747424.019, 20.83, 0.00, 1.70
** ----------------------------------------------------------------------
   LOCATION L0000001     VOLUME   377311.371 3747422.678 18.96
   LOCATION L0000002     VOLUME   377315.029 3747422.695 18.99
   LOCATION L0000003     VOLUME   377318.687 3747422.712 19.02
   LOCATION L0000004     VOLUME   377322.344 3747422.729 19.03
   LOCATION L0000005     VOLUME   377326.002 3747422.746 19.04
   LOCATION L0000006     VOLUME   377329.659 3747422.763 19.06
   LOCATION L0000007     VOLUME   377333.317 3747422.781 19.07
   LOCATION L0000008     VOLUME   377336.974 3747422.798 19.08
   LOCATION L0000009     VOLUME   377340.632 3747422.815 19.09
   LOCATION L0000010     VOLUME   377344.289 3747422.832 19.10
   LOCATION L0000011     VOLUME   377347.947 3747422.849 19.13
   LOCATION L0000012     VOLUME   377351.605 3747422.866 19.17
   LOCATION L0000013     VOLUME   377355.262 3747422.883 19.20
   LOCATION L0000014     VOLUME   377358.920 3747422.901 19.23
   LOCATION L0000015     VOLUME   377362.577 3747422.918 19.26
   LOCATION L0000016     VOLUME   377366.235 3747422.935 19.30
   LOCATION L0000017     VOLUME   377369.892 3747422.952 19.33
   LOCATION L0000018     VOLUME   377373.550 3747422.969 19.35
   LOCATION L0000019     VOLUME   377377.208 3747422.986 19.38
   LOCATION L0000020     VOLUME   377380.865 3747423.003 19.40
   LOCATION L0000021     VOLUME   377384.523 3747423.021 19.42
   LOCATION L0000022     VOLUME   377388.180 3747423.038 19.45
   LOCATION L0000023     VOLUME   377391.838 3747423.055 19.47
   LOCATION L0000024     VOLUME   377395.495 3747423.072 19.50
   LOCATION L0000025     VOLUME   377399.153 3747423.089 19.52
   LOCATION L0000026     VOLUME   377402.810 3747423.106 19.55
   LOCATION L0000027     VOLUME   377406.468 3747423.123 19.57
   LOCATION L0000028     VOLUME   377410.126 3747423.141 19.59
   LOCATION L0000029     VOLUME   377413.783 3747423.158 19.62
   LOCATION L0000030     VOLUME   377417.441 3747423.175 19.64
   LOCATION L0000031     VOLUME   377421.098 3747423.192 19.67
   LOCATION L0000032     VOLUME   377424.756 3747423.209 19.70
   LOCATION L0000033     VOLUME   377428.413 3747423.226 19.72
   LOCATION L0000034     VOLUME   377432.071 3747423.243 19.75
   LOCATION L0000035     VOLUME   377435.728 3747423.261 19.78
   LOCATION L0000036     VOLUME   377439.386 3747423.278 19.80
   LOCATION L0000037     VOLUME   377443.044 3747423.295 19.83
   LOCATION L0000038     VOLUME   377446.701 3747423.312 19.86
```

```
   LOCATION L0000039     VOLUME   377450.359 3747423.329 19.88
   LOCATION L0000040     VOLUME   377454.016 3747423.346 19.90
   LOCATION L0000041     VOLUME   377457.674 3747423.363 19.92
   LOCATION L0000042     VOLUME   377461.331 3747423.381 19.94
   LOCATION L0000043     VOLUME   377464.989 3747423.398 19.96
   LOCATION L0000044     VOLUME   377468.647 3747423.415 19.98
   LOCATION L0000045     VOLUME   377472.304 3747423.432 20.00
   LOCATION L0000046     VOLUME   377475.962 3747423.449 20.03
   LOCATION L0000047     VOLUME   377479.619 3747423.466 20.06
   LOCATION L0000048     VOLUME   377483.277 3747423.483 20.08
   LOCATION L0000049     VOLUME   377486.934 3747423.501 20.11
   LOCATION L0000050     VOLUME   377490.592 3747423.518 20.14
   LOCATION L0000051     VOLUME   377494.249 3747423.535 20.16
   LOCATION L0000052     VOLUME   377497.907 3747423.552 20.19
   LOCATION L0000053     VOLUME   377501.565 3747423.569 20.20
   LOCATION L0000054     VOLUME   377505.222 3747423.586 20.21
   LOCATION L0000055     VOLUME   377508.880 3747423.604 20.22
   LOCATION L0000056     VOLUME   377512.537 3747423.621 20.23
   LOCATION L0000057     VOLUME   377516.195 3747423.638 20.23
   LOCATION L0000058     VOLUME   377519.852 3747423.655 20.24
   LOCATION L0000059     VOLUME   377523.510 3747423.672 20.24
   LOCATION L0000060     VOLUME   377527.167 3747423.689 20.28
   LOCATION L0000061     VOLUME   377530.825 3747423.706 20.33
   LOCATION L0000062     VOLUME   377534.483 3747423.724 20.38
   LOCATION L0000063     VOLUME   377538.140 3747423.741 20.43
   LOCATION L0000064     VOLUME   377541.798 3747423.758 20.48
   LOCATION L0000065     VOLUME   377545.455 3747423.775 20.53
   LOCATION L0000066     VOLUME   377549.113 3747423.792 20.58
   LOCATION L0000067     VOLUME   377552.770 3747423.809 20.59
   LOCATION L0000068     VOLUME   377556.428 3747423.826 20.57
   LOCATION L0000069     VOLUME   377560.085 3747423.844 20.56
   LOCATION L0000070     VOLUME   377563.743 3747423.861 20.54
   LOCATION L0000071     VOLUME   377567.401 3747423.878 20.53
   LOCATION L0000072     VOLUME   377571.058 3747423.895 20.52
   LOCATION L0000073     VOLUME   377574.716 3747423.912 20.50
   LOCATION L0000074     VOLUME   377578.373 3747423.929 20.46
   LOCATION L0000075     VOLUME   377582.031 3747423.946 20.42
   LOCATION L0000076     VOLUME   377585.688 3747423.964 20.37
   LOCATION L0000077     VOLUME   377589.346 3747423.981 20.32
   LOCATION L0000078     VOLUME   377593.004 3747423.998 20.27
   LOCATION L0000079     VOLUME   377596.661 3747424.015 20.23
** End of LINE VOLUME Source ID = SLINE1
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE2
** DESCRSRC Onsite travel from driveway 2
** PREFIX
** Length of Side = 3.66
** Configuration = Adjacent
** Emission Rate = 5.31E-06
** Elevated
```

```
** Building Height = 10.97
** SZINIT = 5.10
** Nodes = 2
** 377606.877, 3747423.569, 20.16, 0.00, 1.70
** 377607.327, 3747251.736, 19.20, 0.00, 1.70
** ------------------------------------------------------------------
   LOCATION L0000121     VOLUME   377606.881 3747421.740 20.14
   LOCATION L0000122     VOLUME   377606.891 3747418.082 20.19
   LOCATION L0000123     VOLUME   377606.901 3747414.425 20.23
   LOCATION L0000124     VOLUME   377606.910 3747410.767 20.28
   LOCATION L0000125     VOLUME   377606.920 3747407.110 20.32
   LOCATION L0000126     VOLUME   377606.929 3747403.452 20.34
   LOCATION L0000127     VOLUME   377606.939 3747399.794 20.34
   LOCATION L0000128     VOLUME   377606.948 3747396.137 20.33
   LOCATION L0000129     VOLUME   377606.958 3747392.479 20.33
   LOCATION L0000130     VOLUME   377606.968 3747388.822 20.33
   LOCATION L0000131     VOLUME   377606.977 3747385.164 20.33
   LOCATION L0000132     VOLUME   377606.987 3747381.507 20.33
   LOCATION L0000133     VOLUME   377606.996 3747377.849 20.32
   LOCATION L0000134     VOLUME   377607.006 3747374.191 20.32
   LOCATION L0000135     VOLUME   377607.016 3747370.534 20.26
   LOCATION L0000136     VOLUME   377607.025 3747366.876 20.20
   LOCATION L0000137     VOLUME   377607.035 3747363.219 20.14
   LOCATION L0000138     VOLUME   377607.044 3747359.561 20.08
   LOCATION L0000139     VOLUME   377607.054 3747355.903 20.03
   LOCATION L0000140     VOLUME   377607.063 3747352.246 19.97
   LOCATION L0000141     VOLUME   377607.073 3747348.588 19.91
   LOCATION L0000142     VOLUME   377607.083 3747344.931 19.86
   LOCATION L0000143     VOLUME   377607.092 3747341.273 19.82
   LOCATION L0000144     VOLUME   377607.102 3747337.615 19.78
   LOCATION L0000145     VOLUME   377607.111 3747333.958 19.75
   LOCATION L0000146     VOLUME   377607.121 3747330.300 19.72
   LOCATION L0000147     VOLUME   377607.130 3747326.643 19.69
   LOCATION L0000148     VOLUME   377607.140 3747322.985 19.66
   LOCATION L0000149     VOLUME   377607.150 3747319.328 19.63
   LOCATION L0000150     VOLUME   377607.159 3747315.670 19.60
   LOCATION L0000151     VOLUME   377607.169 3747312.012 19.58
   LOCATION L0000152     VOLUME   377607.178 3747308.355 19.60
   LOCATION L0000153     VOLUME   377607.188 3747304.697 19.63
   LOCATION L0000154     VOLUME   377607.197 3747301.040 19.65
   LOCATION L0000155     VOLUME   377607.207 3747297.382 19.67
   LOCATION L0000156     VOLUME   377607.217 3747293.724 19.69
   LOCATION L0000157     VOLUME   377607.226 3747290.067 19.71
   LOCATION L0000158     VOLUME   377607.236 3747286.409 19.73
   LOCATION L0000159     VOLUME   377607.245 3747282.752 19.75
   LOCATION L0000160     VOLUME   377607.255 3747279.094 19.70
   LOCATION L0000161     VOLUME   377607.264 3747275.436 19.64
   LOCATION L0000162     VOLUME   377607.274 3747271.779 19.57
   LOCATION L0000163     VOLUME   377607.284 3747268.121 19.50
   LOCATION L0000164     VOLUME   377607.293 3747264.464 19.43
   LOCATION L0000165     VOLUME   377607.303 3747260.806 19.37
```

```
   LOCATION L0000166     VOLUME   377607.312 3747257.149 19.30
   LOCATION L0000167     VOLUME   377607.322 3747253.491 19.23
** End of LINE VOLUME Source ID = SLINE2
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE3
** DESCRSRC Crenshaw Blvd NB n/o Project Driveway 3
** PREFIX
** Length of Side = 3.66
** Configuration = Adjacent
** Emission Rate = 0.0000114
** Elevated
** Vertical Dimension = 3.66
** SZINIT = 0.85
** Nodes = 2
** 377299.844, 3747422.000, 18.66, 0.00, 1.70
** 377297.707, 3747846.534, 20.45, 0.00, 1.70
** ----------------------------------------------------------------------
   LOCATION L0000168     VOLUME   377299.835 3747423.829 18.87
   LOCATION L0000169     VOLUME   377299.816 3747427.486 18.92
   LOCATION L0000170     VOLUME   377299.798 3747431.144 18.98
   LOCATION L0000171     VOLUME   377299.780 3747434.801 19.03
   LOCATION L0000172     VOLUME   377299.761 3747438.459 19.08
   LOCATION L0000173     VOLUME   377299.743 3747442.117 19.09
   LOCATION L0000174     VOLUME   377299.724 3747445.774 19.08
   LOCATION L0000175     VOLUME   377299.706 3747449.432 19.06
   LOCATION L0000176     VOLUME   377299.688 3747453.089 19.04
   LOCATION L0000177     VOLUME   377299.669 3747456.747 19.03
   LOCATION L0000178     VOLUME   377299.651 3747460.404 19.01
   LOCATION L0000179     VOLUME   377299.632 3747464.062 19.00
   LOCATION L0000180     VOLUME   377299.614 3747467.719 18.98
   LOCATION L0000181     VOLUME   377299.595 3747471.377 18.97
   LOCATION L0000182     VOLUME   377299.577 3747475.035 19.00
   LOCATION L0000183     VOLUME   377299.559 3747478.692 19.04
   LOCATION L0000184     VOLUME   377299.540 3747482.350 19.07
   LOCATION L0000185     VOLUME   377299.522 3747486.007 19.11
   LOCATION L0000186     VOLUME   377299.503 3747489.665 19.14
   LOCATION L0000187     VOLUME   377299.485 3747493.322 19.17
   LOCATION L0000188     VOLUME   377299.467 3747496.980 19.21
   LOCATION L0000189     VOLUME   377299.448 3747500.637 19.24
   LOCATION L0000190     VOLUME   377299.430 3747504.295 19.25
   LOCATION L0000191     VOLUME   377299.411 3747507.953 19.24
   LOCATION L0000192     VOLUME   377299.393 3747511.610 19.24
   LOCATION L0000193     VOLUME   377299.375 3747515.268 19.23
   LOCATION L0000194     VOLUME   377299.356 3747518.925 19.22
   LOCATION L0000195     VOLUME   377299.338 3747522.583 19.22
   LOCATION L0000196     VOLUME   377299.319 3747526.240 19.21
   LOCATION L0000197     VOLUME   377299.301 3747529.898 19.20
   LOCATION L0000198     VOLUME   377299.283 3747533.555 19.20
   LOCATION L0000199     VOLUME   377299.264 3747537.213 19.21
   LOCATION L0000200     VOLUME   377299.246 3747540.870 19.21
```

```
LOCATION L0000201     VOLUME   377299.227 3747544.528 19.22
LOCATION L0000202     VOLUME   377299.209 3747548.186 19.23
LOCATION L0000203     VOLUME   377299.190 3747551.843 19.24
LOCATION L0000204     VOLUME   377299.172 3747555.501 19.24
LOCATION L0000205     VOLUME   377299.154 3747559.158 19.25
LOCATION L0000206     VOLUME   377299.135 3747562.816 19.26
LOCATION L0000207     VOLUME   377299.117 3747566.473 19.29
LOCATION L0000208     VOLUME   377299.098 3747570.131 19.33
LOCATION L0000209     VOLUME   377299.080 3747573.788 19.37
LOCATION L0000210     VOLUME   377299.062 3747577.446 19.41
LOCATION L0000211     VOLUME   377299.043 3747581.104 19.45
LOCATION L0000212     VOLUME   377299.025 3747584.761 19.49
LOCATION L0000213     VOLUME   377299.006 3747588.419 19.53
LOCATION L0000214     VOLUME   377298.988 3747592.076 19.57
LOCATION L0000215     VOLUME   377298.970 3747595.734 19.60
LOCATION L0000216     VOLUME   377298.951 3747599.391 19.63
LOCATION L0000217     VOLUME   377298.933 3747603.049 19.67
LOCATION L0000218     VOLUME   377298.914 3747606.706 19.70
LOCATION L0000219     VOLUME   377298.896 3747610.364 19.73
LOCATION L0000220     VOLUME   377298.878 3747614.022 19.76
LOCATION L0000221     VOLUME   377298.859 3747617.679 19.79
LOCATION L0000222     VOLUME   377298.841 3747621.337 19.82
LOCATION L0000223     VOLUME   377298.822 3747624.994 19.85
LOCATION L0000224     VOLUME   377298.804 3747628.652 19.88
LOCATION L0000225     VOLUME   377298.785 3747632.309 19.90
LOCATION L0000226     VOLUME   377298.767 3747635.967 19.92
LOCATION L0000227     VOLUME   377298.749 3747639.624 19.95
LOCATION L0000228     VOLUME   377298.730 3747643.282 19.97
LOCATION L0000229     VOLUME   377298.712 3747646.940 20.00
LOCATION L0000230     VOLUME   377298.693 3747650.597 20.02
LOCATION L0000231     VOLUME   377298.675 3747654.255 20.05
LOCATION L0000232     VOLUME   377298.657 3747657.912 20.07
LOCATION L0000233     VOLUME   377298.638 3747661.570 20.10
LOCATION L0000234     VOLUME   377298.620 3747665.227 20.12
LOCATION L0000235     VOLUME   377298.601 3747668.885 20.15
LOCATION L0000236     VOLUME   377298.583 3747672.542 20.18
LOCATION L0000237     VOLUME   377298.565 3747676.200 20.20
LOCATION L0000238     VOLUME   377298.546 3747679.858 20.23
LOCATION L0000239     VOLUME   377298.528 3747683.515 20.26
LOCATION L0000240     VOLUME   377298.509 3747687.173 20.28
LOCATION L0000241     VOLUME   377298.491 3747690.830 20.31
LOCATION L0000242     VOLUME   377298.473 3747694.488 20.34
LOCATION L0000243     VOLUME   377298.454 3747698.145 20.38
LOCATION L0000244     VOLUME   377298.436 3747701.803 20.41
LOCATION L0000245     VOLUME   377298.417 3747705.460 20.44
LOCATION L0000246     VOLUME   377298.399 3747709.118 20.47
LOCATION L0000247     VOLUME   377298.380 3747712.776 20.50
LOCATION L0000248     VOLUME   377298.362 3747716.433 20.53
LOCATION L0000249     VOLUME   377298.344 3747720.091 20.55
LOCATION L0000250     VOLUME   377298.325 3747723.748 20.57
LOCATION L0000251     VOLUME   377298.307 3747727.406 20.59
```

```
   LOCATION L0000252     VOLUME   377298.288 3747731.063 20.61
   LOCATION L0000253     VOLUME   377298.270 3747734.721 20.62
   LOCATION L0000254     VOLUME   377298.252 3747738.378 20.64
   LOCATION L0000255     VOLUME   377298.233 3747742.036 20.66
   LOCATION L0000256     VOLUME   377298.215 3747745.693 20.68
   LOCATION L0000257     VOLUME   377298.196 3747749.351 20.69
   LOCATION L0000258     VOLUME   377298.178 3747753.009 20.69
   LOCATION L0000259     VOLUME   377298.160 3747756.666 20.69
   LOCATION L0000260     VOLUME   377298.141 3747760.324 20.70
   LOCATION L0000261     VOLUME   377298.123 3747763.981 20.70
   LOCATION L0000262     VOLUME   377298.104 3747767.639 20.70
   LOCATION L0000263     VOLUME   377298.086 3747771.296 20.70
   LOCATION L0000264     VOLUME   377298.068 3747774.954 20.70
   LOCATION L0000265     VOLUME   377298.049 3747778.611 20.70
   LOCATION L0000266     VOLUME   377298.031 3747782.269 20.69
   LOCATION L0000267     VOLUME   377298.012 3747785.927 20.67
   LOCATION L0000268     VOLUME   377297.994 3747789.584 20.65
   LOCATION L0000269     VOLUME   377297.975 3747793.242 20.63
   LOCATION L0000270     VOLUME   377297.957 3747796.899 20.61
   LOCATION L0000271     VOLUME   377297.939 3747800.557 20.60
   LOCATION L0000272     VOLUME   377297.920 3747804.214 20.58
   LOCATION L0000273     VOLUME   377297.902 3747807.872 20.56
   LOCATION L0000274     VOLUME   377297.883 3747811.529 20.55
   LOCATION L0000275     VOLUME   377297.865 3747815.187 20.53
   LOCATION L0000276     VOLUME   377297.847 3747818.845 20.52
   LOCATION L0000277     VOLUME   377297.828 3747822.502 20.50
   LOCATION L0000278     VOLUME   377297.810 3747826.160 20.48
   LOCATION L0000279     VOLUME   377297.791 3747829.817 20.47
   LOCATION L0000280     VOLUME   377297.773 3747833.475 20.45
   LOCATION L0000281     VOLUME   377297.755 3747837.132 20.44
   LOCATION L0000282     VOLUME   377297.736 3747840.790 20.42
   LOCATION L0000283     VOLUME   377297.718 3747844.447 20.40
** End of LINE VOLUME Source ID = SLINE3
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE4
** DESCRSRC Crenshaw Blvd n/o 190th St
** PREFIX
** Length of Side = 3.66
** Configuration = Adjacent
** Emission Rate = 3.25E-06
** Elevated
** Vertical Dimension = 3.66
** SZINIT = 0.85
** Nodes = 6
** 377156.337, 3747243.729, 18.13, 0.00, 1.70
** 377233.697, 3747379.881, 18.46, 0.00, 1.70
** 377255.357, 3747420.108, 18.51, 0.00, 1.70
** 377271.860, 3747448.989, 18.72, 0.00, 1.70
** 377280.112, 3747463.429, 18.72, 0.00, 1.70
** 377289.395, 3747481.996, 19.00, 0.00, 1.70
```

```
** ------------------------------------------------------------------
   LOCATION L0000514     VOLUME   377157.241 3747245.319 18.15
   LOCATION L0000515     VOLUME   377159.048 3747248.499 18.13
   LOCATION L0000516     VOLUME   377160.854 3747251.679 18.12
   LOCATION L0000517     VOLUME   377162.661 3747254.859 18.10
   LOCATION L0000518     VOLUME   377164.468 3747258.039 18.08
   LOCATION L0000519     VOLUME   377166.275 3747261.220 18.06
   LOCATION L0000520     VOLUME   377168.082 3747264.400 18.04
   LOCATION L0000521     VOLUME   377169.889 3747267.580 18.03
   LOCATION L0000522     VOLUME   377171.696 3747270.760 18.03
   LOCATION L0000523     VOLUME   377173.503 3747273.940 18.03
   LOCATION L0000524     VOLUME   377175.310 3747277.120 18.04
   LOCATION L0000525     VOLUME   377177.116 3747280.300 18.06
   LOCATION L0000526     VOLUME   377178.923 3747283.480 18.09
   LOCATION L0000527     VOLUME   377180.730 3747286.661 18.12
   LOCATION L0000528     VOLUME   377182.537 3747289.841 18.14
   LOCATION L0000529     VOLUME   377184.344 3747293.021 18.15
   LOCATION L0000530     VOLUME   377186.151 3747296.201 18.17
   LOCATION L0000531     VOLUME   377187.958 3747299.381 18.18
   LOCATION L0000532     VOLUME   377189.765 3747302.561 18.19
   LOCATION L0000533     VOLUME   377191.572 3747305.741 18.19
   LOCATION L0000534     VOLUME   377193.378 3747308.921 18.18
   LOCATION L0000535     VOLUME   377195.185 3747312.102 18.18
   LOCATION L0000536     VOLUME   377196.992 3747315.282 18.17
   LOCATION L0000537     VOLUME   377198.799 3747318.462 18.16
   LOCATION L0000538     VOLUME   377200.606 3747321.642 18.14
   LOCATION L0000539     VOLUME   377202.413 3747324.822 18.14
   LOCATION L0000540     VOLUME   377204.220 3747328.002 18.14
   LOCATION L0000541     VOLUME   377206.027 3747331.182 18.15
   LOCATION L0000542     VOLUME   377207.834 3747334.362 18.17
   LOCATION L0000543     VOLUME   377209.640 3747337.543 18.20
   LOCATION L0000544     VOLUME   377211.447 3747340.723 18.24
   LOCATION L0000545     VOLUME   377213.254 3747343.903 18.28
   LOCATION L0000546     VOLUME   377215.061 3747347.083 18.33
   LOCATION L0000547     VOLUME   377216.868 3747350.263 18.34
   LOCATION L0000548     VOLUME   377218.675 3747353.443 18.31
   LOCATION L0000549     VOLUME   377220.482 3747356.623 18.29
   LOCATION L0000550     VOLUME   377222.289 3747359.803 18.28
   LOCATION L0000551     VOLUME   377224.096 3747362.984 18.27
   LOCATION L0000552     VOLUME   377225.902 3747366.164 18.27
   LOCATION L0000553     VOLUME   377227.709 3747369.344 18.28
   LOCATION L0000554     VOLUME   377229.516 3747372.524 18.29
   LOCATION L0000555     VOLUME   377231.323 3747375.704 18.32
   LOCATION L0000556     VOLUME   377233.130 3747378.884 18.34
   LOCATION L0000557     VOLUME   377234.887 3747382.092 18.38
   LOCATION L0000558     VOLUME   377236.621 3747385.312 18.40
   LOCATION L0000559     VOLUME   377238.355 3747388.533 18.43
   LOCATION L0000560     VOLUME   377240.089 3747391.753 18.44
   LOCATION L0000561     VOLUME   377241.823 3747394.974 18.45
   LOCATION L0000562     VOLUME   377243.557 3747398.194 18.44
   LOCATION L0000563     VOLUME   377245.291 3747401.414 18.43
```

```
   LOCATION L0000564     VOLUME   377247.025 3747404.635 18.43
   LOCATION L0000565     VOLUME   377248.759 3747407.855 18.43
   LOCATION L0000566     VOLUME   377250.493 3747411.076 18.43
   LOCATION L0000567     VOLUME   377252.228 3747414.296 18.43
   LOCATION L0000568     VOLUME   377253.962 3747417.517 18.44
   LOCATION L0000569     VOLUME   377255.711 3747420.728 18.46
   LOCATION L0000570     VOLUME   377257.526 3747423.904 18.48
   LOCATION L0000571     VOLUME   377259.341 3747427.080 18.51
   LOCATION L0000572     VOLUME   377261.155 3747430.255 18.55
   LOCATION L0000573     VOLUME   377262.970 3747433.431 18.59
   LOCATION L0000574     VOLUME   377264.785 3747436.607 18.64
   LOCATION L0000575     VOLUME   377266.599 3747439.782 18.70
   LOCATION L0000576     VOLUME   377268.414 3747442.958 18.72
   LOCATION L0000577     VOLUME   377270.229 3747446.134 18.72
   LOCATION L0000578     VOLUME   377272.044 3747449.309 18.71
   LOCATION L0000579     VOLUME   377273.858 3747452.485 18.71
   LOCATION L0000580     VOLUME   377275.673 3747455.661 18.70
   LOCATION L0000581     VOLUME   377277.488 3747458.836 18.71
   LOCATION L0000582     VOLUME   377279.302 3747462.012 18.71
   LOCATION L0000583     VOLUME   377281.018 3747465.241 18.71
   LOCATION L0000584     VOLUME   377282.654 3747468.512 18.71
   LOCATION L0000585     VOLUME   377284.289 3747471.784 18.73
   LOCATION L0000586     VOLUME   377285.925 3747475.055 18.77
   LOCATION L0000587     VOLUME   377287.561 3747478.327 18.82
   LOCATION L0000588     VOLUME   377289.196 3747481.598 18.88
** End of LINE VOLUME Source ID = SLINE4
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE5
** DESCRSRC 190th St west of 405 fwy SB ramps
** PREFIX
** Length of Side = 3.66
** Configuration = Adjacent
** Emission Rate = 0.0000298
** Elevated
** Vertical Dimension = 3.66
** SZINIT = 0.85
** Nodes = 2
** 377162.491, 3747238.163, 18.10, 0.00, 1.70
** 378701.707, 3747243.918, 18.18, 0.00, 1.70
** ----------------------------------------------------------------------
   LOCATION L0000589     VOLUME   377164.319 3747238.170 18.07
   LOCATION L0000590     VOLUME   377167.977 3747238.184 18.06
   LOCATION L0000591     VOLUME   377171.634 3747238.198 18.04
   LOCATION L0000592     VOLUME   377175.292 3747238.211 18.03
   LOCATION L0000593     VOLUME   377178.950 3747238.225 18.01
   LOCATION L0000594     VOLUME   377182.607 3747238.239 18.00
   LOCATION L0000595     VOLUME   377186.265 3747238.252 17.98
   LOCATION L0000596     VOLUME   377189.922 3747238.266 17.97
   LOCATION L0000597     VOLUME   377193.580 3747238.280 17.97
   LOCATION L0000598     VOLUME   377197.237 3747238.293 17.97
```

```
LOCATION L0000599     VOLUME   377200.895 3747238.307 17.97
LOCATION L0000600     VOLUME   377204.553 3747238.321 17.96
LOCATION L0000601     VOLUME   377208.210 3747238.334 17.96
LOCATION L0000602     VOLUME   377211.868 3747238.348 17.96
LOCATION L0000603     VOLUME   377215.525 3747238.362 17.94
LOCATION L0000604     VOLUME   377219.183 3747238.375 17.89
LOCATION L0000605     VOLUME   377222.840 3747238.389 17.85
LOCATION L0000606     VOLUME   377226.498 3747238.403 17.81
LOCATION L0000607     VOLUME   377230.156 3747238.416 17.77
LOCATION L0000608     VOLUME   377233.813 3747238.430 17.73
LOCATION L0000609     VOLUME   377237.471 3747238.444 17.68
LOCATION L0000610     VOLUME   377241.128 3747238.457 17.67
LOCATION L0000611     VOLUME   377244.786 3747238.471 17.68
LOCATION L0000612     VOLUME   377248.444 3747238.485 17.70
LOCATION L0000613     VOLUME   377252.101 3747238.499 17.71
LOCATION L0000614     VOLUME   377255.759 3747238.512 17.73
LOCATION L0000615     VOLUME   377259.416 3747238.526 17.74
LOCATION L0000616     VOLUME   377263.074 3747238.540 17.76
LOCATION L0000617     VOLUME   377266.731 3747238.553 17.77
LOCATION L0000618     VOLUME   377270.389 3747238.567 17.78
LOCATION L0000619     VOLUME   377274.047 3747238.581 17.79
LOCATION L0000620     VOLUME   377277.704 3747238.594 17.81
LOCATION L0000621     VOLUME   377281.362 3747238.608 17.82
LOCATION L0000622     VOLUME   377285.019 3747238.622 17.83
LOCATION L0000623     VOLUME   377288.677 3747238.635 17.84
LOCATION L0000624     VOLUME   377292.334 3747238.649 17.86
LOCATION L0000625     VOLUME   377295.992 3747238.663 17.90
LOCATION L0000626     VOLUME   377299.650 3747238.676 17.93
LOCATION L0000627     VOLUME   377303.307 3747238.690 17.97
LOCATION L0000628     VOLUME   377306.965 3747238.704 18.01
LOCATION L0000629     VOLUME   377310.622 3747238.717 18.05
LOCATION L0000630     VOLUME   377314.280 3747238.731 18.09
LOCATION L0000631     VOLUME   377317.937 3747238.745 18.13
LOCATION L0000632     VOLUME   377321.595 3747238.758 18.17
LOCATION L0000633     VOLUME   377325.253 3747238.772 18.22
LOCATION L0000634     VOLUME   377328.910 3747238.786 18.26
LOCATION L0000635     VOLUME   377332.568 3747238.799 18.31
LOCATION L0000636     VOLUME   377336.225 3747238.813 18.36
LOCATION L0000637     VOLUME   377339.883 3747238.827 18.40
LOCATION L0000638     VOLUME   377343.540 3747238.840 18.44
LOCATION L0000639     VOLUME   377347.198 3747238.854 18.48
LOCATION L0000640     VOLUME   377350.856 3747238.868 18.52
LOCATION L0000641     VOLUME   377354.513 3747238.881 18.56
LOCATION L0000642     VOLUME   377358.171 3747238.895 18.60
LOCATION L0000643     VOLUME   377361.828 3747238.909 18.64
LOCATION L0000644     VOLUME   377365.486 3747238.922 18.68
LOCATION L0000645     VOLUME   377369.143 3747238.936 18.72
LOCATION L0000646     VOLUME   377372.801 3747238.950 18.75
LOCATION L0000647     VOLUME   377376.459 3747238.963 18.78
LOCATION L0000648     VOLUME   377380.116 3747238.977 18.80
LOCATION L0000649     VOLUME   377383.774 3747238.991 18.83
```

```
LOCATION L0000650     VOLUME   377387.431 3747239.004 18.86
LOCATION L0000651     VOLUME   377391.089 3747239.018 18.89
LOCATION L0000652     VOLUME   377394.746 3747239.032 18.93
LOCATION L0000653     VOLUME   377398.404 3747239.045 18.98
LOCATION L0000654     VOLUME   377402.062 3747239.059 19.04
LOCATION L0000655     VOLUME   377405.719 3747239.073 19.09
LOCATION L0000656     VOLUME   377409.377 3747239.087 19.15
LOCATION L0000657     VOLUME   377413.034 3747239.100 19.20
LOCATION L0000658     VOLUME   377416.692 3747239.114 19.26
LOCATION L0000659     VOLUME   377420.350 3747239.128 19.31
LOCATION L0000660     VOLUME   377424.007 3747239.141 19.35
LOCATION L0000661     VOLUME   377427.665 3747239.155 19.39
LOCATION L0000662     VOLUME   377431.322 3747239.169 19.43
LOCATION L0000663     VOLUME   377434.980 3747239.182 19.46
LOCATION L0000664     VOLUME   377438.637 3747239.196 19.50
LOCATION L0000665     VOLUME   377442.295 3747239.210 19.54
LOCATION L0000666     VOLUME   377445.953 3747239.223 19.58
LOCATION L0000667     VOLUME   377449.610 3747239.237 19.61
LOCATION L0000668     VOLUME   377453.268 3747239.251 19.65
LOCATION L0000669     VOLUME   377456.925 3747239.264 19.68
LOCATION L0000670     VOLUME   377460.583 3747239.278 19.71
LOCATION L0000671     VOLUME   377464.240 3747239.292 19.74
LOCATION L0000672     VOLUME   377467.898 3747239.305 19.78
LOCATION L0000673     VOLUME   377471.556 3747239.319 19.80
LOCATION L0000674     VOLUME   377475.213 3747239.333 19.80
LOCATION L0000675     VOLUME   377478.871 3747239.346 19.80
LOCATION L0000676     VOLUME   377482.528 3747239.360 19.80
LOCATION L0000677     VOLUME   377486.186 3747239.374 19.79
LOCATION L0000678     VOLUME   377489.843 3747239.387 19.79
LOCATION L0000679     VOLUME   377493.501 3747239.401 19.79
LOCATION L0000680     VOLUME   377497.159 3747239.415 19.78
LOCATION L0000681     VOLUME   377500.816 3747239.428 19.76
LOCATION L0000682     VOLUME   377504.474 3747239.442 19.74
LOCATION L0000683     VOLUME   377508.131 3747239.456 19.72
LOCATION L0000684     VOLUME   377511.789 3747239.469 19.70
LOCATION L0000685     VOLUME   377515.446 3747239.483 19.68
LOCATION L0000686     VOLUME   377519.104 3747239.497 19.66
LOCATION L0000687     VOLUME   377522.762 3747239.510 19.64
LOCATION L0000688     VOLUME   377526.419 3747239.524 19.62
LOCATION L0000689     VOLUME   377530.077 3747239.538 19.60
LOCATION L0000690     VOLUME   377533.734 3747239.551 19.58
LOCATION L0000691     VOLUME   377537.392 3747239.565 19.56
LOCATION L0000692     VOLUME   377541.049 3747239.579 19.54
LOCATION L0000693     VOLUME   377544.707 3747239.592 19.53
LOCATION L0000694     VOLUME   377548.365 3747239.606 19.51
LOCATION L0000695     VOLUME   377552.022 3747239.620 19.50
LOCATION L0000696     VOLUME   377555.680 3747239.634 19.49
LOCATION L0000697     VOLUME   377559.337 3747239.647 19.47
LOCATION L0000698     VOLUME   377562.995 3747239.661 19.46
LOCATION L0000699     VOLUME   377566.652 3747239.675 19.45
LOCATION L0000700     VOLUME   377570.310 3747239.688 19.44
```

```
LOCATION L0000701     VOLUME   377573.968 3747239.702 19.43
LOCATION L0000702     VOLUME   377577.625 3747239.716 19.40
LOCATION L0000703     VOLUME   377581.283 3747239.729 19.37
LOCATION L0000704     VOLUME   377584.940 3747239.743 19.34
LOCATION L0000705     VOLUME   377588.598 3747239.757 19.31
LOCATION L0000706     VOLUME   377592.256 3747239.770 19.28
LOCATION L0000707     VOLUME   377595.913 3747239.784 19.25
LOCATION L0000708     VOLUME   377599.571 3747239.798 19.23
LOCATION L0000709     VOLUME   377603.228 3747239.811 19.21
LOCATION L0000710     VOLUME   377606.886 3747239.825 19.20
LOCATION L0000711     VOLUME   377610.543 3747239.839 19.19
LOCATION L0000712     VOLUME   377614.201 3747239.852 19.18
LOCATION L0000713     VOLUME   377617.859 3747239.866 19.16
LOCATION L0000714     VOLUME   377621.516 3747239.880 19.15
LOCATION L0000715     VOLUME   377625.174 3747239.893 19.14
LOCATION L0000716     VOLUME   377628.831 3747239.907 19.12
LOCATION L0000717     VOLUME   377632.489 3747239.921 19.09
LOCATION L0000718     VOLUME   377636.146 3747239.934 19.07
LOCATION L0000719     VOLUME   377639.804 3747239.948 19.05
LOCATION L0000720     VOLUME   377643.462 3747239.962 19.03
LOCATION L0000721     VOLUME   377647.119 3747239.975 19.01
LOCATION L0000722     VOLUME   377650.777 3747239.989 18.99
LOCATION L0000723     VOLUME   377654.434 3747240.003 18.96
LOCATION L0000724     VOLUME   377658.092 3747240.016 18.94
LOCATION L0000725     VOLUME   377661.749 3747240.030 18.91
LOCATION L0000726     VOLUME   377665.407 3747240.044 18.89
LOCATION L0000727     VOLUME   377669.065 3747240.057 18.86
LOCATION L0000728     VOLUME   377672.722 3747240.071 18.84
LOCATION L0000729     VOLUME   377676.380 3747240.085 18.81
LOCATION L0000730     VOLUME   377680.037 3747240.098 18.79
LOCATION L0000731     VOLUME   377683.695 3747240.112 18.78
LOCATION L0000732     VOLUME   377687.352 3747240.126 18.76
LOCATION L0000733     VOLUME   377691.010 3747240.139 18.74
LOCATION L0000734     VOLUME   377694.668 3747240.153 18.73
LOCATION L0000735     VOLUME   377698.325 3747240.167 18.71
LOCATION L0000736     VOLUME   377701.983 3747240.181 18.69
LOCATION L0000737     VOLUME   377705.640 3747240.194 18.67
LOCATION L0000738     VOLUME   377709.298 3747240.208 18.65
LOCATION L0000739     VOLUME   377712.955 3747240.222 18.63
LOCATION L0000740     VOLUME   377716.613 3747240.235 18.61
LOCATION L0000741     VOLUME   377720.271 3747240.249 18.59
LOCATION L0000742     VOLUME   377723.928 3747240.263 18.56
LOCATION L0000743     VOLUME   377727.586 3747240.276 18.54
LOCATION L0000744     VOLUME   377731.243 3747240.290 18.52
LOCATION L0000745     VOLUME   377734.901 3747240.304 18.49
LOCATION L0000746     VOLUME   377738.558 3747240.317 18.47
LOCATION L0000747     VOLUME   377742.216 3747240.331 18.44
LOCATION L0000748     VOLUME   377745.874 3747240.345 18.42
LOCATION L0000749     VOLUME   377749.531 3747240.358 18.40
LOCATION L0000750     VOLUME   377753.189 3747240.372 18.37
LOCATION L0000751     VOLUME   377756.846 3747240.386 18.34
```

```
LOCATION L0000752     VOLUME   377760.504 3747240.399 18.31
LOCATION L0000753     VOLUME   377764.162 3747240.413 18.29
LOCATION L0000754     VOLUME   377767.819 3747240.427 18.26
LOCATION L0000755     VOLUME   377771.477 3747240.440 18.23
LOCATION L0000756     VOLUME   377775.134 3747240.454 18.20
LOCATION L0000757     VOLUME   377778.792 3747240.468 18.17
LOCATION L0000758     VOLUME   377782.449 3747240.481 18.18
LOCATION L0000759     VOLUME   377786.107 3747240.495 18.19
LOCATION L0000760     VOLUME   377789.765 3747240.509 18.19
LOCATION L0000761     VOLUME   377793.422 3747240.522 18.20
LOCATION L0000762     VOLUME   377797.080 3747240.536 18.21
LOCATION L0000763     VOLUME   377800.737 3747240.550 18.22
LOCATION L0000764     VOLUME   377804.395 3747240.563 18.23
LOCATION L0000765     VOLUME   377808.052 3747240.577 18.23
LOCATION L0000766     VOLUME   377811.710 3747240.591 18.24
LOCATION L0000767     VOLUME   377815.368 3747240.604 18.25
LOCATION L0000768     VOLUME   377819.025 3747240.618 18.26
LOCATION L0000769     VOLUME   377822.683 3747240.632 18.26
LOCATION L0000770     VOLUME   377826.340 3747240.645 18.27
LOCATION L0000771     VOLUME   377829.998 3747240.659 18.28
LOCATION L0000772     VOLUME   377833.655 3747240.673 18.28
LOCATION L0000773     VOLUME   377837.313 3747240.686 18.29
LOCATION L0000774     VOLUME   377840.971 3747240.700 18.29
LOCATION L0000775     VOLUME   377844.628 3747240.714 18.29
LOCATION L0000776     VOLUME   377848.286 3747240.728 18.29
LOCATION L0000777     VOLUME   377851.943 3747240.741 18.29
LOCATION L0000778     VOLUME   377855.601 3747240.755 18.30
LOCATION L0000779     VOLUME   377859.258 3747240.769 18.32
LOCATION L0000780     VOLUME   377862.916 3747240.782 18.34
LOCATION L0000781     VOLUME   377866.574 3747240.796 18.36
LOCATION L0000782     VOLUME   377870.231 3747240.810 18.39
LOCATION L0000783     VOLUME   377873.889 3747240.823 18.41
LOCATION L0000784     VOLUME   377877.546 3747240.837 18.44
LOCATION L0000785     VOLUME   377881.204 3747240.851 18.46
LOCATION L0000786     VOLUME   377884.861 3747240.864 18.49
LOCATION L0000787     VOLUME   377888.519 3747240.878 18.51
LOCATION L0000788     VOLUME   377892.177 3747240.892 18.54
LOCATION L0000789     VOLUME   377895.834 3747240.905 18.56
LOCATION L0000790     VOLUME   377899.492 3747240.919 18.59
LOCATION L0000791     VOLUME   377903.149 3747240.933 18.61
LOCATION L0000792     VOLUME   377906.807 3747240.946 18.64
LOCATION L0000793     VOLUME   377910.464 3747240.960 18.66
LOCATION L0000794     VOLUME   377914.122 3747240.974 18.68
LOCATION L0000795     VOLUME   377917.780 3747240.987 18.71
LOCATION L0000796     VOLUME   377921.437 3747241.001 18.73
LOCATION L0000797     VOLUME   377925.095 3747241.015 18.76
LOCATION L0000798     VOLUME   377928.752 3747241.028 18.78
LOCATION L0000799     VOLUME   377932.410 3747241.042 18.81
LOCATION L0000800     VOLUME   377936.068 3747241.056 18.85
LOCATION L0000801     VOLUME   377939.725 3747241.069 18.90
LOCATION L0000802     VOLUME   377943.383 3747241.083 18.95
```

```
LOCATION L0000803     VOLUME   377947.040 3747241.097 19.00
LOCATION L0000804     VOLUME   377950.698 3747241.110 19.05
LOCATION L0000805     VOLUME   377954.355 3747241.124 19.10
LOCATION L0000806     VOLUME   377958.013 3747241.138 19.15
LOCATION L0000807     VOLUME   377961.671 3747241.151 19.17
LOCATION L0000808     VOLUME   377965.328 3747241.165 19.17
LOCATION L0000809     VOLUME   377968.986 3747241.179 19.17
LOCATION L0000810     VOLUME   377972.643 3747241.192 19.17
LOCATION L0000811     VOLUME   377976.301 3747241.206 19.16
LOCATION L0000812     VOLUME   377979.958 3747241.220 19.16
LOCATION L0000813     VOLUME   377983.616 3747241.233 19.16
LOCATION L0000814     VOLUME   377987.274 3747241.247 19.17
LOCATION L0000815     VOLUME   377990.931 3747241.261 19.19
LOCATION L0000816     VOLUME   377994.589 3747241.274 19.20
LOCATION L0000817     VOLUME   377998.246 3747241.288 19.22
LOCATION L0000818     VOLUME   378001.904 3747241.302 19.24
LOCATION L0000819     VOLUME   378005.561 3747241.316 19.25
LOCATION L0000820     VOLUME   378009.219 3747241.329 19.27
LOCATION L0000821     VOLUME   378012.877 3747241.343 19.28
LOCATION L0000822     VOLUME   378016.534 3747241.357 19.30
LOCATION L0000823     VOLUME   378020.192 3747241.370 19.31
LOCATION L0000824     VOLUME   378023.849 3747241.384 19.32
LOCATION L0000825     VOLUME   378027.507 3747241.398 19.34
LOCATION L0000826     VOLUME   378031.164 3747241.411 19.35
LOCATION L0000827     VOLUME   378034.822 3747241.425 19.37
LOCATION L0000828     VOLUME   378038.480 3747241.439 19.40
LOCATION L0000829     VOLUME   378042.137 3747241.452 19.44
LOCATION L0000830     VOLUME   378045.795 3747241.466 19.49
LOCATION L0000831     VOLUME   378049.452 3747241.480 19.53
LOCATION L0000832     VOLUME   378053.110 3747241.493 19.57
LOCATION L0000833     VOLUME   378056.767 3747241.507 19.62
LOCATION L0000834     VOLUME   378060.425 3747241.521 19.66
LOCATION L0000835     VOLUME   378064.083 3747241.534 19.68
LOCATION L0000836     VOLUME   378067.740 3747241.548 19.69
LOCATION L0000837     VOLUME   378071.398 3747241.562 19.70
LOCATION L0000838     VOLUME   378075.055 3747241.575 19.70
LOCATION L0000839     VOLUME   378078.713 3747241.589 19.71
LOCATION L0000840     VOLUME   378082.370 3747241.603 19.72
LOCATION L0000841     VOLUME   378086.028 3747241.616 19.72
LOCATION L0000842     VOLUME   378089.686 3747241.630 19.74
LOCATION L0000843     VOLUME   378093.343 3747241.644 19.76
LOCATION L0000844     VOLUME   378097.001 3747241.657 19.78
LOCATION L0000845     VOLUME   378100.658 3747241.671 19.80
LOCATION L0000846     VOLUME   378104.316 3747241.685 19.83
LOCATION L0000847     VOLUME   378107.974 3747241.698 19.85
LOCATION L0000848     VOLUME   378111.631 3747241.712 19.87
LOCATION L0000849     VOLUME   378115.289 3747241.726 19.88
LOCATION L0000850     VOLUME   378118.946 3747241.739 19.89
LOCATION L0000851     VOLUME   378122.604 3747241.753 19.90
LOCATION L0000852     VOLUME   378126.261 3747241.767 19.90
LOCATION L0000853     VOLUME   378129.919 3747241.780 19.91
```

```
LOCATION L0000854     VOLUME   378133.577 3747241.794 19.91
LOCATION L0000855     VOLUME   378137.234 3747241.808 19.92
LOCATION L0000856     VOLUME   378140.892 3747241.821 19.92
LOCATION L0000857     VOLUME   378144.549 3747241.835 19.91
LOCATION L0000858     VOLUME   378148.207 3747241.849 19.91
LOCATION L0000859     VOLUME   378151.864 3747241.863 19.91
LOCATION L0000860     VOLUME   378155.522 3747241.876 19.90
LOCATION L0000861     VOLUME   378159.180 3747241.890 19.90
LOCATION L0000862     VOLUME   378162.837 3747241.904 19.90
LOCATION L0000863     VOLUME   378166.495 3747241.917 19.88
LOCATION L0000864     VOLUME   378170.152 3747241.931 19.84
LOCATION L0000865     VOLUME   378173.810 3747241.945 19.80
LOCATION L0000866     VOLUME   378177.467 3747241.958 19.77
LOCATION L0000867     VOLUME   378181.125 3747241.972 19.73
LOCATION L0000868     VOLUME   378184.783 3747241.986 19.69
LOCATION L0000869     VOLUME   378188.440 3747241.999 19.66
LOCATION L0000870     VOLUME   378192.098 3747242.013 19.64
LOCATION L0000871     VOLUME   378195.755 3747242.027 19.66
LOCATION L0000872     VOLUME   378199.413 3747242.040 19.67
LOCATION L0000873     VOLUME   378203.070 3747242.054 19.68
LOCATION L0000874     VOLUME   378206.728 3747242.068 19.69
LOCATION L0000875     VOLUME   378210.386 3747242.081 19.70
LOCATION L0000876     VOLUME   378214.043 3747242.095 19.71
LOCATION L0000877     VOLUME   378217.701 3747242.109 19.71
LOCATION L0000878     VOLUME   378221.358 3747242.122 19.70
LOCATION L0000879     VOLUME   378225.016 3747242.136 19.70
LOCATION L0000880     VOLUME   378228.673 3747242.150 19.69
LOCATION L0000881     VOLUME   378232.331 3747242.163 19.68
LOCATION L0000882     VOLUME   378235.989 3747242.177 19.67
LOCATION L0000883     VOLUME   378239.646 3747242.191 19.66
LOCATION L0000884     VOLUME   378243.304 3747242.204 19.64
LOCATION L0000885     VOLUME   378246.961 3747242.218 19.59
LOCATION L0000886     VOLUME   378250.619 3747242.232 19.54
LOCATION L0000887     VOLUME   378254.276 3747242.245 19.50
LOCATION L0000888     VOLUME   378257.934 3747242.259 19.45
LOCATION L0000889     VOLUME   378261.592 3747242.273 19.40
LOCATION L0000890     VOLUME   378265.249 3747242.286 19.35
LOCATION L0000891     VOLUME   378268.907 3747242.300 19.33
LOCATION L0000892     VOLUME   378272.564 3747242.314 19.34
LOCATION L0000893     VOLUME   378276.222 3747242.327 19.36
LOCATION L0000894     VOLUME   378279.880 3747242.341 19.37
LOCATION L0000895     VOLUME   378283.537 3747242.355 19.39
LOCATION L0000896     VOLUME   378287.195 3747242.368 19.40
LOCATION L0000897     VOLUME   378290.852 3747242.382 19.42
LOCATION L0000898     VOLUME   378294.510 3747242.396 19.43
LOCATION L0000899     VOLUME   378298.167 3747242.410 19.42
LOCATION L0000900     VOLUME   378301.825 3747242.423 19.42
LOCATION L0000901     VOLUME   378305.483 3747242.437 19.42
LOCATION L0000902     VOLUME   378309.140 3747242.451 19.41
LOCATION L0000903     VOLUME   378312.798 3747242.464 19.41
LOCATION L0000904     VOLUME   378316.455 3747242.478 19.41
```

```
LOCATION L0000905     VOLUME   378320.113 3747242.492 19.40
LOCATION L0000906     VOLUME   378323.770 3747242.505 19.37
LOCATION L0000907     VOLUME   378327.428 3747242.519 19.35
LOCATION L0000908     VOLUME   378331.086 3747242.533 19.32
LOCATION L0000909     VOLUME   378334.743 3747242.546 19.30
LOCATION L0000910     VOLUME   378338.401 3747242.560 19.27
LOCATION L0000911     VOLUME   378342.058 3747242.574 19.25
LOCATION L0000912     VOLUME   378345.716 3747242.587 19.23
LOCATION L0000913     VOLUME   378349.373 3747242.601 19.22
LOCATION L0000914     VOLUME   378353.031 3747242.615 19.22
LOCATION L0000915     VOLUME   378356.689 3747242.628 19.21
LOCATION L0000916     VOLUME   378360.346 3747242.642 19.20
LOCATION L0000917     VOLUME   378364.004 3747242.656 19.20
LOCATION L0000918     VOLUME   378367.661 3747242.669 19.19
LOCATION L0000919     VOLUME   378371.319 3747242.683 19.18
LOCATION L0000920     VOLUME   378374.976 3747242.697 19.19
LOCATION L0000921     VOLUME   378378.634 3747242.710 19.19
LOCATION L0000922     VOLUME   378382.292 3747242.724 19.19
LOCATION L0000923     VOLUME   378385.949 3747242.738 19.19
LOCATION L0000924     VOLUME   378389.607 3747242.751 19.19
LOCATION L0000925     VOLUME   378393.264 3747242.765 19.19
LOCATION L0000926     VOLUME   378396.922 3747242.779 19.18
LOCATION L0000927     VOLUME   378400.579 3747242.792 19.15
LOCATION L0000928     VOLUME   378404.237 3747242.806 19.12
LOCATION L0000929     VOLUME   378407.895 3747242.820 19.09
LOCATION L0000930     VOLUME   378411.552 3747242.833 19.05
LOCATION L0000931     VOLUME   378415.210 3747242.847 19.02
LOCATION L0000932     VOLUME   378418.867 3747242.861 18.99
LOCATION L0000933     VOLUME   378422.525 3747242.874 18.97
LOCATION L0000934     VOLUME   378426.182 3747242.888 19.00
LOCATION L0000935     VOLUME   378429.840 3747242.902 19.03
LOCATION L0000936     VOLUME   378433.498 3747242.915 19.07
LOCATION L0000937     VOLUME   378437.155 3747242.929 19.10
LOCATION L0000938     VOLUME   378440.813 3747242.943 19.13
LOCATION L0000939     VOLUME   378444.470 3747242.957 19.17
LOCATION L0000940     VOLUME   378448.128 3747242.970 19.19
LOCATION L0000941     VOLUME   378451.786 3747242.984 19.19
LOCATION L0000942     VOLUME   378455.443 3747242.998 19.18
LOCATION L0000943     VOLUME   378459.101 3747243.011 19.18
LOCATION L0000944     VOLUME   378462.758 3747243.025 19.17
LOCATION L0000945     VOLUME   378466.416 3747243.039 19.17
LOCATION L0000946     VOLUME   378470.073 3747243.052 19.17
LOCATION L0000947     VOLUME   378473.731 3747243.066 19.16
LOCATION L0000948     VOLUME   378477.389 3747243.080 19.14
LOCATION L0000949     VOLUME   378481.046 3747243.093 19.11
LOCATION L0000950     VOLUME   378484.704 3747243.107 19.08
LOCATION L0000951     VOLUME   378488.361 3747243.121 19.06
LOCATION L0000952     VOLUME   378492.019 3747243.134 19.03
LOCATION L0000953     VOLUME   378495.676 3747243.148 19.01
LOCATION L0000954     VOLUME   378499.334 3747243.162 18.98
LOCATION L0000955     VOLUME   378502.992 3747243.175 18.96
```

```
LOCATION L0000956     VOLUME   378506.649 3747243.189 18.94
LOCATION L0000957     VOLUME   378510.307 3747243.203 18.92
LOCATION L0000958     VOLUME   378513.964 3747243.216 18.90
LOCATION L0000959     VOLUME   378517.622 3747243.230 18.88
LOCATION L0000960     VOLUME   378521.279 3747243.244 18.87
LOCATION L0000961     VOLUME   378524.937 3747243.257 18.85
LOCATION L0000962     VOLUME   378528.595 3747243.271 18.83
LOCATION L0000963     VOLUME   378532.252 3747243.285 18.82
LOCATION L0000964     VOLUME   378535.910 3747243.298 18.81
LOCATION L0000965     VOLUME   378539.567 3747243.312 18.79
LOCATION L0000966     VOLUME   378543.225 3747243.326 18.78
LOCATION L0000967     VOLUME   378546.882 3747243.339 18.76
LOCATION L0000968     VOLUME   378550.540 3747243.353 18.75
LOCATION L0000969     VOLUME   378554.198 3747243.367 18.72
LOCATION L0000970     VOLUME   378557.855 3747243.380 18.70
LOCATION L0000971     VOLUME   378561.513 3747243.394 18.68
LOCATION L0000972     VOLUME   378565.170 3747243.408 18.66
LOCATION L0000973     VOLUME   378568.828 3747243.421 18.63
LOCATION L0000974     VOLUME   378572.485 3747243.435 18.61
LOCATION L0000975     VOLUME   378576.143 3747243.449 18.59
LOCATION L0000976     VOLUME   378579.801 3747243.462 18.60
LOCATION L0000977     VOLUME   378583.458 3747243.476 18.61
LOCATION L0000978     VOLUME   378587.116 3747243.490 18.62
LOCATION L0000979     VOLUME   378590.773 3747243.504 18.63
LOCATION L0000980     VOLUME   378594.431 3747243.517 18.65
LOCATION L0000981     VOLUME   378598.088 3747243.531 18.66
LOCATION L0000982     VOLUME   378601.746 3747243.545 18.67
LOCATION L0000983     VOLUME   378605.404 3747243.558 18.68
LOCATION L0000984     VOLUME   378609.061 3747243.572 18.68
LOCATION L0000985     VOLUME   378612.719 3747243.586 18.69
LOCATION L0000986     VOLUME   378616.376 3747243.599 18.69
LOCATION L0000987     VOLUME   378620.034 3747243.613 18.69
LOCATION L0000988     VOLUME   378623.692 3747243.627 18.70
LOCATION L0000989     VOLUME   378627.349 3747243.640 18.70
LOCATION L0000990     VOLUME   378631.007 3747243.654 18.68
LOCATION L0000991     VOLUME   378634.664 3747243.668 18.65
LOCATION L0000992     VOLUME   378638.322 3747243.681 18.63
LOCATION L0000993     VOLUME   378641.979 3747243.695 18.60
LOCATION L0000994     VOLUME   378645.637 3747243.709 18.57
LOCATION L0000995     VOLUME   378649.295 3747243.722 18.55
LOCATION L0000996     VOLUME   378652.952 3747243.736 18.52
LOCATION L0000997     VOLUME   378656.610 3747243.750 18.49
LOCATION L0000998     VOLUME   378660.267 3747243.763 18.47
LOCATION L0000999     VOLUME   378663.925 3747243.777 18.44
LOCATION L0001000     VOLUME   378667.582 3747243.791 18.41
LOCATION L0001001     VOLUME   378671.240 3747243.804 18.39
LOCATION L0001002     VOLUME   378674.898 3747243.818 18.36
LOCATION L0001003     VOLUME   378678.555 3747243.832 18.33
LOCATION L0001004     VOLUME   378682.213 3747243.845 18.33
LOCATION L0001005     VOLUME   378685.870 3747243.859 18.34
LOCATION L0001006     VOLUME   378689.528 3747243.873 18.35
```

```
   LOCATION L0001007     VOLUME   378693.185 3747243.886 18.35
   LOCATION L0001008     VOLUME   378696.843 3747243.900 18.36
   LOCATION L0001009     VOLUME   378700.501 3747243.914 18.36
** End of LINE VOLUME Source ID = SLINE5
** Source Parameters **
   SRCPARAM STCK1         0.000016     3.658   366.000  51.90000     0.091
   SRCPARAM STCK2         0.000016     3.658   366.000  51.90000     0.091
   SRCPARAM STCK3         0.000016     3.658   366.000  51.90000     0.091
   SRCPARAM STCK4         0.000016     3.658   366.000  51.90000     0.091
   SRCPARAM STCK5         0.000016     3.658   366.000  51.90000     0.091
   SRCPARAM STCK6         0.000016     3.658   366.000  51.90000     0.091
** LINE VOLUME Source ID = SLINE1
   SRCPARAM L0000001     0.0000001127      0.00      1.70      5.10
   SRCPARAM L0000002     0.0000001127      0.00      1.70      5.10
   SRCPARAM L0000003     0.0000001127      0.00      1.70      5.10
   SRCPARAM L0000004     0.0000001127      0.00      1.70      5.10
   SRCPARAM L0000005     0.0000001127      0.00      1.70      5.10
   SRCPARAM L0000006     0.0000001127      0.00      1.70      5.10
   SRCPARAM L0000007     0.0000001127      0.00      1.70      5.10
   SRCPARAM L0000008     0.0000001127      0.00      1.70      5.10
   SRCPARAM L0000009     0.0000001127      0.00      1.70      5.10
   SRCPARAM L0000010     0.0000001127      0.00      1.70      5.10
   SRCPARAM L0000011     0.0000001127      0.00      1.70      5.10
   SRCPARAM L0000012     0.0000001127      0.00      1.70      5.10
   SRCPARAM L0000013     0.0000001127      0.00      1.70      5.10
   SRCPARAM L0000014     0.0000001127      0.00      1.70      5.10
   SRCPARAM L0000015     0.0000001127      0.00      1.70      5.10
   SRCPARAM L0000016     0.0000001127      0.00      1.70      5.10
   SRCPARAM L0000017     0.0000001127      0.00      1.70      5.10
   SRCPARAM L0000018     0.0000001127      0.00      1.70      5.10
   SRCPARAM L0000019     0.0000001127      0.00      1.70      5.10
   SRCPARAM L0000020     0.0000001127      0.00      1.70      5.10
   SRCPARAM L0000021     0.0000001127      0.00      1.70      5.10
   SRCPARAM L0000022     0.0000001127      0.00      1.70      5.10
   SRCPARAM L0000023     0.0000001127      0.00      1.70      5.10
   SRCPARAM L0000024     0.0000001127      0.00      1.70      5.10
   SRCPARAM L0000025     0.0000001127      0.00      1.70      5.10
   SRCPARAM L0000026     0.0000001127      0.00      1.70      5.10
   SRCPARAM L0000027     0.0000001127      0.00      1.70      5.10
   SRCPARAM L0000028     0.0000001127      0.00      1.70      5.10
   SRCPARAM L0000029     0.0000001127      0.00      1.70      5.10
   SRCPARAM L0000030     0.0000001127      0.00      1.70      5.10
   SRCPARAM L0000031     0.0000001127      0.00      1.70      5.10
   SRCPARAM L0000032     0.0000001127      0.00      1.70      5.10
   SRCPARAM L0000033     0.0000001127      0.00      1.70      5.10
   SRCPARAM L0000034     0.0000001127      0.00      1.70      5.10
   SRCPARAM L0000035     0.0000001127      0.00      1.70      5.10
   SRCPARAM L0000036     0.0000001127      0.00      1.70      5.10
   SRCPARAM L0000037     0.0000001127      0.00      1.70      5.10
   SRCPARAM L0000038     0.0000001127      0.00      1.70      5.10
   SRCPARAM L0000039     0.0000001127      0.00      1.70      5.10
```

```
   SRCPARAM L0000040     0.0000001127      0.00      1.70      5.10
   SRCPARAM L0000041     0.0000001127      0.00      1.70      5.10
   SRCPARAM L0000042     0.0000001127      0.00      1.70      5.10
   SRCPARAM L0000043     0.0000001127      0.00      1.70      5.10
   SRCPARAM L0000044     0.0000001127      0.00      1.70      5.10
   SRCPARAM L0000045     0.0000001127      0.00      1.70      5.10
   SRCPARAM L0000046     0.0000001127      0.00      1.70      5.10
   SRCPARAM L0000047     0.0000001127      0.00      1.70      5.10
   SRCPARAM L0000048     0.0000001127      0.00      1.70      5.10
   SRCPARAM L0000049     0.0000001127      0.00      1.70      5.10
   SRCPARAM L0000050     0.0000001127      0.00      1.70      5.10
   SRCPARAM L0000051     0.0000001127      0.00      1.70      5.10
   SRCPARAM L0000052     0.0000001127      0.00      1.70      5.10
   SRCPARAM L0000053     0.0000001127      0.00      1.70      5.10
   SRCPARAM L0000054     0.0000001127      0.00      1.70      5.10
   SRCPARAM L0000055     0.0000001127      0.00      1.70      5.10
   SRCPARAM L0000056     0.0000001127      0.00      1.70      5.10
   SRCPARAM L0000057     0.0000001127      0.00      1.70      5.10
   SRCPARAM L0000058     0.0000001127      0.00      1.70      5.10
   SRCPARAM L0000059     0.0000001127      0.00      1.70      5.10
   SRCPARAM L0000060     0.0000001127      0.00      1.70      5.10
   SRCPARAM L0000061     0.0000001127      0.00      1.70      5.10
   SRCPARAM L0000062     0.0000001127      0.00      1.70      5.10
   SRCPARAM L0000063     0.0000001127      0.00      1.70      5.10
   SRCPARAM L0000064     0.0000001127      0.00      1.70      5.10
   SRCPARAM L0000065     0.0000001127      0.00      1.70      5.10
   SRCPARAM L0000066     0.0000001127      0.00      1.70      5.10
   SRCPARAM L0000067     0.0000001127      0.00      1.70      5.10
   SRCPARAM L0000068     0.0000001127      0.00      1.70      5.10
   SRCPARAM L0000069     0.0000001127      0.00      1.70      5.10
   SRCPARAM L0000070     0.0000001127      0.00      1.70      5.10
   SRCPARAM L0000071     0.0000001127      0.00      1.70      5.10
   SRCPARAM L0000072     0.0000001127      0.00      1.70      5.10
   SRCPARAM L0000073     0.0000001127      0.00      1.70      5.10
   SRCPARAM L0000074     0.0000001127      0.00      1.70      5.10
   SRCPARAM L0000075     0.0000001127      0.00      1.70      5.10
   SRCPARAM L0000076     0.0000001127      0.00      1.70      5.10
   SRCPARAM L0000077     0.0000001127      0.00      1.70      5.10
   SRCPARAM L0000078     0.0000001127      0.00      1.70      5.10
   SRCPARAM L0000079     0.0000001127      0.00      1.70      5.10
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE2
   SRCPARAM L0000121     0.000000113      0.00      1.70      5.10
   SRCPARAM L0000122     0.000000113      0.00      1.70      5.10
   SRCPARAM L0000123     0.000000113      0.00      1.70      5.10
   SRCPARAM L0000124     0.000000113      0.00      1.70      5.10
   SRCPARAM L0000125     0.000000113      0.00      1.70      5.10
   SRCPARAM L0000126     0.000000113      0.00      1.70      5.10
   SRCPARAM L0000127     0.000000113      0.00      1.70      5.10
   SRCPARAM L0000128     0.000000113      0.00      1.70      5.10
   SRCPARAM L0000129     0.000000113      0.00      1.70      5.10
```

```
   SRCPARAM L0000130     0.000000113      0.00      1.70      5.10
   SRCPARAM L0000131     0.000000113      0.00      1.70      5.10
   SRCPARAM L0000132     0.000000113      0.00      1.70      5.10
   SRCPARAM L0000133     0.000000113      0.00      1.70      5.10
   SRCPARAM L0000134     0.000000113      0.00      1.70      5.10
   SRCPARAM L0000135     0.000000113      0.00      1.70      5.10
   SRCPARAM L0000136     0.000000113      0.00      1.70      5.10
   SRCPARAM L0000137     0.000000113      0.00      1.70      5.10
   SRCPARAM L0000138     0.000000113      0.00      1.70      5.10
   SRCPARAM L0000139     0.000000113      0.00      1.70      5.10
   SRCPARAM L0000140     0.000000113      0.00      1.70      5.10
   SRCPARAM L0000141     0.000000113      0.00      1.70      5.10
   SRCPARAM L0000142     0.000000113      0.00      1.70      5.10
   SRCPARAM L0000143     0.000000113      0.00      1.70      5.10
   SRCPARAM L0000144     0.000000113      0.00      1.70      5.10
   SRCPARAM L0000145     0.000000113      0.00      1.70      5.10
   SRCPARAM L0000146     0.000000113      0.00      1.70      5.10
   SRCPARAM L0000147     0.000000113      0.00      1.70      5.10
   SRCPARAM L0000148     0.000000113      0.00      1.70      5.10
   SRCPARAM L0000149     0.000000113      0.00      1.70      5.10
   SRCPARAM L0000150     0.000000113      0.00      1.70      5.10
   SRCPARAM L0000151     0.000000113      0.00      1.70      5.10
   SRCPARAM L0000152     0.000000113      0.00      1.70      5.10
   SRCPARAM L0000153     0.000000113      0.00      1.70      5.10
   SRCPARAM L0000154     0.000000113      0.00      1.70      5.10
   SRCPARAM L0000155     0.000000113      0.00      1.70      5.10
   SRCPARAM L0000156     0.000000113      0.00      1.70      5.10
   SRCPARAM L0000157     0.000000113      0.00      1.70      5.10
   SRCPARAM L0000158     0.000000113      0.00      1.70      5.10
   SRCPARAM L0000159     0.000000113      0.00      1.70      5.10
   SRCPARAM L0000160     0.000000113      0.00      1.70      5.10
   SRCPARAM L0000161     0.000000113      0.00      1.70      5.10
   SRCPARAM L0000162     0.000000113      0.00      1.70      5.10
   SRCPARAM L0000163     0.000000113      0.00      1.70      5.10
   SRCPARAM L0000164     0.000000113      0.00      1.70      5.10
   SRCPARAM L0000165     0.000000113      0.00      1.70      5.10
   SRCPARAM L0000166     0.000000113      0.00      1.70      5.10
   SRCPARAM L0000167     0.000000113      0.00      1.70      5.10
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE3
   SRCPARAM L0000168     0.00000009828      0.00      1.70      0.85
   SRCPARAM L0000169     0.00000009828      0.00      1.70      0.85
   SRCPARAM L0000170     0.00000009828      0.00      1.70      0.85
   SRCPARAM L0000171     0.00000009828      0.00      1.70      0.85
   SRCPARAM L0000172     0.00000009828      0.00      1.70      0.85
   SRCPARAM L0000173     0.00000009828      0.00      1.70      0.85
   SRCPARAM L0000174     0.00000009828      0.00      1.70      0.85
   SRCPARAM L0000175     0.00000009828      0.00      1.70      0.85
   SRCPARAM L0000176     0.00000009828      0.00      1.70      0.85
   SRCPARAM L0000177     0.00000009828      0.00      1.70      0.85
   SRCPARAM L0000178     0.00000009828      0.00      1.70      0.85
```

```
SRCPARAM L0000179     0.00000009828      0.00      1.70      0.85
SRCPARAM L0000180     0.00000009828      0.00      1.70      0.85
SRCPARAM L0000181     0.00000009828      0.00      1.70      0.85
SRCPARAM L0000182     0.00000009828      0.00      1.70      0.85
SRCPARAM L0000183     0.00000009828      0.00      1.70      0.85
SRCPARAM L0000184     0.00000009828      0.00      1.70      0.85
SRCPARAM L0000185     0.00000009828      0.00      1.70      0.85
SRCPARAM L0000186     0.00000009828      0.00      1.70      0.85
SRCPARAM L0000187     0.00000009828      0.00      1.70      0.85
SRCPARAM L0000188     0.00000009828      0.00      1.70      0.85
SRCPARAM L0000189     0.00000009828      0.00      1.70      0.85
SRCPARAM L0000190     0.00000009828      0.00      1.70      0.85
SRCPARAM L0000191     0.00000009828      0.00      1.70      0.85
SRCPARAM L0000192     0.00000009828      0.00      1.70      0.85
SRCPARAM L0000193     0.00000009828      0.00      1.70      0.85
SRCPARAM L0000194     0.00000009828      0.00      1.70      0.85
SRCPARAM L0000195     0.00000009828      0.00      1.70      0.85
SRCPARAM L0000196     0.00000009828      0.00      1.70      0.85
SRCPARAM L0000197     0.00000009828      0.00      1.70      0.85
SRCPARAM L0000198     0.00000009828      0.00      1.70      0.85
SRCPARAM L0000199     0.00000009828      0.00      1.70      0.85
SRCPARAM L0000200     0.00000009828      0.00      1.70      0.85
SRCPARAM L0000201     0.00000009828      0.00      1.70      0.85
SRCPARAM L0000202     0.00000009828      0.00      1.70      0.85
SRCPARAM L0000203     0.00000009828      0.00      1.70      0.85
SRCPARAM L0000204     0.00000009828      0.00      1.70      0.85
SRCPARAM L0000205     0.00000009828      0.00      1.70      0.85
SRCPARAM L0000206     0.00000009828      0.00      1.70      0.85
SRCPARAM L0000207     0.00000009828      0.00      1.70      0.85
SRCPARAM L0000208     0.00000009828      0.00      1.70      0.85
SRCPARAM L0000209     0.00000009828      0.00      1.70      0.85
SRCPARAM L0000210     0.00000009828      0.00      1.70      0.85
SRCPARAM L0000211     0.00000009828      0.00      1.70      0.85
SRCPARAM L0000212     0.00000009828      0.00      1.70      0.85
SRCPARAM L0000213     0.00000009828      0.00      1.70      0.85
SRCPARAM L0000214     0.00000009828      0.00      1.70      0.85
SRCPARAM L0000215     0.00000009828      0.00      1.70      0.85
SRCPARAM L0000216     0.00000009828      0.00      1.70      0.85
SRCPARAM L0000217     0.00000009828      0.00      1.70      0.85
SRCPARAM L0000218     0.00000009828      0.00      1.70      0.85
SRCPARAM L0000219     0.00000009828      0.00      1.70      0.85
SRCPARAM L0000220     0.00000009828      0.00      1.70      0.85
SRCPARAM L0000221     0.00000009828      0.00      1.70      0.85
SRCPARAM L0000222     0.00000009828      0.00      1.70      0.85
SRCPARAM L0000223     0.00000009828      0.00      1.70      0.85
SRCPARAM L0000224     0.00000009828      0.00      1.70      0.85
SRCPARAM L0000225     0.00000009828      0.00      1.70      0.85
SRCPARAM L0000226     0.00000009828      0.00      1.70      0.85
SRCPARAM L0000227     0.00000009828      0.00      1.70      0.85
SRCPARAM L0000228     0.00000009828      0.00      1.70      0.85
SRCPARAM L0000229     0.00000009828      0.00      1.70      0.85
```

```
SRCPARAM L0000230     0.00000009828      0.00      1.70      0.85
SRCPARAM L0000231     0.00000009828      0.00      1.70      0.85
SRCPARAM L0000232     0.00000009828      0.00      1.70      0.85
SRCPARAM L0000233     0.00000009828      0.00      1.70      0.85
SRCPARAM L0000234     0.00000009828      0.00      1.70      0.85
SRCPARAM L0000235     0.00000009828      0.00      1.70      0.85
SRCPARAM L0000236     0.00000009828      0.00      1.70      0.85
SRCPARAM L0000237     0.00000009828      0.00      1.70      0.85
SRCPARAM L0000238     0.00000009828      0.00      1.70      0.85
SRCPARAM L0000239     0.00000009828      0.00      1.70      0.85
SRCPARAM L0000240     0.00000009828      0.00      1.70      0.85
SRCPARAM L0000241     0.00000009828      0.00      1.70      0.85
SRCPARAM L0000242     0.00000009828      0.00      1.70      0.85
SRCPARAM L0000243     0.00000009828      0.00      1.70      0.85
SRCPARAM L0000244     0.00000009828      0.00      1.70      0.85
SRCPARAM L0000245     0.00000009828      0.00      1.70      0.85
SRCPARAM L0000246     0.00000009828      0.00      1.70      0.85
SRCPARAM L0000247     0.00000009828      0.00      1.70      0.85
SRCPARAM L0000248     0.00000009828      0.00      1.70      0.85
SRCPARAM L0000249     0.00000009828      0.00      1.70      0.85
SRCPARAM L0000250     0.00000009828      0.00      1.70      0.85
SRCPARAM L0000251     0.00000009828      0.00      1.70      0.85
SRCPARAM L0000252     0.00000009828      0.00      1.70      0.85
SRCPARAM L0000253     0.00000009828      0.00      1.70      0.85
SRCPARAM L0000254     0.00000009828      0.00      1.70      0.85
SRCPARAM L0000255     0.00000009828      0.00      1.70      0.85
SRCPARAM L0000256     0.00000009828      0.00      1.70      0.85
SRCPARAM L0000257     0.00000009828      0.00      1.70      0.85
SRCPARAM L0000258     0.00000009828      0.00      1.70      0.85
SRCPARAM L0000259     0.00000009828      0.00      1.70      0.85
SRCPARAM L0000260     0.00000009828      0.00      1.70      0.85
SRCPARAM L0000261     0.00000009828      0.00      1.70      0.85
SRCPARAM L0000262     0.00000009828      0.00      1.70      0.85
SRCPARAM L0000263     0.00000009828      0.00      1.70      0.85
SRCPARAM L0000264     0.00000009828      0.00      1.70      0.85
SRCPARAM L0000265     0.00000009828      0.00      1.70      0.85
SRCPARAM L0000266     0.00000009828      0.00      1.70      0.85
SRCPARAM L0000267     0.00000009828      0.00      1.70      0.85
SRCPARAM L0000268     0.00000009828      0.00      1.70      0.85
SRCPARAM L0000269     0.00000009828      0.00      1.70      0.85
SRCPARAM L0000270     0.00000009828      0.00      1.70      0.85
SRCPARAM L0000271     0.00000009828      0.00      1.70      0.85
SRCPARAM L0000272     0.00000009828      0.00      1.70      0.85
SRCPARAM L0000273     0.00000009828      0.00      1.70      0.85
SRCPARAM L0000274     0.00000009828      0.00      1.70      0.85
SRCPARAM L0000275     0.00000009828      0.00      1.70      0.85
SRCPARAM L0000276     0.00000009828      0.00      1.70      0.85
SRCPARAM L0000277     0.00000009828      0.00      1.70      0.85
SRCPARAM L0000278     0.00000009828      0.00      1.70      0.85
SRCPARAM L0000279     0.00000009828      0.00      1.70      0.85
SRCPARAM L0000280     0.00000009828      0.00      1.70      0.85
```

```
   SRCPARAM L0000281     0.00000009828      0.00      1.70      0.85
   SRCPARAM L0000282     0.00000009828      0.00      1.70      0.85
   SRCPARAM L0000283     0.00000009828      0.00      1.70      0.85
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE4
   SRCPARAM L0000514     0.00000004333      0.00      1.70      0.85
   SRCPARAM L0000515     0.00000004333      0.00      1.70      0.85
   SRCPARAM L0000516     0.00000004333      0.00      1.70      0.85
   SRCPARAM L0000517     0.00000004333      0.00      1.70      0.85
   SRCPARAM L0000518     0.00000004333      0.00      1.70      0.85
   SRCPARAM L0000519     0.00000004333      0.00      1.70      0.85
   SRCPARAM L0000520     0.00000004333      0.00      1.70      0.85
   SRCPARAM L0000521     0.00000004333      0.00      1.70      0.85
   SRCPARAM L0000522     0.00000004333      0.00      1.70      0.85
   SRCPARAM L0000523     0.00000004333      0.00      1.70      0.85
   SRCPARAM L0000524     0.00000004333      0.00      1.70      0.85
   SRCPARAM L0000525     0.00000004333      0.00      1.70      0.85
   SRCPARAM L0000526     0.00000004333      0.00      1.70      0.85
   SRCPARAM L0000527     0.00000004333      0.00      1.70      0.85
   SRCPARAM L0000528     0.00000004333      0.00      1.70      0.85
   SRCPARAM L0000529     0.00000004333      0.00      1.70      0.85
   SRCPARAM L0000530     0.00000004333      0.00      1.70      0.85
   SRCPARAM L0000531     0.00000004333      0.00      1.70      0.85
   SRCPARAM L0000532     0.00000004333      0.00      1.70      0.85
   SRCPARAM L0000533     0.00000004333      0.00      1.70      0.85
   SRCPARAM L0000534     0.00000004333      0.00      1.70      0.85
   SRCPARAM L0000535     0.00000004333      0.00      1.70      0.85
   SRCPARAM L0000536     0.00000004333      0.00      1.70      0.85
   SRCPARAM L0000537     0.00000004333      0.00      1.70      0.85
   SRCPARAM L0000538     0.00000004333      0.00      1.70      0.85
   SRCPARAM L0000539     0.00000004333      0.00      1.70      0.85
   SRCPARAM L0000540     0.00000004333      0.00      1.70      0.85
   SRCPARAM L0000541     0.00000004333      0.00      1.70      0.85
   SRCPARAM L0000542     0.00000004333      0.00      1.70      0.85
   SRCPARAM L0000543     0.00000004333      0.00      1.70      0.85
   SRCPARAM L0000544     0.00000004333      0.00      1.70      0.85
   SRCPARAM L0000545     0.00000004333      0.00      1.70      0.85
   SRCPARAM L0000546     0.00000004333      0.00      1.70      0.85
   SRCPARAM L0000547     0.00000004333      0.00      1.70      0.85
   SRCPARAM L0000548     0.00000004333      0.00      1.70      0.85
   SRCPARAM L0000549     0.00000004333      0.00      1.70      0.85
   SRCPARAM L0000550     0.00000004333      0.00      1.70      0.85
   SRCPARAM L0000551     0.00000004333      0.00      1.70      0.85
   SRCPARAM L0000552     0.00000004333      0.00      1.70      0.85
   SRCPARAM L0000553     0.00000004333      0.00      1.70      0.85
   SRCPARAM L0000554     0.00000004333      0.00      1.70      0.85
   SRCPARAM L0000555     0.00000004333      0.00      1.70      0.85
   SRCPARAM L0000556     0.00000004333      0.00      1.70      0.85
   SRCPARAM L0000557     0.00000004333      0.00      1.70      0.85
   SRCPARAM L0000558     0.00000004333      0.00      1.70      0.85
   SRCPARAM L0000559     0.00000004333      0.00      1.70      0.85
```

```
   SRCPARAM L0000560     0.00000004333      0.00      1.70      0.85
   SRCPARAM L0000561     0.00000004333      0.00      1.70      0.85
   SRCPARAM L0000562     0.00000004333      0.00      1.70      0.85
   SRCPARAM L0000563     0.00000004333      0.00      1.70      0.85
   SRCPARAM L0000564     0.00000004333      0.00      1.70      0.85
   SRCPARAM L0000565     0.00000004333      0.00      1.70      0.85
   SRCPARAM L0000566     0.00000004333      0.00      1.70      0.85
   SRCPARAM L0000567     0.00000004333      0.00      1.70      0.85
   SRCPARAM L0000568     0.00000004333      0.00      1.70      0.85
   SRCPARAM L0000569     0.00000004333      0.00      1.70      0.85
   SRCPARAM L0000570     0.00000004333      0.00      1.70      0.85
   SRCPARAM L0000571     0.00000004333      0.00      1.70      0.85
   SRCPARAM L0000572     0.00000004333      0.00      1.70      0.85
   SRCPARAM L0000573     0.00000004333      0.00      1.70      0.85
   SRCPARAM L0000574     0.00000004333      0.00      1.70      0.85
   SRCPARAM L0000575     0.00000004333      0.00      1.70      0.85
   SRCPARAM L0000576     0.00000004333      0.00      1.70      0.85
   SRCPARAM L0000577     0.00000004333      0.00      1.70      0.85
   SRCPARAM L0000578     0.00000004333      0.00      1.70      0.85
   SRCPARAM L0000579     0.00000004333      0.00      1.70      0.85
   SRCPARAM L0000580     0.00000004333      0.00      1.70      0.85
   SRCPARAM L0000581     0.00000004333      0.00      1.70      0.85
   SRCPARAM L0000582     0.00000004333      0.00      1.70      0.85
   SRCPARAM L0000583     0.00000004333      0.00      1.70      0.85
   SRCPARAM L0000584     0.00000004333      0.00      1.70      0.85
   SRCPARAM L0000585     0.00000004333      0.00      1.70      0.85
   SRCPARAM L0000586     0.00000004333      0.00      1.70      0.85
   SRCPARAM L0000587     0.00000004333      0.00      1.70      0.85
   SRCPARAM L0000588     0.00000004333      0.00      1.70      0.85
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE5
   SRCPARAM L0000589     0.00000007078      0.00      1.70      0.85
   SRCPARAM L0000590     0.00000007078      0.00      1.70      0.85
   SRCPARAM L0000591     0.00000007078      0.00      1.70      0.85
   SRCPARAM L0000592     0.00000007078      0.00      1.70      0.85
   SRCPARAM L0000593     0.00000007078      0.00      1.70      0.85
   SRCPARAM L0000594     0.00000007078      0.00      1.70      0.85
   SRCPARAM L0000595     0.00000007078      0.00      1.70      0.85
   SRCPARAM L0000596     0.00000007078      0.00      1.70      0.85
   SRCPARAM L0000597     0.00000007078      0.00      1.70      0.85
   SRCPARAM L0000598     0.00000007078      0.00      1.70      0.85
   SRCPARAM L0000599     0.00000007078      0.00      1.70      0.85
   SRCPARAM L0000600     0.00000007078      0.00      1.70      0.85
   SRCPARAM L0000601     0.00000007078      0.00      1.70      0.85
   SRCPARAM L0000602     0.00000007078      0.00      1.70      0.85
   SRCPARAM L0000603     0.00000007078      0.00      1.70      0.85
   SRCPARAM L0000604     0.00000007078      0.00      1.70      0.85
   SRCPARAM L0000605     0.00000007078      0.00      1.70      0.85
   SRCPARAM L0000606     0.00000007078      0.00      1.70      0.85
   SRCPARAM L0000607     0.00000007078      0.00      1.70      0.85
   SRCPARAM L0000608     0.00000007078      0.00      1.70      0.85
```

```
SRCPARAM L0000609     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000610     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000611     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000612     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000613     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000614     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000615     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000616     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000617     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000618     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000619     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000620     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000621     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000622     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000623     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000624     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000625     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000626     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000627     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000628     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000629     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000630     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000631     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000632     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000633     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000634     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000635     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000636     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000637     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000638     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000639     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000640     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000641     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000642     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000643     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000644     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000645     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000646     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000647     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000648     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000649     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000650     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000651     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000652     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000653     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000654     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000655     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000656     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000657     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000658     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000659     0.00000007078      0.00      1.70      0.85
```

```
SRCPARAM L0000660     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000661     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000662     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000663     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000664     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000665     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000666     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000667     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000668     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000669     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000670     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000671     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000672     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000673     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000674     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000675     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000676     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000677     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000678     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000679     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000680     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000681     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000682     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000683     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000684     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000685     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000686     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000687     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000688     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000689     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000690     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000691     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000692     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000693     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000694     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000695     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000696     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000697     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000698     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000699     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000700     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000701     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000702     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000703     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000704     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000705     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000706     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000707     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000708     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000709     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000710     0.00000007078      0.00      1.70      0.85
```

```
SRCPARAM L0000711     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000712     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000713     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000714     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000715     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000716     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000717     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000718     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000719     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000720     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000721     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000722     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000723     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000724     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000725     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000726     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000727     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000728     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000729     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000730     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000731     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000732     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000733     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000734     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000735     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000736     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000737     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000738     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000739     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000740     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000741     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000742     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000743     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000744     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000745     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000746     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000747     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000748     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000749     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000750     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000751     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000752     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000753     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000754     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000755     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000756     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000757     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000758     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000759     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000760     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000761     0.00000007078      0.00      1.70      0.85
```

```
SRCPARAM L0000762     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000763     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000764     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000765     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000766     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000767     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000768     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000769     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000770     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000771     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000772     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000773     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000774     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000775     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000776     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000777     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000778     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000779     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000780     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000781     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000782     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000783     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000784     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000785     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000786     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000787     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000788     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000789     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000790     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000791     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000792     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000793     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000794     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000795     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000796     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000797     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000798     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000799     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000800     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000801     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000802     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000803     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000804     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000805     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000806     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000807     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000808     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000809     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000810     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000811     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000812     0.00000007078      0.00      1.70      0.85
```

```
SRCPARAM L0000813     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000814     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000815     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000816     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000817     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000818     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000819     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000820     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000821     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000822     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000823     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000824     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000825     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000826     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000827     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000828     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000829     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000830     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000831     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000832     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000833     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000834     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000835     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000836     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000837     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000838     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000839     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000840     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000841     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000842     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000843     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000844     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000845     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000846     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000847     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000848     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000849     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000850     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000851     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000852     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000853     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000854     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000855     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000856     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000857     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000858     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000859     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000860     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000861     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000862     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000863     0.00000007078      0.00      1.70      0.85
```

```
SRCPARAM L0000864     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000865     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000866     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000867     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000868     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000869     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000870     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000871     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000872     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000873     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000874     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000875     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000876     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000877     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000878     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000879     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000880     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000881     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000882     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000883     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000884     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000885     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000886     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000887     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000888     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000889     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000890     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000891     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000892     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000893     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000894     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000895     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000896     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000897     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000898     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000899     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000900     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000901     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000902     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000903     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000904     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000905     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000906     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000907     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000908     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000909     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000910     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000911     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000912     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000913     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000914     0.00000007078      0.00      1.70      0.85
```

```
SRCPARAM L0000915     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000916     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000917     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000918     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000919     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000920     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000921     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000922     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000923     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000924     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000925     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000926     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000927     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000928     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000929     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000930     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000931     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000932     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000933     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000934     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000935     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000936     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000937     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000938     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000939     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000940     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000941     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000942     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000943     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000944     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000945     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000946     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000947     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000948     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000949     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000950     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000951     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000952     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000953     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000954     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000955     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000956     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000957     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000958     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000959     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000960     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000961     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000962     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000963     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000964     0.00000007078      0.00      1.70      0.85
SRCPARAM L0000965     0.00000007078      0.00      1.70      0.85
```

```
   SRCPARAM L0000966     0.00000007078      0.00      1.70      0.85
   SRCPARAM L0000967     0.00000007078      0.00      1.70      0.85
   SRCPARAM L0000968     0.00000007078      0.00      1.70      0.85
   SRCPARAM L0000969     0.00000007078      0.00      1.70      0.85
   SRCPARAM L0000970     0.00000007078      0.00      1.70      0.85
   SRCPARAM L0000971     0.00000007078      0.00      1.70      0.85
   SRCPARAM L0000972     0.00000007078      0.00      1.70      0.85
   SRCPARAM L0000973     0.00000007078      0.00      1.70      0.85
   SRCPARAM L0000974     0.00000007078      0.00      1.70      0.85
   SRCPARAM L0000975     0.00000007078      0.00      1.70      0.85
   SRCPARAM L0000976     0.00000007078      0.00      1.70      0.85
   SRCPARAM L0000977     0.00000007078      0.00      1.70      0.85
   SRCPARAM L0000978     0.00000007078      0.00      1.70      0.85
   SRCPARAM L0000979     0.00000007078      0.00      1.70      0.85
   SRCPARAM L0000980     0.00000007078      0.00      1.70      0.85
   SRCPARAM L0000981     0.00000007078      0.00      1.70      0.85
   SRCPARAM L0000982     0.00000007078      0.00      1.70      0.85
   SRCPARAM L0000983     0.00000007078      0.00      1.70      0.85
   SRCPARAM L0000984     0.00000007078      0.00      1.70      0.85
   SRCPARAM L0000985     0.00000007078      0.00      1.70      0.85
   SRCPARAM L0000986     0.00000007078      0.00      1.70      0.85
   SRCPARAM L0000987     0.00000007078      0.00      1.70      0.85
   SRCPARAM L0000988     0.00000007078      0.00      1.70      0.85
   SRCPARAM L0000989     0.00000007078      0.00      1.70      0.85
   SRCPARAM L0000990     0.00000007078      0.00      1.70      0.85
   SRCPARAM L0000991     0.00000007078      0.00      1.70      0.85
   SRCPARAM L0000992     0.00000007078      0.00      1.70      0.85
   SRCPARAM L0000993     0.00000007078      0.00      1.70      0.85
   SRCPARAM L0000994     0.00000007078      0.00      1.70      0.85
   SRCPARAM L0000995     0.00000007078      0.00      1.70      0.85
   SRCPARAM L0000996     0.00000007078      0.00      1.70      0.85
   SRCPARAM L0000997     0.00000007078      0.00      1.70      0.85
   SRCPARAM L0000998     0.00000007078      0.00      1.70      0.85
   SRCPARAM L0000999     0.00000007078      0.00      1.70      0.85
   SRCPARAM L0001000     0.00000007078      0.00      1.70      0.85
   SRCPARAM L0001001     0.00000007078      0.00      1.70      0.85
   SRCPARAM L0001002     0.00000007078      0.00      1.70      0.85
   SRCPARAM L0001003     0.00000007078      0.00      1.70      0.85
   SRCPARAM L0001004     0.00000007078      0.00      1.70      0.85
   SRCPARAM L0001005     0.00000007078      0.00      1.70      0.85
   SRCPARAM L0001006     0.00000007078      0.00      1.70      0.85
   SRCPARAM L0001007     0.00000007078      0.00      1.70      0.85
   SRCPARAM L0001008     0.00000007078      0.00      1.70      0.85
   SRCPARAM L0001009     0.00000007078      0.00      1.70      0.85
** ------------------------------------------------------------------

** Building Downwash **
   BUILDHGT STCK1           10.97    10.97    10.97    10.97    10.97    10.97
   BUILDHGT STCK1           10.97    10.97    10.97    10.97    10.97    10.97
   BUILDHGT STCK1           10.97    10.97    10.97    10.97    10.97    10.97
   BUILDHGT STCK1           10.97    10.97    10.97    10.97    10.97    10.97
```

```
BUILDHGT STCK1          10.97    10.97    10.97    10.97    10.97    10.97
BUILDHGT STCK1          10.97    10.97    10.97    10.97    10.97    10.97

BUILDHGT STCK2          10.97    10.97    10.97    10.97    10.97    10.97
BUILDHGT STCK2          10.97    10.97    10.97    10.97    10.97    10.97
BUILDHGT STCK2          10.97    10.97    10.97    10.97    10.97    10.97
BUILDHGT STCK2          10.97    10.97    10.97    10.97    10.97    10.97
BUILDHGT STCK2          10.97    10.97    10.97    10.97    10.97    10.97
BUILDHGT STCK2          10.97    10.97    10.97    10.97    10.97    10.97

BUILDHGT STCK3          10.97    10.97    10.97    10.97    10.97    10.97
BUILDHGT STCK3          10.97    10.97    10.97    10.97    10.97    10.97
BUILDHGT STCK3          10.97    10.97    10.97    10.97    10.97    10.97
BUILDHGT STCK3          10.97    10.97    10.97    10.97    10.97    10.97
BUILDHGT STCK3          10.97    10.97    10.97    10.97    10.97    10.97
BUILDHGT STCK3          10.97    10.97    10.97    10.97    10.97    10.97

BUILDHGT STCK4          10.97    10.97    10.97    10.97    10.97    10.97
BUILDHGT STCK4          10.97    10.97    10.97    10.97    10.97    10.97
BUILDHGT STCK4          10.97    10.97    10.97    10.97    10.97    10.97
BUILDHGT STCK4          10.97    10.97    10.97    10.97    10.97    10.97
BUILDHGT STCK4          10.97    10.97    10.97    10.97    10.97    10.97
BUILDHGT STCK4          10.97    10.97    10.97    10.97    10.97    10.97

BUILDHGT STCK5          10.97    10.97    10.97    10.97    10.97    10.97
BUILDHGT STCK5          10.97    10.97    10.97    10.97    10.97    10.97
BUILDHGT STCK5          10.97    10.97    10.97    10.97    10.97    10.97
BUILDHGT STCK5          10.97    10.97    10.97    10.97    10.97    10.97
BUILDHGT STCK5          10.97    10.97    10.97    10.97    10.97    10.97
BUILDHGT STCK5          10.97    10.97    10.97    10.97    10.97    10.97

BUILDHGT STCK6          10.97    10.97    10.97    10.97    10.97    10.97
BUILDHGT STCK6          10.97    10.97    10.97    10.97    10.97    10.97
BUILDHGT STCK6          10.97    10.97    10.97    10.97    10.97    10.97
BUILDHGT STCK6          10.97    10.97    10.97    10.97    10.97    10.97
BUILDHGT STCK6          10.97    10.97    10.97    10.97    10.97    10.97
BUILDHGT STCK6          10.97    10.97    10.97    10.97    10.97    10.97

BUILDWID STCK1         264.00   270.42   268.61   258.65   240.82   215.68
BUILDWID STCK1         183.99   146.70   107.24   144.21   176.80   205.75
BUILDWID STCK1         231.78   250.76   262.13   265.53   260.86   249.57
BUILDWID STCK1         264.00   270.42   268.61   258.65   240.82   215.68
BUILDWID STCK1         183.99   146.70   107.24   144.21   176.80   205.75
BUILDWID STCK1         231.78   250.76   262.13   265.53   260.86   249.57

BUILDWID STCK2         264.00   270.42   268.61   258.65   240.82   215.68
BUILDWID STCK2         183.99   146.70   107.24   144.21   176.80   205.75
BUILDWID STCK2         231.78   250.76   262.13   265.53   260.86   249.57
BUILDWID STCK2         264.00   270.42   268.61   258.65   240.82   215.68
BUILDWID STCK2         183.99   146.70   107.24   144.21   176.80   205.75
BUILDWID STCK2         231.78   250.76   262.13   265.53   260.86   249.57
```

```
BUILDWID STCK3          264.00   270.42   268.61   258.65   240.82   215.68
BUILDWID STCK3          183.99   146.70   107.24   144.21   176.80   205.75
BUILDWID STCK3          231.78   250.76   262.13   265.53   260.86   249.57
BUILDWID STCK3          264.00   270.42   268.61   258.65   240.82   215.68
BUILDWID STCK3          183.99   146.70   107.24   144.21   176.80   205.75
BUILDWID STCK3          231.78   250.76   262.13   265.53   260.86   249.57

BUILDWID STCK4          264.00   270.42   268.61   258.65   240.82   215.68
BUILDWID STCK4          183.99   146.70   107.24   144.21   176.80   205.75
BUILDWID STCK4          231.78   250.76   262.13   265.53   260.86   249.57
BUILDWID STCK4          264.00   270.42   268.61   258.65   240.82   215.68
BUILDWID STCK4          183.99   146.70   107.24   144.21   176.80   205.75
BUILDWID STCK4          231.78   250.76   262.13   265.53   260.86   249.57

BUILDWID STCK5          264.00   270.42   268.61   258.65   240.82   215.68
BUILDWID STCK5          183.99   146.70   107.24   144.21   176.80   205.75
BUILDWID STCK5          231.78   250.76   262.13   265.53   260.86   249.57
BUILDWID STCK5          264.00   270.42   268.61   258.65   240.82   215.68
BUILDWID STCK5          183.99   146.70   107.24   144.21   176.80   205.75
BUILDWID STCK5          231.78   250.76   262.13   265.53   260.86   249.57

BUILDWID STCK6          264.00   270.42   268.61   258.65   240.82   215.68
BUILDWID STCK6          183.99   146.70   107.24   144.21   176.80   205.75
BUILDWID STCK6          231.78   250.76   262.13   265.53   260.86   249.57
BUILDWID STCK6          264.00   270.42   268.61   258.65   240.82   215.68
BUILDWID STCK6          183.99   146.70   107.24   144.21   176.80   205.75
BUILDWID STCK6          231.78   250.76   262.13   265.53   260.86   249.57

BUILDLEN STCK1          144.21   176.80   205.75   231.78   250.76   262.13
BUILDLEN STCK1          265.53   260.86   249.57   264.00   270.42   268.61
BUILDLEN STCK1          258.65   240.82   215.68   183.99   146.70   107.24
BUILDLEN STCK1          144.21   176.80   205.75   231.78   250.76   262.13
BUILDLEN STCK1          265.53   260.86   249.57   264.00   270.42   268.61
BUILDLEN STCK1          258.65   240.82   215.68   183.99   146.70   107.24

BUILDLEN STCK2          144.21   176.80   205.75   231.78   250.76   262.13
BUILDLEN STCK2          265.53   260.86   249.57   264.00   270.42   268.61
BUILDLEN STCK2          258.65   240.82   215.68   183.99   146.70   107.24
BUILDLEN STCK2          144.21   176.80   205.75   231.78   250.76   262.13
BUILDLEN STCK2          265.53   260.86   249.57   264.00   270.42   268.61
BUILDLEN STCK2          258.65   240.82   215.68   183.99   146.70   107.24

BUILDLEN STCK3          144.21   176.80   205.75   231.78   250.76   262.13
BUILDLEN STCK3          265.53   260.86   249.57   264.00   270.42   268.61
BUILDLEN STCK3          258.65   240.82   215.68   183.99   146.70   107.24
BUILDLEN STCK3          144.21   176.80   205.75   231.78   250.76   262.13
BUILDLEN STCK3          265.53   260.86   249.57   264.00   270.42   268.61
BUILDLEN STCK3          258.65   240.82   215.68   183.99   146.70   107.24

BUILDLEN STCK4          144.21   176.80   205.75   231.78   250.76   262.13
```

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| BUILDLEN | STCK4 | 265.53 | 260.86 | 249.57 | 264.00 | 270.42 | 268.61 |
| BUILDLEN | STCK4 | 258.65 | 240.82 | 215.68 | 183.99 | 146.70 | 107.24 |
| BUILDLEN | STCK4 | 144.21 | 176.80 | 205.75 | 231.78 | 250.76 | 262.13 |
| BUILDLEN | STCK4 | 265.53 | 260.86 | 249.57 | 264.00 | 270.42 | 268.61 |
| BUILDLEN | STCK4 | 258.65 | 240.82 | 215.68 | 183.99 | 146.70 | 107.24 |
| BUILDLEN | STCK5 | 144.21 | 176.80 | 205.75 | 231.78 | 250.76 | 262.13 |
| BUILDLEN | STCK5 | 265.53 | 260.86 | 249.57 | 264.00 | 270.42 | 268.61 |
| BUILDLEN | STCK5 | 258.65 | 240.82 | 215.68 | 183.99 | 146.70 | 107.24 |
| BUILDLEN | STCK5 | 144.21 | 176.80 | 205.75 | 231.78 | 250.76 | 262.13 |
| BUILDLEN | STCK5 | 265.53 | 260.86 | 249.57 | 264.00 | 270.42 | 268.61 |
| BUILDLEN | STCK5 | 258.65 | 240.82 | 215.68 | 183.99 | 146.70 | 107.24 |
| BUILDLEN | STCK6 | 144.21 | 176.80 | 205.75 | 231.78 | 250.76 | 262.13 |
| BUILDLEN | STCK6 | 265.53 | 260.86 | 249.57 | 264.00 | 270.42 | 268.61 |
| BUILDLEN | STCK6 | 258.65 | 240.82 | 215.68 | 183.99 | 146.70 | 107.24 |
| BUILDLEN | STCK6 | 144.21 | 176.80 | 205.75 | 231.78 | 250.76 | 262.13 |
| BUILDLEN | STCK6 | 265.53 | 260.86 | 249.57 | 264.00 | 270.42 | 268.61 |
| BUILDLEN | STCK6 | 258.65 | 240.82 | 215.68 | 183.99 | 146.70 | 107.24 |
| XBADJ | STCK1 | -115.36 | -116.76 | -114.61 | -108.97 | -100.03 | -88.04 |
| XBADJ | STCK1 | -73.38 | -56.50 | -38.21 | -36.96 | -34.58 | -31.16 |
| XBADJ | STCK1 | -26.78 | -21.60 | -15.75 | -9.43 | -2.82 | 3.22 |
| XBADJ | STCK1 | -28.85 | -60.04 | -91.14 | -122.80 | -150.73 | -174.08 |
| XBADJ | STCK1 | -192.15 | -204.37 | -211.36 | -227.05 | -235.84 | -237.46 |
| XBADJ | STCK1 | -231.87 | -219.23 | -199.93 | -174.56 | -143.88 | -110.46 |
| XBADJ | STCK2 | -121.68 | -128.23 | -130.88 | -129.56 | -124.30 | -115.26 |
| XBADJ | STCK2 | -102.72 | -87.06 | -69.08 | -67.19 | -63.26 | -57.41 |
| XBADJ | STCK2 | -49.81 | -40.70 | -30.35 | -19.08 | -7.23 | 4.19 |
| XBADJ | STCK2 | -22.53 | -48.57 | -74.87 | -102.22 | -126.46 | -146.87 |
| XBADJ | STCK2 | -162.80 | -173.80 | -180.49 | -196.81 | -207.16 | -211.21 |
| XBADJ | STCK2 | -208.84 | -200.13 | -185.33 | -164.91 | -139.47 | -111.43 |
| XBADJ | STCK3 | -126.63 | -137.65 | -144.49 | -146.94 | -144.93 | -138.51 |
| XBADJ | STCK3 | -127.88 | -113.37 | -95.73 | -93.38 | -88.19 | -80.32 |
| XBADJ | STCK3 | -70.01 | -57.57 | -43.39 | -27.88 | -11.53 | 4.52 |
| XBADJ | STCK3 | -17.58 | -39.14 | -61.26 | -84.84 | -105.84 | -123.62 |
| XBADJ | STCK3 | -137.65 | -147.50 | -153.84 | -170.63 | -182.23 | -188.29 |
| XBADJ | STCK3 | -188.64 | -183.25 | -172.30 | -156.10 | -135.17 | -111.76 |
| XBADJ | STCK4 | -131.99 | -148.21 | -159.93 | -166.78 | -168.57 | -165.24 |
| XBADJ | STCK4 | -156.89 | -143.77 | -126.60 | -123.78 | -117.20 | -107.05 |
| XBADJ | STCK4 | -93.66 | -77.42 | -58.82 | -38.44 | -16.89 | 4.52 |
| XBADJ | STCK4 | -12.22 | -28.59 | -45.82 | -64.99 | -82.19 | -96.89 |
| XBADJ | STCK4 | -108.64 | -117.09 | -122.97 | -140.23 | -153.22 | -161.56 |
| XBADJ | STCK4 | -164.99 | -163.41 | -156.86 | -145.55 | -129.81 | -111.76 |
| XBADJ | STCK5 | -136.96 | -157.99 | -174.23 | -185.17 | -190.48 | -190.01 |
| XBADJ | STCK5 | -183.76 | -171.93 | -155.20 | -151.94 | -144.07 | -131.82 |
| XBADJ | STCK5 | -115.57 | -95.80 | -73.12 | -48.22 | -21.86 | 4.52 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| XBADJ | STCK5 | -7.25 | -18.80 | -31.52 | -46.61 | -60.28 | -72.12 |
| XBADJ | STCK5 | -81.77 | -88.93 | -94.37 | -112.06 | -126.35 | -136.79 |
| XBADJ | STCK5 | -143.08 | -145.02 | -142.56 | -135.76 | -124.84 | -111.76 |
| XBADJ | STCK6 | -142.35 | -168.30 | -189.13 | -204.21 | -213.10 | -215.50 |
| XBADJ | STCK6 | -211.36 | -200.80 | -184.45 | -180.69 | -171.45 | -156.99 |
| XBADJ | STCK6 | -137.77 | -114.36 | -87.47 | -57.93 | -26.62 | 4.84 |
| XBADJ | STCK6 | -1.86 | -8.50 | -16.62 | -27.56 | -37.67 | -46.63 |
| XBADJ | STCK6 | -54.17 | -60.07 | -65.12 | -83.31 | -98.97 | -111.62 |
| XBADJ | STCK6 | -120.88 | -126.47 | -128.21 | -126.06 | -120.08 | -112.08 |
| YBADJ | STCK1 | -95.04 | -100.63 | -103.15 | -102.54 | -98.82 | -92.09 |
| YBADJ | STCK1 | -82.56 | -70.53 | -56.84 | -43.26 | -28.36 | -11.73 |
| YBADJ | STCK1 | 6.92 | 25.35 | 43.02 | 59.38 | 73.94 | 86.58 |
| YBADJ | STCK1 | 95.04 | 100.63 | 103.15 | 102.54 | 98.82 | 92.09 |
| YBADJ | STCK1 | 82.56 | 70.53 | 56.84 | 43.26 | 28.36 | 11.73 |
| YBADJ | STCK1 | -6.92 | -25.35 | -43.02 | -59.38 | -73.94 | -86.58 |
| YBADJ | STCK2 | -64.81 | -71.95 | -76.90 | -79.52 | -79.72 | -77.49 |
| YBADJ | STCK2 | -72.92 | -66.12 | -57.81 | -49.57 | -39.83 | -28.01 |
| YBADJ | STCK2 | -13.67 | 1.08 | 15.80 | 30.04 | 43.37 | 55.71 |
| YBADJ | STCK2 | 64.81 | 71.95 | 76.90 | 79.52 | 79.72 | 77.49 |
| YBADJ | STCK2 | 72.92 | 66.12 | 57.81 | 49.57 | 39.83 | 28.01 |
| YBADJ | STCK2 | 13.67 | -1.08 | -15.80 | -30.04 | -43.37 | -55.71 |
| YBADJ | STCK3 | -38.62 | -47.02 | -53.99 | -59.31 | -62.84 | -64.45 |
| YBADJ | STCK3 | -64.11 | -61.82 | -58.14 | -54.53 | -49.25 | -41.62 |
| YBADJ | STCK3 | -31.05 | -19.55 | -7.44 | 4.88 | 17.06 | 29.06 |
| YBADJ | STCK3 | 38.62 | 47.02 | 53.99 | 59.31 | 62.84 | 64.45 |
| YBADJ | STCK3 | 64.11 | 61.82 | 58.14 | 54.53 | 49.25 | 41.62 |
| YBADJ | STCK3 | 31.05 | 19.55 | 7.44 | -4.88 | -17.06 | -29.06 |
| YBADJ | STCK4 | -8.22 | -18.01 | -27.25 | -35.67 | -43.00 | -49.02 |
| YBADJ | STCK4 | -53.55 | -56.46 | -58.14 | -59.89 | -59.81 | -57.05 |
| YBADJ | STCK4 | -50.90 | -43.19 | -34.18 | -24.12 | -13.34 | -1.81 |
| YBADJ | STCK4 | 8.22 | 18.01 | 27.25 | 35.67 | 43.00 | 49.02 |
| YBADJ | STCK4 | 53.55 | 56.46 | 58.14 | 59.89 | 59.81 | 57.05 |
| YBADJ | STCK4 | 50.90 | 43.19 | 34.18 | 24.12 | 13.34 | 1.81 |
| YBADJ | STCK5 | 19.94 | 8.86 | -2.48 | -13.76 | -24.61 | -34.72 |
| YBADJ | STCK5 | -43.77 | -51.49 | -58.14 | -64.85 | -69.59 | -71.35 |
| YBADJ | STCK5 | -69.28 | -65.10 | -58.95 | -51.00 | -41.50 | -30.41 |
| YBADJ | STCK5 | -19.94 | -8.86 | 2.48 | 13.76 | 24.61 | 34.72 |
| YBADJ | STCK5 | 43.77 | 51.49 | 58.14 | 64.85 | 69.59 | 71.35 |
| YBADJ | STCK5 | 69.28 | 65.10 | 58.95 | 51.00 | 41.50 | 30.41 |
| YBADJ | STCK6 | 48.69 | 36.24 | 22.69 | 8.44 | -6.06 | -20.37 |
| YBADJ | STCK6 | -34.07 | -46.73 | -58.46 | -70.25 | -79.90 | -86.25 |
| YBADJ | STCK6 | -88.33 | -87.71 | -84.44 | -78.59 | -70.36 | -59.66 |
| YBADJ | STCK6 | -48.69 | -36.24 | -22.69 | -8.44 | 6.06 | 20.37 |
| YBADJ | STCK6 | 34.07 | 46.73 | 58.46 | 70.25 | 79.90 | 86.25 |

```
   YBADJ    STCK6           88.33    87.71    84.44    78.59    70.36    59.66

   URBANSRC ALL
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED "190th Street Warehouse 2022.rou"
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE "E:\New MET data\KHHR_V9_ADJU\KHHR_v9.SFC"
   PROFFILE "E:\New MET data\KHHR_V9_ADJU\KHHR_v9.PFL"
   SURFDATA 3167 2012
   UAIRDATA 3190 2012
   PROFBASE 19.0 METERS
ME FINISHED
**
**************************************
** AERMOD Output Pathway
**************************************
**
**
OU STARTING
** Auto-Generated Plotfiles
   PLOTFILE PERIOD ALL "190th Street Warehouse 2022.AD\PE00GALL.PLT" 31
   SUMMFILE "190th Street Warehouse 2022.sum"
OU FINISHED


  *** Message Summary For AERMOD Model Setup ***

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

 A Total of            0 Fatal Error Message(s)
 A Total of            8 Warning Message(s)
 A Total of            0 Informational Message(s)


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

```
   ********   WARNING MESSAGES   ********
SO W320     872        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320     873        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320     874        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320     875        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320     876        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320     877        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
ME W186    1862       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used          0.50
ME W187    1862       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

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


*** AERMOD - VERSION  19191 ***   *** 190th St Warehouse 2022                                    ***        05/15/20
*** AERMET - VERSION  16216 ***   *** DPM concentrations                                         ***        10:04:10
                                                                                                           PAGE   1
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                          ***     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   744 Source(s),
  for Total of    1 Urban Area(s):
  Urban Population =   9818605.0 ;  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.
       6. Urban Roughness Length of 1.0 Meter Assumed.

**Other Options Specified:
       ADJ_U*   - Use ADJ_U* option for SBL in AERMET
       CCVR_Sub - Meteorological data includes CCVR substitutions
       TEMP_Sub - Meteorological data includes TEMP substitutions

**Model Assumes No FLAGPOLE Receptor Heights.
```

```
**The User Specified a Pollutant Type of:  DPM

**Model Calculates PERIOD Averages Only

**This Run Includes:    744 Source(s);       1 Source Group(s); and     449 Receptor(s)

               with:      6 POINT(s), including
                          0 POINTCAP(s) and      0 POINTHOR(s)
                and:    738 VOLUME source(s)
                and:      0 AREA type source(s)
                and:      0 LINE source(s)
                and:      0 RLINE/RLINEXT source(s)
                and:      0 OPENPIT source(s)
                and:      0 BUOYANT LINE source(s) with      0 line(s)


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

**The AERMET Input Meteorological Data Version Date:  16216

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

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

**Misc. Inputs:  Base Elev. for Pot. Temp. Profile (m MSL) =    19.00 ;  Decay Coef. =    0.000     ;  Rot. Angle =     0.0
                 Emission Units = GRAMS/SEC                           ;  Emission Rate Unit Factor =   0.10000E+07
                 Output Units   = MICROGRAMS/M**3

**Approximate Storage Requirements of Model =      4.9 MB of RAM.

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

**Detailed Error/Message File:   190th Street Warehouse 2022.err
**File for Summary of Results:   190th Street Warehouse 2022.sum

*** AERMOD - VERSION  19191 ***   *** 190th St Warehouse 2022                                                ***        05/15/20
*** AERMET - VERSION  16216 ***   *** DPM concentrations                                                     ***        10:04:10
                                                                                                                      PAGE   2
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                          *** POINT SOURCE DATA ***

             NUMBER EMISSION RATE                  BASE     STACK   STACK    STACK     STACK    BLDG   URBAN  CAP/  EMIS RATE
```

| SOURCE ID | PART. CATS. | (GRAMS/SEC) | X (METERS) | Y (METERS) | ELEV. (METERS) | HEIGHT (METERS) | TEMP. (DEG.K) | EXIT VEL. (M/SEC) | DIAMETER (METERS) | EXISTS | SOURCE VARY BY | HOR | SCALAR VARY BY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STCK1 | 0 | 0.16000E-04 | 377375.1 | 3747396.4 | 19.2 | 3.66 | 366.00 | 51.90 | 0.09 | YES | YES | NO | |
| STCK2 | 0 | 0.16000E-04 | 377406.0 | 3747397.4 | 19.4 | 3.66 | 366.00 | 51.90 | 0.09 | YES | YES | NO | |
| STCK3 | 0 | 0.16000E-04 | 377432.7 | 3747397.7 | 19.6 | 3.66 | 366.00 | 51.90 | 0.09 | YES | YES | NO | |
| STCK4 | 0 | 0.16000E-04 | 377463.5 | 3747397.7 | 19.8 | 3.66 | 366.00 | 51.90 | 0.09 | YES | YES | NO | |
| STCK5 | 0 | 0.16000E-04 | 377492.1 | 3747397.7 | 20.1 | 3.66 | 366.00 | 51.90 | 0.09 | YES | YES | NO | |
| STCK6 | 0 | 0.16000E-04 | 377521.4 | 3747398.1 | 20.6 | 3.66 | 366.00 | 51.90 | 0.09 | YES | YES | NO | |



*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| L0000001 | 0 | 0.11270E-06 | 377311.4 | 3747422.7 | 19.0 | 0.00 | 1.70 | 5.10 | YES | |
| L0000002 | 0 | 0.11270E-06 | 377315.0 | 3747422.7 | 19.0 | 0.00 | 1.70 | 5.10 | YES | |
| L0000003 | 0 | 0.11270E-06 | 377318.7 | 3747422.7 | 19.0 | 0.00 | 1.70 | 5.10 | YES | |
| L0000004 | 0 | 0.11270E-06 | 377322.3 | 3747422.7 | 19.0 | 0.00 | 1.70 | 5.10 | YES | |
| L0000005 | 0 | 0.11270E-06 | 377326.0 | 3747422.7 | 19.0 | 0.00 | 1.70 | 5.10 | YES | |
| L0000006 | 0 | 0.11270E-06 | 377329.7 | 3747422.8 | 19.1 | 0.00 | 1.70 | 5.10 | YES | |
| L0000007 | 0 | 0.11270E-06 | 377333.3 | 3747422.8 | 19.1 | 0.00 | 1.70 | 5.10 | YES | |
| L0000008 | 0 | 0.11270E-06 | 377337.0 | 3747422.8 | 19.1 | 0.00 | 1.70 | 5.10 | YES | |
| L0000009 | 0 | 0.11270E-06 | 377340.6 | 3747422.8 | 19.1 | 0.00 | 1.70 | 5.10 | YES | |
| L0000010 | 0 | 0.11270E-06 | 377344.3 | 3747422.8 | 19.1 | 0.00 | 1.70 | 5.10 | YES | |
| L0000011 | 0 | 0.11270E-06 | 377347.9 | 3747422.8 | 19.1 | 0.00 | 1.70 | 5.10 | YES | |
| L0000012 | 0 | 0.11270E-06 | 377351.6 | 3747422.9 | 19.2 | 0.00 | 1.70 | 5.10 | YES | |
| L0000013 | 0 | 0.11270E-06 | 377355.3 | 3747422.9 | 19.2 | 0.00 | 1.70 | 5.10 | YES | |
| L0000014 | 0 | 0.11270E-06 | 377358.9 | 3747422.9 | 19.2 | 0.00 | 1.70 | 5.10 | YES | |
| L0000015 | 0 | 0.11270E-06 | 377362.6 | 3747422.9 | 19.3 | 0.00 | 1.70 | 5.10 | YES | |
| L0000016 | 0 | 0.11270E-06 | 377366.2 | 3747422.9 | 19.3 | 0.00 | 1.70 | 5.10 | YES | |
| L0000017 | 0 | 0.11270E-06 | 377369.9 | 3747423.0 | 19.3 | 0.00 | 1.70 | 5.10 | YES | |
| L0000018 | 0 | 0.11270E-06 | 377373.5 | 3747423.0 | 19.4 | 0.00 | 1.70 | 5.10 | YES | |
| L0000019 | 0 | 0.11270E-06 | 377377.2 | 3747423.0 | 19.4 | 0.00 | 1.70 | 5.10 | YES | |
| L0000020 | 0 | 0.11270E-06 | 377380.9 | 3747423.0 | 19.4 | 0.00 | 1.70 | 5.10 | YES | |
| L0000021 | 0 | 0.11270E-06 | 377384.5 | 3747423.0 | 19.4 | 0.00 | 1.70 | 5.10 | YES | |
| L0000022 | 0 | 0.11270E-06 | 377388.2 | 3747423.0 | 19.4 | 0.00 | 1.70 | 5.10 | YES | |
| L0000023 | 0 | 0.11270E-06 | 377391.8 | 3747423.1 | 19.5 | 0.00 | 1.70 | 5.10 | YES | |
| L0000024 | 0 | 0.11270E-06 | 377395.5 | 3747423.1 | 19.5 | 0.00 | 1.70 | 5.10 | YES | |
| L0000025 | 0 | 0.11270E-06 | 377399.2 | 3747423.1 | 19.5 | 0.00 | 1.70 | 5.10 | YES | |
| L0000026 | 0 | 0.11270E-06 | 377402.8 | 3747423.1 | 19.6 | 0.00 | 1.70 | 5.10 | YES | |
| L0000027 | 0 | 0.11270E-06 | 377406.5 | 3747423.1 | 19.6 | 0.00 | 1.70 | 5.10 | YES | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| L0000028 | 0 | 0.11270E-06 | 377410.1 | 3747423.1 | 19.6 | 0.00 | 1.70 | 5.10 | YES |
| L0000029 | 0 | 0.11270E-06 | 377413.8 | 3747423.2 | 19.6 | 0.00 | 1.70 | 5.10 | YES |
| L0000030 | 0 | 0.11270E-06 | 377417.4 | 3747423.2 | 19.6 | 0.00 | 1.70 | 5.10 | YES |
| L0000031 | 0 | 0.11270E-06 | 377421.1 | 3747423.2 | 19.7 | 0.00 | 1.70 | 5.10 | YES |
| L0000032 | 0 | 0.11270E-06 | 377424.8 | 3747423.2 | 19.7 | 0.00 | 1.70 | 5.10 | YES |
| L0000033 | 0 | 0.11270E-06 | 377428.4 | 3747423.2 | 19.7 | 0.00 | 1.70 | 5.10 | YES |
| L0000034 | 0 | 0.11270E-06 | 377432.1 | 3747423.2 | 19.8 | 0.00 | 1.70 | 5.10 | YES |
| L0000035 | 0 | 0.11270E-06 | 377435.7 | 3747423.3 | 19.8 | 0.00 | 1.70 | 5.10 | YES |
| L0000036 | 0 | 0.11270E-06 | 377439.4 | 3747423.3 | 19.8 | 0.00 | 1.70 | 5.10 | YES |
| L0000037 | 0 | 0.11270E-06 | 377443.0 | 3747423.3 | 19.8 | 0.00 | 1.70 | 5.10 | YES |
| L0000038 | 0 | 0.11270E-06 | 377446.7 | 3747423.3 | 19.9 | 0.00 | 1.70 | 5.10 | YES |
| L0000039 | 0 | 0.11270E-06 | 377450.4 | 3747423.3 | 19.9 | 0.00 | 1.70 | 5.10 | YES |
| L0000040 | 0 | 0.11270E-06 | 377454.0 | 3747423.3 | 19.9 | 0.00 | 1.70 | 5.10 | YES |



*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** 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 | 0.11270E-06 | 377457.7 | 3747423.4 | 19.9 | 0.00 | 1.70 | 5.10 | YES | |
| L0000042 | 0 | 0.11270E-06 | 377461.3 | 3747423.4 | 19.9 | 0.00 | 1.70 | 5.10 | YES | |
| L0000043 | 0 | 0.11270E-06 | 377465.0 | 3747423.4 | 20.0 | 0.00 | 1.70 | 5.10 | YES | |
| L0000044 | 0 | 0.11270E-06 | 377468.6 | 3747423.4 | 20.0 | 0.00 | 1.70 | 5.10 | YES | |
| L0000045 | 0 | 0.11270E-06 | 377472.3 | 3747423.4 | 20.0 | 0.00 | 1.70 | 5.10 | YES | |
| L0000046 | 0 | 0.11270E-06 | 377476.0 | 3747423.4 | 20.0 | 0.00 | 1.70 | 5.10 | YES | |
| L0000047 | 0 | 0.11270E-06 | 377479.6 | 3747423.5 | 20.1 | 0.00 | 1.70 | 5.10 | YES | |
| L0000048 | 0 | 0.11270E-06 | 377483.3 | 3747423.5 | 20.1 | 0.00 | 1.70 | 5.10 | YES | |
| L0000049 | 0 | 0.11270E-06 | 377486.9 | 3747423.5 | 20.1 | 0.00 | 1.70 | 5.10 | YES | |
| L0000050 | 0 | 0.11270E-06 | 377490.6 | 3747423.5 | 20.1 | 0.00 | 1.70 | 5.10 | YES | |
| L0000051 | 0 | 0.11270E-06 | 377494.2 | 3747423.5 | 20.2 | 0.00 | 1.70 | 5.10 | YES | |
| L0000052 | 0 | 0.11270E-06 | 377497.9 | 3747423.6 | 20.2 | 0.00 | 1.70 | 5.10 | YES | |
| L0000053 | 0 | 0.11270E-06 | 377501.6 | 3747423.6 | 20.2 | 0.00 | 1.70 | 5.10 | YES | |
| L0000054 | 0 | 0.11270E-06 | 377505.2 | 3747423.6 | 20.2 | 0.00 | 1.70 | 5.10 | YES | |
| L0000055 | 0 | 0.11270E-06 | 377508.9 | 3747423.6 | 20.2 | 0.00 | 1.70 | 5.10 | YES | |
| L0000056 | 0 | 0.11270E-06 | 377512.5 | 3747423.6 | 20.2 | 0.00 | 1.70 | 5.10 | YES | |
| L0000057 | 0 | 0.11270E-06 | 377516.2 | 3747423.6 | 20.2 | 0.00 | 1.70 | 5.10 | YES | |
| L0000058 | 0 | 0.11270E-06 | 377519.9 | 3747423.7 | 20.2 | 0.00 | 1.70 | 5.10 | YES | |
| L0000059 | 0 | 0.11270E-06 | 377523.5 | 3747423.7 | 20.2 | 0.00 | 1.70 | 5.10 | YES | |
| L0000060 | 0 | 0.11270E-06 | 377527.2 | 3747423.7 | 20.3 | 0.00 | 1.70 | 5.10 | YES | |
| L0000061 | 0 | 0.11270E-06 | 377530.8 | 3747423.7 | 20.3 | 0.00 | 1.70 | 5.10 | YES | |
| L0000062 | 0 | 0.11270E-06 | 377534.5 | 3747423.7 | 20.4 | 0.00 | 1.70 | 5.10 | YES | |
| L0000063 | 0 | 0.11270E-06 | 377538.1 | 3747423.7 | 20.4 | 0.00 | 1.70 | 5.10 | YES | |
| L0000064 | 0 | 0.11270E-06 | 377541.8 | 3747423.8 | 20.5 | 0.00 | 1.70 | 5.10 | YES | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| L0000065 | 0 | 0.11270E-06 | 377545.5 | 3747423.8 | 20.5 | 0.00 | 1.70 | 5.10 | YES |
| L0000066 | 0 | 0.11270E-06 | 377549.1 | 3747423.8 | 20.6 | 0.00 | 1.70 | 5.10 | YES |
| L0000067 | 0 | 0.11270E-06 | 377552.8 | 3747423.8 | 20.6 | 0.00 | 1.70 | 5.10 | YES |
| L0000068 | 0 | 0.11270E-06 | 377556.4 | 3747423.8 | 20.6 | 0.00 | 1.70 | 5.10 | YES |
| L0000069 | 0 | 0.11270E-06 | 377560.1 | 3747423.8 | 20.6 | 0.00 | 1.70 | 5.10 | YES |
| L0000070 | 0 | 0.11270E-06 | 377563.7 | 3747423.9 | 20.5 | 0.00 | 1.70 | 5.10 | YES |
| L0000071 | 0 | 0.11270E-06 | 377567.4 | 3747423.9 | 20.5 | 0.00 | 1.70 | 5.10 | YES |
| L0000072 | 0 | 0.11270E-06 | 377571.1 | 3747423.9 | 20.5 | 0.00 | 1.70 | 5.10 | YES |
| L0000073 | 0 | 0.11270E-06 | 377574.7 | 3747423.9 | 20.5 | 0.00 | 1.70 | 5.10 | YES |
| L0000074 | 0 | 0.11270E-06 | 377578.4 | 3747423.9 | 20.5 | 0.00 | 1.70 | 5.10 | YES |
| L0000075 | 0 | 0.11270E-06 | 377582.0 | 3747423.9 | 20.4 | 0.00 | 1.70 | 5.10 | YES |
| L0000076 | 0 | 0.11270E-06 | 377585.7 | 3747424.0 | 20.4 | 0.00 | 1.70 | 5.10 | YES |
| L0000077 | 0 | 0.11270E-06 | 377589.3 | 3747424.0 | 20.3 | 0.00 | 1.70 | 5.10 | YES |
| L0000078 | 0 | 0.11270E-06 | 377593.0 | 3747424.0 | 20.3 | 0.00 | 1.70 | 5.10 | YES |
| L0000079 | 0 | 0.11270E-06 | 377596.7 | 3747424.0 | 20.2 | 0.00 | 1.70 | 5.10 | YES |
| L0000121 | 0 | 0.11300E-06 | 377606.9 | 3747421.7 | 20.1 | 0.00 | 1.70 | 5.10 | YES |



*** MODELOPTs:  RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

*** 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| L0000122 | 0 | 0.11300E-06 | 377606.9 | 3747418.1 | 20.2 | 0.00 | 1.70 | 5.10 | YES | |
| L0000123 | 0 | 0.11300E-06 | 377606.9 | 3747414.4 | 20.2 | 0.00 | 1.70 | 5.10 | YES | |
| L0000124 | 0 | 0.11300E-06 | 377606.9 | 3747410.8 | 20.3 | 0.00 | 1.70 | 5.10 | YES | |
| L0000125 | 0 | 0.11300E-06 | 377606.9 | 3747407.1 | 20.3 | 0.00 | 1.70 | 5.10 | YES | |
| L0000126 | 0 | 0.11300E-06 | 377606.9 | 3747403.5 | 20.3 | 0.00 | 1.70 | 5.10 | YES | |
| L0000127 | 0 | 0.11300E-06 | 377606.9 | 3747399.8 | 20.3 | 0.00 | 1.70 | 5.10 | YES | |
| L0000128 | 0 | 0.11300E-06 | 377606.9 | 3747396.1 | 20.3 | 0.00 | 1.70 | 5.10 | YES | |
| L0000129 | 0 | 0.11300E-06 | 377607.0 | 3747392.5 | 20.3 | 0.00 | 1.70 | 5.10 | YES | |
| L0000130 | 0 | 0.11300E-06 | 377607.0 | 3747388.8 | 20.3 | 0.00 | 1.70 | 5.10 | YES | |
| L0000131 | 0 | 0.11300E-06 | 377607.0 | 3747385.2 | 20.3 | 0.00 | 1.70 | 5.10 | YES | |
| L0000132 | 0 | 0.11300E-06 | 377607.0 | 3747381.5 | 20.3 | 0.00 | 1.70 | 5.10 | YES | |
| L0000133 | 0 | 0.11300E-06 | 377607.0 | 3747377.8 | 20.3 | 0.00 | 1.70 | 5.10 | YES | |
| L0000134 | 0 | 0.11300E-06 | 377607.0 | 3747374.2 | 20.3 | 0.00 | 1.70 | 5.10 | YES | |
| L0000135 | 0 | 0.11300E-06 | 377607.0 | 3747370.5 | 20.3 | 0.00 | 1.70 | 5.10 | YES | |
| L0000136 | 0 | 0.11300E-06 | 377607.0 | 3747366.9 | 20.2 | 0.00 | 1.70 | 5.10 | YES | |
| L0000137 | 0 | 0.11300E-06 | 377607.0 | 3747363.2 | 20.1 | 0.00 | 1.70 | 5.10 | YES | |
| L0000138 | 0 | 0.11300E-06 | 377607.0 | 3747359.6 | 20.1 | 0.00 | 1.70 | 5.10 | YES | |
| L0000139 | 0 | 0.11300E-06 | 377607.1 | 3747355.9 | 20.0 | 0.00 | 1.70 | 5.10 | YES | |
| L0000140 | 0 | 0.11300E-06 | 377607.1 | 3747352.2 | 20.0 | 0.00 | 1.70 | 5.10 | YES | |
| L0000141 | 0 | 0.11300E-06 | 377607.1 | 3747348.6 | 19.9 | 0.00 | 1.70 | 5.10 | YES | |
| L0000142 | 0 | 0.11300E-06 | 377607.1 | 3747344.9 | 19.9 | 0.00 | 1.70 | 5.10 | YES | |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| L0000143 | 0 | 0.11300E-06 | 377607.1 | 3747341.3 | 19.8 | 0.00 | 1.70 | 5.10 | YES | |
| L0000144 | 0 | 0.11300E-06 | 377607.1 | 3747337.6 | 19.8 | 0.00 | 1.70 | 5.10 | YES | |
| L0000145 | 0 | 0.11300E-06 | 377607.1 | 3747334.0 | 19.8 | 0.00 | 1.70 | 5.10 | YES | |
| L0000146 | 0 | 0.11300E-06 | 377607.1 | 3747330.3 | 19.7 | 0.00 | 1.70 | 5.10 | YES | |
| L0000147 | 0 | 0.11300E-06 | 377607.1 | 3747326.6 | 19.7 | 0.00 | 1.70 | 5.10 | YES | |
| L0000148 | 0 | 0.11300E-06 | 377607.1 | 3747323.0 | 19.7 | 0.00 | 1.70 | 5.10 | YES | |
| L0000149 | 0 | 0.11300E-06 | 377607.1 | 3747319.3 | 19.6 | 0.00 | 1.70 | 5.10 | YES | |
| L0000150 | 0 | 0.11300E-06 | 377607.2 | 3747315.7 | 19.6 | 0.00 | 1.70 | 5.10 | YES | |
| L0000151 | 0 | 0.11300E-06 | 377607.2 | 3747312.0 | 19.6 | 0.00 | 1.70 | 5.10 | YES | |
| L0000152 | 0 | 0.11300E-06 | 377607.2 | 3747308.4 | 19.6 | 0.00 | 1.70 | 5.10 | YES | |
| L0000153 | 0 | 0.11300E-06 | 377607.2 | 3747304.7 | 19.6 | 0.00 | 1.70 | 5.10 | YES | |
| L0000154 | 0 | 0.11300E-06 | 377607.2 | 3747301.0 | 19.7 | 0.00 | 1.70 | 5.10 | YES | |
| L0000155 | 0 | 0.11300E-06 | 377607.2 | 3747297.4 | 19.7 | 0.00 | 1.70 | 5.10 | YES | |
| L0000156 | 0 | 0.11300E-06 | 377607.2 | 3747293.7 | 19.7 | 0.00 | 1.70 | 5.10 | YES | |
| L0000157 | 0 | 0.11300E-06 | 377607.2 | 3747290.1 | 19.7 | 0.00 | 1.70 | 5.10 | YES | |
| L0000158 | 0 | 0.11300E-06 | 377607.2 | 3747286.4 | 19.7 | 0.00 | 1.70 | 5.10 | YES | |
| L0000159 | 0 | 0.11300E-06 | 377607.2 | 3747282.8 | 19.8 | 0.00 | 1.70 | 5.10 | YES | |
| L0000160 | 0 | 0.11300E-06 | 377607.3 | 3747279.1 | 19.7 | 0.00 | 1.70 | 5.10 | YES | |
| L0000161 | 0 | 0.11300E-06 | 377607.3 | 3747275.4 | 19.6 | 0.00 | 1.70 | 5.10 | YES | |



*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| L0000162 | 0 | 0.11300E-06 | 377607.3 | 3747271.8 | 19.6 | 0.00 | 1.70 | 5.10 | YES | |
| L0000163 | 0 | 0.11300E-06 | 377607.3 | 3747268.1 | 19.5 | 0.00 | 1.70 | 5.10 | YES | |
| L0000164 | 0 | 0.11300E-06 | 377607.3 | 3747264.5 | 19.4 | 0.00 | 1.70 | 5.10 | YES | |
| L0000165 | 0 | 0.11300E-06 | 377607.3 | 3747260.8 | 19.4 | 0.00 | 1.70 | 5.10 | YES | |
| L0000166 | 0 | 0.11300E-06 | 377607.3 | 3747257.1 | 19.3 | 0.00 | 1.70 | 5.10 | YES | |
| L0000167 | 0 | 0.11300E-06 | 377607.3 | 3747253.5 | 19.2 | 0.00 | 1.70 | 5.10 | YES | |
| L0000168 | 0 | 0.98280E-07 | 377299.8 | 3747423.8 | 18.9 | 0.00 | 1.70 | 0.85 | YES | |
| L0000169 | 0 | 0.98280E-07 | 377299.8 | 3747427.5 | 18.9 | 0.00 | 1.70 | 0.85 | YES | |
| L0000170 | 0 | 0.98280E-07 | 377299.8 | 3747431.1 | 19.0 | 0.00 | 1.70 | 0.85 | YES | |
| L0000171 | 0 | 0.98280E-07 | 377299.8 | 3747434.8 | 19.0 | 0.00 | 1.70 | 0.85 | YES | |
| L0000172 | 0 | 0.98280E-07 | 377299.8 | 3747438.5 | 19.1 | 0.00 | 1.70 | 0.85 | YES | |
| L0000173 | 0 | 0.98280E-07 | 377299.7 | 3747442.1 | 19.1 | 0.00 | 1.70 | 0.85 | YES | |
| L0000174 | 0 | 0.98280E-07 | 377299.7 | 3747445.8 | 19.1 | 0.00 | 1.70 | 0.85 | YES | |
| L0000175 | 0 | 0.98280E-07 | 377299.7 | 3747449.4 | 19.1 | 0.00 | 1.70 | 0.85 | YES | |
| L0000176 | 0 | 0.98280E-07 | 377299.7 | 3747453.1 | 19.0 | 0.00 | 1.70 | 0.85 | YES | |
| L0000177 | 0 | 0.98280E-07 | 377299.7 | 3747456.7 | 19.0 | 0.00 | 1.70 | 0.85 | YES | |
| L0000178 | 0 | 0.98280E-07 | 377299.7 | 3747460.4 | 19.0 | 0.00 | 1.70 | 0.85 | YES | |
| L0000179 | 0 | 0.98280E-07 | 377299.6 | 3747464.1 | 19.0 | 0.00 | 1.70 | 0.85 | YES | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| L0000180 | 0 | 0.98280E-07 | 377299.6 | 3747467.7 | 19.0 | 0.00 | 1.70 | 0.85 | YES |
| L0000181 | 0 | 0.98280E-07 | 377299.6 | 3747471.4 | 19.0 | 0.00 | 1.70 | 0.85 | YES |
| L0000182 | 0 | 0.98280E-07 | 377299.6 | 3747475.0 | 19.0 | 0.00 | 1.70 | 0.85 | YES |
| L0000183 | 0 | 0.98280E-07 | 377299.6 | 3747478.7 | 19.0 | 0.00 | 1.70 | 0.85 | YES |
| L0000184 | 0 | 0.98280E-07 | 377299.5 | 3747482.3 | 19.1 | 0.00 | 1.70 | 0.85 | YES |
| L0000185 | 0 | 0.98280E-07 | 377299.5 | 3747486.0 | 19.1 | 0.00 | 1.70 | 0.85 | YES |
| L0000186 | 0 | 0.98280E-07 | 377299.5 | 3747489.7 | 19.1 | 0.00 | 1.70 | 0.85 | YES |
| L0000187 | 0 | 0.98280E-07 | 377299.5 | 3747493.3 | 19.2 | 0.00 | 1.70 | 0.85 | YES |
| L0000188 | 0 | 0.98280E-07 | 377299.5 | 3747497.0 | 19.2 | 0.00 | 1.70 | 0.85 | YES |
| L0000189 | 0 | 0.98280E-07 | 377299.4 | 3747500.6 | 19.2 | 0.00 | 1.70 | 0.85 | YES |
| L0000190 | 0 | 0.98280E-07 | 377299.4 | 3747504.3 | 19.2 | 0.00 | 1.70 | 0.85 | YES |
| L0000191 | 0 | 0.98280E-07 | 377299.4 | 3747508.0 | 19.2 | 0.00 | 1.70 | 0.85 | YES |
| L0000192 | 0 | 0.98280E-07 | 377299.4 | 3747511.6 | 19.2 | 0.00 | 1.70 | 0.85 | YES |
| L0000193 | 0 | 0.98280E-07 | 377299.4 | 3747515.3 | 19.2 | 0.00 | 1.70 | 0.85 | YES |
| L0000194 | 0 | 0.98280E-07 | 377299.4 | 3747518.9 | 19.2 | 0.00 | 1.70 | 0.85 | YES |
| L0000195 | 0 | 0.98280E-07 | 377299.3 | 3747522.6 | 19.2 | 0.00 | 1.70 | 0.85 | YES |
| L0000196 | 0 | 0.98280E-07 | 377299.3 | 3747526.2 | 19.2 | 0.00 | 1.70 | 0.85 | YES |
| L0000197 | 0 | 0.98280E-07 | 377299.3 | 3747529.9 | 19.2 | 0.00 | 1.70 | 0.85 | YES |
| L0000198 | 0 | 0.98280E-07 | 377299.3 | 3747533.6 | 19.2 | 0.00 | 1.70 | 0.85 | YES |
| L0000199 | 0 | 0.98280E-07 | 377299.3 | 3747537.2 | 19.2 | 0.00 | 1.70 | 0.85 | YES |
| L0000200 | 0 | 0.98280E-07 | 377299.2 | 3747540.9 | 19.2 | 0.00 | 1.70 | 0.85 | YES |
| L0000201 | 0 | 0.98280E-07 | 377299.2 | 3747544.5 | 19.2 | 0.00 | 1.70 | 0.85 | YES |



*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

*** 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| L0000202 | 0 | 0.98280E-07 | 377299.2 | 3747548.2 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0000203 | 0 | 0.98280E-07 | 377299.2 | 3747551.8 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0000204 | 0 | 0.98280E-07 | 377299.2 | 3747555.5 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0000205 | 0 | 0.98280E-07 | 377299.2 | 3747559.2 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0000206 | 0 | 0.98280E-07 | 377299.1 | 3747562.8 | 19.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0000207 | 0 | 0.98280E-07 | 377299.1 | 3747566.5 | 19.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0000208 | 0 | 0.98280E-07 | 377299.1 | 3747570.1 | 19.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0000209 | 0 | 0.98280E-07 | 377299.1 | 3747573.8 | 19.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0000210 | 0 | 0.98280E-07 | 377299.1 | 3747577.4 | 19.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0000211 | 0 | 0.98280E-07 | 377299.0 | 3747581.1 | 19.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0000212 | 0 | 0.98280E-07 | 377299.0 | 3747584.8 | 19.5 | 0.00 | 1.70 | 0.85 | YES | |
| L0000213 | 0 | 0.98280E-07 | 377299.0 | 3747588.4 | 19.5 | 0.00 | 1.70 | 0.85 | YES | |
| L0000214 | 0 | 0.98280E-07 | 377299.0 | 3747592.1 | 19.6 | 0.00 | 1.70 | 0.85 | YES | |
| L0000215 | 0 | 0.98280E-07 | 377299.0 | 3747595.7 | 19.6 | 0.00 | 1.70 | 0.85 | YES | |
| L0000216 | 0 | 0.98280E-07 | 377299.0 | 3747599.4 | 19.6 | 0.00 | 1.70 | 0.85 | YES | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| L0000217 | 0 | 0.98280E-07 | 377298.9 | 3747603.0 | 19.7 | 0.00 | 1.70 | 0.85 | YES |
| L0000218 | 0 | 0.98280E-07 | 377298.9 | 3747606.7 | 19.7 | 0.00 | 1.70 | 0.85 | YES |
| L0000219 | 0 | 0.98280E-07 | 377298.9 | 3747610.4 | 19.7 | 0.00 | 1.70 | 0.85 | YES |
| L0000220 | 0 | 0.98280E-07 | 377298.9 | 3747614.0 | 19.8 | 0.00 | 1.70 | 0.85 | YES |
| L0000221 | 0 | 0.98280E-07 | 377298.9 | 3747617.7 | 19.8 | 0.00 | 1.70 | 0.85 | YES |
| L0000222 | 0 | 0.98280E-07 | 377298.8 | 3747621.3 | 19.8 | 0.00 | 1.70 | 0.85 | YES |
| L0000223 | 0 | 0.98280E-07 | 377298.8 | 3747625.0 | 19.9 | 0.00 | 1.70 | 0.85 | YES |
| L0000224 | 0 | 0.98280E-07 | 377298.8 | 3747628.7 | 19.9 | 0.00 | 1.70 | 0.85 | YES |
| L0000225 | 0 | 0.98280E-07 | 377298.8 | 3747632.3 | 19.9 | 0.00 | 1.70 | 0.85 | YES |
| L0000226 | 0 | 0.98280E-07 | 377298.8 | 3747636.0 | 19.9 | 0.00 | 1.70 | 0.85 | YES |
| L0000227 | 0 | 0.98280E-07 | 377298.7 | 3747639.6 | 19.9 | 0.00 | 1.70 | 0.85 | YES |
| L0000228 | 0 | 0.98280E-07 | 377298.7 | 3747643.3 | 20.0 | 0.00 | 1.70 | 0.85 | YES |
| L0000229 | 0 | 0.98280E-07 | 377298.7 | 3747646.9 | 20.0 | 0.00 | 1.70 | 0.85 | YES |
| L0000230 | 0 | 0.98280E-07 | 377298.7 | 3747650.6 | 20.0 | 0.00 | 1.70 | 0.85 | YES |
| L0000231 | 0 | 0.98280E-07 | 377298.7 | 3747654.3 | 20.1 | 0.00 | 1.70 | 0.85 | YES |
| L0000232 | 0 | 0.98280E-07 | 377298.7 | 3747657.9 | 20.1 | 0.00 | 1.70 | 0.85 | YES |
| L0000233 | 0 | 0.98280E-07 | 377298.6 | 3747661.6 | 20.1 | 0.00 | 1.70 | 0.85 | YES |
| L0000234 | 0 | 0.98280E-07 | 377298.6 | 3747665.2 | 20.1 | 0.00 | 1.70 | 0.85 | YES |
| L0000235 | 0 | 0.98280E-07 | 377298.6 | 3747668.9 | 20.2 | 0.00 | 1.70 | 0.85 | YES |
| L0000236 | 0 | 0.98280E-07 | 377298.6 | 3747672.5 | 20.2 | 0.00 | 1.70 | 0.85 | YES |
| L0000237 | 0 | 0.98280E-07 | 377298.6 | 3747676.2 | 20.2 | 0.00 | 1.70 | 0.85 | YES |
| L0000238 | 0 | 0.98280E-07 | 377298.5 | 3747679.9 | 20.2 | 0.00 | 1.70 | 0.85 | YES |
| L0000239 | 0 | 0.98280E-07 | 377298.5 | 3747683.5 | 20.3 | 0.00 | 1.70 | 0.85 | YES |
| L0000240 | 0 | 0.98280E-07 | 377298.5 | 3747687.2 | 20.3 | 0.00 | 1.70 | 0.85 | YES |
| L0000241 | 0 | 0.98280E-07 | 377298.5 | 3747690.8 | 20.3 | 0.00 | 1.70 | 0.85 | YES |



*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

*** 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| L0000242 | 0 | 0.98280E-07 | 377298.5 | 3747694.5 | 20.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0000243 | 0 | 0.98280E-07 | 377298.5 | 3747698.1 | 20.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0000244 | 0 | 0.98280E-07 | 377298.4 | 3747701.8 | 20.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0000245 | 0 | 0.98280E-07 | 377298.4 | 3747705.5 | 20.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0000246 | 0 | 0.98280E-07 | 377298.4 | 3747709.1 | 20.5 | 0.00 | 1.70 | 0.85 | YES | |
| L0000247 | 0 | 0.98280E-07 | 377298.4 | 3747712.8 | 20.5 | 0.00 | 1.70 | 0.85 | YES | |
| L0000248 | 0 | 0.98280E-07 | 377298.4 | 3747716.4 | 20.5 | 0.00 | 1.70 | 0.85 | YES | |
| L0000249 | 0 | 0.98280E-07 | 377298.3 | 3747720.1 | 20.6 | 0.00 | 1.70 | 0.85 | YES | |
| L0000250 | 0 | 0.98280E-07 | 377298.3 | 3747723.7 | 20.6 | 0.00 | 1.70 | 0.85 | YES | |
| L0000251 | 0 | 0.98280E-07 | 377298.3 | 3747727.4 | 20.6 | 0.00 | 1.70 | 0.85 | YES | |
| L0000252 | 0 | 0.98280E-07 | 377298.3 | 3747731.1 | 20.6 | 0.00 | 1.70 | 0.85 | YES | |
| L0000253 | 0 | 0.98280E-07 | 377298.3 | 3747734.7 | 20.6 | 0.00 | 1.70 | 0.85 | YES | |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| L0000254 | 0 | 0.98280E-07 | 377298.3 | 3747738.4 | 20.6 | 0.00 | 1.70 | 0.85 | YES | |
| L0000255 | 0 | 0.98280E-07 | 377298.2 | 3747742.0 | 20.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0000256 | 0 | 0.98280E-07 | 377298.2 | 3747745.7 | 20.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0000257 | 0 | 0.98280E-07 | 377298.2 | 3747749.4 | 20.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0000258 | 0 | 0.98280E-07 | 377298.2 | 3747753.0 | 20.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0000259 | 0 | 0.98280E-07 | 377298.2 | 3747756.7 | 20.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0000260 | 0 | 0.98280E-07 | 377298.1 | 3747760.3 | 20.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0000261 | 0 | 0.98280E-07 | 377298.1 | 3747764.0 | 20.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0000262 | 0 | 0.98280E-07 | 377298.1 | 3747767.6 | 20.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0000263 | 0 | 0.98280E-07 | 377298.1 | 3747771.3 | 20.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0000264 | 0 | 0.98280E-07 | 377298.1 | 3747775.0 | 20.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0000265 | 0 | 0.98280E-07 | 377298.0 | 3747778.6 | 20.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0000266 | 0 | 0.98280E-07 | 377298.0 | 3747782.3 | 20.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0000267 | 0 | 0.98280E-07 | 377298.0 | 3747785.9 | 20.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0000268 | 0 | 0.98280E-07 | 377298.0 | 3747789.6 | 20.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0000269 | 0 | 0.98280E-07 | 377298.0 | 3747793.2 | 20.6 | 0.00 | 1.70 | 0.85 | YES | |
| L0000270 | 0 | 0.98280E-07 | 377298.0 | 3747796.9 | 20.6 | 0.00 | 1.70 | 0.85 | YES | |
| L0000271 | 0 | 0.98280E-07 | 377297.9 | 3747800.6 | 20.6 | 0.00 | 1.70 | 0.85 | YES | |
| L0000272 | 0 | 0.98280E-07 | 377297.9 | 3747804.2 | 20.6 | 0.00 | 1.70 | 0.85 | YES | |
| L0000273 | 0 | 0.98280E-07 | 377297.9 | 3747807.9 | 20.6 | 0.00 | 1.70 | 0.85 | YES | |
| L0000274 | 0 | 0.98280E-07 | 377297.9 | 3747811.5 | 20.6 | 0.00 | 1.70 | 0.85 | YES | |
| L0000275 | 0 | 0.98280E-07 | 377297.9 | 3747815.2 | 20.5 | 0.00 | 1.70 | 0.85 | YES | |
| L0000276 | 0 | 0.98280E-07 | 377297.8 | 3747818.8 | 20.5 | 0.00 | 1.70 | 0.85 | YES | |
| L0000277 | 0 | 0.98280E-07 | 377297.8 | 3747822.5 | 20.5 | 0.00 | 1.70 | 0.85 | YES | |
| L0000278 | 0 | 0.98280E-07 | 377297.8 | 3747826.2 | 20.5 | 0.00 | 1.70 | 0.85 | YES | |
| L0000279 | 0 | 0.98280E-07 | 377297.8 | 3747829.8 | 20.5 | 0.00 | 1.70 | 0.85 | YES | |
| L0000280 | 0 | 0.98280E-07 | 377297.8 | 3747833.5 | 20.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0000281 | 0 | 0.98280E-07 | 377297.8 | 3747837.1 | 20.4 | 0.00 | 1.70 | 0.85 | YES | |



*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

*** 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| L0000282 | 0 | 0.98280E-07 | 377297.7 | 3747840.8 | 20.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0000283 | 0 | 0.98280E-07 | 377297.7 | 3747844.4 | 20.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0000514 | 0 | 0.43330E-07 | 377157.2 | 3747245.3 | 18.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0000515 | 0 | 0.43330E-07 | 377159.0 | 3747248.5 | 18.1 | 0.00 | 1.70 | 0.85 | YES | |
| L0000516 | 0 | 0.43330E-07 | 377160.9 | 3747251.7 | 18.1 | 0.00 | 1.70 | 0.85 | YES | |
| L0000517 | 0 | 0.43330E-07 | 377162.7 | 3747254.9 | 18.1 | 0.00 | 1.70 | 0.85 | YES | |
| L0000518 | 0 | 0.43330E-07 | 377164.5 | 3747258.0 | 18.1 | 0.00 | 1.70 | 0.85 | YES | |
| L0000519 | 0 | 0.43330E-07 | 377166.3 | 3747261.2 | 18.1 | 0.00 | 1.70 | 0.85 | YES | |
| L0000520 | 0 | 0.43330E-07 | 377168.1 | 3747264.4 | 18.0 | 0.00 | 1.70 | 0.85 | YES | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| L0000521 | 0 | 0.43330E-07 | 377169.9 | 3747267.6 | 18.0 | 0.00 | 1.70 | 0.85 | YES |
| L0000522 | 0 | 0.43330E-07 | 377171.7 | 3747270.8 | 18.0 | 0.00 | 1.70 | 0.85 | YES |
| L0000523 | 0 | 0.43330E-07 | 377173.5 | 3747273.9 | 18.0 | 0.00 | 1.70 | 0.85 | YES |
| L0000524 | 0 | 0.43330E-07 | 377175.3 | 3747277.1 | 18.0 | 0.00 | 1.70 | 0.85 | YES |
| L0000525 | 0 | 0.43330E-07 | 377177.1 | 3747280.3 | 18.1 | 0.00 | 1.70 | 0.85 | YES |
| L0000526 | 0 | 0.43330E-07 | 377178.9 | 3747283.5 | 18.1 | 0.00 | 1.70 | 0.85 | YES |
| L0000527 | 0 | 0.43330E-07 | 377180.7 | 3747286.7 | 18.1 | 0.00 | 1.70 | 0.85 | YES |
| L0000528 | 0 | 0.43330E-07 | 377182.5 | 3747289.8 | 18.1 | 0.00 | 1.70 | 0.85 | YES |
| L0000529 | 0 | 0.43330E-07 | 377184.3 | 3747293.0 | 18.2 | 0.00 | 1.70 | 0.85 | YES |
| L0000530 | 0 | 0.43330E-07 | 377186.2 | 3747296.2 | 18.2 | 0.00 | 1.70 | 0.85 | YES |
| L0000531 | 0 | 0.43330E-07 | 377188.0 | 3747299.4 | 18.2 | 0.00 | 1.70 | 0.85 | YES |
| L0000532 | 0 | 0.43330E-07 | 377189.8 | 3747302.6 | 18.2 | 0.00 | 1.70 | 0.85 | YES |
| L0000533 | 0 | 0.43330E-07 | 377191.6 | 3747305.7 | 18.2 | 0.00 | 1.70 | 0.85 | YES |
| L0000534 | 0 | 0.43330E-07 | 377193.4 | 3747308.9 | 18.2 | 0.00 | 1.70 | 0.85 | YES |
| L0000535 | 0 | 0.43330E-07 | 377195.2 | 3747312.1 | 18.2 | 0.00 | 1.70 | 0.85 | YES |
| L0000536 | 0 | 0.43330E-07 | 377197.0 | 3747315.3 | 18.2 | 0.00 | 1.70 | 0.85 | YES |
| L0000537 | 0 | 0.43330E-07 | 377198.8 | 3747318.5 | 18.2 | 0.00 | 1.70 | 0.85 | YES |
| L0000538 | 0 | 0.43330E-07 | 377200.6 | 3747321.6 | 18.1 | 0.00 | 1.70 | 0.85 | YES |
| L0000539 | 0 | 0.43330E-07 | 377202.4 | 3747324.8 | 18.1 | 0.00 | 1.70 | 0.85 | YES |
| L0000540 | 0 | 0.43330E-07 | 377204.2 | 3747328.0 | 18.1 | 0.00 | 1.70 | 0.85 | YES |
| L0000541 | 0 | 0.43330E-07 | 377206.0 | 3747331.2 | 18.2 | 0.00 | 1.70 | 0.85 | YES |
| L0000542 | 0 | 0.43330E-07 | 377207.8 | 3747334.4 | 18.2 | 0.00 | 1.70 | 0.85 | YES |
| L0000543 | 0 | 0.43330E-07 | 377209.6 | 3747337.5 | 18.2 | 0.00 | 1.70 | 0.85 | YES |
| L0000544 | 0 | 0.43330E-07 | 377211.4 | 3747340.7 | 18.2 | 0.00 | 1.70 | 0.85 | YES |
| L0000545 | 0 | 0.43330E-07 | 377213.3 | 3747343.9 | 18.3 | 0.00 | 1.70 | 0.85 | YES |
| L0000546 | 0 | 0.43330E-07 | 377215.1 | 3747347.1 | 18.3 | 0.00 | 1.70 | 0.85 | YES |
| L0000547 | 0 | 0.43330E-07 | 377216.9 | 3747350.3 | 18.3 | 0.00 | 1.70 | 0.85 | YES |
| L0000548 | 0 | 0.43330E-07 | 377218.7 | 3747353.4 | 18.3 | 0.00 | 1.70 | 0.85 | YES |
| L0000549 | 0 | 0.43330E-07 | 377220.5 | 3747356.6 | 18.3 | 0.00 | 1.70 | 0.85 | YES |
| L0000550 | 0 | 0.43330E-07 | 377222.3 | 3747359.8 | 18.3 | 0.00 | 1.70 | 0.85 | YES |
| L0000551 | 0 | 0.43330E-07 | 377224.1 | 3747363.0 | 18.3 | 0.00 | 1.70 | 0.85 | YES |



*** MODELOPTs:  RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

*** 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| L0000552 | 0 | 0.43330E-07 | 377225.9 | 3747366.2 | 18.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0000553 | 0 | 0.43330E-07 | 377227.7 | 3747369.3 | 18.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0000554 | 0 | 0.43330E-07 | 377229.5 | 3747372.5 | 18.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0000555 | 0 | 0.43330E-07 | 377231.3 | 3747375.7 | 18.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0000556 | 0 | 0.43330E-07 | 377233.1 | 3747378.9 | 18.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0000557 | 0 | 0.43330E-07 | 377234.9 | 3747382.1 | 18.4 | 0.00 | 1.70 | 0.85 | YES | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| L0000558 | 0 | 0.43330E-07 | 377236.6 | 3747385.3 | 18.4 | 0.00 | 1.70 | 0.85 | YES |
| L0000559 | 0 | 0.43330E-07 | 377238.4 | 3747388.5 | 18.4 | 0.00 | 1.70 | 0.85 | YES |
| L0000560 | 0 | 0.43330E-07 | 377240.1 | 3747391.8 | 18.4 | 0.00 | 1.70 | 0.85 | YES |
| L0000561 | 0 | 0.43330E-07 | 377241.8 | 3747395.0 | 18.4 | 0.00 | 1.70 | 0.85 | YES |
| L0000562 | 0 | 0.43330E-07 | 377243.6 | 3747398.2 | 18.4 | 0.00 | 1.70 | 0.85 | YES |
| L0000563 | 0 | 0.43330E-07 | 377245.3 | 3747401.4 | 18.4 | 0.00 | 1.70 | 0.85 | YES |
| L0000564 | 0 | 0.43330E-07 | 377247.0 | 3747404.6 | 18.4 | 0.00 | 1.70 | 0.85 | YES |
| L0000565 | 0 | 0.43330E-07 | 377248.8 | 3747407.9 | 18.4 | 0.00 | 1.70 | 0.85 | YES |
| L0000566 | 0 | 0.43330E-07 | 377250.5 | 3747411.1 | 18.4 | 0.00 | 1.70 | 0.85 | YES |
| L0000567 | 0 | 0.43330E-07 | 377252.2 | 3747414.3 | 18.4 | 0.00 | 1.70 | 0.85 | YES |
| L0000568 | 0 | 0.43330E-07 | 377254.0 | 3747417.5 | 18.4 | 0.00 | 1.70 | 0.85 | YES |
| L0000569 | 0 | 0.43330E-07 | 377255.7 | 3747420.7 | 18.5 | 0.00 | 1.70 | 0.85 | YES |
| L0000570 | 0 | 0.43330E-07 | 377257.5 | 3747423.9 | 18.5 | 0.00 | 1.70 | 0.85 | YES |
| L0000571 | 0 | 0.43330E-07 | 377259.3 | 3747427.1 | 18.5 | 0.00 | 1.70 | 0.85 | YES |
| L0000572 | 0 | 0.43330E-07 | 377261.2 | 3747430.3 | 18.6 | 0.00 | 1.70 | 0.85 | YES |
| L0000573 | 0 | 0.43330E-07 | 377263.0 | 3747433.4 | 18.6 | 0.00 | 1.70 | 0.85 | YES |
| L0000574 | 0 | 0.43330E-07 | 377264.8 | 3747436.6 | 18.6 | 0.00 | 1.70 | 0.85 | YES |
| L0000575 | 0 | 0.43330E-07 | 377266.6 | 3747439.8 | 18.7 | 0.00 | 1.70 | 0.85 | YES |
| L0000576 | 0 | 0.43330E-07 | 377268.4 | 3747443.0 | 18.7 | 0.00 | 1.70 | 0.85 | YES |
| L0000577 | 0 | 0.43330E-07 | 377270.2 | 3747446.1 | 18.7 | 0.00 | 1.70 | 0.85 | YES |
| L0000578 | 0 | 0.43330E-07 | 377272.0 | 3747449.3 | 18.7 | 0.00 | 1.70 | 0.85 | YES |
| L0000579 | 0 | 0.43330E-07 | 377273.9 | 3747452.5 | 18.7 | 0.00 | 1.70 | 0.85 | YES |
| L0000580 | 0 | 0.43330E-07 | 377275.7 | 3747455.7 | 18.7 | 0.00 | 1.70 | 0.85 | YES |
| L0000581 | 0 | 0.43330E-07 | 377277.5 | 3747458.8 | 18.7 | 0.00 | 1.70 | 0.85 | YES |
| L0000582 | 0 | 0.43330E-07 | 377279.3 | 3747462.0 | 18.7 | 0.00 | 1.70 | 0.85 | YES |
| L0000583 | 0 | 0.43330E-07 | 377281.0 | 3747465.2 | 18.7 | 0.00 | 1.70 | 0.85 | YES |
| L0000584 | 0 | 0.43330E-07 | 377282.7 | 3747468.5 | 18.7 | 0.00 | 1.70 | 0.85 | YES |
| L0000585 | 0 | 0.43330E-07 | 377284.3 | 3747471.8 | 18.7 | 0.00 | 1.70 | 0.85 | YES |
| L0000586 | 0 | 0.43330E-07 | 377285.9 | 3747475.1 | 18.8 | 0.00 | 1.70 | 0.85 | YES |
| L0000587 | 0 | 0.43330E-07 | 377287.6 | 3747478.3 | 18.8 | 0.00 | 1.70 | 0.85 | YES |
| L0000588 | 0 | 0.43330E-07 | 377289.2 | 3747481.6 | 18.9 | 0.00 | 1.70 | 0.85 | YES |
| L0000589 | 0 | 0.70780E-07 | 377164.3 | 3747238.2 | 18.1 | 0.00 | 1.70 | 0.85 | YES |
| L0000590 | 0 | 0.70780E-07 | 377168.0 | 3747238.2 | 18.1 | 0.00 | 1.70 | 0.85 | YES |
| L0000591 | 0 | 0.70780E-07 | 377171.6 | 3747238.2 | 18.0 | 0.00 | 1.70 | 0.85 | YES |



*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| L0000592 | 0 | 0.70780E-07 | 377175.3 | 3747238.2 | 18.0 | 0.00 | 1.70 | 0.85 | YES | |
| L0000593 | 0 | 0.70780E-07 | 377179.0 | 3747238.2 | 18.0 | 0.00 | 1.70 | 0.85 | YES | |
| L0000594 | 0 | 0.70780E-07 | 377182.6 | 3747238.2 | 18.0 | 0.00 | 1.70 | 0.85 | YES | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| L0000595 | 0 | 0.70780E-07 | 377186.3 | 3747238.3 | 18.0 | 0.00 | 1.70 | 0.85 | YES |
| L0000596 | 0 | 0.70780E-07 | 377189.9 | 3747238.3 | 18.0 | 0.00 | 1.70 | 0.85 | YES |
| L0000597 | 0 | 0.70780E-07 | 377193.6 | 3747238.3 | 18.0 | 0.00 | 1.70 | 0.85 | YES |
| L0000598 | 0 | 0.70780E-07 | 377197.2 | 3747238.3 | 18.0 | 0.00 | 1.70 | 0.85 | YES |
| L0000599 | 0 | 0.70780E-07 | 377200.9 | 3747238.3 | 18.0 | 0.00 | 1.70 | 0.85 | YES |
| L0000600 | 0 | 0.70780E-07 | 377204.6 | 3747238.3 | 18.0 | 0.00 | 1.70 | 0.85 | YES |
| L0000601 | 0 | 0.70780E-07 | 377208.2 | 3747238.3 | 18.0 | 0.00 | 1.70 | 0.85 | YES |
| L0000602 | 0 | 0.70780E-07 | 377211.9 | 3747238.3 | 18.0 | 0.00 | 1.70 | 0.85 | YES |
| L0000603 | 0 | 0.70780E-07 | 377215.5 | 3747238.4 | 17.9 | 0.00 | 1.70 | 0.85 | YES |
| L0000604 | 0 | 0.70780E-07 | 377219.2 | 3747238.4 | 17.9 | 0.00 | 1.70 | 0.85 | YES |
| L0000605 | 0 | 0.70780E-07 | 377222.8 | 3747238.4 | 17.9 | 0.00 | 1.70 | 0.85 | YES |
| L0000606 | 0 | 0.70780E-07 | 377226.5 | 3747238.4 | 17.8 | 0.00 | 1.70 | 0.85 | YES |
| L0000607 | 0 | 0.70780E-07 | 377230.2 | 3747238.4 | 17.8 | 0.00 | 1.70 | 0.85 | YES |
| L0000608 | 0 | 0.70780E-07 | 377233.8 | 3747238.4 | 17.7 | 0.00 | 1.70 | 0.85 | YES |
| L0000609 | 0 | 0.70780E-07 | 377237.5 | 3747238.4 | 17.7 | 0.00 | 1.70 | 0.85 | YES |
| L0000610 | 0 | 0.70780E-07 | 377241.1 | 3747238.5 | 17.7 | 0.00 | 1.70 | 0.85 | YES |
| L0000611 | 0 | 0.70780E-07 | 377244.8 | 3747238.5 | 17.7 | 0.00 | 1.70 | 0.85 | YES |
| L0000612 | 0 | 0.70780E-07 | 377248.4 | 3747238.5 | 17.7 | 0.00 | 1.70 | 0.85 | YES |
| L0000613 | 0 | 0.70780E-07 | 377252.1 | 3747238.5 | 17.7 | 0.00 | 1.70 | 0.85 | YES |
| L0000614 | 0 | 0.70780E-07 | 377255.8 | 3747238.5 | 17.7 | 0.00 | 1.70 | 0.85 | YES |
| L0000615 | 0 | 0.70780E-07 | 377259.4 | 3747238.5 | 17.7 | 0.00 | 1.70 | 0.85 | YES |
| L0000616 | 0 | 0.70780E-07 | 377263.1 | 3747238.5 | 17.8 | 0.00 | 1.70 | 0.85 | YES |
| L0000617 | 0 | 0.70780E-07 | 377266.7 | 3747238.6 | 17.8 | 0.00 | 1.70 | 0.85 | YES |
| L0000618 | 0 | 0.70780E-07 | 377270.4 | 3747238.6 | 17.8 | 0.00 | 1.70 | 0.85 | YES |
| L0000619 | 0 | 0.70780E-07 | 377274.0 | 3747238.6 | 17.8 | 0.00 | 1.70 | 0.85 | YES |
| L0000620 | 0 | 0.70780E-07 | 377277.7 | 3747238.6 | 17.8 | 0.00 | 1.70 | 0.85 | YES |
| L0000621 | 0 | 0.70780E-07 | 377281.4 | 3747238.6 | 17.8 | 0.00 | 1.70 | 0.85 | YES |
| L0000622 | 0 | 0.70780E-07 | 377285.0 | 3747238.6 | 17.8 | 0.00 | 1.70 | 0.85 | YES |
| L0000623 | 0 | 0.70780E-07 | 377288.7 | 3747238.6 | 17.8 | 0.00 | 1.70 | 0.85 | YES |
| L0000624 | 0 | 0.70780E-07 | 377292.3 | 3747238.6 | 17.9 | 0.00 | 1.70 | 0.85 | YES |
| L0000625 | 0 | 0.70780E-07 | 377296.0 | 3747238.7 | 17.9 | 0.00 | 1.70 | 0.85 | YES |
| L0000626 | 0 | 0.70780E-07 | 377299.6 | 3747238.7 | 17.9 | 0.00 | 1.70 | 0.85 | YES |
| L0000627 | 0 | 0.70780E-07 | 377303.3 | 3747238.7 | 18.0 | 0.00 | 1.70 | 0.85 | YES |
| L0000628 | 0 | 0.70780E-07 | 377307.0 | 3747238.7 | 18.0 | 0.00 | 1.70 | 0.85 | YES |
| L0000629 | 0 | 0.70780E-07 | 377310.6 | 3747238.7 | 18.1 | 0.00 | 1.70 | 0.85 | YES |
| L0000630 | 0 | 0.70780E-07 | 377314.3 | 3747238.7 | 18.1 | 0.00 | 1.70 | 0.85 | YES |
| L0000631 | 0 | 0.70780E-07 | 377317.9 | 3747238.7 | 18.1 | 0.00 | 1.70 | 0.85 | YES |



*** MODELOPTs:  RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

*** 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 |
|---|---|---|---|---|---|---|---|---|---|---|

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| L0000632 | 0 | 0.70780E-07 | 377321.6 | 3747238.8 | 18.2 | 0.00 | 1.70 | 0.85 | YES |
| L0000633 | 0 | 0.70780E-07 | 377325.3 | 3747238.8 | 18.2 | 0.00 | 1.70 | 0.85 | YES |
| L0000634 | 0 | 0.70780E-07 | 377328.9 | 3747238.8 | 18.3 | 0.00 | 1.70 | 0.85 | YES |
| L0000635 | 0 | 0.70780E-07 | 377332.6 | 3747238.8 | 18.3 | 0.00 | 1.70 | 0.85 | YES |
| L0000636 | 0 | 0.70780E-07 | 377336.2 | 3747238.8 | 18.4 | 0.00 | 1.70 | 0.85 | YES |
| L0000637 | 0 | 0.70780E-07 | 377339.9 | 3747238.8 | 18.4 | 0.00 | 1.70 | 0.85 | YES |
| L0000638 | 0 | 0.70780E-07 | 377343.5 | 3747238.8 | 18.4 | 0.00 | 1.70 | 0.85 | YES |
| L0000639 | 0 | 0.70780E-07 | 377347.2 | 3747238.9 | 18.5 | 0.00 | 1.70 | 0.85 | YES |
| L0000640 | 0 | 0.70780E-07 | 377350.9 | 3747238.9 | 18.5 | 0.00 | 1.70 | 0.85 | YES |
| L0000641 | 0 | 0.70780E-07 | 377354.5 | 3747238.9 | 18.6 | 0.00 | 1.70 | 0.85 | YES |
| L0000642 | 0 | 0.70780E-07 | 377358.2 | 3747238.9 | 18.6 | 0.00 | 1.70 | 0.85 | YES |
| L0000643 | 0 | 0.70780E-07 | 377361.8 | 3747238.9 | 18.6 | 0.00 | 1.70 | 0.85 | YES |
| L0000644 | 0 | 0.70780E-07 | 377365.5 | 3747238.9 | 18.7 | 0.00 | 1.70 | 0.85 | YES |
| L0000645 | 0 | 0.70780E-07 | 377369.1 | 3747238.9 | 18.7 | 0.00 | 1.70 | 0.85 | YES |
| L0000646 | 0 | 0.70780E-07 | 377372.8 | 3747238.9 | 18.8 | 0.00 | 1.70 | 0.85 | YES |
| L0000647 | 0 | 0.70780E-07 | 377376.5 | 3747239.0 | 18.8 | 0.00 | 1.70 | 0.85 | YES |
| L0000648 | 0 | 0.70780E-07 | 377380.1 | 3747239.0 | 18.8 | 0.00 | 1.70 | 0.85 | YES |
| L0000649 | 0 | 0.70780E-07 | 377383.8 | 3747239.0 | 18.8 | 0.00 | 1.70 | 0.85 | YES |
| L0000650 | 0 | 0.70780E-07 | 377387.4 | 3747239.0 | 18.9 | 0.00 | 1.70 | 0.85 | YES |
| L0000651 | 0 | 0.70780E-07 | 377391.1 | 3747239.0 | 18.9 | 0.00 | 1.70 | 0.85 | YES |
| L0000652 | 0 | 0.70780E-07 | 377394.7 | 3747239.0 | 18.9 | 0.00 | 1.70 | 0.85 | YES |
| L0000653 | 0 | 0.70780E-07 | 377398.4 | 3747239.0 | 19.0 | 0.00 | 1.70 | 0.85 | YES |
| L0000654 | 0 | 0.70780E-07 | 377402.1 | 3747239.1 | 19.0 | 0.00 | 1.70 | 0.85 | YES |
| L0000655 | 0 | 0.70780E-07 | 377405.7 | 3747239.1 | 19.1 | 0.00 | 1.70 | 0.85 | YES |
| L0000656 | 0 | 0.70780E-07 | 377409.4 | 3747239.1 | 19.2 | 0.00 | 1.70 | 0.85 | YES |
| L0000657 | 0 | 0.70780E-07 | 377413.0 | 3747239.1 | 19.2 | 0.00 | 1.70 | 0.85 | YES |
| L0000658 | 0 | 0.70780E-07 | 377416.7 | 3747239.1 | 19.3 | 0.00 | 1.70 | 0.85 | YES |
| L0000659 | 0 | 0.70780E-07 | 377420.3 | 3747239.1 | 19.3 | 0.00 | 1.70 | 0.85 | YES |
| L0000660 | 0 | 0.70780E-07 | 377424.0 | 3747239.1 | 19.4 | 0.00 | 1.70 | 0.85 | YES |
| L0000661 | 0 | 0.70780E-07 | 377427.7 | 3747239.2 | 19.4 | 0.00 | 1.70 | 0.85 | YES |
| L0000662 | 0 | 0.70780E-07 | 377431.3 | 3747239.2 | 19.4 | 0.00 | 1.70 | 0.85 | YES |
| L0000663 | 0 | 0.70780E-07 | 377435.0 | 3747239.2 | 19.5 | 0.00 | 1.70 | 0.85 | YES |
| L0000664 | 0 | 0.70780E-07 | 377438.6 | 3747239.2 | 19.5 | 0.00 | 1.70 | 0.85 | YES |
| L0000665 | 0 | 0.70780E-07 | 377442.3 | 3747239.2 | 19.5 | 0.00 | 1.70 | 0.85 | YES |
| L0000666 | 0 | 0.70780E-07 | 377446.0 | 3747239.2 | 19.6 | 0.00 | 1.70 | 0.85 | YES |
| L0000667 | 0 | 0.70780E-07 | 377449.6 | 3747239.2 | 19.6 | 0.00 | 1.70 | 0.85 | YES |
| L0000668 | 0 | 0.70780E-07 | 377453.3 | 3747239.3 | 19.7 | 0.00 | 1.70 | 0.85 | YES |
| L0000669 | 0 | 0.70780E-07 | 377456.9 | 3747239.3 | 19.7 | 0.00 | 1.70 | 0.85 | YES |
| L0000670 | 0 | 0.70780E-07 | 377460.6 | 3747239.3 | 19.7 | 0.00 | 1.70 | 0.85 | YES |
| L0000671 | 0 | 0.70780E-07 | 377464.2 | 3747239.3 | 19.7 | 0.00 | 1.70 | 0.85 | YES |



*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

| SOURCE | NUMBER PART. | EMISSION RATE (GRAMS/SEC) | X | Y | BASE ELEV. | RELEASE HEIGHT | INIT. SY | INIT. SZ | URBAN SOURCE | EMISSION RATE SCALAR VARY |
|---|---|---|---|---|---|---|---|---|---|---|

| ID | CATS. | | (METERS) | (METERS) | (METERS) | (METERS) | (METERS) | (METERS) | BY |
|---|---|---|---|---|---|---|---|---|---|
| L0000672 | 0 | 0.70780E-07 | 377467.9 | 3747239.3 | 19.8 | 0.00 | 1.70 | 0.85 | YES |
| L0000673 | 0 | 0.70780E-07 | 377471.6 | 3747239.3 | 19.8 | 0.00 | 1.70 | 0.85 | YES |
| L0000674 | 0 | 0.70780E-07 | 377475.2 | 3747239.3 | 19.8 | 0.00 | 1.70 | 0.85 | YES |
| L0000675 | 0 | 0.70780E-07 | 377478.9 | 3747239.3 | 19.8 | 0.00 | 1.70 | 0.85 | YES |
| L0000676 | 0 | 0.70780E-07 | 377482.5 | 3747239.4 | 19.8 | 0.00 | 1.70 | 0.85 | YES |
| L0000677 | 0 | 0.70780E-07 | 377486.2 | 3747239.4 | 19.8 | 0.00 | 1.70 | 0.85 | YES |
| L0000678 | 0 | 0.70780E-07 | 377489.8 | 3747239.4 | 19.8 | 0.00 | 1.70 | 0.85 | YES |
| L0000679 | 0 | 0.70780E-07 | 377493.5 | 3747239.4 | 19.8 | 0.00 | 1.70 | 0.85 | YES |
| L0000680 | 0 | 0.70780E-07 | 377497.2 | 3747239.4 | 19.8 | 0.00 | 1.70 | 0.85 | YES |
| L0000681 | 0 | 0.70780E-07 | 377500.8 | 3747239.4 | 19.8 | 0.00 | 1.70 | 0.85 | YES |
| L0000682 | 0 | 0.70780E-07 | 377504.5 | 3747239.4 | 19.7 | 0.00 | 1.70 | 0.85 | YES |
| L0000683 | 0 | 0.70780E-07 | 377508.1 | 3747239.5 | 19.7 | 0.00 | 1.70 | 0.85 | YES |
| L0000684 | 0 | 0.70780E-07 | 377511.8 | 3747239.5 | 19.7 | 0.00 | 1.70 | 0.85 | YES |
| L0000685 | 0 | 0.70780E-07 | 377515.4 | 3747239.5 | 19.7 | 0.00 | 1.70 | 0.85 | YES |
| L0000686 | 0 | 0.70780E-07 | 377519.1 | 3747239.5 | 19.7 | 0.00 | 1.70 | 0.85 | YES |
| L0000687 | 0 | 0.70780E-07 | 377522.8 | 3747239.5 | 19.6 | 0.00 | 1.70 | 0.85 | YES |
| L0000688 | 0 | 0.70780E-07 | 377526.4 | 3747239.5 | 19.6 | 0.00 | 1.70 | 0.85 | YES |
| L0000689 | 0 | 0.70780E-07 | 377530.1 | 3747239.5 | 19.6 | 0.00 | 1.70 | 0.85 | YES |
| L0000690 | 0 | 0.70780E-07 | 377533.7 | 3747239.6 | 19.6 | 0.00 | 1.70 | 0.85 | YES |
| L0000691 | 0 | 0.70780E-07 | 377537.4 | 3747239.6 | 19.6 | 0.00 | 1.70 | 0.85 | YES |
| L0000692 | 0 | 0.70780E-07 | 377541.0 | 3747239.6 | 19.5 | 0.00 | 1.70 | 0.85 | YES |
| L0000693 | 0 | 0.70780E-07 | 377544.7 | 3747239.6 | 19.5 | 0.00 | 1.70 | 0.85 | YES |
| L0000694 | 0 | 0.70780E-07 | 377548.4 | 3747239.6 | 19.5 | 0.00 | 1.70 | 0.85 | YES |
| L0000695 | 0 | 0.70780E-07 | 377552.0 | 3747239.6 | 19.5 | 0.00 | 1.70 | 0.85 | YES |
| L0000696 | 0 | 0.70780E-07 | 377555.7 | 3747239.6 | 19.5 | 0.00 | 1.70 | 0.85 | YES |
| L0000697 | 0 | 0.70780E-07 | 377559.3 | 3747239.6 | 19.5 | 0.00 | 1.70 | 0.85 | YES |
| L0000698 | 0 | 0.70780E-07 | 377563.0 | 3747239.7 | 19.5 | 0.00 | 1.70 | 0.85 | YES |
| L0000699 | 0 | 0.70780E-07 | 377566.7 | 3747239.7 | 19.4 | 0.00 | 1.70 | 0.85 | YES |
| L0000700 | 0 | 0.70780E-07 | 377570.3 | 3747239.7 | 19.4 | 0.00 | 1.70 | 0.85 | YES |
| L0000701 | 0 | 0.70780E-07 | 377574.0 | 3747239.7 | 19.4 | 0.00 | 1.70 | 0.85 | YES |
| L0000702 | 0 | 0.70780E-07 | 377577.6 | 3747239.7 | 19.4 | 0.00 | 1.70 | 0.85 | YES |
| L0000703 | 0 | 0.70780E-07 | 377581.3 | 3747239.7 | 19.4 | 0.00 | 1.70 | 0.85 | YES |
| L0000704 | 0 | 0.70780E-07 | 377584.9 | 3747239.7 | 19.3 | 0.00 | 1.70 | 0.85 | YES |
| L0000705 | 0 | 0.70780E-07 | 377588.6 | 3747239.8 | 19.3 | 0.00 | 1.70 | 0.85 | YES |
| L0000706 | 0 | 0.70780E-07 | 377592.3 | 3747239.8 | 19.3 | 0.00 | 1.70 | 0.85 | YES |
| L0000707 | 0 | 0.70780E-07 | 377595.9 | 3747239.8 | 19.2 | 0.00 | 1.70 | 0.85 | YES |
| L0000708 | 0 | 0.70780E-07 | 377599.6 | 3747239.8 | 19.2 | 0.00 | 1.70 | 0.85 | YES |
| L0000709 | 0 | 0.70780E-07 | 377603.2 | 3747239.8 | 19.2 | 0.00 | 1.70 | 0.85 | YES |
| L0000710 | 0 | 0.70780E-07 | 377606.9 | 3747239.8 | 19.2 | 0.00 | 1.70 | 0.85 | YES |
| L0000711 | 0 | 0.70780E-07 | 377610.5 | 3747239.8 | 19.2 | 0.00 | 1.70 | 0.85 | YES |



*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| L0000712 | 0 | 0.70780E-07 | 377614.2 | 3747239.9 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0000713 | 0 | 0.70780E-07 | 377617.9 | 3747239.9 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0000714 | 0 | 0.70780E-07 | 377621.5 | 3747239.9 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0000715 | 0 | 0.70780E-07 | 377625.2 | 3747239.9 | 19.1 | 0.00 | 1.70 | 0.85 | YES | |
| L0000716 | 0 | 0.70780E-07 | 377628.8 | 3747239.9 | 19.1 | 0.00 | 1.70 | 0.85 | YES | |
| L0000717 | 0 | 0.70780E-07 | 377632.5 | 3747239.9 | 19.1 | 0.00 | 1.70 | 0.85 | YES | |
| L0000718 | 0 | 0.70780E-07 | 377636.1 | 3747239.9 | 19.1 | 0.00 | 1.70 | 0.85 | YES | |
| L0000719 | 0 | 0.70780E-07 | 377639.8 | 3747239.9 | 19.1 | 0.00 | 1.70 | 0.85 | YES | |
| L0000720 | 0 | 0.70780E-07 | 377643.5 | 3747240.0 | 19.0 | 0.00 | 1.70 | 0.85 | YES | |
| L0000721 | 0 | 0.70780E-07 | 377647.1 | 3747240.0 | 19.0 | 0.00 | 1.70 | 0.85 | YES | |
| L0000722 | 0 | 0.70780E-07 | 377650.8 | 3747240.0 | 19.0 | 0.00 | 1.70 | 0.85 | YES | |
| L0000723 | 0 | 0.70780E-07 | 377654.4 | 3747240.0 | 19.0 | 0.00 | 1.70 | 0.85 | YES | |
| L0000724 | 0 | 0.70780E-07 | 377658.1 | 3747240.0 | 18.9 | 0.00 | 1.70 | 0.85 | YES | |
| L0000725 | 0 | 0.70780E-07 | 377661.7 | 3747240.0 | 18.9 | 0.00 | 1.70 | 0.85 | YES | |
| L0000726 | 0 | 0.70780E-07 | 377665.4 | 3747240.0 | 18.9 | 0.00 | 1.70 | 0.85 | YES | |
| L0000727 | 0 | 0.70780E-07 | 377669.1 | 3747240.1 | 18.9 | 0.00 | 1.70 | 0.85 | YES | |
| L0000728 | 0 | 0.70780E-07 | 377672.7 | 3747240.1 | 18.8 | 0.00 | 1.70 | 0.85 | YES | |
| L0000729 | 0 | 0.70780E-07 | 377676.4 | 3747240.1 | 18.8 | 0.00 | 1.70 | 0.85 | YES | |
| L0000730 | 0 | 0.70780E-07 | 377680.0 | 3747240.1 | 18.8 | 0.00 | 1.70 | 0.85 | YES | |
| L0000731 | 0 | 0.70780E-07 | 377683.7 | 3747240.1 | 18.8 | 0.00 | 1.70 | 0.85 | YES | |
| L0000732 | 0 | 0.70780E-07 | 377687.4 | 3747240.1 | 18.8 | 0.00 | 1.70 | 0.85 | YES | |
| L0000733 | 0 | 0.70780E-07 | 377691.0 | 3747240.1 | 18.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0000734 | 0 | 0.70780E-07 | 377694.7 | 3747240.2 | 18.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0000735 | 0 | 0.70780E-07 | 377698.3 | 3747240.2 | 18.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0000736 | 0 | 0.70780E-07 | 377702.0 | 3747240.2 | 18.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0000737 | 0 | 0.70780E-07 | 377705.6 | 3747240.2 | 18.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0000738 | 0 | 0.70780E-07 | 377709.3 | 3747240.2 | 18.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0000739 | 0 | 0.70780E-07 | 377713.0 | 3747240.2 | 18.6 | 0.00 | 1.70 | 0.85 | YES | |
| L0000740 | 0 | 0.70780E-07 | 377716.6 | 3747240.2 | 18.6 | 0.00 | 1.70 | 0.85 | YES | |
| L0000741 | 0 | 0.70780E-07 | 377720.3 | 3747240.2 | 18.6 | 0.00 | 1.70 | 0.85 | YES | |
| L0000742 | 0 | 0.70780E-07 | 377723.9 | 3747240.3 | 18.6 | 0.00 | 1.70 | 0.85 | YES | |
| L0000743 | 0 | 0.70780E-07 | 377727.6 | 3747240.3 | 18.5 | 0.00 | 1.70 | 0.85 | YES | |
| L0000744 | 0 | 0.70780E-07 | 377731.2 | 3747240.3 | 18.5 | 0.00 | 1.70 | 0.85 | YES | |
| L0000745 | 0 | 0.70780E-07 | 377734.9 | 3747240.3 | 18.5 | 0.00 | 1.70 | 0.85 | YES | |
| L0000746 | 0 | 0.70780E-07 | 377738.6 | 3747240.3 | 18.5 | 0.00 | 1.70 | 0.85 | YES | |
| L0000747 | 0 | 0.70780E-07 | 377742.2 | 3747240.3 | 18.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0000748 | 0 | 0.70780E-07 | 377745.9 | 3747240.3 | 18.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0000749 | 0 | 0.70780E-07 | 377749.5 | 3747240.4 | 18.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0000750 | 0 | 0.70780E-07 | 377753.2 | 3747240.4 | 18.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0000751 | 0 | 0.70780E-07 | 377756.8 | 3747240.4 | 18.3 | 0.00 | 1.70 | 0.85 | YES | |



*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| L0000752 | 0 | 0.70780E-07 | 377760.5 | 3747240.4 | 18.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0000753 | 0 | 0.70780E-07 | 377764.2 | 3747240.4 | 18.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0000754 | 0 | 0.70780E-07 | 377767.8 | 3747240.4 | 18.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0000755 | 0 | 0.70780E-07 | 377771.5 | 3747240.4 | 18.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0000756 | 0 | 0.70780E-07 | 377775.1 | 3747240.5 | 18.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0000757 | 0 | 0.70780E-07 | 377778.8 | 3747240.5 | 18.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0000758 | 0 | 0.70780E-07 | 377782.4 | 3747240.5 | 18.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0000759 | 0 | 0.70780E-07 | 377786.1 | 3747240.5 | 18.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0000760 | 0 | 0.70780E-07 | 377789.8 | 3747240.5 | 18.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0000761 | 0 | 0.70780E-07 | 377793.4 | 3747240.5 | 18.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0000762 | 0 | 0.70780E-07 | 377797.1 | 3747240.5 | 18.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0000763 | 0 | 0.70780E-07 | 377800.7 | 3747240.5 | 18.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0000764 | 0 | 0.70780E-07 | 377804.4 | 3747240.6 | 18.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0000765 | 0 | 0.70780E-07 | 377808.1 | 3747240.6 | 18.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0000766 | 0 | 0.70780E-07 | 377811.7 | 3747240.6 | 18.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0000767 | 0 | 0.70780E-07 | 377815.4 | 3747240.6 | 18.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0000768 | 0 | 0.70780E-07 | 377819.0 | 3747240.6 | 18.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0000769 | 0 | 0.70780E-07 | 377822.7 | 3747240.6 | 18.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0000770 | 0 | 0.70780E-07 | 377826.3 | 3747240.6 | 18.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0000771 | 0 | 0.70780E-07 | 377830.0 | 3747240.7 | 18.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0000772 | 0 | 0.70780E-07 | 377833.7 | 3747240.7 | 18.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0000773 | 0 | 0.70780E-07 | 377837.3 | 3747240.7 | 18.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0000774 | 0 | 0.70780E-07 | 377841.0 | 3747240.7 | 18.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0000775 | 0 | 0.70780E-07 | 377844.6 | 3747240.7 | 18.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0000776 | 0 | 0.70780E-07 | 377848.3 | 3747240.7 | 18.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0000777 | 0 | 0.70780E-07 | 377851.9 | 3747240.7 | 18.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0000778 | 0 | 0.70780E-07 | 377855.6 | 3747240.8 | 18.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0000779 | 0 | 0.70780E-07 | 377859.3 | 3747240.8 | 18.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0000780 | 0 | 0.70780E-07 | 377862.9 | 3747240.8 | 18.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0000781 | 0 | 0.70780E-07 | 377866.6 | 3747240.8 | 18.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0000782 | 0 | 0.70780E-07 | 377870.2 | 3747240.8 | 18.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0000783 | 0 | 0.70780E-07 | 377873.9 | 3747240.8 | 18.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0000784 | 0 | 0.70780E-07 | 377877.5 | 3747240.8 | 18.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0000785 | 0 | 0.70780E-07 | 377881.2 | 3747240.9 | 18.5 | 0.00 | 1.70 | 0.85 | YES | |
| L0000786 | 0 | 0.70780E-07 | 377884.9 | 3747240.9 | 18.5 | 0.00 | 1.70 | 0.85 | YES | |
| L0000787 | 0 | 0.70780E-07 | 377888.5 | 3747240.9 | 18.5 | 0.00 | 1.70 | 0.85 | YES | |
| L0000788 | 0 | 0.70780E-07 | 377892.2 | 3747240.9 | 18.5 | 0.00 | 1.70 | 0.85 | YES | |
| L0000789 | 0 | 0.70780E-07 | 377895.8 | 3747240.9 | 18.6 | 0.00 | 1.70 | 0.85 | YES | |
| L0000790 | 0 | 0.70780E-07 | 377899.5 | 3747240.9 | 18.6 | 0.00 | 1.70 | 0.85 | YES | |
| L0000791 | 0 | 0.70780E-07 | 377903.1 | 3747240.9 | 18.6 | 0.00 | 1.70 | 0.85 | YES | |

*** 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| L0000792 | 0 | 0.70780E-07 | 377906.8 | 3747240.9 | 18.6 | 0.00 | 1.70 | 0.85 | YES | |
| L0000793 | 0 | 0.70780E-07 | 377910.5 | 3747241.0 | 18.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0000794 | 0 | 0.70780E-07 | 377914.1 | 3747241.0 | 18.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0000795 | 0 | 0.70780E-07 | 377917.8 | 3747241.0 | 18.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0000796 | 0 | 0.70780E-07 | 377921.4 | 3747241.0 | 18.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0000797 | 0 | 0.70780E-07 | 377925.1 | 3747241.0 | 18.8 | 0.00 | 1.70 | 0.85 | YES | |
| L0000798 | 0 | 0.70780E-07 | 377928.8 | 3747241.0 | 18.8 | 0.00 | 1.70 | 0.85 | YES | |
| L0000799 | 0 | 0.70780E-07 | 377932.4 | 3747241.0 | 18.8 | 0.00 | 1.70 | 0.85 | YES | |
| L0000800 | 0 | 0.70780E-07 | 377936.1 | 3747241.1 | 18.9 | 0.00 | 1.70 | 0.85 | YES | |
| L0000801 | 0 | 0.70780E-07 | 377939.7 | 3747241.1 | 18.9 | 0.00 | 1.70 | 0.85 | YES | |
| L0000802 | 0 | 0.70780E-07 | 377943.4 | 3747241.1 | 18.9 | 0.00 | 1.70 | 0.85 | YES | |
| L0000803 | 0 | 0.70780E-07 | 377947.0 | 3747241.1 | 19.0 | 0.00 | 1.70 | 0.85 | YES | |
| L0000804 | 0 | 0.70780E-07 | 377950.7 | 3747241.1 | 19.1 | 0.00 | 1.70 | 0.85 | YES | |
| L0000805 | 0 | 0.70780E-07 | 377954.4 | 3747241.1 | 19.1 | 0.00 | 1.70 | 0.85 | YES | |
| L0000806 | 0 | 0.70780E-07 | 377958.0 | 3747241.1 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0000807 | 0 | 0.70780E-07 | 377961.7 | 3747241.2 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0000808 | 0 | 0.70780E-07 | 377965.3 | 3747241.2 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0000809 | 0 | 0.70780E-07 | 377969.0 | 3747241.2 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0000810 | 0 | 0.70780E-07 | 377972.6 | 3747241.2 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0000811 | 0 | 0.70780E-07 | 377976.3 | 3747241.2 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0000812 | 0 | 0.70780E-07 | 377980.0 | 3747241.2 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0000813 | 0 | 0.70780E-07 | 377983.6 | 3747241.2 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0000814 | 0 | 0.70780E-07 | 377987.3 | 3747241.2 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0000815 | 0 | 0.70780E-07 | 377990.9 | 3747241.3 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0000816 | 0 | 0.70780E-07 | 377994.6 | 3747241.3 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0000817 | 0 | 0.70780E-07 | 377998.2 | 3747241.3 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0000818 | 0 | 0.70780E-07 | 378001.9 | 3747241.3 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0000819 | 0 | 0.70780E-07 | 378005.6 | 3747241.3 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0000820 | 0 | 0.70780E-07 | 378009.2 | 3747241.3 | 19.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0000821 | 0 | 0.70780E-07 | 378012.9 | 3747241.3 | 19.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0000822 | 0 | 0.70780E-07 | 378016.5 | 3747241.4 | 19.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0000823 | 0 | 0.70780E-07 | 378020.2 | 3747241.4 | 19.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0000824 | 0 | 0.70780E-07 | 378023.8 | 3747241.4 | 19.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0000825 | 0 | 0.70780E-07 | 378027.5 | 3747241.4 | 19.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0000826 | 0 | 0.70780E-07 | 378031.2 | 3747241.4 | 19.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0000827 | 0 | 0.70780E-07 | 378034.8 | 3747241.4 | 19.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0000828 | 0 | 0.70780E-07 | 378038.5 | 3747241.4 | 19.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0000829 | 0 | 0.70780E-07 | 378042.1 | 3747241.5 | 19.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0000830 | 0 | 0.70780E-07 | 378045.8 | 3747241.5 | 19.5 | 0.00 | 1.70 | 0.85 | YES | |

*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

*** 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| L0000831 | 0 | 0.70780E-07 | 378049.5 | 3747241.5 | 19.5 | 0.00 | 1.70 | 0.85 | YES | |
| L0000832 | 0 | 0.70780E-07 | 378053.1 | 3747241.5 | 19.6 | 0.00 | 1.70 | 0.85 | YES | |
| L0000833 | 0 | 0.70780E-07 | 378056.8 | 3747241.5 | 19.6 | 0.00 | 1.70 | 0.85 | YES | |
| L0000834 | 0 | 0.70780E-07 | 378060.4 | 3747241.5 | 19.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0000835 | 0 | 0.70780E-07 | 378064.1 | 3747241.5 | 19.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0000836 | 0 | 0.70780E-07 | 378067.7 | 3747241.5 | 19.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0000837 | 0 | 0.70780E-07 | 378071.4 | 3747241.6 | 19.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0000838 | 0 | 0.70780E-07 | 378075.1 | 3747241.6 | 19.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0000839 | 0 | 0.70780E-07 | 378078.7 | 3747241.6 | 19.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0000840 | 0 | 0.70780E-07 | 378082.4 | 3747241.6 | 19.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0000841 | 0 | 0.70780E-07 | 378086.0 | 3747241.6 | 19.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0000842 | 0 | 0.70780E-07 | 378089.7 | 3747241.6 | 19.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0000843 | 0 | 0.70780E-07 | 378093.3 | 3747241.6 | 19.8 | 0.00 | 1.70 | 0.85 | YES | |
| L0000844 | 0 | 0.70780E-07 | 378097.0 | 3747241.7 | 19.8 | 0.00 | 1.70 | 0.85 | YES | |
| L0000845 | 0 | 0.70780E-07 | 378100.7 | 3747241.7 | 19.8 | 0.00 | 1.70 | 0.85 | YES | |
| L0000846 | 0 | 0.70780E-07 | 378104.3 | 3747241.7 | 19.8 | 0.00 | 1.70 | 0.85 | YES | |
| L0000847 | 0 | 0.70780E-07 | 378108.0 | 3747241.7 | 19.9 | 0.00 | 1.70 | 0.85 | YES | |
| L0000848 | 0 | 0.70780E-07 | 378111.6 | 3747241.7 | 19.9 | 0.00 | 1.70 | 0.85 | YES | |
| L0000849 | 0 | 0.70780E-07 | 378115.3 | 3747241.7 | 19.9 | 0.00 | 1.70 | 0.85 | YES | |
| L0000850 | 0 | 0.70780E-07 | 378118.9 | 3747241.7 | 19.9 | 0.00 | 1.70 | 0.85 | YES | |
| L0000851 | 0 | 0.70780E-07 | 378122.6 | 3747241.8 | 19.9 | 0.00 | 1.70 | 0.85 | YES | |
| L0000852 | 0 | 0.70780E-07 | 378126.3 | 3747241.8 | 19.9 | 0.00 | 1.70 | 0.85 | YES | |
| L0000853 | 0 | 0.70780E-07 | 378129.9 | 3747241.8 | 19.9 | 0.00 | 1.70 | 0.85 | YES | |
| L0000854 | 0 | 0.70780E-07 | 378133.6 | 3747241.8 | 19.9 | 0.00 | 1.70 | 0.85 | YES | |
| L0000855 | 0 | 0.70780E-07 | 378137.2 | 3747241.8 | 19.9 | 0.00 | 1.70 | 0.85 | YES | |
| L0000856 | 0 | 0.70780E-07 | 378140.9 | 3747241.8 | 19.9 | 0.00 | 1.70 | 0.85 | YES | |
| L0000857 | 0 | 0.70780E-07 | 378144.5 | 3747241.8 | 19.9 | 0.00 | 1.70 | 0.85 | YES | |
| L0000858 | 0 | 0.70780E-07 | 378148.2 | 3747241.8 | 19.9 | 0.00 | 1.70 | 0.85 | YES | |
| L0000859 | 0 | 0.70780E-07 | 378151.9 | 3747241.9 | 19.9 | 0.00 | 1.70 | 0.85 | YES | |
| L0000860 | 0 | 0.70780E-07 | 378155.5 | 3747241.9 | 19.9 | 0.00 | 1.70 | 0.85 | YES | |
| L0000861 | 0 | 0.70780E-07 | 378159.2 | 3747241.9 | 19.9 | 0.00 | 1.70 | 0.85 | YES | |
| L0000862 | 0 | 0.70780E-07 | 378162.8 | 3747241.9 | 19.9 | 0.00 | 1.70 | 0.85 | YES | |
| L0000863 | 0 | 0.70780E-07 | 378166.5 | 3747241.9 | 19.9 | 0.00 | 1.70 | 0.85 | YES | |
| L0000864 | 0 | 0.70780E-07 | 378170.2 | 3747241.9 | 19.8 | 0.00 | 1.70 | 0.85 | YES | |
| L0000865 | 0 | 0.70780E-07 | 378173.8 | 3747241.9 | 19.8 | 0.00 | 1.70 | 0.85 | YES | |
| L0000866 | 0 | 0.70780E-07 | 378177.5 | 3747242.0 | 19.8 | 0.00 | 1.70 | 0.85 | YES | |
| L0000867 | 0 | 0.70780E-07 | 378181.1 | 3747242.0 | 19.7 | 0.00 | 1.70 | 0.85 | YES | |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| L0000868 | 0 | 0.70780E-07 | 378184.8 | 3747242.0 | 19.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0000869 | 0 | 0.70780E-07 | 378188.4 | 3747242.0 | 19.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0000870 | 0 | 0.70780E-07 | 378192.1 | 3747242.0 | 19.6 | 0.00 | 1.70 | 0.85 | YES | |
| L0000871 | 0 | 0.70780E-07 | 378195.8 | 3747242.0 | 19.7 | 0.00 | 1.70 | 0.85 | YES | |



*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| L0000872 | 0 | 0.70780E-07 | 378199.4 | 3747242.0 | 19.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0000873 | 0 | 0.70780E-07 | 378203.1 | 3747242.1 | 19.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0000874 | 0 | 0.70780E-07 | 378206.7 | 3747242.1 | 19.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0000875 | 0 | 0.70780E-07 | 378210.4 | 3747242.1 | 19.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0000876 | 0 | 0.70780E-07 | 378214.0 | 3747242.1 | 19.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0000877 | 0 | 0.70780E-07 | 378217.7 | 3747242.1 | 19.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0000878 | 0 | 0.70780E-07 | 378221.4 | 3747242.1 | 19.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0000879 | 0 | 0.70780E-07 | 378225.0 | 3747242.1 | 19.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0000880 | 0 | 0.70780E-07 | 378228.7 | 3747242.1 | 19.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0000881 | 0 | 0.70780E-07 | 378232.3 | 3747242.2 | 19.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0000882 | 0 | 0.70780E-07 | 378236.0 | 3747242.2 | 19.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0000883 | 0 | 0.70780E-07 | 378239.6 | 3747242.2 | 19.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0000884 | 0 | 0.70780E-07 | 378243.3 | 3747242.2 | 19.6 | 0.00 | 1.70 | 0.85 | YES | |
| L0000885 | 0 | 0.70780E-07 | 378247.0 | 3747242.2 | 19.6 | 0.00 | 1.70 | 0.85 | YES | |
| L0000886 | 0 | 0.70780E-07 | 378250.6 | 3747242.2 | 19.5 | 0.00 | 1.70 | 0.85 | YES | |
| L0000887 | 0 | 0.70780E-07 | 378254.3 | 3747242.2 | 19.5 | 0.00 | 1.70 | 0.85 | YES | |
| L0000888 | 0 | 0.70780E-07 | 378257.9 | 3747242.3 | 19.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0000889 | 0 | 0.70780E-07 | 378261.6 | 3747242.3 | 19.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0000890 | 0 | 0.70780E-07 | 378265.2 | 3747242.3 | 19.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0000891 | 0 | 0.70780E-07 | 378268.9 | 3747242.3 | 19.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0000892 | 0 | 0.70780E-07 | 378272.6 | 3747242.3 | 19.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0000893 | 0 | 0.70780E-07 | 378276.2 | 3747242.3 | 19.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0000894 | 0 | 0.70780E-07 | 378279.9 | 3747242.3 | 19.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0000895 | 0 | 0.70780E-07 | 378283.5 | 3747242.4 | 19.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0000896 | 0 | 0.70780E-07 | 378287.2 | 3747242.4 | 19.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0000897 | 0 | 0.70780E-07 | 378290.9 | 3747242.4 | 19.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0000898 | 0 | 0.70780E-07 | 378294.5 | 3747242.4 | 19.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0000899 | 0 | 0.70780E-07 | 378298.2 | 3747242.4 | 19.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0000900 | 0 | 0.70780E-07 | 378301.8 | 3747242.4 | 19.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0000901 | 0 | 0.70780E-07 | 378305.5 | 3747242.4 | 19.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0000902 | 0 | 0.70780E-07 | 378309.1 | 3747242.5 | 19.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0000903 | 0 | 0.70780E-07 | 378312.8 | 3747242.5 | 19.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0000904 | 0 | 0.70780E-07 | 378316.5 | 3747242.5 | 19.4 | 0.00 | 1.70 | 0.85 | YES | |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| L0000905 | 0 | 0.70780E-07 | 378320.1 | 3747242.5 | 19.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0000906 | 0 | 0.70780E-07 | 378323.8 | 3747242.5 | 19.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0000907 | 0 | 0.70780E-07 | 378327.4 | 3747242.5 | 19.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0000908 | 0 | 0.70780E-07 | 378331.1 | 3747242.5 | 19.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0000909 | 0 | 0.70780E-07 | 378334.7 | 3747242.5 | 19.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0000910 | 0 | 0.70780E-07 | 378338.4 | 3747242.6 | 19.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0000911 | 0 | 0.70780E-07 | 378342.1 | 3747242.6 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |



*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| L0000912 | 0 | 0.70780E-07 | 378345.7 | 3747242.6 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0000913 | 0 | 0.70780E-07 | 378349.4 | 3747242.6 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0000914 | 0 | 0.70780E-07 | 378353.0 | 3747242.6 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0000915 | 0 | 0.70780E-07 | 378356.7 | 3747242.6 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0000916 | 0 | 0.70780E-07 | 378360.3 | 3747242.6 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0000917 | 0 | 0.70780E-07 | 378364.0 | 3747242.7 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0000918 | 0 | 0.70780E-07 | 378367.7 | 3747242.7 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0000919 | 0 | 0.70780E-07 | 378371.3 | 3747242.7 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0000920 | 0 | 0.70780E-07 | 378375.0 | 3747242.7 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0000921 | 0 | 0.70780E-07 | 378378.6 | 3747242.7 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0000922 | 0 | 0.70780E-07 | 378382.3 | 3747242.7 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0000923 | 0 | 0.70780E-07 | 378385.9 | 3747242.7 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0000924 | 0 | 0.70780E-07 | 378389.6 | 3747242.8 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0000925 | 0 | 0.70780E-07 | 378393.3 | 3747242.8 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0000926 | 0 | 0.70780E-07 | 378396.9 | 3747242.8 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0000927 | 0 | 0.70780E-07 | 378400.6 | 3747242.8 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0000928 | 0 | 0.70780E-07 | 378404.2 | 3747242.8 | 19.1 | 0.00 | 1.70 | 0.85 | YES | |
| L0000929 | 0 | 0.70780E-07 | 378407.9 | 3747242.8 | 19.1 | 0.00 | 1.70 | 0.85 | YES | |
| L0000930 | 0 | 0.70780E-07 | 378411.6 | 3747242.8 | 19.1 | 0.00 | 1.70 | 0.85 | YES | |
| L0000931 | 0 | 0.70780E-07 | 378415.2 | 3747242.8 | 19.0 | 0.00 | 1.70 | 0.85 | YES | |
| L0000932 | 0 | 0.70780E-07 | 378418.9 | 3747242.9 | 19.0 | 0.00 | 1.70 | 0.85 | YES | |
| L0000933 | 0 | 0.70780E-07 | 378422.5 | 3747242.9 | 19.0 | 0.00 | 1.70 | 0.85 | YES | |
| L0000934 | 0 | 0.70780E-07 | 378426.2 | 3747242.9 | 19.0 | 0.00 | 1.70 | 0.85 | YES | |
| L0000935 | 0 | 0.70780E-07 | 378429.8 | 3747242.9 | 19.0 | 0.00 | 1.70 | 0.85 | YES | |
| L0000936 | 0 | 0.70780E-07 | 378433.5 | 3747242.9 | 19.1 | 0.00 | 1.70 | 0.85 | YES | |
| L0000937 | 0 | 0.70780E-07 | 378437.2 | 3747242.9 | 19.1 | 0.00 | 1.70 | 0.85 | YES | |
| L0000938 | 0 | 0.70780E-07 | 378440.8 | 3747242.9 | 19.1 | 0.00 | 1.70 | 0.85 | YES | |
| L0000939 | 0 | 0.70780E-07 | 378444.5 | 3747243.0 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0000940 | 0 | 0.70780E-07 | 378448.1 | 3747243.0 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0000941 | 0 | 0.70780E-07 | 378451.8 | 3747243.0 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| L0000942 | 0 | 0.70780E-07 | 378455.4 | 3747243.0 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0000943 | 0 | 0.70780E-07 | 378459.1 | 3747243.0 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0000944 | 0 | 0.70780E-07 | 378462.8 | 3747243.0 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0000945 | 0 | 0.70780E-07 | 378466.4 | 3747243.0 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0000946 | 0 | 0.70780E-07 | 378470.1 | 3747243.1 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0000947 | 0 | 0.70780E-07 | 378473.7 | 3747243.1 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0000948 | 0 | 0.70780E-07 | 378477.4 | 3747243.1 | 19.1 | 0.00 | 1.70 | 0.85 | YES | |
| L0000949 | 0 | 0.70780E-07 | 378481.0 | 3747243.1 | 19.1 | 0.00 | 1.70 | 0.85 | YES | |
| L0000950 | 0 | 0.70780E-07 | 378484.7 | 3747243.1 | 19.1 | 0.00 | 1.70 | 0.85 | YES | |
| L0000951 | 0 | 0.70780E-07 | 378488.4 | 3747243.1 | 19.1 | 0.00 | 1.70 | 0.85 | YES | |



*** MODELOPTs:  RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

*** 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| L0000952 | 0 | 0.70780E-07 | 378492.0 | 3747243.1 | 19.0 | 0.00 | 1.70 | 0.85 | YES | |
| L0000953 | 0 | 0.70780E-07 | 378495.7 | 3747243.1 | 19.0 | 0.00 | 1.70 | 0.85 | YES | |
| L0000954 | 0 | 0.70780E-07 | 378499.3 | 3747243.2 | 19.0 | 0.00 | 1.70 | 0.85 | YES | |
| L0000955 | 0 | 0.70780E-07 | 378503.0 | 3747243.2 | 19.0 | 0.00 | 1.70 | 0.85 | YES | |
| L0000956 | 0 | 0.70780E-07 | 378506.6 | 3747243.2 | 18.9 | 0.00 | 1.70 | 0.85 | YES | |
| L0000957 | 0 | 0.70780E-07 | 378510.3 | 3747243.2 | 18.9 | 0.00 | 1.70 | 0.85 | YES | |
| L0000958 | 0 | 0.70780E-07 | 378514.0 | 3747243.2 | 18.9 | 0.00 | 1.70 | 0.85 | YES | |
| L0000959 | 0 | 0.70780E-07 | 378517.6 | 3747243.2 | 18.9 | 0.00 | 1.70 | 0.85 | YES | |
| L0000960 | 0 | 0.70780E-07 | 378521.3 | 3747243.2 | 18.9 | 0.00 | 1.70 | 0.85 | YES | |
| L0000961 | 0 | 0.70780E-07 | 378524.9 | 3747243.3 | 18.9 | 0.00 | 1.70 | 0.85 | YES | |
| L0000962 | 0 | 0.70780E-07 | 378528.6 | 3747243.3 | 18.8 | 0.00 | 1.70 | 0.85 | YES | |
| L0000963 | 0 | 0.70780E-07 | 378532.3 | 3747243.3 | 18.8 | 0.00 | 1.70 | 0.85 | YES | |
| L0000964 | 0 | 0.70780E-07 | 378535.9 | 3747243.3 | 18.8 | 0.00 | 1.70 | 0.85 | YES | |
| L0000965 | 0 | 0.70780E-07 | 378539.6 | 3747243.3 | 18.8 | 0.00 | 1.70 | 0.85 | YES | |
| L0000966 | 0 | 0.70780E-07 | 378543.2 | 3747243.3 | 18.8 | 0.00 | 1.70 | 0.85 | YES | |
| L0000967 | 0 | 0.70780E-07 | 378546.9 | 3747243.3 | 18.8 | 0.00 | 1.70 | 0.85 | YES | |
| L0000968 | 0 | 0.70780E-07 | 378550.5 | 3747243.4 | 18.8 | 0.00 | 1.70 | 0.85 | YES | |
| L0000969 | 0 | 0.70780E-07 | 378554.2 | 3747243.4 | 18.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0000970 | 0 | 0.70780E-07 | 378557.9 | 3747243.4 | 18.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0000971 | 0 | 0.70780E-07 | 378561.5 | 3747243.4 | 18.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0000972 | 0 | 0.70780E-07 | 378565.2 | 3747243.4 | 18.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0000973 | 0 | 0.70780E-07 | 378568.8 | 3747243.4 | 18.6 | 0.00 | 1.70 | 0.85 | YES | |
| L0000974 | 0 | 0.70780E-07 | 378572.5 | 3747243.4 | 18.6 | 0.00 | 1.70 | 0.85 | YES | |
| L0000975 | 0 | 0.70780E-07 | 378576.1 | 3747243.4 | 18.6 | 0.00 | 1.70 | 0.85 | YES | |
| L0000976 | 0 | 0.70780E-07 | 378579.8 | 3747243.5 | 18.6 | 0.00 | 1.70 | 0.85 | YES | |
| L0000977 | 0 | 0.70780E-07 | 378583.5 | 3747243.5 | 18.6 | 0.00 | 1.70 | 0.85 | YES | |
| L0000978 | 0 | 0.70780E-07 | 378587.1 | 3747243.5 | 18.6 | 0.00 | 1.70 | 0.85 | YES | |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| L0000979 | 0 | 0.70780E-07 | 378590.8 | 3747243.5 | 18.6 | 0.00 | 1.70 | 0.85 | YES | |
| L0000980 | 0 | 0.70780E-07 | 378594.4 | 3747243.5 | 18.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0000981 | 0 | 0.70780E-07 | 378598.1 | 3747243.5 | 18.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0000982 | 0 | 0.70780E-07 | 378601.7 | 3747243.5 | 18.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0000983 | 0 | 0.70780E-07 | 378605.4 | 3747243.6 | 18.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0000984 | 0 | 0.70780E-07 | 378609.1 | 3747243.6 | 18.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0000985 | 0 | 0.70780E-07 | 378612.7 | 3747243.6 | 18.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0000986 | 0 | 0.70780E-07 | 378616.4 | 3747243.6 | 18.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0000987 | 0 | 0.70780E-07 | 378620.0 | 3747243.6 | 18.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0000988 | 0 | 0.70780E-07 | 378623.7 | 3747243.6 | 18.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0000989 | 0 | 0.70780E-07 | 378627.3 | 3747243.6 | 18.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0000990 | 0 | 0.70780E-07 | 378631.0 | 3747243.7 | 18.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0000991 | 0 | 0.70780E-07 | 378634.7 | 3747243.7 | 18.7 | 0.00 | 1.70 | 0.85 | YES | |



*** 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| L0000992 | 0 | 0.70780E-07 | 378638.3 | 3747243.7 | 18.6 | 0.00 | 1.70 | 0.85 | YES | |
| L0000993 | 0 | 0.70780E-07 | 378642.0 | 3747243.7 | 18.6 | 0.00 | 1.70 | 0.85 | YES | |
| L0000994 | 0 | 0.70780E-07 | 378645.6 | 3747243.7 | 18.6 | 0.00 | 1.70 | 0.85 | YES | |
| L0000995 | 0 | 0.70780E-07 | 378649.3 | 3747243.7 | 18.6 | 0.00 | 1.70 | 0.85 | YES | |
| L0000996 | 0 | 0.70780E-07 | 378653.0 | 3747243.7 | 18.5 | 0.00 | 1.70 | 0.85 | YES | |
| L0000997 | 0 | 0.70780E-07 | 378656.6 | 3747243.8 | 18.5 | 0.00 | 1.70 | 0.85 | YES | |
| L0000998 | 0 | 0.70780E-07 | 378660.3 | 3747243.8 | 18.5 | 0.00 | 1.70 | 0.85 | YES | |
| L0000999 | 0 | 0.70780E-07 | 378663.9 | 3747243.8 | 18.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0001000 | 0 | 0.70780E-07 | 378667.6 | 3747243.8 | 18.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0001001 | 0 | 0.70780E-07 | 378671.2 | 3747243.8 | 18.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0001002 | 0 | 0.70780E-07 | 378674.9 | 3747243.8 | 18.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0001003 | 0 | 0.70780E-07 | 378678.6 | 3747243.8 | 18.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0001004 | 0 | 0.70780E-07 | 378682.2 | 3747243.8 | 18.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0001005 | 0 | 0.70780E-07 | 378685.9 | 3747243.9 | 18.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0001006 | 0 | 0.70780E-07 | 378689.5 | 3747243.9 | 18.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0001007 | 0 | 0.70780E-07 | 378693.2 | 3747243.9 | 18.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0001008 | 0 | 0.70780E-07 | 378696.8 | 3747243.9 | 18.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0001009 | 0 | 0.70780E-07 | 378700.5 | 3747243.9 | 18.4 | 0.00 | 1.70 | 0.85 | YES | |

*** SOURCE IDs DEFINING SOURCE GROUPS ***

| SRCGROUP ID | SOURCE IDs |
|---|---|
| ALL | STCK1 , STCK2 , STCK3 , STCK4 , STCK5 , STCK6 , L0000001 , L0000002 , |
| | L0000003 , L0000004 , L0000005 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , |
| | L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , |
| | L0000019 , L0000020 , L0000021 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , |
| | L0000027 , L0000028 , L0000029 , L0000030 , L0000031 , L0000032 , L0000033 , L0000034 , |
| | L0000035 , L0000036 , L0000037 , L0000038 , L0000039 , L0000040 , L0000041 , L0000042 , |
| | L0000043 , L0000044 , L0000045 , L0000046 , L0000047 , L0000048 , L0000049 , L0000050 , |
| | L0000051 , L0000052 , L0000053 , L0000054 , L0000055 , L0000056 , L0000057 , L0000058 , |
| | L0000059 , L0000060 , L0000061 , L0000062 , L0000063 , L0000064 , L0000065 , L0000066 , |
| | L0000067 , L0000068 , L0000069 , L0000070 , L0000071 , L0000072 , L0000073 , L0000074 , |
| | L0000075 , L0000076 , L0000077 , L0000078 , L0000079 , L0000121 , L0000122 , L0000123 , |
| | L0000124 , L0000125 , L0000126 , L0000127 , L0000128 , L0000129 , L0000130 , L0000131 , |
| | L0000132 , L0000133 , L0000134 , L0000135 , L0000136 , L0000137 , L0000138 , L0000139 , |
| | L0000140 , L0000141 , L0000142 , L0000143 , L0000144 , L0000145 , L0000146 , L0000147 , |
| | L0000148 , L0000149 , L0000150 , L0000151 , L0000152 , L0000153 , L0000154 , L0000155 , |
| | L0000156 , L0000157 , L0000158 , L0000159 , L0000160 , 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 , |



*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

| SRCGROUP ID | SOURCE IDs |
|---|---|
| | 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 , |
| | L0000514 , L0000515 , L0000516 , L0000517 , L0000518 , L0000519 , L0000520 , L0000521 , |
| | L0000522 , L0000523 , L0000524 , L0000525 , L0000526 , L0000527 , L0000528 , L0000529 , |
| | L0000530 , L0000531 , L0000532 , L0000533 , L0000534 , L0000535 , L0000536 , L0000537 , |
| | L0000538 , L0000539 , L0000540 , L0000541 , L0000542 , L0000543 , L0000544 , L0000545 , |
| | L0000546 , L0000547 , L0000548 , L0000549 , L0000550 , L0000551 , L0000552 , L0000553 , |
| | L0000554 , L0000555 , L0000556 , L0000557 , L0000558 , L0000559 , L0000560 , L0000561 , |
| | L0000562 , L0000563 , L0000564 , L0000565 , L0000566 , L0000567 , L0000568 , L0000569 , |
| | L0000570 , L0000571 , L0000572 , L0000573 , L0000574 , L0000575 , L0000576 , L0000577 , |
| | L0000578 , L0000579 , L0000580 , L0000581 , L0000582 , L0000583 , L0000584 , L0000585 , |

*** MODELOPTs:  RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

| SRCGROUP ID | SOURCE IDs |
|---|---|
| | L0000586 , L0000587 , L0000588 , L0000589 , L0000590 , L0000591 , L0000592 , L0000593 , |
| | L0000594 , L0000595 , L0000596 , L0000597 , L0000598 , L0000599 , L0000600 , L0000601 , |
| | L0000602 , L0000603 , L0000604 , L0000605 , L0000606 , L0000607 , L0000608 , L0000609 , |
| | L0000610 , L0000611 , L0000612 , L0000613 , L0000614 , L0000615 , L0000616 , L0000617 , |
| | L0000618 , L0000619 , L0000620 , L0000621 , L0000622 , L0000623 , L0000624 , L0000625 , |
| | L0000626 , L0000627 , L0000628 , L0000629 , L0000630 , L0000631 , L0000632 , L0000633 , |
| | L0000634 , L0000635 , L0000636 , L0000637 , L0000638 , L0000639 , L0000640 , L0000641 , |
| | L0000642 , L0000643 , L0000644 , L0000645 , L0000646 , L0000647 , L0000648 , L0000649 , |
| | L0000650 , L0000651 , L0000652 , L0000653 , L0000654 , L0000655 , L0000656 , L0000657 , |
| | L0000658 , L0000659 , L0000660 , L0000661 , L0000662 , L0000663 , L0000664 , L0000665 , |
| | L0000666 , L0000667 , L0000668 , L0000669 , L0000670 , L0000671 , L0000672 , L0000673 , |
| | L0000674 , L0000675 , L0000676 , L0000677 , L0000678 , L0000679 , L0000680 , L0000681 , |
| | L0000682 , L0000683 , L0000684 , L0000685 , L0000686 , L0000687 , L0000688 , L0000689 , |
| | L0000690 , L0000691 , L0000692 , L0000693 , L0000694 , L0000695 , L0000696 , L0000697 , |
| | L0000698 , L0000699 , L0000700 , L0000701 , L0000702 , L0000703 , L0000704 , L0000705 , |
| | L0000706 , L0000707 , L0000708 , L0000709 , L0000710 , L0000711 , L0000712 , L0000713 , |
| | L0000714 , L0000715 , L0000716 , L0000717 , L0000718 , L0000719 , L0000720 , L0000721 , |
| | L0000722 , L0000723 , L0000724 , L0000725 , L0000726 , L0000727 , L0000728 , L0000729 , |
| | L0000730 , L0000731 , L0000732 , L0000733 , L0000734 , L0000735 , L0000736 , L0000737 , |
| | L0000738 , L0000739 , L0000740 , L0000741 , L0000742 , L0000743 , L0000744 , L0000745 , |

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

| SRCGROUP ID | SOURCE IDs |
|---|---|
| | L0000746 , L0000747 , L0000748 , L0000749 , L0000750 , L0000751 , L0000752 , L0000753 , |
| | L0000754 , L0000755 , L0000756 , L0000757 , L0000758 , L0000759 , L0000760 , L0000761 , |
| | L0000762 , L0000763 , L0000764 , L0000765 , L0000766 , L0000767 , L0000768 , L0000769 , |
| | L0000770 , L0000771 , L0000772 , L0000773 , L0000774 , L0000775 , L0000776 , L0000777 , |
| | L0000778 , L0000779 , L0000780 , L0000781 , L0000782 , L0000783 , L0000784 , L0000785 , |
| | L0000786 , L0000787 , L0000788 , L0000789 , L0000790 , L0000791 , L0000792 , L0000793 , |
| | L0000794 , L0000795 , L0000796 , L0000797 , L0000798 , L0000799 , L0000800 , L0000801 , |
| | L0000802 , L0000803 , L0000804 , L0000805 , L0000806 , L0000807 , L0000808 , L0000809 , |
| | L0000810 , L0000811 , L0000812 , L0000813 , L0000814 , L0000815 , L0000816 , L0000817 , |
| | L0000818 , L0000819 , L0000820 , L0000821 , L0000822 , L0000823 , L0000824 , L0000825 , |
| | L0000826 , L0000827 , L0000828 , L0000829 , L0000830 , L0000831 , L0000832 , L0000833 , |
| | L0000834 , L0000835 , L0000836 , L0000837 , L0000838 , L0000839 , L0000840 , L0000841 , |
| | L0000842 , L0000843 , L0000844 , L0000845 , L0000846 , L0000847 , L0000848 , L0000849 , |
| | L0000850 , L0000851 , L0000852 , L0000853 , L0000854 , L0000855 , L0000856 , L0000857 , |
| | L0000858 , L0000859 , L0000860 , L0000861 , L0000862 , L0000863 , L0000864 , L0000865 , |
| | L0000866 , L0000867 , L0000868 , L0000869 , L0000870 , L0000871 , L0000872 , L0000873 , |
| | L0000874 , L0000875 , L0000876 , L0000877 , L0000878 , L0000879 , L0000880 , L0000881 , |
| | L0000882 , L0000883 , L0000884 , L0000885 , L0000886 , L0000887 , L0000888 , L0000889 , |
| | L0000890 , L0000891 , L0000892 , L0000893 , L0000894 , L0000895 , L0000896 , L0000897 , |
| | L0000898 , L0000899 , L0000900 , L0000901 , L0000902 , L0000903 , L0000904 , L0000905 , |

```
*** AERMET - VERSION  16216 ***   *** DPM concentrations                                                    ***        10:04:10
                                                                                                                        PAGE  26
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                        *** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID                                                SOURCE IDs
-----------                                                ----------

           L0000906    , L0000907    , L0000908    , L0000909    , L0000910    , L0000911    , L0000912    , L0000913    ,

           L0000914    , L0000915    , L0000916    , L0000917    , L0000918    , L0000919    , L0000920    , L0000921    ,

           L0000922    , L0000923    , L0000924    , L0000925    , L0000926    , L0000927    , L0000928    , L0000929    ,

           L0000930    , L0000931    , L0000932    , L0000933    , L0000934    , L0000935    , L0000936    , L0000937    ,

           L0000938    , L0000939    , L0000940    , L0000941    , L0000942    , L0000943    , L0000944    , L0000945    ,

           L0000946    , L0000947    , L0000948    , L0000949    , L0000950    , L0000951    , L0000952    , L0000953    ,

           L0000954    , L0000955    , L0000956    , L0000957    , L0000958    , L0000959    , L0000960    , L0000961    ,

           L0000962    , L0000963    , L0000964    , L0000965    , L0000966    , L0000967    , L0000968    , L0000969    ,

           L0000970    , L0000971    , L0000972    , L0000973    , L0000974    , L0000975    , L0000976    , L0000977    ,

           L0000978    , L0000979    , L0000980    , L0000981    , L0000982    , L0000983    , L0000984    , L0000985    ,

           L0000986    , L0000987    , L0000988    , L0000989    , L0000990    , L0000991    , L0000992    , L0000993    ,

           L0000994    , L0000995    , L0000996    , L0000997    , L0000998    , L0000999    , L0001000    , L0001001    ,

           L0001002    , L0001003    , L0001004    , L0001005    , L0001006    , L0001007    , L0001008    , L0001009    ,

*** AERMOD - VERSION  19191 ***   *** 190th St Warehouse 2022                                                ***        05/15/20
*** AERMET - VERSION  16216 ***   *** DPM concentrations                                                    ***        10:04:10
                                                                                                                        PAGE  27
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                        *** SOURCE IDs DEFINED AS URBAN SOURCES ***

 URBAN ID   URBAN POP                                      SOURCE IDs
 --------   ---------                                      ----------

            9818605.   STCK1       , STCK2       , STCK3       , STCK4       , STCK5       , STCK6       , L0000001    ,
L0000002    ,
```

```
           L0000003    , L0000004    , L0000005    , L0000006    , L0000007    , L0000008    , L0000009    , L0000010    ,
           L0000011    , L0000012    , L0000013    , L0000014    , L0000015    , L0000016    , L0000017    , L0000018    ,
           L0000019    , L0000020    , L0000021    , L0000022    , L0000023    , L0000024    , L0000025    , L0000026    ,
           L0000027    , L0000028    , L0000029    , L0000030    , L0000031    , L0000032    , L0000033    , L0000034    ,
           L0000035    , L0000036    , L0000037    , L0000038    , L0000039    , L0000040    , L0000041    , L0000042    ,
           L0000043    , L0000044    , L0000045    , L0000046    , L0000047    , L0000048    , L0000049    , L0000050    ,
           L0000051    , L0000052    , L0000053    , L0000054    , L0000055    , L0000056    , L0000057    , L0000058    ,
           L0000059    , L0000060    , L0000061    , L0000062    , L0000063    , L0000064    , L0000065    , L0000066    ,
           L0000067    , L0000068    , L0000069    , L0000070    , L0000071    , L0000072    , L0000073    , L0000074    ,
           L0000075    , L0000076    , L0000077    , L0000078    , L0000079    , L0000121    , L0000122    , L0000123    ,
           L0000124    , L0000125    , L0000126    , L0000127    , L0000128    , L0000129    , L0000130    , L0000131    ,
           L0000132    , L0000133    , L0000134    , L0000135    , L0000136    , L0000137    , L0000138    , L0000139    ,
           L0000140    , L0000141    , L0000142    , L0000143    , L0000144    , L0000145    , L0000146    , L0000147    ,
           L0000148    , L0000149    , L0000150    , L0000151    , L0000152    , L0000153    , L0000154    , L0000155    ,
           L0000156    , L0000157    , L0000158    , L0000159    , L0000160    , 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    ,
```



*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

| URBAN ID | URBAN POP | SOURCE IDs |
|---|---|---|

```
           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    ,
           L0000514    , L0000515    , L0000516    , L0000517    , L0000518    , L0000519    , L0000520    , L0000521    ,
           L0000522    , L0000523    , L0000524    , L0000525    , L0000526    , L0000527    , L0000528    , L0000529    ,
           L0000530    , L0000531    , L0000532    , L0000533    , L0000534    , L0000535    , L0000536    , L0000537    ,
           L0000538    , L0000539    , L0000540    , L0000541    , L0000542    , L0000543    , L0000544    , L0000545    ,
           L0000546    , L0000547    , L0000548    , L0000549    , L0000550    , L0000551    , L0000552    , L0000553    ,
           L0000554    , L0000555    , L0000556    , L0000557    , L0000558    , L0000559    , L0000560    , L0000561    ,
           L0000562    , L0000563    , L0000564    , L0000565    , L0000566    , L0000567    , L0000568    , L0000569    ,
           L0000570    , L0000571    , L0000572    , L0000573    , L0000574    , L0000575    , L0000576    , L0000577    ,
           L0000578    , L0000579    , L0000580    , L0000581    , L0000582    , L0000583    , L0000584    , L0000585    ,

*** AERMOD - VERSION  19191 ***   *** 190th St Warehouse 2022                                          ***        05/15/20
*** AERMET - VERSION  16216 ***   *** DPM concentrations                                               ***        10:04:10
                                                                                                                PAGE  29
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                  *** SOURCE IDs DEFINED AS URBAN SOURCES ***

 URBAN ID   URBAN POP                              SOURCE IDs
 --------   ---------                              ----------
```

```
            L0000586    , L0000587    , L0000588    , L0000589    , L0000590    , L0000591    , L0000592    , L0000593    ,
            L0000594    , L0000595    , L0000596    , L0000597    , L0000598    , L0000599    , L0000600    , L0000601    ,
            L0000602    , L0000603    , L0000604    , L0000605    , L0000606    , L0000607    , L0000608    , L0000609    ,
            L0000610    , L0000611    , L0000612    , L0000613    , L0000614    , L0000615    , L0000616    , L0000617    ,
            L0000618    , L0000619    , L0000620    , L0000621    , L0000622    , L0000623    , L0000624    , L0000625    ,
            L0000626    , L0000627    , L0000628    , L0000629    , L0000630    , L0000631    , L0000632    , L0000633    ,
            L0000634    , L0000635    , L0000636    , L0000637    , L0000638    , L0000639    , L0000640    , L0000641    ,
            L0000642    , L0000643    , L0000644    , L0000645    , L0000646    , L0000647    , L0000648    , L0000649    ,
            L0000650    , L0000651    , L0000652    , L0000653    , L0000654    , L0000655    , L0000656    , L0000657    ,
            L0000658    , L0000659    , L0000660    , L0000661    , L0000662    , L0000663    , L0000664    , L0000665    ,
            L0000666    , L0000667    , L0000668    , L0000669    , L0000670    , L0000671    , L0000672    , L0000673    ,
            L0000674    , L0000675    , L0000676    , L0000677    , L0000678    , L0000679    , L0000680    , L0000681    ,
            L0000682    , L0000683    , L0000684    , L0000685    , L0000686    , L0000687    , L0000688    , L0000689    ,
            L0000690    , L0000691    , L0000692    , L0000693    , L0000694    , L0000695    , L0000696    , L0000697    ,
            L0000698    , L0000699    , L0000700    , L0000701    , L0000702    , L0000703    , L0000704    , L0000705    ,
            L0000706    , L0000707    , L0000708    , L0000709    , L0000710    , L0000711    , L0000712    , L0000713    ,
            L0000714    , L0000715    , L0000716    , L0000717    , L0000718    , L0000719    , L0000720    , L0000721    ,
            L0000722    , L0000723    , L0000724    , L0000725    , L0000726    , L0000727    , L0000728    , L0000729    ,
            L0000730    , L0000731    , L0000732    , L0000733    , L0000734    , L0000735    , L0000736    , L0000737    ,
            L0000738    , L0000739    , L0000740    , L0000741    , L0000742    , L0000743    , L0000744    , L0000745    ,
```



*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

| URBAN ID | URBAN POP | SOURCE IDs |
|---|---|---|

L0000746 , L0000747 , L0000748 , L0000749 , L0000750 , L0000751 , L0000752 , L0000753 ,
L0000754 , L0000755 , L0000756 , L0000757 , L0000758 , L0000759 , L0000760 , L0000761 ,
L0000762 , L0000763 , L0000764 , L0000765 , L0000766 , L0000767 , L0000768 , L0000769 ,
L0000770 , L0000771 , L0000772 , L0000773 , L0000774 , L0000775 , L0000776 , L0000777 ,
L0000778 , L0000779 , L0000780 , L0000781 , L0000782 , L0000783 , L0000784 , L0000785 ,
L0000786 , L0000787 , L0000788 , L0000789 , L0000790 , L0000791 , L0000792 , L0000793 ,
L0000794 , L0000795 , L0000796 , L0000797 , L0000798 , L0000799 , L0000800 , L0000801 ,
L0000802 , L0000803 , L0000804 , L0000805 , L0000806 , L0000807 , L0000808 , L0000809 ,
L0000810 , L0000811 , L0000812 , L0000813 , L0000814 , L0000815 , L0000816 , L0000817 ,
L0000818 , L0000819 , L0000820 , L0000821 , L0000822 , L0000823 , L0000824 , L0000825 ,
L0000826 , L0000827 , L0000828 , L0000829 , L0000830 , L0000831 , L0000832 , L0000833 ,
L0000834 , L0000835 , L0000836 , L0000837 , L0000838 , L0000839 , L0000840 , L0000841 ,
L0000842 , L0000843 , L0000844 , L0000845 , L0000846 , L0000847 , L0000848 , L0000849 ,
L0000850 , L0000851 , L0000852 , L0000853 , L0000854 , L0000855 , L0000856 , L0000857 ,
L0000858 , L0000859 , L0000860 , L0000861 , L0000862 , L0000863 , L0000864 , L0000865 ,
L0000866 , L0000867 , L0000868 , L0000869 , L0000870 , L0000871 , L0000872 , L0000873 ,
L0000874 , L0000875 , L0000876 , L0000877 , L0000878 , L0000879 , L0000880 , L0000881 ,
L0000882 , L0000883 , L0000884 , L0000885 , L0000886 , L0000887 , L0000888 , L0000889 ,
L0000890 , L0000891 , L0000892 , L0000893 , L0000894 , L0000895 , L0000896 , L0000897 ,
L0000898 , L0000899 , L0000900 , L0000901 , L0000902 , L0000903 , L0000904 , L0000905 ,



*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID URBAN POP SOURCE IDs

```
 --------   ---------                                  ----------

            L0000906    , L0000907    , L0000908    , L0000909    , L0000910    , L0000911    , L0000912    , L0000913    ,
            L0000914    , L0000915    , L0000916    , L0000917    , L0000918    , L0000919    , L0000920    , L0000921    ,
            L0000922    , L0000923    , L0000924    , L0000925    , L0000926    , L0000927    , L0000928    , L0000929    ,
            L0000930    , L0000931    , L0000932    , L0000933    , L0000934    , L0000935    , L0000936    , L0000937    ,
            L0000938    , L0000939    , L0000940    , L0000941    , L0000942    , L0000943    , L0000944    , L0000945    ,
            L0000946    , L0000947    , L0000948    , L0000949    , L0000950    , L0000951    , L0000952    , L0000953    ,
            L0000954    , L0000955    , L0000956    , L0000957    , L0000958    , L0000959    , L0000960    , L0000961    ,
            L0000962    , L0000963    , L0000964    , L0000965    , L0000966    , L0000967    , L0000968    , L0000969    ,
            L0000970    , L0000971    , L0000972    , L0000973    , L0000974    , L0000975    , L0000976    , L0000977    ,
            L0000978    , L0000979    , L0000980    , L0000981    , L0000982    , L0000983    , L0000984    , L0000985    ,
            L0000986    , L0000987    , L0000988    , L0000989    , L0000990    , L0000991    , L0000992    , L0000993    ,
            L0000994    , L0000995    , L0000996    , L0000997    , L0000998    , L0000999    , L0001000    , L0001001    ,
            L0001002    , L0001003    , L0001004    , L0001005    , L0001006    , L0001007    , L0001008    , L0001009    ,
```



*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: STCK1

| IFV | BH | BW | BL | XADJ | YADJ | IFV | BH | BW | BL | XADJ | YADJ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 11.0, | 264.0, | 144.2, | -115.4, | -95.0, | 2 | 11.0, | 270.4, | 176.8, | -116.8, | -100.6, |
| 3 | 11.0, | 268.6, | 205.8, | -114.6, | -103.1, | 4 | 11.0, | 258.7, | 231.8, | -109.0, | -102.5, |
| 5 | 11.0, | 240.8, | 250.8, | -100.0, | -98.8, | 6 | 11.0, | 215.7, | 262.1, | -88.0, | -92.1, |
| 7 | 11.0, | 184.0, | 265.5, | -73.4, | -82.6, | 8 | 11.0, | 146.7, | 260.9, | -56.5, | -70.5, |
| 9 | 11.0, | 107.2, | 249.6, | -38.2, | -56.8, | 10 | 11.0, | 144.2, | 264.0, | -37.0, | -43.3, |
| 11 | 11.0, | 176.8, | 270.4, | -34.6, | -28.4, | 12 | 11.0, | 205.8, | 268.6, | -31.2, | -11.7, |
| 13 | 11.0, | 231.8, | 258.7, | -26.8, | 6.9, | 14 | 11.0, | 250.8, | 240.8, | -21.6, | 25.4, |
| 15 | 11.0, | 262.1, | 215.7, | -15.8, | 43.0, | 16 | 11.0, | 265.5, | 184.0, | -9.4, | 59.4, |
| 17 | 11.0, | 260.9, | 146.7, | -2.8, | 73.9, | 18 | 11.0, | 249.6, | 107.2, | 3.2, | 86.6, |
| 19 | 11.0, | 264.0, | 144.2, | -28.9, | 95.0, | 20 | 11.0, | 270.4, | 176.8, | -60.0, | 100.6, |
| 21 | 11.0, | 268.6, | 205.8, | -91.1, | 103.1, | 22 | 11.0, | 258.7, | 231.8, | -122.8, | 102.5, |
| 23 | 11.0, | 240.8, | 250.8, | -150.7, | 98.8, | 24 | 11.0, | 215.7, | 262.1, | -174.1, | 92.1, |

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 25 | 11.0, | 184.0, | 265.5, | -192.2, | 82.6, | 26 | 11.0, | 146.7, | 260.9, | -204.4, | 70.5, |
| 27 | 11.0, | 107.2, | 249.6, | -211.4, | 56.8, | 28 | 11.0, | 144.2, | 264.0, | -227.1, | 43.3, |
| 29 | 11.0, | 176.8, | 270.4, | -235.8, | 28.4, | 30 | 11.0, | 205.8, | 268.6, | -237.5, | 11.7, |
| 31 | 11.0, | 231.8, | 258.7, | -231.9, | -6.9, | 32 | 11.0, | 250.8, | 240.8, | -219.2, | -25.4, |
| 33 | 11.0, | 262.1, | 215.7, | -199.9, | -43.0, | 34 | 11.0, | 265.5, | 184.0, | -174.6, | -59.4, |
| 35 | 11.0, | 260.9, | 146.7, | -143.9, | -73.9, | 36 | 11.0, | 249.6, | 107.2, | -110.5, | -86.6, |

SOURCE ID: STCK2

| IFV | BH | BW | BL | XADJ | YADJ | IFV | BH | BW | BL | XADJ | YADJ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 11.0, | 264.0, | 144.2, | -121.7, | -64.8, | 2 | 11.0, | 270.4, | 176.8, | -128.2, | -72.0, |
| 3 | 11.0, | 268.6, | 205.8, | -130.9, | -76.9, | 4 | 11.0, | 258.7, | 231.8, | -129.6, | -79.5, |
| 5 | 11.0, | 240.8, | 250.8, | -124.3, | -79.7, | 6 | 11.0, | 215.7, | 262.1, | -115.3, | -77.5, |
| 7 | 11.0, | 184.0, | 265.5, | -102.7, | -72.9, | 8 | 11.0, | 146.7, | 260.9, | -87.1, | -66.1, |
| 9 | 11.0, | 107.2, | 249.6, | -69.1, | -57.8, | 10 | 11.0, | 144.2, | 264.0, | -67.2, | -49.6, |
| 11 | 11.0, | 176.8, | 270.4, | -63.3, | -39.8, | 12 | 11.0, | 205.8, | 268.6, | -57.4, | -28.0, |
| 13 | 11.0, | 231.8, | 258.7, | -49.8, | -13.7, | 14 | 11.0, | 250.8, | 240.8, | -40.7, | 1.1, |
| 15 | 11.0, | 262.1, | 215.7, | -30.4, | 15.8, | 16 | 11.0, | 265.5, | 184.0, | -19.1, | 30.0, |
| 17 | 11.0, | 260.9, | 146.7, | -7.2, | 43.4, | 18 | 11.0, | 249.6, | 107.2, | 4.2, | 55.7, |
| 19 | 11.0, | 264.0, | 144.2, | -22.5, | 64.8, | 20 | 11.0, | 270.4, | 176.8, | -48.6, | 72.0, |
| 21 | 11.0, | 268.6, | 205.8, | -74.9, | 76.9, | 22 | 11.0, | 258.7, | 231.8, | -102.2, | 79.5, |
| 23 | 11.0, | 240.8, | 250.8, | -126.5, | 79.7, | 24 | 11.0, | 215.7, | 262.1, | -146.9, | 77.5, |
| 25 | 11.0, | 184.0, | 265.5, | -162.8, | 72.9, | 26 | 11.0, | 146.7, | 260.9, | -173.8, | 66.1, |
| 27 | 11.0, | 107.2, | 249.6, | -180.5, | 57.8, | 28 | 11.0, | 144.2, | 264.0, | -196.8, | 49.6, |
| 29 | 11.0, | 176.8, | 270.4, | -207.2, | 39.8, | 30 | 11.0, | 205.8, | 268.6, | -211.2, | 28.0, |
| 31 | 11.0, | 231.8, | 258.7, | -208.8, | 13.7, | 32 | 11.0, | 250.8, | 240.8, | -200.1, | -1.1, |
| 33 | 11.0, | 262.1, | 215.7, | -185.3, | -15.8, | 34 | 11.0, | 265.5, | 184.0, | -164.9, | -30.0, |
| 35 | 11.0, | 260.9, | 146.7, | -139.5, | -43.4, | 36 | 11.0, | 249.6, | 107.2, | -111.4, | -55.7, |

SOURCE ID: STCK3

| IFV | BH | BW | BL | XADJ | YADJ | IFV | BH | BW | BL | XADJ | YADJ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 11.0, | 264.0, | 144.2, | -126.6, | -38.6, | 2 | 11.0, | 270.4, | 176.8, | -137.7, | -47.0, |
| 3 | 11.0, | 268.6, | 205.8, | -144.5, | -54.0, | 4 | 11.0, | 258.7, | 231.8, | -146.9, | -59.3, |
| 5 | 11.0, | 240.8, | 250.8, | -144.9, | -62.8, | 6 | 11.0, | 215.7, | 262.1, | -138.5, | -64.5, |
| 7 | 11.0, | 184.0, | 265.5, | -127.9, | -64.1, | 8 | 11.0, | 146.7, | 260.9, | -113.4, | -61.8, |
| 9 | 11.0, | 107.2, | 249.6, | -95.7, | -58.1, | 10 | 11.0, | 144.2, | 264.0, | -93.4, | -54.5, |
| 11 | 11.0, | 176.8, | 270.4, | -88.2, | -49.2, | 12 | 11.0, | 205.8, | 268.6, | -80.3, | -41.6, |
| 13 | 11.0, | 231.8, | 258.7, | -70.0, | -31.1, | 14 | 11.0, | 250.8, | 240.8, | -57.6, | -19.6, |
| 15 | 11.0, | 262.1, | 215.7, | -43.4, | -7.4, | 16 | 11.0, | 265.5, | 184.0, | -27.9, | 4.9, |
| 17 | 11.0, | 260.9, | 146.7, | -11.5, | 17.1, | 18 | 11.0, | 249.6, | 107.2, | 4.5, | 29.1, |
| 19 | 11.0, | 264.0, | 144.2, | -17.6, | 38.6, | 20 | 11.0, | 270.4, | 176.8, | -39.1, | 47.0, |
| 21 | 11.0, | 268.6, | 205.8, | -61.3, | 54.0, | 22 | 11.0, | 258.7, | 231.8, | -84.8, | 59.3, |
| 23 | 11.0, | 240.8, | 250.8, | -105.8, | 62.8, | 24 | 11.0, | 215.7, | 262.1, | -123.6, | 64.5, |
| 25 | 11.0, | 184.0, | 265.5, | -137.7, | 64.1, | 26 | 11.0, | 146.7, | 260.9, | -147.5, | 61.8, |
| 27 | 11.0, | 107.2, | 249.6, | -153.8, | 58.1, | 28 | 11.0, | 144.2, | 264.0, | -170.6, | 54.5, |
| 29 | 11.0, | 176.8, | 270.4, | -182.2, | 49.2, | 30 | 11.0, | 205.8, | 268.6, | -188.3, | 41.6, |
| 31 | 11.0, | 231.8, | 258.7, | -188.6, | 31.1, | 32 | 11.0, | 250.8, | 240.8, | -183.2, | 19.6, |
| 33 | 11.0, | 262.1, | 215.7, | -172.3, | 7.4, | 34 | 11.0, | 265.5, | 184.0, | -156.1, | -4.9, |
| 35 | 11.0, | 260.9, | 146.7, | -135.2, | -17.1, | 36 | 11.0, | 249.6, | 107.2, | -111.8, | -29.1, |

SOURCE ID: STCK4

| IFV | BH | BW | BL | XADJ | YADJ | IFV | BH | BW | BL | XADJ | YADJ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 11.0, | 264.0, | 144.2, | -132.0, | -8.2, | 2 | 11.0, | 270.4, | 176.8, | -148.2, | -18.0, |
| 3 | 11.0, | 268.6, | 205.8, | -159.9, | -27.2, | 4 | 11.0, | 258.7, | 231.8, | -166.8, | -35.7, |
| 5 | 11.0, | 240.8, | 250.8, | -168.6, | -43.0, | 6 | 11.0, | 215.7, | 262.1, | -165.2, | -49.0, |
| 7 | 11.0, | 184.0, | 265.5, | -156.9, | -53.5, | 8 | 11.0, | 146.7, | 260.9, | -143.8, | -56.5, |
| 9 | 11.0, | 107.2, | 249.6, | -126.6, | -58.1, | 10 | 11.0, | 144.2, | 264.0, | -123.8, | -59.9, |
| 11 | 11.0, | 176.8, | 270.4, | -117.2, | -59.8, | 12 | 11.0, | 205.8, | 268.6, | -107.0, | -57.0, |
| 13 | 11.0, | 231.8, | 258.7, | -93.7, | -50.9, | 14 | 11.0, | 250.8, | 240.8, | -77.4, | -43.2, |
| 15 | 11.0, | 262.1, | 215.7, | -58.8, | -34.2, | 16 | 11.0, | 265.5, | 184.0, | -38.4, | -24.1, |
| 17 | 11.0, | 260.9, | 146.7, | -16.9, | -13.3, | 18 | 11.0, | 249.6, | 107.2, | 4.5, | -1.8, |
| 19 | 11.0, | 264.0, | 144.2, | -12.2, | 8.2, | 20 | 11.0, | 270.4, | 176.8, | -28.6, | 18.0, |
| 21 | 11.0, | 268.6, | 205.8, | -45.8, | 27.2, | 22 | 11.0, | 258.7, | 231.8, | -65.0, | 35.7, |
| 23 | 11.0, | 240.8, | 250.8, | -82.2, | 43.0, | 24 | 11.0, | 215.7, | 262.1, | -96.9, | 49.0, |
| 25 | 11.0, | 184.0, | 265.5, | -108.6, | 53.5, | 26 | 11.0, | 146.7, | 260.9, | -117.1, | 56.5, |
| 27 | 11.0, | 107.2, | 249.6, | -123.0, | 58.1, | 28 | 11.0, | 144.2, | 264.0, | -140.2, | 59.9, |
| 29 | 11.0, | 176.8, | 270.4, | -153.2, | 59.8, | 30 | 11.0, | 205.8, | 268.6, | -161.6, | 57.0, |
| 31 | 11.0, | 231.8, | 258.7, | -165.0, | 50.9, | 32 | 11.0, | 250.8, | 240.8, | -163.4, | 43.2, |
| 33 | 11.0, | 262.1, | 215.7, | -156.9, | 34.2, | 34 | 11.0, | 265.5, | 184.0, | -145.6, | 24.1, |
| 35 | 11.0, | 260.9, | 146.7, | -129.8, | 13.3, | 36 | 11.0, | 249.6, | 107.2, | -111.8, | 1.8, |



*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: STCK5

| IFV | BH | BW | BL | XADJ | YADJ | IFV | BH | BW | BL | XADJ | YADJ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 11.0, | 264.0, | 144.2, | -137.0, | 19.9, | 2 | 11.0, | 270.4, | 176.8, | -158.0, | 8.9, |
| 3 | 11.0, | 268.6, | 205.8, | -174.2, | -2.5, | 4 | 11.0, | 258.7, | 231.8, | -185.2, | -13.8, |
| 5 | 11.0, | 240.8, | 250.8, | -190.5, | -24.6, | 6 | 11.0, | 215.7, | 262.1, | -190.0, | -34.7, |
| 7 | 11.0, | 184.0, | 265.5, | -183.8, | -43.8, | 8 | 11.0, | 146.7, | 260.9, | -171.9, | -51.5, |
| 9 | 11.0, | 107.2, | 249.6, | -155.2, | -58.1, | 10 | 11.0, | 144.2, | 264.0, | -151.9, | -64.8, |
| 11 | 11.0, | 176.8, | 270.4, | -144.1, | -69.6, | 12 | 11.0, | 205.8, | 268.6, | -131.8, | -71.3, |
| 13 | 11.0, | 231.8, | 258.7, | -115.6, | -69.3, | 14 | 11.0, | 250.8, | 240.8, | -95.8, | -65.1, |
| 15 | 11.0, | 262.1, | 215.7, | -73.1, | -58.9, | 16 | 11.0, | 265.5, | 184.0, | -48.2, | -51.0, |
| 17 | 11.0, | 260.9, | 146.7, | -21.9, | -41.5, | 18 | 11.0, | 249.6, | 107.2, | 4.5, | -30.4, |
| 19 | 11.0, | 264.0, | 144.2, | -7.2, | -19.9, | 20 | 11.0, | 270.4, | 176.8, | -18.8, | -8.9, |
| 21 | 11.0, | 268.6, | 205.8, | -31.5, | 2.5, | 22 | 11.0, | 258.7, | 231.8, | -46.6, | 13.8, |
| 23 | 11.0, | 240.8, | 250.8, | -60.3, | 24.6, | 24 | 11.0, | 215.7, | 262.1, | -72.1, | 34.7, |
| 25 | 11.0, | 184.0, | 265.5, | -81.8, | 43.8, | 26 | 11.0, | 146.7, | 260.9, | -88.9, | 51.5, |
| 27 | 11.0, | 107.2, | 249.6, | -94.4, | 58.1, | 28 | 11.0, | 144.2, | 264.0, | -112.1, | 64.8, |
| 29 | 11.0, | 176.8, | 270.4, | -126.3, | 69.6, | 30 | 11.0, | 205.8, | 268.6, | -136.8, | 71.3, |
| 31 | 11.0, | 231.8, | 258.7, | -143.1, | 69.3, | 32 | 11.0, | 250.8, | 240.8, | -145.0, | 65.1, |
| 33 | 11.0, | 262.1, | 215.7, | -142.6, | 58.9, | 34 | 11.0, | 265.5, | 184.0, | -135.8, | 51.0, |
| 35 | 11.0, | 260.9, | 146.7, | -124.8, | 41.5, | 36 | 11.0, | 249.6, | 107.2, | -111.8, | 30.4, |

SOURCE ID: STCK6

| IFV | BH | BW | BL | XADJ | YADJ | IFV | BH | BW | BL | XADJ | YADJ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 11.0, | 264.0, | 144.2, | -142.4, | 48.7, | 2 | 11.0, | 270.4, | 176.8, | -168.3, | 36.2, |
| 3 | 11.0, | 268.6, | 205.8, | -189.1, | 22.7, | 4 | 11.0, | 258.7, | 231.8, | -204.2, | 8.4, |
| 5 | 11.0, | 240.8, | 250.8, | -213.1, | -6.1, | 6 | 11.0, | 215.7, | 262.1, | -215.5, | -20.4, |
| 7 | 11.0, | 184.0, | 265.5, | -211.4, | -34.1, | 8 | 11.0, | 146.7, | 260.9, | -200.8, | -46.7, |
| 9 | 11.0, | 107.2, | 249.6, | -184.5, | -58.5, | 10 | 11.0, | 144.2, | 264.0, | -180.7, | -70.2, |
| 11 | 11.0, | 176.8, | 270.4, | -171.5, | -79.9, | 12 | 11.0, | 205.8, | 268.6, | -157.0, | -86.2, |
| 13 | 11.0, | 231.8, | 258.7, | -137.8, | -88.3, | 14 | 11.0, | 250.8, | 240.8, | -114.4, | -87.7, |
| 15 | 11.0, | 262.1, | 215.7, | -87.5, | -84.4, | 16 | 11.0, | 265.5, | 184.0, | -57.9, | -78.6, |
| 17 | 11.0, | 260.9, | 146.7, | -26.6, | -70.4, | 18 | 11.0, | 249.6, | 107.2, | 4.8, | -59.7, |
| 19 | 11.0, | 264.0, | 144.2, | -1.9, | -48.7, | 20 | 11.0, | 270.4, | 176.8, | -8.5, | -36.2, |
| 21 | 11.0, | 268.6, | 205.8, | -16.6, | -22.7, | 22 | 11.0, | 258.7, | 231.8, | -27.6, | -8.4, |
| 23 | 11.0, | 240.8, | 250.8, | -37.7, | 6.1, | 24 | 11.0, | 215.7, | 262.1, | -46.6, | 20.4, |
| 25 | 11.0, | 184.0, | 265.5, | -54.2, | 34.1, | 26 | 11.0, | 146.7, | 260.9, | -60.1, | 46.7, |
| 27 | 11.0, | 107.2, | 249.6, | -65.1, | 58.5, | 28 | 11.0, | 144.2, | 264.0, | -83.3, | 70.2, |
| 29 | 11.0, | 176.8, | 270.4, | -99.0, | 79.9, | 30 | 11.0, | 205.8, | 268.6, | -111.6, | 86.2, |
| 31 | 11.0, | 231.8, | 258.7, | -120.9, | 88.3, | 32 | 11.0, | 250.8, | 240.8, | -126.5, | 87.7, |
| 33 | 11.0, | 262.1, | 215.7, | -128.2, | 84.4, | 34 | 11.0, | 265.5, | 184.0, | -126.1, | 78.6, |
| 35 | 11.0, | 260.9, | 146.7, | -120.1, | 70.4, | 36 | 11.0, | 249.6, | 107.2, | -112.1, | 59.7, |



*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** GRIDDED RECEPTOR NETWORK SUMMARY ***

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

*** X-COORDINATES OF GRID ***
(METERS)

376999.0, 377086.3, 377173.6, 377260.9, 377348.2, 377435.5, 377522.8, 377610.1, 377697.4, 377784.7,
377872.0, 377959.3, 378046.6, 378133.9, 378221.2, 378308.5, 378395.8, 378483.1, 378570.4, 378657.7,
378745.0,

*** Y-COORDINATES OF GRID ***
(METERS)

3746986.6, 3747043.0, 3747099.4, 3747155.8, 3747212.2, 3747268.5, 3747324.9, 3747381.3, 3747437.7, 3747494.1,
3747550.4, 3747606.8, 3747663.2, 3747719.6, 3747776.0, 3747832.3, 3747888.7, 3747945.1, 3748001.5, 3748057.9,
3748114.2,



*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

* ELEVATION HEIGHTS IN METERS *

| Y-COORD (METERS) | X-COORD (METERS) 376998.97 | 377086.27 | 377173.57 | 377260.87 | 377348.17 | 377435.47 | 377522.77 | 377610.07 | 377697.37 |
|---|---|---|---|---|---|---|---|---|---|
| 3748114.24 | 18.30 | 18.50 | 19.10 | 19.90 | 20.30 | 20.10 | 19.80 | 19.60 | 19.40 |
| 3748057.86 | 25.50 | 18.60 | 18.90 | 19.10 | 19.50 | 19.60 | 19.70 | 19.70 | 19.60 |
| 3748001.48 | 19.20 | 25.90 | 25.00 | 19.80 | 20.00 | 20.80 | 20.10 | 19.90 | 20.10 |
| 3747945.10 | 18.10 | 19.60 | 25.20 | 26.60 | 23.40 | 22.60 | 20.00 | 20.10 | 20.10 |
| 3747888.72 | 18.30 | 18.60 | 21.80 | 20.80 | 23.70 | 25.60 | 21.70 | 19.80 | 19.80 |
| 3747832.34 | 18.40 | 18.70 | 20.00 | 20.80 | 20.80 | 20.60 | 23.60 | 23.50 | 19.90 |
| 3747775.96 | 18.40 | 18.70 | 19.50 | 21.00 | 20.70 | 19.90 | 19.90 | 19.80 | 22.80 |
| 3747719.58 | 18.60 | 19.10 | 19.80 | 20.70 | 20.80 | 20.50 | 20.30 | 19.90 | 19.20 |
| 3747663.20 | 18.50 | 18.80 | 19.20 | 20.20 | 20.50 | 20.70 | 19.80 | 19.70 | 19.20 |
| 3747606.82 | 18.50 | 18.70 | 19.10 | 19.40 | 20.00 | 20.40 | 19.70 | 19.60 | 19.30 |
| 3747550.44 | 18.40 | 18.50 | 18.60 | 18.50 | 19.80 | 20.20 | 19.70 | 19.70 | 19.60 |
| 3747494.06 | 18.40 | 18.40 | 18.30 | 18.20 | 19.90 | 20.20 | 19.60 | 19.80 | 19.80 |
| 3747437.68 | 18.70 | 18.60 | 18.40 | 18.50 | 19.20 | 19.90 | 19.90 | 20.00 | 19.80 |
| 3747381.30 | 18.90 | 18.50 | 18.20 | 18.60 | 19.00 | 19.60 | 20.40 | 20.20 | 19.60 |
| 3747324.92 | 19.30 | 18.60 | 18.00 | 18.30 | 18.90 | 19.30 | 20.40 | 19.70 | 19.60 |
| 3747268.54 | 18.90 | 18.50 | 18.00 | 17.80 | 18.50 | 19.30 | 19.60 | 19.50 | 19.20 |
| 3747212.16 | 19.20 | 19.10 | 18.40 | 18.20 | 19.50 | 20.00 | 20.00 | 19.20 | 18.50 |
| 3747155.78 | 19.50 | 19.50 | 19.60 | 19.70 | 22.00 | 21.80 | 21.10 | 21.90 | 19.80 |
| 3747099.40 | 18.90 | 18.80 | 19.90 | 20.20 | 21.90 | 21.80 | 21.40 | 21.90 | 21.30 |
| 3747043.02 | 18.60 | 18.40 | 20.30 | 20.10 | 20.70 | 20.70 | 20.90 | 20.80 | 21.30 |
| 3746986.64 | 19.40 | 18.30 | 20.10 | 19.90 | 13.80 | 13.50 | 20.90 | 20.60 | 20.70 |



*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

* ELEVATION HEIGHTS IN METERS *

| Y-COORD (METERS) | X-COORD (METERS) 377784.67 | 377871.97 | 377959.27 | 378046.57 | 378133.87 | 378221.17 | 378308.47 | 378395.77 | 378483.07 |
|---|---|---|---|---|---|---|---|---|---|
| 3748114.24 | 19.20 | 19.10 | 18.90 | 18.80 | 18.70 | 18.70 | 18.20 | 17.60 | 17.60 |
| 3748057.86 | 19.60 | 19.50 | 19.40 | 19.20 | 18.90 | 18.60 | 18.30 | 18.00 | 17.80 |
| 3748001.48 | 19.90 | 19.50 | 19.50 | 19.80 | 19.20 | 18.80 | 18.70 | 18.30 | 18.00 |
| 3747945.10 | 19.60 | 19.20 | 19.40 | 20.10 | 19.10 | 19.00 | 18.90 | 18.50 | 18.10 |
| 3747888.72 | 19.20 | 19.10 | 19.20 | 20.10 | 19.60 | 19.40 | 19.00 | 18.60 | 18.30 |
| 3747832.34 | 19.10 | 19.00 | 19.60 | 19.90 | 19.90 | 19.30 | 19.30 | 19.20 | 18.90 |
| 3747775.96 | 22.70 | 19.10 | 19.40 | 19.60 | 20.10 | 19.50 | 19.20 | 18.80 | 18.60 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 3747719.58 | 19.90 | 24.00 | 23.10 | 20.00 | 20.10 | 19.50 | 19.30 | 19.00 | 18.60 |
| 3747663.20 | 19.10 | 19.40 | 22.60 | 25.80 | 21.30 | 19.40 | 19.20 | 18.80 | 18.50 |
| 3747606.82 | 19.60 | 19.30 | 19.50 | 20.30 | 23.70 | 25.00 | 19.90 | 18.80 | 18.80 |
| 3747550.44 | 19.70 | 19.30 | 19.20 | 19.50 | 19.90 | 19.90 | 24.50 | 22.10 | 18.80 |
| 3747494.06 | 19.50 | 19.30 | 19.10 | 19.50 | 20.00 | 19.20 | 20.00 | 20.60 | 22.40 |
| 3747437.68 | 19.50 | 18.90 | 18.60 | 19.30 | 19.90 | 20.00 | 20.10 | 20.00 | 20.10 |
| 3747381.30 | 19.40 | 19.00 | 18.80 | 19.10 | 20.10 | 20.10 | 20.10 | 19.70 | 19.90 |
| 3747324.92 | 19.40 | 19.30 | 19.50 | 19.70 | 20.00 | 20.10 | 19.90 | 19.60 | 19.70 |
| 3747268.54 | 19.10 | 18.90 | 19.60 | 19.70 | 20.00 | 20.10 | 19.80 | 19.40 | 19.60 |
| 3747212.16 | 18.10 | 18.70 | 19.30 | 19.70 | 20.20 | 20.10 | 19.80 | 19.50 | 19.10 |
| 3747155.78 | 17.40 | 22.30 | 22.60 | 23.40 | 20.30 | 20.40 | 20.40 | 20.90 | 20.10 |
| 3747099.40 | 17.60 | 20.00 | 20.30 | 23.20 | 20.10 | 20.50 | 20.60 | 20.10 | 20.00 |
| 3747043.02 | 17.70 | 17.40 | 18.60 | 23.30 | 19.60 | 20.00 | 19.80 | 20.30 | 20.40 |
| 3746986.64 | 17.60 | 16.20 | 19.00 | 22.70 | 19.60 | 19.70 | 20.00 | 19.90 | 20.50 |



*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

* ELEVATION HEIGHTS IN METERS *

| Y-COORD (METERS) | X-COORD (METERS) 378570.37 | 378657.67 | 378744.97 |
|---|---|---|---|
| 3748114.24 | 16.40 | 16.00 | 16.70 |
| 3748057.86 | 17.10 | 17.30 | 17.10 |
| 3748001.48 | 17.70 | 17.20 | 17.20 |
| 3747945.10 | 17.60 | 17.40 | 17.40 |
| 3747888.72 | 18.10 | 17.40 | 17.50 |
| 3747832.34 | 17.90 | 17.50 | 17.40 |
| 3747775.96 | 17.90 | 17.60 | 17.30 |
| 3747719.58 | 18.00 | 17.70 | 17.50 |
| 3747663.20 | 18.10 | 17.70 | 17.80 |
| 3747606.82 | 18.20 | 17.80 | 17.90 |
| 3747550.44 | 18.20 | 18.00 | 17.90 |
| 3747494.06 | 19.90 | 18.50 | 18.30 |
| 3747437.68 | 21.40 | 22.40 | 20.70 |
| 3747381.30 | 20.10 | 21.00 | 22.10 |
| 3747324.92 | 19.80 | 19.20 | 18.50 |
| 3747268.54 | 19.20 | 19.00 | 18.70 |
| 3747212.16 | 18.80 | 18.60 | 18.40 |
| 3747155.78 | 19.20 | 19.40 | 19.10 |
| 3747099.40 | 18.90 | 19.30 | 19.00 |
| 3747043.02 | 19.20 | 19.20 | 18.60 |
| 3746986.64 | 20.00 | 20.00 | 18.90 |

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

* HILL HEIGHT SCALES IN METERS *

| Y-COORD (METERS) | X-COORD (METERS) 376998.97 | 377086.27 | 377173.57 | 377260.87 | 377348.17 | 377435.47 | 377522.77 | 377610.07 | 377697.37 |
|---|---|---|---|---|---|---|---|---|---|
| 3748114.24 | 25.50 | 18.50 | 19.10 | 19.90 | 20.30 | 20.10 | 19.80 | 19.60 | 19.40 |
| 3748057.86 | 25.50 | 26.00 | 26.20 | 19.10 | 19.50 | 19.60 | 19.70 | 19.70 | 19.60 |
| 3748001.48 | 25.70 | 25.90 | 26.20 | 26.60 | 20.00 | 20.80 | 20.10 | 19.90 | 20.10 |
| 3747945.10 | 25.50 | 26.20 | 25.20 | 26.60 | 26.50 | 22.60 | 20.00 | 20.10 | 20.10 |
| 3747888.72 | 18.30 | 24.40 | 21.80 | 26.60 | 26.50 | 25.60 | 24.80 | 19.80 | 19.80 |
| 3747832.34 | 18.40 | 18.70 | 20.00 | 20.80 | 20.80 | 25.50 | 23.60 | 23.50 | 19.90 |
| 3747775.96 | 18.40 | 18.70 | 19.50 | 21.00 | 20.70 | 19.90 | 19.90 | 23.50 | 22.80 |
| 3747719.58 | 18.60 | 19.10 | 19.80 | 20.70 | 20.80 | 20.50 | 20.30 | 19.90 | 19.20 |
| 3747663.20 | 18.50 | 18.80 | 19.20 | 20.20 | 20.50 | 20.70 | 19.80 | 19.70 | 19.20 |
| 3747606.82 | 18.50 | 18.70 | 19.10 | 19.40 | 20.00 | 20.40 | 19.70 | 19.60 | 19.30 |
| 3747550.44 | 18.40 | 18.50 | 18.60 | 18.50 | 19.80 | 20.20 | 19.70 | 19.70 | 19.60 |
| 3747494.06 | 18.40 | 18.40 | 18.30 | 18.20 | 19.90 | 20.20 | 19.60 | 19.80 | 19.80 |
| 3747437.68 | 18.70 | 18.60 | 18.40 | 18.50 | 19.20 | 19.90 | 19.90 | 20.00 | 19.80 |
| 3747381.30 | 18.90 | 18.50 | 18.20 | 18.60 | 19.00 | 19.60 | 20.40 | 20.20 | 19.60 |
| 3747324.92 | 19.30 | 18.60 | 18.00 | 18.30 | 18.90 | 19.30 | 20.40 | 19.70 | 19.60 |
| 3747268.54 | 18.90 | 18.50 | 18.00 | 17.80 | 18.50 | 19.30 | 19.60 | 19.50 | 19.20 |
| 3747212.16 | 19.20 | 19.10 | 18.40 | 18.20 | 19.50 | 20.00 | 20.00 | 19.20 | 18.50 |
| 3747155.78 | 19.50 | 19.50 | 19.60 | 19.70 | 22.00 | 21.80 | 21.10 | 21.90 | 19.80 |
| 3747099.40 | 18.90 | 18.80 | 19.90 | 20.20 | 21.90 | 21.80 | 21.40 | 21.90 | 21.30 |
| 3747043.02 | 18.60 | 18.40 | 20.30 | 20.10 | 20.70 | 20.70 | 20.90 | 20.80 | 21.30 |
| 3746986.64 | 19.40 | 18.30 | 20.10 | 19.90 | 20.60 | 21.70 | 20.90 | 20.60 | 20.70 |



*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

* HILL HEIGHT SCALES IN METERS *

| Y-COORD (METERS) | X-COORD (METERS) 377784.67 | 377871.97 | 377959.27 | 378046.57 | 378133.87 | 378221.17 | 378308.47 | 378395.77 | 378483.07 |
|---|---|---|---|---|---|---|---|---|---|
| 3748114.24 | 19.20 | 19.10 | 18.90 | 18.80 | 18.70 | 18.70 | 18.20 | 17.60 | 17.60 |
| 3748057.86 | 19.60 | 19.50 | 19.40 | 19.20 | 18.90 | 18.60 | 18.30 | 18.00 | 17.80 |
| 3748001.48 | 19.90 | 19.50 | 19.50 | 19.80 | 19.20 | 18.80 | 18.70 | 18.30 | 18.00 |
| 3747945.10 | 19.60 | 19.20 | 19.40 | 20.10 | 19.10 | 19.00 | 18.90 | 18.50 | 18.10 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 3747888.72 | 19.20 | 19.10 | 19.20 | 20.10 | 19.60 | 19.40 | 19.00 | 18.60 | 18.30 |
| 3747832.34 | 19.10 | 19.00 | 19.60 | 19.90 | 19.90 | 19.30 | 19.30 | 19.20 | 18.90 |
| 3747775.96 | 23.10 | 24.00 | 19.40 | 19.60 | 20.10 | 19.50 | 19.20 | 18.80 | 18.60 |
| 3747719.58 | 23.40 | 24.00 | 24.90 | 26.00 | 20.10 | 19.50 | 19.30 | 19.00 | 18.60 |
| 3747663.20 | 19.10 | 24.50 | 25.30 | 25.80 | 24.70 | 25.90 | 19.20 | 18.80 | 18.50 |
| 3747606.82 | 19.60 | 19.30 | 19.50 | 26.20 | 26.20 | 25.00 | 25.10 | 18.80 | 18.80 |
| 3747550.44 | 19.70 | 19.30 | 19.20 | 19.50 | 25.50 | 25.80 | 24.50 | 22.10 | 22.20 |
| 3747494.06 | 19.50 | 19.30 | 19.10 | 19.50 | 20.00 | 19.20 | 20.00 | 23.90 | 22.40 |
| 3747437.68 | 19.50 | 18.90 | 18.60 | 19.30 | 19.90 | 20.00 | 20.10 | 20.00 | 20.10 |
| 3747381.30 | 19.40 | 19.00 | 18.80 | 19.10 | 20.10 | 20.10 | 20.10 | 19.70 | 19.90 |
| 3747324.92 | 19.40 | 19.30 | 19.50 | 19.70 | 20.00 | 20.10 | 19.90 | 19.60 | 19.70 |
| 3747268.54 | 19.10 | 18.90 | 19.60 | 19.70 | 20.00 | 20.10 | 19.80 | 19.40 | 19.60 |
| 3747212.16 | 18.10 | 24.50 | 19.30 | 22.80 | 20.20 | 20.10 | 19.80 | 19.50 | 19.10 |
| 3747155.78 | 24.30 | 24.50 | 22.60 | 23.40 | 20.30 | 20.40 | 20.40 | 20.90 | 20.10 |
| 3747099.40 | 24.30 | 24.30 | 20.30 | 23.20 | 20.10 | 20.50 | 20.60 | 20.10 | 20.00 |
| 3747043.02 | 24.30 | 17.40 | 18.60 | 23.30 | 19.60 | 20.00 | 19.80 | 20.30 | 20.40 |
| 3746986.64 | 22.90 | 21.40 | 19.00 | 22.70 | 19.60 | 19.70 | 20.00 | 19.90 | 20.50 |



*** MODELOPTs:  RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

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

* HILL HEIGHT SCALES IN METERS *

| Y-COORD (METERS) | X-COORD (METERS) 378570.37 | 378657.67 | 378744.97 |
|---|---|---|---|
| 3748114.24 | 16.40 | 16.00 | 16.70 |
| 3748057.86 | 17.10 | 17.30 | 17.10 |
| 3748001.48 | 17.70 | 17.20 | 17.20 |
| 3747945.10 | 17.60 | 17.40 | 17.40 |
| 3747888.72 | 18.10 | 17.40 | 17.50 |
| 3747832.34 | 17.90 | 17.50 | 17.40 |
| 3747775.96 | 17.90 | 17.60 | 17.30 |
| 3747719.58 | 18.00 | 17.70 | 17.50 |
| 3747663.20 | 18.10 | 17.70 | 17.80 |
| 3747606.82 | 18.20 | 17.80 | 17.90 |
| 3747550.44 | 18.20 | 18.00 | 17.90 |
| 3747494.06 | 19.90 | 18.50 | 18.30 |
| 3747437.68 | 21.40 | 22.40 | 23.30 |
| 3747381.30 | 20.10 | 21.00 | 24.00 |
| 3747324.92 | 19.80 | 19.20 | 18.50 |
| 3747268.54 | 19.20 | 19.00 | 18.70 |
| 3747212.16 | 18.80 | 18.60 | 18.40 |
| 3747155.78 | 19.20 | 19.40 | 19.10 |
| 3747099.40 | 18.90 | 19.30 | 19.00 |
| 3747043.02 | 19.20 | 19.20 | 18.60 |

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

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| ( 377146.6, 3747291.4, | 18.2, | 18.2, | 0.0); | ( 377230.5, 3747442.5, | 18.1, | 18.1, | 0.0); |
| ( 377253.4, 3747498.1, | 18.2, | 18.2, | 0.0); | ( 377259.3, 3747543.7, | 18.5, | 18.5, | 0.0); |
| ( 377259.3, 3747621.9, | 19.6, | 19.6, | 0.0); | ( 377260.6, 3747704.7, | 20.6, | 20.6, | 0.0); |
| ( 378132.2, 3747267.4, | 20.0, | 20.0, | 0.0); | ( 378294.5, 3747265.7, | 19.8, | 19.8, | 0.0); |



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

| SOURCE ID | - - RECEPTOR LOCATION - - XR (METERS) | YR (METERS) | DISTANCE (METERS) |
|---|---|---|---|
| L0000132 | 377610.1 | 3747381.3 | -0.57 |
| L0000133 | 377610.1 | 3747381.3 | 0.97 |
| L0000147 | 377610.1 | 3747324.9 | -0.25 |
| L0000148 | 377610.1 | 3747324.9 | -0.14 |
| L0000162 | 377610.1 | 3747268.5 | 0.62 |
| L0000163 | 377610.1 | 3747268.5 | -0.84 |
| L0000521 | 377173.6 | 3747268.5 | 0.15 |
| L0000522 | 377173.6 | 3747268.5 | -0.75 |
| L0000574 | 377260.9 | 3747437.7 | 0.40 |



*** 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
```

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,



*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

Surface file: E:\New MET data\KHHR_V9_ADJU\KHHR_v9.SFC Met Version: 16216
Profile file: E:\New MET data\KHHR_V9_ADJU\KHHR_v9.PFL
Surface format: FREE
Profile format: FREE
Surface station no.: 3167 Upper air station no.: 3190
Name: UNKNOWN Name: UNKNOWN
Year: 2012 Year: 2012

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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12 | 01 | 01 | 1 | 01 | -999.0 | -9.000 | -9.000 | -9.000 | -999. | -999. | -99999.0 | 0.24 | 2.79 | 1.00 | 0.00 | 0. | 7.9 | 283.8 | 2.0 |
| 12 | 01 | 01 | 1 | 02 | -2.1 | 0.068 | -9.000 | -9.000 | -999. | 43. | 13.3 | 0.24 | 2.79 | 1.00 | 0.53 | 305. | 7.9 | 283.1 | 2.0 |
| 12 | 01 | 01 | 1 | 03 | -9.0 | 0.127 | -9.000 | -9.000 | -999. | 109. | 20.8 | 0.24 | 2.79 | 1.00 | 1.18 | 323. | 7.9 | 282.5 | 2.0 |
| 12 | 01 | 01 | 1 | 04 | -2.2 | 0.068 | -9.000 | -9.000 | -999. | 43. | 13.3 | 0.24 | 2.79 | 1.00 | 0.53 | 296. | 7.9 | 282.0 | 2.0 |
| 12 | 01 | 01 | 1 | 05 | -999.0 | -9.000 | -9.000 | -9.000 | -999. | -999. | -99999.0 | 0.24 | 2.79 | 1.00 | 0.00 | 0. | 7.9 | 281.4 | 2.0 |
| 12 | 01 | 01 | 1 | 06 | -6.0 | 0.103 | -9.000 | -9.000 | -999. | 80. | 16.7 | 0.24 | 2.79 | 1.00 | 0.97 | 321. | 7.9 | 281.4 | 2.0 |
| 12 | 01 | 01 | 1 | 07 | -4.3 | 0.088 | -9.000 | -9.000 | -999. | 63. | 14.4 | 0.24 | 2.79 | 1.00 | 0.82 | 313. | 7.9 | 280.4 | 2.0 |
| 12 | 01 | 01 | 1 | 08 | 15.7 | -9.000 | -9.000 | -9.000 | -999. | -999. | -99999.0 | 0.24 | 2.79 | 0.55 | 0.00 | 0. | 7.9 | 281.4 | 2.0 |
| 12 | 01 | 01 | 1 | 09 | 35.7 | 0.115 | 0.353 | 0.013 | 45. | 93. | -3.8 | 0.24 | 2.79 | 0.32 | 0.63 | 179. | 7.9 | 285.4 | 2.0 |
| 12 | 01 | 01 | 1 | 10 | 109.0 | 0.141 | 0.727 | 0.009 | 128. | 127. | -2.3 | 0.24 | 2.79 | 0.24 | 0.70 | 170. | 7.9 | 289.2 | 2.0 |
| 12 | 01 | 01 | 1 | 11 | 164.4 | 0.149 | 1.186 | 0.005 | 370. | 138. | -1.8 | 0.24 | 2.79 | 0.21 | 0.70 | 222. | 7.9 | 297.0 | 2.0 |
| 12 | 01 | 01 | 1 | 12 | 191.7 | 0.163 | 1.525 | 0.005 | 672. | 158. | -2.1 | 0.24 | 2.79 | 0.20 | 0.79 | 12. | 7.9 | 299.9 | 2.0 |
| 12 | 01 | 01 | 1 | 13 | 191.3 | 0.170 | 1.819 | 0.005 | 1144. | 168. | -2.3 | 0.24 | 2.79 | 0.20 | 0.84 | 260. | 7.9 | 300.9 | 2.0 |
| 12 | 01 | 01 | 1 | 14 | 161.6 | 0.344 | 1.852 | 0.005 | 1428. | 483. | -22.7 | 0.24 | 2.79 | 0.21 | 2.49 | 260. | 7.9 | 298.8 | 2.0 |
| 12 | 01 | 01 | 1 | 15 | 105.0 | 0.367 | 1.638 | 0.005 | 1521. | 534. | -42.8 | 0.24 | 2.79 | 0.24 | 2.84 | 292. | 7.9 | 293.8 | 2.0 |
| 12 | 01 | 01 | 1 | 16 | 29.7 | 0.383 | 1.079 | 0.005 | 1539. | 570. | -172.5 | 0.24 | 2.79 | 0.33 | 3.22 | 276. | 7.9 | 290.4 | 2.0 |
| 12 | 01 | 01 | 1 | 17 | -24.8 | 0.287 | -9.000 | -9.000 | -999. | 374. | 90.3 | 0.24 | 2.79 | 0.59 | 2.52 | 284. | 7.9 | 289.2 | 2.0 |
| 12 | 01 | 01 | 1 | 18 | -26.7 | 0.269 | -9.000 | -9.000 | -999. | 336. | 79.8 | 0.24 | 2.79 | 1.00 | 2.38 | 285. | 7.9 | 287.5 | 2.0 |
| 12 | 01 | 01 | 1 | 19 | -10.2 | 0.137 | -9.000 | -9.000 | -999. | 133. | 22.7 | 0.24 | 2.79 | 1.00 | 1.26 | 287. | 7.9 | 287.5 | 2.0 |

```
12 01 01   1 20   -6.2  0.106 -9.000 -9.000 -999.   83.     17.2  0.24   2.79   1.00    0.99  303.    7.9  287.0    2.0
12 01 01   1 21   -7.6  0.117 -9.000 -9.000 -999.   96.     19.1  0.24   2.79   1.00    1.09  326.    7.9  286.4    2.0
12 01 01   1 22   -6.8  0.110 -9.000 -9.000 -999.   88.     18.0  0.24   2.79   1.00    1.03  297.    7.9  285.9    2.0
12 01 01   1 23  -19.9  0.200 -9.000 -9.000 -999.  214.     43.9  0.24   2.79   1.00    1.79  290.    7.9  285.9    2.0
12 01 01   1 24  -19.6  0.196 -9.000 -9.000 -999.  209.     42.3  0.24   2.79   1.00    1.76  282.    7.9  285.9    2.0


First hour of profile data
YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
12 01 01 01    7.9 1 -999.  -99.00   283.8   99.0  -99.00  -99.00

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

*** AERMOD - VERSION  19191 ***   *** 190th St Warehouse 2022                                          ***        05/15/20
*** AERMET - VERSION  16216 ***   *** DPM concentrations                                               ***        10:04:10
                                                                                                                PAGE  45
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                          *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: ALL      ***
                              INCLUDING SOURCE(S):     STCK1       , STCK2       , STCK3       , STCK4       , STCK5       ,
               STCK6       , L0000001    , L0000002    , L0000003    , L0000004    , L0000005    , L0000006    , L0000007    ,
               L0000008    , L0000009    , L0000010    , L0000011    , L0000012    , L0000013    , L0000014    , L0000015    ,
               L0000016    , L0000017    , L0000018    , L0000019    , L0000020    , L0000021    , L0000022    ,  . . .      ,

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

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

   Y-COORD  |                                                X-COORD (METERS)
   (METERS) |    376998.97    377086.27    377173.57    377260.87    377348.17    377435.47    377522.77    377610.07    377697.37
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 3748114.24 |       0.00025      0.00027      0.00030      0.00031      0.00032      0.00032      0.00031      0.00030      0.00029
 3748057.86 |       0.00024      0.00031      0.00034      0.00037      0.00038      0.00037      0.00036      0.00035      0.00034
 3748001.48 |       0.00031      0.00031      0.00035      0.00044      0.00045      0.00043      0.00043      0.00041      0.00039
 3747945.10 |       0.00035      0.00042      0.00042      0.00046      0.00051      0.00049      0.00051      0.00049      0.00046
 3747888.72 |       0.00040      0.00049      0.00057      0.00077      0.00071      0.00057      0.00059      0.00059      0.00055
 3747832.34 |       0.00046      0.00057      0.00074      0.00136      0.00128      0.00085      0.00067      0.00064      0.00066
 3747775.96 |       0.00051      0.00066      0.00089      0.00176      0.00166      0.00106      0.00092      0.00086      0.00074
 3747719.58 |       0.00058      0.00075      0.00104      0.00199      0.00191      0.00127      0.00112      0.00106      0.00098
 3747663.20 |       0.00064      0.00085      0.00120      0.00224      0.00222      0.00155      0.00142      0.00134      0.00124
 3747606.82 |       0.00070      0.00095      0.00138      0.00253      0.00264      0.00202      0.00187      0.00177      0.00165
 3747550.44 |       0.00076      0.00105      0.00156      0.00288      0.00328      0.00283      0.00265      0.00252      0.00224
 3747494.06 |       0.00081      0.00114      0.00174      0.00349      0.00449      0.00451      0.00465      0.00395      0.00297
 3747437.68 |       0.00085      0.00122      0.00192      0.00619      0.00747      0.00804      0.00852      0.00786      0.00348
 3747381.30 |       0.00088      0.00128      0.00209      0.00401      0.00350      0.00671      0.00628      0.00860      0.00353
 3747324.92 |       0.00089      0.00132      0.00252      0.00345      0.00336      0.00553      0.00492      0.00667      0.00331
 3747268.54 |       0.00087      0.00132      0.00456      0.00352      0.00436      0.00483      0.00471      0.00698      0.00352
 3747212.16 |       0.00083      0.00122      0.00234      0.00312      0.00399      0.00451      0.00435      0.00368      0.00293
 3747155.78 |       0.00078      0.00108      0.00150      0.00195      0.00238      0.00290      0.00280      0.00225      0.00185
 3747099.40 |       0.00070      0.00093      0.00121      0.00153      0.00185      0.00215      0.00212      0.00179      0.00146
```

```
 3747043.02 |       0.00062      0.00080      0.00101      0.00127      0.00154      0.00176      0.00172      0.00151      0.00123
 3746986.64 |       0.00055      0.00069      0.00086      0.00107      0.00124      0.00139      0.00141      0.00126      0.00106

*** AERMOD - VERSION  19191 ***   *** 190th St Warehouse 2022                                                ***        05/15/20
*** AERMET - VERSION  16216 ***   *** DPM concentrations                                                     ***        10:04:10
                                                                                                                      PAGE  46
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                          *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: ALL      ***
                              INCLUDING SOURCE(S):     STCK1       , STCK2       , STCK3       , STCK4       , STCK5       ,
                STCK6       , L0000001    , L0000002    , L0000003    , L0000004    , L0000005    , L0000006    , L0000007    ,
                L0000008    , L0000009    , L0000010    , L0000011    , L0000012    , L0000013    , L0000014    , L0000015    ,
                L0000016    , L0000017    , L0000018    , L0000019    , L0000020    , L0000021    , L0000022    ,  . . .      ,

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

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

   Y-COORD  |                                          X-COORD (METERS)
   (METERS) |     377784.67    377871.97    377959.27    378046.57    378133.87    378221.17    378308.47    378395.77    378483.07
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 3748114.24 |       0.00028      0.00026      0.00025      0.00023      0.00021      0.00020      0.00019      0.00018      0.00016
 3748057.86 |       0.00032      0.00030      0.00028      0.00026      0.00024      0.00022      0.00020      0.00019      0.00018
 3748001.48 |       0.00037      0.00034      0.00032      0.00029      0.00027      0.00024      0.00022      0.00021      0.00019
 3747945.10 |       0.00043      0.00040      0.00036      0.00033      0.00030      0.00027      0.00025      0.00023      0.00021
 3747888.72 |       0.00051      0.00046      0.00042      0.00038      0.00034      0.00030      0.00027      0.00025      0.00022
 3747832.34 |       0.00060      0.00055      0.00049      0.00043      0.00038      0.00034      0.00030      0.00027      0.00024
 3747775.96 |       0.00070      0.00065      0.00058      0.00050      0.00044      0.00038      0.00033      0.00029      0.00026
 3747719.58 |       0.00090      0.00077      0.00069      0.00059      0.00050      0.00042      0.00036      0.00032      0.00028
 3747663.20 |       0.00113      0.00098      0.00082      0.00069      0.00056      0.00046      0.00039      0.00034      0.00030
 3747606.82 |       0.00145      0.00120      0.00096      0.00076      0.00063      0.00053      0.00043      0.00037      0.00032
 3747550.44 |       0.00183      0.00140      0.00107      0.00083      0.00066      0.00054      0.00049      0.00041      0.00035
 3747494.06 |       0.00212      0.00153      0.00115      0.00089      0.00071      0.00059      0.00050      0.00044      0.00040
 3747437.68 |       0.00227      0.00162      0.00122      0.00096      0.00078      0.00065      0.00056      0.00049      0.00043
 3747381.30 |       0.00234      0.00172      0.00132      0.00106      0.00087      0.00074      0.00065      0.00058      0.00052
 3747324.92 |       0.00241      0.00188      0.00152      0.00126      0.00108      0.00095      0.00086      0.00079      0.00073
 3747268.54 |       0.00297      0.00263      0.00236      0.00215      0.00199      0.00188      0.00180      0.00175      0.00171
 3747212.16 |       0.00254      0.00229      0.00208      0.00188      0.00173      0.00161      0.00151      0.00144      0.00137
 3747155.78 |       0.00151      0.00128      0.00113      0.00101      0.00090      0.00081      0.00074      0.00068      0.00063
 3747099.40 |       0.00120      0.00101      0.00086      0.00075      0.00067      0.00059      0.00053      0.00048      0.00044
 3747043.02 |       0.00102      0.00083      0.00070      0.00060      0.00053      0.00047      0.00043      0.00039      0.00035
 3746986.64 |       0.00087      0.00071      0.00060      0.00051      0.00045      0.00040      0.00036      0.00032      0.00029

*** AERMOD - VERSION  19191 ***   *** 190th St Warehouse 2022                                                ***        05/15/20
*** AERMET - VERSION  16216 ***   *** DPM concentrations                                                     ***        10:04:10
                                                                                                                      PAGE  47
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                          *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: ALL      ***
                              INCLUDING SOURCE(S):     STCK1       , STCK2       , STCK3       , STCK4       , STCK5       ,
```

```
                STCK6       , L0000001    , L0000002    , L0000003    , L0000004    , L0000005    , L0000006    , L0000007    ,
                L0000008    , L0000009    , L0000010    , L0000011    , L0000012    , L0000013    , L0000014    , L0000015    ,
                L0000016    , L0000017    , L0000018    , L0000019    , L0000020    , L0000021    , L0000022    ,  . . .      ,

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

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

   Y-COORD  |                                              X-COORD (METERS)
   (METERS) |     378570.37    378657.67    378744.97
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 3748114.24 |       0.00015      0.00014      0.00014
 3748057.86 |       0.00017      0.00015      0.00014
 3748001.48 |       0.00018      0.00017      0.00015
 3747945.10 |       0.00019      0.00018      0.00016
 3747888.72 |       0.00020      0.00019      0.00017
 3747832.34 |       0.00022      0.00020      0.00018
 3747775.96 |       0.00023      0.00021      0.00019
 3747719.58 |       0.00025      0.00022      0.00020
 3747663.20 |       0.00027      0.00024      0.00021
 3747606.82 |       0.00028      0.00025      0.00022
 3747550.44 |       0.00031      0.00027      0.00024
 3747494.06 |       0.00034      0.00029      0.00026
 3747437.68 |       0.00039      0.00035      0.00029
 3747381.30 |       0.00047      0.00040      0.00033
 3747324.92 |       0.00067      0.00056      0.00040
 3747268.54 |       0.00166      0.00149      0.00055
 3747212.16 |       0.00129      0.00112      0.00047
 3747155.78 |       0.00057      0.00047      0.00033
 3747099.40 |       0.00039      0.00034      0.00027
 3747043.02 |       0.00031      0.00027      0.00023
 3746986.64 |       0.00026      0.00023      0.00020

*** AERMOD - VERSION  19191 ***   *** 190th St Warehouse 2022                                          ***        05/15/20
*** AERMET - VERSION  16216 ***   *** DPM concentrations                                               ***        10:04:10
                                                                                                                PAGE  48
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                            *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: ALL      ***
                                INCLUDING SOURCE(S):     STCK1       , STCK2       , STCK3       , STCK4       , STCK5       ,
                STCK6       , L0000001    , L0000002    , L0000003    , L0000004    , L0000005    , L0000006    , L0000007    ,
                L0000008    , L0000009    , L0000010    , L0000011    , L0000012    , L0000013    , L0000014    , L0000015    ,
                L0000016    , L0000017    , L0000018    , L0000019    , L0000020    , L0000021    , L0000022    ,  . . .      ,
```

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

| X-COORD (M) | Y-COORD (M) | CONC | X-COORD (M) | Y-COORD (M) | CONC |
|---|---|---|---|---|---|
| 377146.65 | 3747291.37 | 0.00213 | 377230.47 | 3747442.55 | 0.00300 |
| 377253.39 | 3747498.09 | 0.00313 | 377259.26 | 3747543.71 | 0.00288 |
| 377259.26 | 3747621.90 | 0.00240 | 377260.56 | 3747704.66 | 0.00204 |
| 378132.19 | 3747267.37 | 0.00205 | 378294.52 | 3747265.66 | 0.00197 |



*** THE SUMMARY OF MAXIMUM PERIOD ( 43848 HRS) RESULTS ***

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

| GROUP ID | | AVERAGE CONC | RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG) | OF TYPE | NETWORK GRID-ID |
|---|---|---|---|---|---|
| ALL | 1ST HIGHEST VALUE IS | 0.00860 AT ( 377610.07, 3747381.30, 20.20, 20.20, 0.00) | GC | UCART1 |
| | 2ND HIGHEST VALUE IS | 0.00852 AT ( 377522.77, 3747437.68, 19.90, 19.90, 0.00) | GC | UCART1 |
| | 3RD HIGHEST VALUE IS | 0.00804 AT ( 377435.47, 3747437.68, 19.90, 19.90, 0.00) | GC | UCART1 |
| | 4TH HIGHEST VALUE IS | 0.00786 AT ( 377610.07, 3747437.68, 20.00, 20.00, 0.00) | GC | UCART1 |
| | 5TH HIGHEST VALUE IS | 0.00747 AT ( 377348.17, 3747437.68, 19.20, 19.20, 0.00) | GC | UCART1 |
| | 6TH HIGHEST VALUE IS | 0.00698 AT ( 377610.07, 3747268.54, 19.50, 19.50, 0.00) | GC | UCART1 |
| | 7TH HIGHEST VALUE IS | 0.00671 AT ( 377435.47, 3747381.30, 19.60, 19.60, 0.00) | GC | UCART1 |
| | 8TH HIGHEST VALUE IS | 0.00667 AT ( 377610.07, 3747324.92, 19.70, 19.70, 0.00) | GC | UCART1 |
| | 9TH HIGHEST VALUE IS | 0.00628 AT ( 377522.77, 3747381.30, 20.40, 20.40, 0.00) | GC | UCART1 |
| | 10TH HIGHEST VALUE IS | 0.00619 AT ( 377260.87, 3747437.68, 18.50, 18.50, 0.00) | GC | UCART1 |

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



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

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

```
A Total of            0 Fatal Error Message(s)
A Total of            8 Warning Message(s)
A Total of         1474 Informational Message(s)

A Total of        43848 Hours Were Processed

A Total of         1223 Calm Hours Identified

A Total of          251 Missing Hours Identified (  0.57 Percent)


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


   ********   WARNING MESSAGES   ********
SO W320     872        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320     873        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320     874        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320     875        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320     876        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320     877        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
ME W186    1862       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used          0.50
ME W187    1862       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

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

```
** Lakes Environmental AERMOD MPI
**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 9.9.0
** Lakes Environmental Software Inc.
** Date: 5/15/2020
** File: C:\Lakes\AERMOD View\190th Street Warehouse 2023-2024\190th Street Warehouse 2023-2024.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE 190th St Warehouse 2023-2024
   TITLETWO DPM concentrations 2YR Exposure
   MODELOPT DFAULT CONC
   AVERTIME PERIOD
   URBANOPT 9818605 Los_Angeles_County_Population
   POLLUTID DPM
   RUNORNOT RUN
   ERRORFIL "190th Street Warehouse 2023-2024.err"
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION STCK1        POINT      377375.140  3747396.430       19.240
** DESCRSRC Idling location
   LOCATION STCK2        POINT      377406.010  3747397.404       19.450
** DESCRSRC Idling location
   LOCATION STCK3        POINT      377432.659  3747397.729       19.590
** DESCRSRC Idling location
   LOCATION STCK4        POINT      377463.533  3747397.729       19.800
** DESCRSRC Idling location
   LOCATION STCK5        POINT      377492.132  3747397.729       20.080
** DESCRSRC Idling location
   LOCATION STCK6        POINT      377521.381  3747398.054       20.590
** DESCRSRC Idling location
** ------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
```

```
** LINE VOLUME Source ID = SLINE1
** DESCRSRC Onsite travel to driveway 3
** PREFIX
** Length of Side = 3.66
** Configuration = Adjacent
** Emission Rate = 3.22E-06
** Elevated
** Building Height = 10.97
** SZINIT = 5.10
** Nodes = 2
** 377309.543, 3747422.669, 18.82, 0.00, 1.70
** 377597.430, 3747424.019, 20.83, 0.00, 1.70
** ----------------------------------------------------------------------
   LOCATION L0001010     VOLUME   377311.371 3747422.678 18.96
   LOCATION L0001011     VOLUME   377315.029 3747422.695 18.99
   LOCATION L0001012     VOLUME   377318.687 3747422.712 19.02
   LOCATION L0001013     VOLUME   377322.344 3747422.729 19.03
   LOCATION L0001014     VOLUME   377326.002 3747422.746 19.04
   LOCATION L0001015     VOLUME   377329.659 3747422.763 19.06
   LOCATION L0001016     VOLUME   377333.317 3747422.781 19.07
   LOCATION L0001017     VOLUME   377336.974 3747422.798 19.08
   LOCATION L0001018     VOLUME   377340.632 3747422.815 19.09
   LOCATION L0001019     VOLUME   377344.289 3747422.832 19.10
   LOCATION L0001020     VOLUME   377347.947 3747422.849 19.13
   LOCATION L0001021     VOLUME   377351.605 3747422.866 19.17
   LOCATION L0001022     VOLUME   377355.262 3747422.883 19.20
   LOCATION L0001023     VOLUME   377358.920 3747422.901 19.23
   LOCATION L0001024     VOLUME   377362.577 3747422.918 19.26
   LOCATION L0001025     VOLUME   377366.235 3747422.935 19.30
   LOCATION L0001026     VOLUME   377369.892 3747422.952 19.33
   LOCATION L0001027     VOLUME   377373.550 3747422.969 19.35
   LOCATION L0001028     VOLUME   377377.208 3747422.986 19.38
   LOCATION L0001029     VOLUME   377380.865 3747423.003 19.40
   LOCATION L0001030     VOLUME   377384.523 3747423.021 19.42
   LOCATION L0001031     VOLUME   377388.180 3747423.038 19.45
   LOCATION L0001032     VOLUME   377391.838 3747423.055 19.47
   LOCATION L0001033     VOLUME   377395.495 3747423.072 19.50
   LOCATION L0001034     VOLUME   377399.153 3747423.089 19.52
   LOCATION L0001035     VOLUME   377402.810 3747423.106 19.55
   LOCATION L0001036     VOLUME   377406.468 3747423.123 19.57
   LOCATION L0001037     VOLUME   377410.126 3747423.141 19.59
   LOCATION L0001038     VOLUME   377413.783 3747423.158 19.62
   LOCATION L0001039     VOLUME   377417.441 3747423.175 19.64
   LOCATION L0001040     VOLUME   377421.098 3747423.192 19.67
   LOCATION L0001041     VOLUME   377424.756 3747423.209 19.70
   LOCATION L0001042     VOLUME   377428.413 3747423.226 19.72
   LOCATION L0001043     VOLUME   377432.071 3747423.243 19.75
   LOCATION L0001044     VOLUME   377435.728 3747423.261 19.78
   LOCATION L0001045     VOLUME   377439.386 3747423.278 19.80
   LOCATION L0001046     VOLUME   377443.044 3747423.295 19.83
   LOCATION L0001047     VOLUME   377446.701 3747423.312 19.86
```

```
   LOCATION L0001048     VOLUME   377450.359 3747423.329 19.88
   LOCATION L0001049     VOLUME   377454.016 3747423.346 19.90
   LOCATION L0001050     VOLUME   377457.674 3747423.363 19.92
   LOCATION L0001051     VOLUME   377461.331 3747423.381 19.94
   LOCATION L0001052     VOLUME   377464.989 3747423.398 19.96
   LOCATION L0001053     VOLUME   377468.647 3747423.415 19.98
   LOCATION L0001054     VOLUME   377472.304 3747423.432 20.00
   LOCATION L0001055     VOLUME   377475.962 3747423.449 20.03
   LOCATION L0001056     VOLUME   377479.619 3747423.466 20.06
   LOCATION L0001057     VOLUME   377483.277 3747423.483 20.08
   LOCATION L0001058     VOLUME   377486.934 3747423.501 20.11
   LOCATION L0001059     VOLUME   377490.592 3747423.518 20.14
   LOCATION L0001060     VOLUME   377494.249 3747423.535 20.16
   LOCATION L0001061     VOLUME   377497.907 3747423.552 20.19
   LOCATION L0001062     VOLUME   377501.565 3747423.569 20.20
   LOCATION L0001063     VOLUME   377505.222 3747423.586 20.21
   LOCATION L0001064     VOLUME   377508.880 3747423.604 20.22
   LOCATION L0001065     VOLUME   377512.537 3747423.621 20.23
   LOCATION L0001066     VOLUME   377516.195 3747423.638 20.23
   LOCATION L0001067     VOLUME   377519.852 3747423.655 20.24
   LOCATION L0001068     VOLUME   377523.510 3747423.672 20.24
   LOCATION L0001069     VOLUME   377527.167 3747423.689 20.28
   LOCATION L0001070     VOLUME   377530.825 3747423.706 20.33
   LOCATION L0001071     VOLUME   377534.483 3747423.724 20.38
   LOCATION L0001072     VOLUME   377538.140 3747423.741 20.43
   LOCATION L0001073     VOLUME   377541.798 3747423.758 20.48
   LOCATION L0001074     VOLUME   377545.455 3747423.775 20.53
   LOCATION L0001075     VOLUME   377549.113 3747423.792 20.58
   LOCATION L0001076     VOLUME   377552.770 3747423.809 20.59
   LOCATION L0001077     VOLUME   377556.428 3747423.826 20.57
   LOCATION L0001078     VOLUME   377560.085 3747423.844 20.56
   LOCATION L0001079     VOLUME   377563.743 3747423.861 20.54
   LOCATION L0001080     VOLUME   377567.401 3747423.878 20.53
   LOCATION L0001081     VOLUME   377571.058 3747423.895 20.52
   LOCATION L0001082     VOLUME   377574.716 3747423.912 20.50
   LOCATION L0001083     VOLUME   377578.373 3747423.929 20.46
   LOCATION L0001084     VOLUME   377582.031 3747423.946 20.42
   LOCATION L0001085     VOLUME   377585.688 3747423.964 20.37
   LOCATION L0001086     VOLUME   377589.346 3747423.981 20.32
   LOCATION L0001087     VOLUME   377593.004 3747423.998 20.27
   LOCATION L0001088     VOLUME   377596.661 3747424.015 20.23
** End of LINE VOLUME Source ID = SLINE1
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE2
** DESCRSRC Onsite travel from driveway 2
** PREFIX
** Length of Side = 3.66
** Configuration = Adjacent
** Emission Rate = 1.92E-06
** Elevated
```

```
** Building Height = 10.97
** SZINIT = 5.10
** Nodes = 2
** 377606.877, 3747423.569, 20.16, 0.00, 1.70
** 377607.327, 3747251.736, 19.20, 0.00, 1.70
** ------------------------------------------------------------------
   LOCATION L0001089     VOLUME   377606.881 3747421.740 20.14
   LOCATION L0001090     VOLUME   377606.891 3747418.082 20.19
   LOCATION L0001091     VOLUME   377606.901 3747414.425 20.23
   LOCATION L0001092     VOLUME   377606.910 3747410.767 20.28
   LOCATION L0001093     VOLUME   377606.920 3747407.110 20.32
   LOCATION L0001094     VOLUME   377606.929 3747403.452 20.34
   LOCATION L0001095     VOLUME   377606.939 3747399.794 20.34
   LOCATION L0001096     VOLUME   377606.948 3747396.137 20.33
   LOCATION L0001097     VOLUME   377606.958 3747392.479 20.33
   LOCATION L0001098     VOLUME   377606.968 3747388.822 20.33
   LOCATION L0001099     VOLUME   377606.977 3747385.164 20.33
   LOCATION L0001100     VOLUME   377606.987 3747381.507 20.33
   LOCATION L0001101     VOLUME   377606.996 3747377.849 20.32
   LOCATION L0001102     VOLUME   377607.006 3747374.191 20.32
   LOCATION L0001103     VOLUME   377607.016 3747370.534 20.26
   LOCATION L0001104     VOLUME   377607.025 3747366.876 20.20
   LOCATION L0001105     VOLUME   377607.035 3747363.219 20.14
   LOCATION L0001106     VOLUME   377607.044 3747359.561 20.08
   LOCATION L0001107     VOLUME   377607.054 3747355.903 20.03
   LOCATION L0001108     VOLUME   377607.063 3747352.246 19.97
   LOCATION L0001109     VOLUME   377607.073 3747348.588 19.91
   LOCATION L0001110     VOLUME   377607.083 3747344.931 19.86
   LOCATION L0001111     VOLUME   377607.092 3747341.273 19.82
   LOCATION L0001112     VOLUME   377607.102 3747337.615 19.78
   LOCATION L0001113     VOLUME   377607.111 3747333.958 19.75
   LOCATION L0001114     VOLUME   377607.121 3747330.300 19.72
   LOCATION L0001115     VOLUME   377607.130 3747326.643 19.69
   LOCATION L0001116     VOLUME   377607.140 3747322.985 19.66
   LOCATION L0001117     VOLUME   377607.150 3747319.328 19.63
   LOCATION L0001118     VOLUME   377607.159 3747315.670 19.60
   LOCATION L0001119     VOLUME   377607.169 3747312.012 19.58
   LOCATION L0001120     VOLUME   377607.178 3747308.355 19.60
   LOCATION L0001121     VOLUME   377607.188 3747304.697 19.63
   LOCATION L0001122     VOLUME   377607.197 3747301.040 19.65
   LOCATION L0001123     VOLUME   377607.207 3747297.382 19.67
   LOCATION L0001124     VOLUME   377607.217 3747293.724 19.69
   LOCATION L0001125     VOLUME   377607.226 3747290.067 19.71
   LOCATION L0001126     VOLUME   377607.236 3747286.409 19.73
   LOCATION L0001127     VOLUME   377607.245 3747282.752 19.75
   LOCATION L0001128     VOLUME   377607.255 3747279.094 19.70
   LOCATION L0001129     VOLUME   377607.264 3747275.436 19.64
   LOCATION L0001130     VOLUME   377607.274 3747271.779 19.57
   LOCATION L0001131     VOLUME   377607.284 3747268.121 19.50
   LOCATION L0001132     VOLUME   377607.293 3747264.464 19.43
   LOCATION L0001133     VOLUME   377607.303 3747260.806 19.37
```

```
   LOCATION L0001134     VOLUME   377607.312 3747257.149 19.30
   LOCATION L0001135     VOLUME   377607.322 3747253.491 19.23
** End of LINE VOLUME Source ID = SLINE2
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE3
** DESCRSRC Crenshaw Blvd NB n/o Project Driveway 3
** PREFIX
** Length of Side = 3.66
** Configuration = Adjacent
** Emission Rate = 4.93E-06
** Elevated
** Vertical Dimension = 3.66
** SZINIT = 0.85
** Nodes = 2
** 377299.844, 3747422.000, 18.66, 0.00, 1.70
** 377297.707, 3747846.534, 20.45, 0.00, 1.70
** ----------------------------------------------------------------------
   LOCATION L0001136     VOLUME   377299.835 3747423.829 18.87
   LOCATION L0001137     VOLUME   377299.816 3747427.486 18.92
   LOCATION L0001138     VOLUME   377299.798 3747431.144 18.98
   LOCATION L0001139     VOLUME   377299.780 3747434.801 19.03
   LOCATION L0001140     VOLUME   377299.761 3747438.459 19.08
   LOCATION L0001141     VOLUME   377299.743 3747442.117 19.09
   LOCATION L0001142     VOLUME   377299.724 3747445.774 19.08
   LOCATION L0001143     VOLUME   377299.706 3747449.432 19.06
   LOCATION L0001144     VOLUME   377299.688 3747453.089 19.04
   LOCATION L0001145     VOLUME   377299.669 3747456.747 19.03
   LOCATION L0001146     VOLUME   377299.651 3747460.404 19.01
   LOCATION L0001147     VOLUME   377299.632 3747464.062 19.00
   LOCATION L0001148     VOLUME   377299.614 3747467.719 18.98
   LOCATION L0001149     VOLUME   377299.595 3747471.377 18.97
   LOCATION L0001150     VOLUME   377299.577 3747475.035 19.00
   LOCATION L0001151     VOLUME   377299.559 3747478.692 19.04
   LOCATION L0001152     VOLUME   377299.540 3747482.350 19.07
   LOCATION L0001153     VOLUME   377299.522 3747486.007 19.11
   LOCATION L0001154     VOLUME   377299.503 3747489.665 19.14
   LOCATION L0001155     VOLUME   377299.485 3747493.322 19.17
   LOCATION L0001156     VOLUME   377299.467 3747496.980 19.21
   LOCATION L0001157     VOLUME   377299.448 3747500.637 19.24
   LOCATION L0001158     VOLUME   377299.430 3747504.295 19.25
   LOCATION L0001159     VOLUME   377299.411 3747507.953 19.24
   LOCATION L0001160     VOLUME   377299.393 3747511.610 19.24
   LOCATION L0001161     VOLUME   377299.375 3747515.268 19.23
   LOCATION L0001162     VOLUME   377299.356 3747518.925 19.22
   LOCATION L0001163     VOLUME   377299.338 3747522.583 19.22
   LOCATION L0001164     VOLUME   377299.319 3747526.240 19.21
   LOCATION L0001165     VOLUME   377299.301 3747529.898 19.20
   LOCATION L0001166     VOLUME   377299.283 3747533.555 19.20
   LOCATION L0001167     VOLUME   377299.264 3747537.213 19.21
   LOCATION L0001168     VOLUME   377299.246 3747540.870 19.21
```

```
LOCATION L0001169     VOLUME   377299.227 3747544.528 19.22
LOCATION L0001170     VOLUME   377299.209 3747548.186 19.23
LOCATION L0001171     VOLUME   377299.190 3747551.843 19.24
LOCATION L0001172     VOLUME   377299.172 3747555.501 19.24
LOCATION L0001173     VOLUME   377299.154 3747559.158 19.25
LOCATION L0001174     VOLUME   377299.135 3747562.816 19.26
LOCATION L0001175     VOLUME   377299.117 3747566.473 19.29
LOCATION L0001176     VOLUME   377299.098 3747570.131 19.33
LOCATION L0001177     VOLUME   377299.080 3747573.788 19.37
LOCATION L0001178     VOLUME   377299.062 3747577.446 19.41
LOCATION L0001179     VOLUME   377299.043 3747581.104 19.45
LOCATION L0001180     VOLUME   377299.025 3747584.761 19.49
LOCATION L0001181     VOLUME   377299.006 3747588.419 19.53
LOCATION L0001182     VOLUME   377298.988 3747592.076 19.57
LOCATION L0001183     VOLUME   377298.970 3747595.734 19.60
LOCATION L0001184     VOLUME   377298.951 3747599.391 19.63
LOCATION L0001185     VOLUME   377298.933 3747603.049 19.67
LOCATION L0001186     VOLUME   377298.914 3747606.706 19.70
LOCATION L0001187     VOLUME   377298.896 3747610.364 19.73
LOCATION L0001188     VOLUME   377298.878 3747614.022 19.76
LOCATION L0001189     VOLUME   377298.859 3747617.679 19.79
LOCATION L0001190     VOLUME   377298.841 3747621.337 19.82
LOCATION L0001191     VOLUME   377298.822 3747624.994 19.85
LOCATION L0001192     VOLUME   377298.804 3747628.652 19.88
LOCATION L0001193     VOLUME   377298.785 3747632.309 19.90
LOCATION L0001194     VOLUME   377298.767 3747635.967 19.92
LOCATION L0001195     VOLUME   377298.749 3747639.624 19.95
LOCATION L0001196     VOLUME   377298.730 3747643.282 19.97
LOCATION L0001197     VOLUME   377298.712 3747646.940 20.00
LOCATION L0001198     VOLUME   377298.693 3747650.597 20.02
LOCATION L0001199     VOLUME   377298.675 3747654.255 20.05
LOCATION L0001200     VOLUME   377298.657 3747657.912 20.07
LOCATION L0001201     VOLUME   377298.638 3747661.570 20.10
LOCATION L0001202     VOLUME   377298.620 3747665.227 20.12
LOCATION L0001203     VOLUME   377298.601 3747668.885 20.15
LOCATION L0001204     VOLUME   377298.583 3747672.542 20.18
LOCATION L0001205     VOLUME   377298.565 3747676.200 20.20
LOCATION L0001206     VOLUME   377298.546 3747679.858 20.23
LOCATION L0001207     VOLUME   377298.528 3747683.515 20.26
LOCATION L0001208     VOLUME   377298.509 3747687.173 20.28
LOCATION L0001209     VOLUME   377298.491 3747690.830 20.31
LOCATION L0001210     VOLUME   377298.473 3747694.488 20.34
LOCATION L0001211     VOLUME   377298.454 3747698.145 20.38
LOCATION L0001212     VOLUME   377298.436 3747701.803 20.41
LOCATION L0001213     VOLUME   377298.417 3747705.460 20.44
LOCATION L0001214     VOLUME   377298.399 3747709.118 20.47
LOCATION L0001215     VOLUME   377298.380 3747712.776 20.50
LOCATION L0001216     VOLUME   377298.362 3747716.433 20.53
LOCATION L0001217     VOLUME   377298.344 3747720.091 20.55
LOCATION L0001218     VOLUME   377298.325 3747723.748 20.57
LOCATION L0001219     VOLUME   377298.307 3747727.406 20.59
```

```
   LOCATION L0001220     VOLUME   377298.288 3747731.063 20.61
   LOCATION L0001221     VOLUME   377298.270 3747734.721 20.62
   LOCATION L0001222     VOLUME   377298.252 3747738.378 20.64
   LOCATION L0001223     VOLUME   377298.233 3747742.036 20.66
   LOCATION L0001224     VOLUME   377298.215 3747745.693 20.68
   LOCATION L0001225     VOLUME   377298.196 3747749.351 20.69
   LOCATION L0001226     VOLUME   377298.178 3747753.009 20.69
   LOCATION L0001227     VOLUME   377298.160 3747756.666 20.69
   LOCATION L0001228     VOLUME   377298.141 3747760.324 20.70
   LOCATION L0001229     VOLUME   377298.123 3747763.981 20.70
   LOCATION L0001230     VOLUME   377298.104 3747767.639 20.70
   LOCATION L0001231     VOLUME   377298.086 3747771.296 20.70
   LOCATION L0001232     VOLUME   377298.068 3747774.954 20.70
   LOCATION L0001233     VOLUME   377298.049 3747778.611 20.70
   LOCATION L0001234     VOLUME   377298.031 3747782.269 20.69
   LOCATION L0001235     VOLUME   377298.012 3747785.927 20.67
   LOCATION L0001236     VOLUME   377297.994 3747789.584 20.65
   LOCATION L0001237     VOLUME   377297.975 3747793.242 20.63
   LOCATION L0001238     VOLUME   377297.957 3747796.899 20.61
   LOCATION L0001239     VOLUME   377297.939 3747800.557 20.60
   LOCATION L0001240     VOLUME   377297.920 3747804.214 20.58
   LOCATION L0001241     VOLUME   377297.902 3747807.872 20.56
   LOCATION L0001242     VOLUME   377297.883 3747811.529 20.55
   LOCATION L0001243     VOLUME   377297.865 3747815.187 20.53
   LOCATION L0001244     VOLUME   377297.847 3747818.845 20.52
   LOCATION L0001245     VOLUME   377297.828 3747822.502 20.50
   LOCATION L0001246     VOLUME   377297.810 3747826.160 20.48
   LOCATION L0001247     VOLUME   377297.791 3747829.817 20.47
   LOCATION L0001248     VOLUME   377297.773 3747833.475 20.45
   LOCATION L0001249     VOLUME   377297.755 3747837.132 20.44
   LOCATION L0001250     VOLUME   377297.736 3747840.790 20.42
   LOCATION L0001251     VOLUME   377297.718 3747844.447 20.40
** End of LINE VOLUME Source ID = SLINE3
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE4
** DESCRSRC Crenshaw Blvd n/o 190th St
** PREFIX
** Length of Side = 3.66
** Configuration = Adjacent
** Emission Rate = 1.41E-06
** Elevated
** Vertical Dimension = 3.66
** SZINIT = 0.85
** Nodes = 6
** 377156.337, 3747243.729, 18.13, 0.00, 1.70
** 377233.697, 3747379.881, 18.46, 0.00, 1.70
** 377255.357, 3747420.108, 18.51, 0.00, 1.70
** 377271.860, 3747448.989, 18.72, 0.00, 1.70
** 377280.112, 3747463.429, 18.72, 0.00, 1.70
** 377289.395, 3747481.996, 19.00, 0.00, 1.70
```

```
** ------------------------------------------------------------------
   LOCATION L0001252     VOLUME   377157.241 3747245.319 18.15
   LOCATION L0001253     VOLUME   377159.048 3747248.499 18.13
   LOCATION L0001254     VOLUME   377160.854 3747251.679 18.12
   LOCATION L0001255     VOLUME   377162.661 3747254.859 18.10
   LOCATION L0001256     VOLUME   377164.468 3747258.039 18.08
   LOCATION L0001257     VOLUME   377166.275 3747261.220 18.06
   LOCATION L0001258     VOLUME   377168.082 3747264.400 18.04
   LOCATION L0001259     VOLUME   377169.889 3747267.580 18.03
   LOCATION L0001260     VOLUME   377171.696 3747270.760 18.03
   LOCATION L0001261     VOLUME   377173.503 3747273.940 18.03
   LOCATION L0001262     VOLUME   377175.310 3747277.120 18.04
   LOCATION L0001263     VOLUME   377177.116 3747280.300 18.06
   LOCATION L0001264     VOLUME   377178.923 3747283.480 18.09
   LOCATION L0001265     VOLUME   377180.730 3747286.661 18.12
   LOCATION L0001266     VOLUME   377182.537 3747289.841 18.14
   LOCATION L0001267     VOLUME   377184.344 3747293.021 18.15
   LOCATION L0001268     VOLUME   377186.151 3747296.201 18.17
   LOCATION L0001269     VOLUME   377187.958 3747299.381 18.18
   LOCATION L0001270     VOLUME   377189.765 3747302.561 18.19
   LOCATION L0001271     VOLUME   377191.572 3747305.741 18.19
   LOCATION L0001272     VOLUME   377193.378 3747308.921 18.18
   LOCATION L0001273     VOLUME   377195.185 3747312.102 18.18
   LOCATION L0001274     VOLUME   377196.992 3747315.282 18.17
   LOCATION L0001275     VOLUME   377198.799 3747318.462 18.16
   LOCATION L0001276     VOLUME   377200.606 3747321.642 18.14
   LOCATION L0001277     VOLUME   377202.413 3747324.822 18.14
   LOCATION L0001278     VOLUME   377204.220 3747328.002 18.14
   LOCATION L0001279     VOLUME   377206.027 3747331.182 18.15
   LOCATION L0001280     VOLUME   377207.834 3747334.362 18.17
   LOCATION L0001281     VOLUME   377209.640 3747337.543 18.20
   LOCATION L0001282     VOLUME   377211.447 3747340.723 18.24
   LOCATION L0001283     VOLUME   377213.254 3747343.903 18.28
   LOCATION L0001284     VOLUME   377215.061 3747347.083 18.33
   LOCATION L0001285     VOLUME   377216.868 3747350.263 18.34
   LOCATION L0001286     VOLUME   377218.675 3747353.443 18.31
   LOCATION L0001287     VOLUME   377220.482 3747356.623 18.29
   LOCATION L0001288     VOLUME   377222.289 3747359.803 18.28
   LOCATION L0001289     VOLUME   377224.096 3747362.984 18.27
   LOCATION L0001290     VOLUME   377225.902 3747366.164 18.27
   LOCATION L0001291     VOLUME   377227.709 3747369.344 18.28
   LOCATION L0001292     VOLUME   377229.516 3747372.524 18.29
   LOCATION L0001293     VOLUME   377231.323 3747375.704 18.32
   LOCATION L0001294     VOLUME   377233.130 3747378.884 18.34
   LOCATION L0001295     VOLUME   377234.887 3747382.092 18.38
   LOCATION L0001296     VOLUME   377236.621 3747385.312 18.40
   LOCATION L0001297     VOLUME   377238.355 3747388.533 18.43
   LOCATION L0001298     VOLUME   377240.089 3747391.753 18.44
   LOCATION L0001299     VOLUME   377241.823 3747394.974 18.45
   LOCATION L0001300     VOLUME   377243.557 3747398.194 18.44
   LOCATION L0001301     VOLUME   377245.291 3747401.414 18.43
```

```
   LOCATION L0001302     VOLUME   377247.025 3747404.635 18.43
   LOCATION L0001303     VOLUME   377248.759 3747407.855 18.43
   LOCATION L0001304     VOLUME   377250.493 3747411.076 18.43
   LOCATION L0001305     VOLUME   377252.228 3747414.296 18.43
   LOCATION L0001306     VOLUME   377253.962 3747417.517 18.44
   LOCATION L0001307     VOLUME   377255.711 3747420.728 18.46
   LOCATION L0001308     VOLUME   377257.526 3747423.904 18.48
   LOCATION L0001309     VOLUME   377259.341 3747427.080 18.51
   LOCATION L0001310     VOLUME   377261.155 3747430.255 18.55
   LOCATION L0001311     VOLUME   377262.970 3747433.431 18.59
   LOCATION L0001312     VOLUME   377264.785 3747436.607 18.64
   LOCATION L0001313     VOLUME   377266.599 3747439.782 18.70
   LOCATION L0001314     VOLUME   377268.414 3747442.958 18.72
   LOCATION L0001315     VOLUME   377270.229 3747446.134 18.72
   LOCATION L0001316     VOLUME   377272.044 3747449.309 18.71
   LOCATION L0001317     VOLUME   377273.858 3747452.485 18.71
   LOCATION L0001318     VOLUME   377275.673 3747455.661 18.70
   LOCATION L0001319     VOLUME   377277.488 3747458.836 18.71
   LOCATION L0001320     VOLUME   377279.302 3747462.012 18.71
   LOCATION L0001321     VOLUME   377281.018 3747465.241 18.71
   LOCATION L0001322     VOLUME   377282.654 3747468.512 18.71
   LOCATION L0001323     VOLUME   377284.289 3747471.784 18.73
   LOCATION L0001324     VOLUME   377285.925 3747475.055 18.77
   LOCATION L0001325     VOLUME   377287.561 3747478.327 18.82
   LOCATION L0001326     VOLUME   377289.196 3747481.598 18.88
** End of LINE VOLUME Source ID = SLINE4
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE5
** DESCRSRC 190th St west of 405 fwy SB ramps
** PREFIX
** Length of Side = 3.66
** Configuration = Adjacent
** Emission Rate = 0.0000129
** Elevated
** Vertical Dimension = 3.66
** SZINIT = 0.85
** Nodes = 2
** 377162.491, 3747238.163, 18.10, 0.00, 1.70
** 378701.707, 3747243.918, 18.18, 0.00, 1.70
** ----------------------------------------------------------------------
   LOCATION L0001327     VOLUME   377164.319 3747238.170 18.07
   LOCATION L0001328     VOLUME   377167.977 3747238.184 18.06
   LOCATION L0001329     VOLUME   377171.634 3747238.198 18.04
   LOCATION L0001330     VOLUME   377175.292 3747238.211 18.03
   LOCATION L0001331     VOLUME   377178.950 3747238.225 18.01
   LOCATION L0001332     VOLUME   377182.607 3747238.239 18.00
   LOCATION L0001333     VOLUME   377186.265 3747238.252 17.98
   LOCATION L0001334     VOLUME   377189.922 3747238.266 17.97
   LOCATION L0001335     VOLUME   377193.580 3747238.280 17.97
   LOCATION L0001336     VOLUME   377197.237 3747238.293 17.97
```

```
LOCATION L0001337     VOLUME   377200.895 3747238.307 17.97
LOCATION L0001338     VOLUME   377204.553 3747238.321 17.96
LOCATION L0001339     VOLUME   377208.210 3747238.334 17.96
LOCATION L0001340     VOLUME   377211.868 3747238.348 17.96
LOCATION L0001341     VOLUME   377215.525 3747238.362 17.94
LOCATION L0001342     VOLUME   377219.183 3747238.375 17.89
LOCATION L0001343     VOLUME   377222.840 3747238.389 17.85
LOCATION L0001344     VOLUME   377226.498 3747238.403 17.81
LOCATION L0001345     VOLUME   377230.156 3747238.416 17.77
LOCATION L0001346     VOLUME   377233.813 3747238.430 17.73
LOCATION L0001347     VOLUME   377237.471 3747238.444 17.68
LOCATION L0001348     VOLUME   377241.128 3747238.457 17.67
LOCATION L0001349     VOLUME   377244.786 3747238.471 17.68
LOCATION L0001350     VOLUME   377248.444 3747238.485 17.70
LOCATION L0001351     VOLUME   377252.101 3747238.499 17.71
LOCATION L0001352     VOLUME   377255.759 3747238.512 17.73
LOCATION L0001353     VOLUME   377259.416 3747238.526 17.74
LOCATION L0001354     VOLUME   377263.074 3747238.540 17.76
LOCATION L0001355     VOLUME   377266.731 3747238.553 17.77
LOCATION L0001356     VOLUME   377270.389 3747238.567 17.78
LOCATION L0001357     VOLUME   377274.047 3747238.581 17.79
LOCATION L0001358     VOLUME   377277.704 3747238.594 17.81
LOCATION L0001359     VOLUME   377281.362 3747238.608 17.82
LOCATION L0001360     VOLUME   377285.019 3747238.622 17.83
LOCATION L0001361     VOLUME   377288.677 3747238.635 17.84
LOCATION L0001362     VOLUME   377292.334 3747238.649 17.86
LOCATION L0001363     VOLUME   377295.992 3747238.663 17.90
LOCATION L0001364     VOLUME   377299.650 3747238.676 17.93
LOCATION L0001365     VOLUME   377303.307 3747238.690 17.97
LOCATION L0001366     VOLUME   377306.965 3747238.704 18.01
LOCATION L0001367     VOLUME   377310.622 3747238.717 18.05
LOCATION L0001368     VOLUME   377314.280 3747238.731 18.09
LOCATION L0001369     VOLUME   377317.937 3747238.745 18.13
LOCATION L0001370     VOLUME   377321.595 3747238.758 18.17
LOCATION L0001371     VOLUME   377325.253 3747238.772 18.22
LOCATION L0001372     VOLUME   377328.910 3747238.786 18.26
LOCATION L0001373     VOLUME   377332.568 3747238.799 18.31
LOCATION L0001374     VOLUME   377336.225 3747238.813 18.36
LOCATION L0001375     VOLUME   377339.883 3747238.827 18.40
LOCATION L0001376     VOLUME   377343.540 3747238.840 18.44
LOCATION L0001377     VOLUME   377347.198 3747238.854 18.48
LOCATION L0001378     VOLUME   377350.856 3747238.868 18.52
LOCATION L0001379     VOLUME   377354.513 3747238.881 18.56
LOCATION L0001380     VOLUME   377358.171 3747238.895 18.60
LOCATION L0001381     VOLUME   377361.828 3747238.909 18.64
LOCATION L0001382     VOLUME   377365.486 3747238.922 18.68
LOCATION L0001383     VOLUME   377369.143 3747238.936 18.72
LOCATION L0001384     VOLUME   377372.801 3747238.950 18.75
LOCATION L0001385     VOLUME   377376.459 3747238.963 18.78
LOCATION L0001386     VOLUME   377380.116 3747238.977 18.80
LOCATION L0001387     VOLUME   377383.774 3747238.991 18.83
```

```
LOCATION L0001388     VOLUME   377387.431 3747239.004 18.86
LOCATION L0001389     VOLUME   377391.089 3747239.018 18.89
LOCATION L0001390     VOLUME   377394.746 3747239.032 18.93
LOCATION L0001391     VOLUME   377398.404 3747239.045 18.98
LOCATION L0001392     VOLUME   377402.062 3747239.059 19.04
LOCATION L0001393     VOLUME   377405.719 3747239.073 19.09
LOCATION L0001394     VOLUME   377409.377 3747239.087 19.15
LOCATION L0001395     VOLUME   377413.034 3747239.100 19.20
LOCATION L0001396     VOLUME   377416.692 3747239.114 19.26
LOCATION L0001397     VOLUME   377420.350 3747239.128 19.31
LOCATION L0001398     VOLUME   377424.007 3747239.141 19.35
LOCATION L0001399     VOLUME   377427.665 3747239.155 19.39
LOCATION L0001400     VOLUME   377431.322 3747239.169 19.43
LOCATION L0001401     VOLUME   377434.980 3747239.182 19.46
LOCATION L0001402     VOLUME   377438.637 3747239.196 19.50
LOCATION L0001403     VOLUME   377442.295 3747239.210 19.54
LOCATION L0001404     VOLUME   377445.953 3747239.223 19.58
LOCATION L0001405     VOLUME   377449.610 3747239.237 19.61
LOCATION L0001406     VOLUME   377453.268 3747239.251 19.65
LOCATION L0001407     VOLUME   377456.925 3747239.264 19.68
LOCATION L0001408     VOLUME   377460.583 3747239.278 19.71
LOCATION L0001409     VOLUME   377464.240 3747239.292 19.74
LOCATION L0001410     VOLUME   377467.898 3747239.305 19.78
LOCATION L0001411     VOLUME   377471.556 3747239.319 19.80
LOCATION L0001412     VOLUME   377475.213 3747239.333 19.80
LOCATION L0001413     VOLUME   377478.871 3747239.346 19.80
LOCATION L0001414     VOLUME   377482.528 3747239.360 19.80
LOCATION L0001415     VOLUME   377486.186 3747239.374 19.79
LOCATION L0001416     VOLUME   377489.843 3747239.387 19.79
LOCATION L0001417     VOLUME   377493.501 3747239.401 19.79
LOCATION L0001418     VOLUME   377497.159 3747239.415 19.78
LOCATION L0001419     VOLUME   377500.816 3747239.428 19.76
LOCATION L0001420     VOLUME   377504.474 3747239.442 19.74
LOCATION L0001421     VOLUME   377508.131 3747239.456 19.72
LOCATION L0001422     VOLUME   377511.789 3747239.469 19.70
LOCATION L0001423     VOLUME   377515.446 3747239.483 19.68
LOCATION L0001424     VOLUME   377519.104 3747239.497 19.66
LOCATION L0001425     VOLUME   377522.762 3747239.510 19.64
LOCATION L0001426     VOLUME   377526.419 3747239.524 19.62
LOCATION L0001427     VOLUME   377530.077 3747239.538 19.60
LOCATION L0001428     VOLUME   377533.734 3747239.551 19.58
LOCATION L0001429     VOLUME   377537.392 3747239.565 19.56
LOCATION L0001430     VOLUME   377541.049 3747239.579 19.54
LOCATION L0001431     VOLUME   377544.707 3747239.592 19.53
LOCATION L0001432     VOLUME   377548.365 3747239.606 19.51
LOCATION L0001433     VOLUME   377552.022 3747239.620 19.50
LOCATION L0001434     VOLUME   377555.680 3747239.634 19.49
LOCATION L0001435     VOLUME   377559.337 3747239.647 19.47
LOCATION L0001436     VOLUME   377562.995 3747239.661 19.46
LOCATION L0001437     VOLUME   377566.652 3747239.675 19.45
LOCATION L0001438     VOLUME   377570.310 3747239.688 19.44
```

```
LOCATION L0001439     VOLUME   377573.968 3747239.702 19.43
LOCATION L0001440     VOLUME   377577.625 3747239.716 19.40
LOCATION L0001441     VOLUME   377581.283 3747239.729 19.37
LOCATION L0001442     VOLUME   377584.940 3747239.743 19.34
LOCATION L0001443     VOLUME   377588.598 3747239.757 19.31
LOCATION L0001444     VOLUME   377592.256 3747239.770 19.28
LOCATION L0001445     VOLUME   377595.913 3747239.784 19.25
LOCATION L0001446     VOLUME   377599.571 3747239.798 19.23
LOCATION L0001447     VOLUME   377603.228 3747239.811 19.21
LOCATION L0001448     VOLUME   377606.886 3747239.825 19.20
LOCATION L0001449     VOLUME   377610.543 3747239.839 19.19
LOCATION L0001450     VOLUME   377614.201 3747239.852 19.18
LOCATION L0001451     VOLUME   377617.859 3747239.866 19.16
LOCATION L0001452     VOLUME   377621.516 3747239.880 19.15
LOCATION L0001453     VOLUME   377625.174 3747239.893 19.14
LOCATION L0001454     VOLUME   377628.831 3747239.907 19.12
LOCATION L0001455     VOLUME   377632.489 3747239.921 19.09
LOCATION L0001456     VOLUME   377636.146 3747239.934 19.07
LOCATION L0001457     VOLUME   377639.804 3747239.948 19.05
LOCATION L0001458     VOLUME   377643.462 3747239.962 19.03
LOCATION L0001459     VOLUME   377647.119 3747239.975 19.01
LOCATION L0001460     VOLUME   377650.777 3747239.989 18.99
LOCATION L0001461     VOLUME   377654.434 3747240.003 18.96
LOCATION L0001462     VOLUME   377658.092 3747240.016 18.94
LOCATION L0001463     VOLUME   377661.749 3747240.030 18.91
LOCATION L0001464     VOLUME   377665.407 3747240.044 18.89
LOCATION L0001465     VOLUME   377669.065 3747240.057 18.86
LOCATION L0001466     VOLUME   377672.722 3747240.071 18.84
LOCATION L0001467     VOLUME   377676.380 3747240.085 18.81
LOCATION L0001468     VOLUME   377680.037 3747240.098 18.79
LOCATION L0001469     VOLUME   377683.695 3747240.112 18.78
LOCATION L0001470     VOLUME   377687.352 3747240.126 18.76
LOCATION L0001471     VOLUME   377691.010 3747240.139 18.74
LOCATION L0001472     VOLUME   377694.668 3747240.153 18.73
LOCATION L0001473     VOLUME   377698.325 3747240.167 18.71
LOCATION L0001474     VOLUME   377701.983 3747240.181 18.69
LOCATION L0001475     VOLUME   377705.640 3747240.194 18.67
LOCATION L0001476     VOLUME   377709.298 3747240.208 18.65
LOCATION L0001477     VOLUME   377712.955 3747240.222 18.63
LOCATION L0001478     VOLUME   377716.613 3747240.235 18.61
LOCATION L0001479     VOLUME   377720.271 3747240.249 18.59
LOCATION L0001480     VOLUME   377723.928 3747240.263 18.56
LOCATION L0001481     VOLUME   377727.586 3747240.276 18.54
LOCATION L0001482     VOLUME   377731.243 3747240.290 18.52
LOCATION L0001483     VOLUME   377734.901 3747240.304 18.49
LOCATION L0001484     VOLUME   377738.558 3747240.317 18.47
LOCATION L0001485     VOLUME   377742.216 3747240.331 18.44
LOCATION L0001486     VOLUME   377745.874 3747240.345 18.42
LOCATION L0001487     VOLUME   377749.531 3747240.358 18.40
LOCATION L0001488     VOLUME   377753.189 3747240.372 18.37
LOCATION L0001489     VOLUME   377756.846 3747240.386 18.34
```

```
LOCATION L0001490     VOLUME   377760.504 3747240.399 18.31
LOCATION L0001491     VOLUME   377764.162 3747240.413 18.29
LOCATION L0001492     VOLUME   377767.819 3747240.427 18.26
LOCATION L0001493     VOLUME   377771.477 3747240.440 18.23
LOCATION L0001494     VOLUME   377775.134 3747240.454 18.20
LOCATION L0001495     VOLUME   377778.792 3747240.468 18.17
LOCATION L0001496     VOLUME   377782.449 3747240.481 18.18
LOCATION L0001497     VOLUME   377786.107 3747240.495 18.19
LOCATION L0001498     VOLUME   377789.765 3747240.509 18.19
LOCATION L0001499     VOLUME   377793.422 3747240.522 18.20
LOCATION L0001500     VOLUME   377797.080 3747240.536 18.21
LOCATION L0001501     VOLUME   377800.737 3747240.550 18.22
LOCATION L0001502     VOLUME   377804.395 3747240.563 18.23
LOCATION L0001503     VOLUME   377808.052 3747240.577 18.23
LOCATION L0001504     VOLUME   377811.710 3747240.591 18.24
LOCATION L0001505     VOLUME   377815.368 3747240.604 18.25
LOCATION L0001506     VOLUME   377819.025 3747240.618 18.26
LOCATION L0001507     VOLUME   377822.683 3747240.632 18.26
LOCATION L0001508     VOLUME   377826.340 3747240.645 18.27
LOCATION L0001509     VOLUME   377829.998 3747240.659 18.28
LOCATION L0001510     VOLUME   377833.655 3747240.673 18.28
LOCATION L0001511     VOLUME   377837.313 3747240.686 18.29
LOCATION L0001512     VOLUME   377840.971 3747240.700 18.29
LOCATION L0001513     VOLUME   377844.628 3747240.714 18.29
LOCATION L0001514     VOLUME   377848.286 3747240.728 18.29
LOCATION L0001515     VOLUME   377851.943 3747240.741 18.29
LOCATION L0001516     VOLUME   377855.601 3747240.755 18.30
LOCATION L0001517     VOLUME   377859.258 3747240.769 18.32
LOCATION L0001518     VOLUME   377862.916 3747240.782 18.34
LOCATION L0001519     VOLUME   377866.574 3747240.796 18.36
LOCATION L0001520     VOLUME   377870.231 3747240.810 18.39
LOCATION L0001521     VOLUME   377873.889 3747240.823 18.41
LOCATION L0001522     VOLUME   377877.546 3747240.837 18.44
LOCATION L0001523     VOLUME   377881.204 3747240.851 18.46
LOCATION L0001524     VOLUME   377884.861 3747240.864 18.49
LOCATION L0001525     VOLUME   377888.519 3747240.878 18.51
LOCATION L0001526     VOLUME   377892.177 3747240.892 18.54
LOCATION L0001527     VOLUME   377895.834 3747240.905 18.56
LOCATION L0001528     VOLUME   377899.492 3747240.919 18.59
LOCATION L0001529     VOLUME   377903.149 3747240.933 18.61
LOCATION L0001530     VOLUME   377906.807 3747240.946 18.64
LOCATION L0001531     VOLUME   377910.464 3747240.960 18.66
LOCATION L0001532     VOLUME   377914.122 3747240.974 18.68
LOCATION L0001533     VOLUME   377917.780 3747240.987 18.71
LOCATION L0001534     VOLUME   377921.437 3747241.001 18.73
LOCATION L0001535     VOLUME   377925.095 3747241.015 18.76
LOCATION L0001536     VOLUME   377928.752 3747241.028 18.78
LOCATION L0001537     VOLUME   377932.410 3747241.042 18.81
LOCATION L0001538     VOLUME   377936.068 3747241.056 18.85
LOCATION L0001539     VOLUME   377939.725 3747241.069 18.90
LOCATION L0001540     VOLUME   377943.383 3747241.083 18.95
```

```
LOCATION L0001541     VOLUME   377947.040 3747241.097 19.00
LOCATION L0001542     VOLUME   377950.698 3747241.110 19.05
LOCATION L0001543     VOLUME   377954.355 3747241.124 19.10
LOCATION L0001544     VOLUME   377958.013 3747241.138 19.15
LOCATION L0001545     VOLUME   377961.671 3747241.151 19.17
LOCATION L0001546     VOLUME   377965.328 3747241.165 19.17
LOCATION L0001547     VOLUME   377968.986 3747241.179 19.17
LOCATION L0001548     VOLUME   377972.643 3747241.192 19.17
LOCATION L0001549     VOLUME   377976.301 3747241.206 19.16
LOCATION L0001550     VOLUME   377979.958 3747241.220 19.16
LOCATION L0001551     VOLUME   377983.616 3747241.233 19.16
LOCATION L0001552     VOLUME   377987.274 3747241.247 19.17
LOCATION L0001553     VOLUME   377990.931 3747241.261 19.19
LOCATION L0001554     VOLUME   377994.589 3747241.274 19.20
LOCATION L0001555     VOLUME   377998.246 3747241.288 19.22
LOCATION L0001556     VOLUME   378001.904 3747241.302 19.24
LOCATION L0001557     VOLUME   378005.561 3747241.316 19.25
LOCATION L0001558     VOLUME   378009.219 3747241.329 19.27
LOCATION L0001559     VOLUME   378012.877 3747241.343 19.28
LOCATION L0001560     VOLUME   378016.534 3747241.357 19.30
LOCATION L0001561     VOLUME   378020.192 3747241.370 19.31
LOCATION L0001562     VOLUME   378023.849 3747241.384 19.32
LOCATION L0001563     VOLUME   378027.507 3747241.398 19.34
LOCATION L0001564     VOLUME   378031.164 3747241.411 19.35
LOCATION L0001565     VOLUME   378034.822 3747241.425 19.37
LOCATION L0001566     VOLUME   378038.480 3747241.439 19.40
LOCATION L0001567     VOLUME   378042.137 3747241.452 19.44
LOCATION L0001568     VOLUME   378045.795 3747241.466 19.49
LOCATION L0001569     VOLUME   378049.452 3747241.480 19.53
LOCATION L0001570     VOLUME   378053.110 3747241.493 19.57
LOCATION L0001571     VOLUME   378056.767 3747241.507 19.62
LOCATION L0001572     VOLUME   378060.425 3747241.521 19.66
LOCATION L0001573     VOLUME   378064.083 3747241.534 19.68
LOCATION L0001574     VOLUME   378067.740 3747241.548 19.69
LOCATION L0001575     VOLUME   378071.398 3747241.562 19.70
LOCATION L0001576     VOLUME   378075.055 3747241.575 19.70
LOCATION L0001577     VOLUME   378078.713 3747241.589 19.71
LOCATION L0001578     VOLUME   378082.370 3747241.603 19.72
LOCATION L0001579     VOLUME   378086.028 3747241.616 19.72
LOCATION L0001580     VOLUME   378089.686 3747241.630 19.74
LOCATION L0001581     VOLUME   378093.343 3747241.644 19.76
LOCATION L0001582     VOLUME   378097.001 3747241.657 19.78
LOCATION L0001583     VOLUME   378100.658 3747241.671 19.80
LOCATION L0001584     VOLUME   378104.316 3747241.685 19.83
LOCATION L0001585     VOLUME   378107.974 3747241.698 19.85
LOCATION L0001586     VOLUME   378111.631 3747241.712 19.87
LOCATION L0001587     VOLUME   378115.289 3747241.726 19.88
LOCATION L0001588     VOLUME   378118.946 3747241.739 19.89
LOCATION L0001589     VOLUME   378122.604 3747241.753 19.90
LOCATION L0001590     VOLUME   378126.261 3747241.767 19.90
LOCATION L0001591     VOLUME   378129.919 3747241.780 19.91
```

```
LOCATION L0001592     VOLUME   378133.577 3747241.794 19.91
LOCATION L0001593     VOLUME   378137.234 3747241.808 19.92
LOCATION L0001594     VOLUME   378140.892 3747241.821 19.92
LOCATION L0001595     VOLUME   378144.549 3747241.835 19.91
LOCATION L0001596     VOLUME   378148.207 3747241.849 19.91
LOCATION L0001597     VOLUME   378151.864 3747241.863 19.91
LOCATION L0001598     VOLUME   378155.522 3747241.876 19.90
LOCATION L0001599     VOLUME   378159.180 3747241.890 19.90
LOCATION L0001600     VOLUME   378162.837 3747241.904 19.90
LOCATION L0001601     VOLUME   378166.495 3747241.917 19.88
LOCATION L0001602     VOLUME   378170.152 3747241.931 19.84
LOCATION L0001603     VOLUME   378173.810 3747241.945 19.80
LOCATION L0001604     VOLUME   378177.467 3747241.958 19.77
LOCATION L0001605     VOLUME   378181.125 3747241.972 19.73
LOCATION L0001606     VOLUME   378184.783 3747241.986 19.69
LOCATION L0001607     VOLUME   378188.440 3747241.999 19.66
LOCATION L0001608     VOLUME   378192.098 3747242.013 19.64
LOCATION L0001609     VOLUME   378195.755 3747242.027 19.66
LOCATION L0001610     VOLUME   378199.413 3747242.040 19.67
LOCATION L0001611     VOLUME   378203.070 3747242.054 19.68
LOCATION L0001612     VOLUME   378206.728 3747242.068 19.69
LOCATION L0001613     VOLUME   378210.386 3747242.081 19.70
LOCATION L0001614     VOLUME   378214.043 3747242.095 19.71
LOCATION L0001615     VOLUME   378217.701 3747242.109 19.71
LOCATION L0001616     VOLUME   378221.358 3747242.122 19.70
LOCATION L0001617     VOLUME   378225.016 3747242.136 19.70
LOCATION L0001618     VOLUME   378228.673 3747242.150 19.69
LOCATION L0001619     VOLUME   378232.331 3747242.163 19.68
LOCATION L0001620     VOLUME   378235.989 3747242.177 19.67
LOCATION L0001621     VOLUME   378239.646 3747242.191 19.66
LOCATION L0001622     VOLUME   378243.304 3747242.204 19.64
LOCATION L0001623     VOLUME   378246.961 3747242.218 19.59
LOCATION L0001624     VOLUME   378250.619 3747242.232 19.54
LOCATION L0001625     VOLUME   378254.276 3747242.245 19.50
LOCATION L0001626     VOLUME   378257.934 3747242.259 19.45
LOCATION L0001627     VOLUME   378261.592 3747242.273 19.40
LOCATION L0001628     VOLUME   378265.249 3747242.286 19.35
LOCATION L0001629     VOLUME   378268.907 3747242.300 19.33
LOCATION L0001630     VOLUME   378272.564 3747242.314 19.34
LOCATION L0001631     VOLUME   378276.222 3747242.327 19.36
LOCATION L0001632     VOLUME   378279.880 3747242.341 19.37
LOCATION L0001633     VOLUME   378283.537 3747242.355 19.39
LOCATION L0001634     VOLUME   378287.195 3747242.368 19.40
LOCATION L0001635     VOLUME   378290.852 3747242.382 19.42
LOCATION L0001636     VOLUME   378294.510 3747242.396 19.43
LOCATION L0001637     VOLUME   378298.167 3747242.410 19.42
LOCATION L0001638     VOLUME   378301.825 3747242.423 19.42
LOCATION L0001639     VOLUME   378305.483 3747242.437 19.42
LOCATION L0001640     VOLUME   378309.140 3747242.451 19.41
LOCATION L0001641     VOLUME   378312.798 3747242.464 19.41
LOCATION L0001642     VOLUME   378316.455 3747242.478 19.41
```

```
LOCATION L0001643     VOLUME   378320.113 3747242.492 19.40
LOCATION L0001644     VOLUME   378323.770 3747242.505 19.37
LOCATION L0001645     VOLUME   378327.428 3747242.519 19.35
LOCATION L0001646     VOLUME   378331.086 3747242.533 19.32
LOCATION L0001647     VOLUME   378334.743 3747242.546 19.30
LOCATION L0001648     VOLUME   378338.401 3747242.560 19.27
LOCATION L0001649     VOLUME   378342.058 3747242.574 19.25
LOCATION L0001650     VOLUME   378345.716 3747242.587 19.23
LOCATION L0001651     VOLUME   378349.373 3747242.601 19.22
LOCATION L0001652     VOLUME   378353.031 3747242.615 19.22
LOCATION L0001653     VOLUME   378356.689 3747242.628 19.21
LOCATION L0001654     VOLUME   378360.346 3747242.642 19.20
LOCATION L0001655     VOLUME   378364.004 3747242.656 19.20
LOCATION L0001656     VOLUME   378367.661 3747242.669 19.19
LOCATION L0001657     VOLUME   378371.319 3747242.683 19.18
LOCATION L0001658     VOLUME   378374.976 3747242.697 19.19
LOCATION L0001659     VOLUME   378378.634 3747242.710 19.19
LOCATION L0001660     VOLUME   378382.292 3747242.724 19.19
LOCATION L0001661     VOLUME   378385.949 3747242.738 19.19
LOCATION L0001662     VOLUME   378389.607 3747242.751 19.19
LOCATION L0001663     VOLUME   378393.264 3747242.765 19.19
LOCATION L0001664     VOLUME   378396.922 3747242.779 19.18
LOCATION L0001665     VOLUME   378400.579 3747242.792 19.15
LOCATION L0001666     VOLUME   378404.237 3747242.806 19.12
LOCATION L0001667     VOLUME   378407.895 3747242.820 19.09
LOCATION L0001668     VOLUME   378411.552 3747242.833 19.05
LOCATION L0001669     VOLUME   378415.210 3747242.847 19.02
LOCATION L0001670     VOLUME   378418.867 3747242.861 18.99
LOCATION L0001671     VOLUME   378422.525 3747242.874 18.97
LOCATION L0001672     VOLUME   378426.182 3747242.888 19.00
LOCATION L0001673     VOLUME   378429.840 3747242.902 19.03
LOCATION L0001674     VOLUME   378433.498 3747242.915 19.07
LOCATION L0001675     VOLUME   378437.155 3747242.929 19.10
LOCATION L0001676     VOLUME   378440.813 3747242.943 19.13
LOCATION L0001677     VOLUME   378444.470 3747242.957 19.17
LOCATION L0001678     VOLUME   378448.128 3747242.970 19.19
LOCATION L0001679     VOLUME   378451.786 3747242.984 19.19
LOCATION L0001680     VOLUME   378455.443 3747242.998 19.18
LOCATION L0001681     VOLUME   378459.101 3747243.011 19.18
LOCATION L0001682     VOLUME   378462.758 3747243.025 19.17
LOCATION L0001683     VOLUME   378466.416 3747243.039 19.17
LOCATION L0001684     VOLUME   378470.073 3747243.052 19.17
LOCATION L0001685     VOLUME   378473.731 3747243.066 19.16
LOCATION L0001686     VOLUME   378477.389 3747243.080 19.14
LOCATION L0001687     VOLUME   378481.046 3747243.093 19.11
LOCATION L0001688     VOLUME   378484.704 3747243.107 19.08
LOCATION L0001689     VOLUME   378488.361 3747243.121 19.06
LOCATION L0001690     VOLUME   378492.019 3747243.134 19.03
LOCATION L0001691     VOLUME   378495.676 3747243.148 19.01
LOCATION L0001692     VOLUME   378499.334 3747243.162 18.98
LOCATION L0001693     VOLUME   378502.992 3747243.175 18.96
```

```
LOCATION L0001694     VOLUME   378506.649 3747243.189 18.94
LOCATION L0001695     VOLUME   378510.307 3747243.203 18.92
LOCATION L0001696     VOLUME   378513.964 3747243.216 18.90
LOCATION L0001697     VOLUME   378517.622 3747243.230 18.88
LOCATION L0001698     VOLUME   378521.279 3747243.244 18.87
LOCATION L0001699     VOLUME   378524.937 3747243.257 18.85
LOCATION L0001700     VOLUME   378528.595 3747243.271 18.83
LOCATION L0001701     VOLUME   378532.252 3747243.285 18.82
LOCATION L0001702     VOLUME   378535.910 3747243.298 18.81
LOCATION L0001703     VOLUME   378539.567 3747243.312 18.79
LOCATION L0001704     VOLUME   378543.225 3747243.326 18.78
LOCATION L0001705     VOLUME   378546.882 3747243.339 18.76
LOCATION L0001706     VOLUME   378550.540 3747243.353 18.75
LOCATION L0001707     VOLUME   378554.198 3747243.367 18.72
LOCATION L0001708     VOLUME   378557.855 3747243.380 18.70
LOCATION L0001709     VOLUME   378561.513 3747243.394 18.68
LOCATION L0001710     VOLUME   378565.170 3747243.408 18.66
LOCATION L0001711     VOLUME   378568.828 3747243.421 18.63
LOCATION L0001712     VOLUME   378572.485 3747243.435 18.61
LOCATION L0001713     VOLUME   378576.143 3747243.449 18.59
LOCATION L0001714     VOLUME   378579.801 3747243.462 18.60
LOCATION L0001715     VOLUME   378583.458 3747243.476 18.61
LOCATION L0001716     VOLUME   378587.116 3747243.490 18.62
LOCATION L0001717     VOLUME   378590.773 3747243.504 18.63
LOCATION L0001718     VOLUME   378594.431 3747243.517 18.65
LOCATION L0001719     VOLUME   378598.088 3747243.531 18.66
LOCATION L0001720     VOLUME   378601.746 3747243.545 18.67
LOCATION L0001721     VOLUME   378605.404 3747243.558 18.68
LOCATION L0001722     VOLUME   378609.061 3747243.572 18.68
LOCATION L0001723     VOLUME   378612.719 3747243.586 18.69
LOCATION L0001724     VOLUME   378616.376 3747243.599 18.69
LOCATION L0001725     VOLUME   378620.034 3747243.613 18.69
LOCATION L0001726     VOLUME   378623.692 3747243.627 18.70
LOCATION L0001727     VOLUME   378627.349 3747243.640 18.70
LOCATION L0001728     VOLUME   378631.007 3747243.654 18.68
LOCATION L0001729     VOLUME   378634.664 3747243.668 18.65
LOCATION L0001730     VOLUME   378638.322 3747243.681 18.63
LOCATION L0001731     VOLUME   378641.979 3747243.695 18.60
LOCATION L0001732     VOLUME   378645.637 3747243.709 18.57
LOCATION L0001733     VOLUME   378649.295 3747243.722 18.55
LOCATION L0001734     VOLUME   378652.952 3747243.736 18.52
LOCATION L0001735     VOLUME   378656.610 3747243.750 18.49
LOCATION L0001736     VOLUME   378660.267 3747243.763 18.47
LOCATION L0001737     VOLUME   378663.925 3747243.777 18.44
LOCATION L0001738     VOLUME   378667.582 3747243.791 18.41
LOCATION L0001739     VOLUME   378671.240 3747243.804 18.39
LOCATION L0001740     VOLUME   378674.898 3747243.818 18.36
LOCATION L0001741     VOLUME   378678.555 3747243.832 18.33
LOCATION L0001742     VOLUME   378682.213 3747243.845 18.33
LOCATION L0001743     VOLUME   378685.870 3747243.859 18.34
LOCATION L0001744     VOLUME   378689.528 3747243.873 18.35
```

```
   LOCATION L0001745     VOLUME   378693.185 3747243.886 18.35
   LOCATION L0001746     VOLUME   378696.843 3747243.900 18.36
   LOCATION L0001747     VOLUME   378700.501 3747243.914 18.36
** End of LINE VOLUME Source ID = SLINE5
** Source Parameters **
   SRCPARAM STCK1        0.0000137     3.658   366.000  51.90000     0.091
   SRCPARAM STCK2        0.0000137     3.658   366.000  51.90000     0.091
   SRCPARAM STCK3        0.0000137     3.658   366.000  51.90000     0.091
   SRCPARAM STCK4        0.0000137     3.658   366.000  51.90000     0.091
   SRCPARAM STCK5        0.0000137     3.658   366.000  51.90000     0.091
   SRCPARAM STCK6        0.0000137     3.658   366.000  51.90000     0.091
** LINE VOLUME Source ID = SLINE1
   SRCPARAM L0001010     0.00000004076      0.00      1.70      5.10
   SRCPARAM L0001011     0.00000004076      0.00      1.70      5.10
   SRCPARAM L0001012     0.00000004076      0.00      1.70      5.10
   SRCPARAM L0001013     0.00000004076      0.00      1.70      5.10
   SRCPARAM L0001014     0.00000004076      0.00      1.70      5.10
   SRCPARAM L0001015     0.00000004076      0.00      1.70      5.10
   SRCPARAM L0001016     0.00000004076      0.00      1.70      5.10
   SRCPARAM L0001017     0.00000004076      0.00      1.70      5.10
   SRCPARAM L0001018     0.00000004076      0.00      1.70      5.10
   SRCPARAM L0001019     0.00000004076      0.00      1.70      5.10
   SRCPARAM L0001020     0.00000004076      0.00      1.70      5.10
   SRCPARAM L0001021     0.00000004076      0.00      1.70      5.10
   SRCPARAM L0001022     0.00000004076      0.00      1.70      5.10
   SRCPARAM L0001023     0.00000004076      0.00      1.70      5.10
   SRCPARAM L0001024     0.00000004076      0.00      1.70      5.10
   SRCPARAM L0001025     0.00000004076      0.00      1.70      5.10
   SRCPARAM L0001026     0.00000004076      0.00      1.70      5.10
   SRCPARAM L0001027     0.00000004076      0.00      1.70      5.10
   SRCPARAM L0001028     0.00000004076      0.00      1.70      5.10
   SRCPARAM L0001029     0.00000004076      0.00      1.70      5.10
   SRCPARAM L0001030     0.00000004076      0.00      1.70      5.10
   SRCPARAM L0001031     0.00000004076      0.00      1.70      5.10
   SRCPARAM L0001032     0.00000004076      0.00      1.70      5.10
   SRCPARAM L0001033     0.00000004076      0.00      1.70      5.10
   SRCPARAM L0001034     0.00000004076      0.00      1.70      5.10
   SRCPARAM L0001035     0.00000004076      0.00      1.70      5.10
   SRCPARAM L0001036     0.00000004076      0.00      1.70      5.10
   SRCPARAM L0001037     0.00000004076      0.00      1.70      5.10
   SRCPARAM L0001038     0.00000004076      0.00      1.70      5.10
   SRCPARAM L0001039     0.00000004076      0.00      1.70      5.10
   SRCPARAM L0001040     0.00000004076      0.00      1.70      5.10
   SRCPARAM L0001041     0.00000004076      0.00      1.70      5.10
   SRCPARAM L0001042     0.00000004076      0.00      1.70      5.10
   SRCPARAM L0001043     0.00000004076      0.00      1.70      5.10
   SRCPARAM L0001044     0.00000004076      0.00      1.70      5.10
   SRCPARAM L0001045     0.00000004076      0.00      1.70      5.10
   SRCPARAM L0001046     0.00000004076      0.00      1.70      5.10
   SRCPARAM L0001047     0.00000004076      0.00      1.70      5.10
   SRCPARAM L0001048     0.00000004076      0.00      1.70      5.10
```

```
   SRCPARAM L0001049     0.00000004076      0.00      1.70      5.10
   SRCPARAM L0001050     0.00000004076      0.00      1.70      5.10
   SRCPARAM L0001051     0.00000004076      0.00      1.70      5.10
   SRCPARAM L0001052     0.00000004076      0.00      1.70      5.10
   SRCPARAM L0001053     0.00000004076      0.00      1.70      5.10
   SRCPARAM L0001054     0.00000004076      0.00      1.70      5.10
   SRCPARAM L0001055     0.00000004076      0.00      1.70      5.10
   SRCPARAM L0001056     0.00000004076      0.00      1.70      5.10
   SRCPARAM L0001057     0.00000004076      0.00      1.70      5.10
   SRCPARAM L0001058     0.00000004076      0.00      1.70      5.10
   SRCPARAM L0001059     0.00000004076      0.00      1.70      5.10
   SRCPARAM L0001060     0.00000004076      0.00      1.70      5.10
   SRCPARAM L0001061     0.00000004076      0.00      1.70      5.10
   SRCPARAM L0001062     0.00000004076      0.00      1.70      5.10
   SRCPARAM L0001063     0.00000004076      0.00      1.70      5.10
   SRCPARAM L0001064     0.00000004076      0.00      1.70      5.10
   SRCPARAM L0001065     0.00000004076      0.00      1.70      5.10
   SRCPARAM L0001066     0.00000004076      0.00      1.70      5.10
   SRCPARAM L0001067     0.00000004076      0.00      1.70      5.10
   SRCPARAM L0001068     0.00000004076      0.00      1.70      5.10
   SRCPARAM L0001069     0.00000004076      0.00      1.70      5.10
   SRCPARAM L0001070     0.00000004076      0.00      1.70      5.10
   SRCPARAM L0001071     0.00000004076      0.00      1.70      5.10
   SRCPARAM L0001072     0.00000004076      0.00      1.70      5.10
   SRCPARAM L0001073     0.00000004076      0.00      1.70      5.10
   SRCPARAM L0001074     0.00000004076      0.00      1.70      5.10
   SRCPARAM L0001075     0.00000004076      0.00      1.70      5.10
   SRCPARAM L0001076     0.00000004076      0.00      1.70      5.10
   SRCPARAM L0001077     0.00000004076      0.00      1.70      5.10
   SRCPARAM L0001078     0.00000004076      0.00      1.70      5.10
   SRCPARAM L0001079     0.00000004076      0.00      1.70      5.10
   SRCPARAM L0001080     0.00000004076      0.00      1.70      5.10
   SRCPARAM L0001081     0.00000004076      0.00      1.70      5.10
   SRCPARAM L0001082     0.00000004076      0.00      1.70      5.10
   SRCPARAM L0001083     0.00000004076      0.00      1.70      5.10
   SRCPARAM L0001084     0.00000004076      0.00      1.70      5.10
   SRCPARAM L0001085     0.00000004076      0.00      1.70      5.10
   SRCPARAM L0001086     0.00000004076      0.00      1.70      5.10
   SRCPARAM L0001087     0.00000004076      0.00      1.70      5.10
   SRCPARAM L0001088     0.00000004076      0.00      1.70      5.10
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE2
   SRCPARAM L0001089     0.00000004085      0.00      1.70      5.10
   SRCPARAM L0001090     0.00000004085      0.00      1.70      5.10
   SRCPARAM L0001091     0.00000004085      0.00      1.70      5.10
   SRCPARAM L0001092     0.00000004085      0.00      1.70      5.10
   SRCPARAM L0001093     0.00000004085      0.00      1.70      5.10
   SRCPARAM L0001094     0.00000004085      0.00      1.70      5.10
   SRCPARAM L0001095     0.00000004085      0.00      1.70      5.10
   SRCPARAM L0001096     0.00000004085      0.00      1.70      5.10
   SRCPARAM L0001097     0.00000004085      0.00      1.70      5.10
```

```
   SRCPARAM L0001098     0.00000004085      0.00      1.70      5.10
   SRCPARAM L0001099     0.00000004085      0.00      1.70      5.10
   SRCPARAM L0001100     0.00000004085      0.00      1.70      5.10
   SRCPARAM L0001101     0.00000004085      0.00      1.70      5.10
   SRCPARAM L0001102     0.00000004085      0.00      1.70      5.10
   SRCPARAM L0001103     0.00000004085      0.00      1.70      5.10
   SRCPARAM L0001104     0.00000004085      0.00      1.70      5.10
   SRCPARAM L0001105     0.00000004085      0.00      1.70      5.10
   SRCPARAM L0001106     0.00000004085      0.00      1.70      5.10
   SRCPARAM L0001107     0.00000004085      0.00      1.70      5.10
   SRCPARAM L0001108     0.00000004085      0.00      1.70      5.10
   SRCPARAM L0001109     0.00000004085      0.00      1.70      5.10
   SRCPARAM L0001110     0.00000004085      0.00      1.70      5.10
   SRCPARAM L0001111     0.00000004085      0.00      1.70      5.10
   SRCPARAM L0001112     0.00000004085      0.00      1.70      5.10
   SRCPARAM L0001113     0.00000004085      0.00      1.70      5.10
   SRCPARAM L0001114     0.00000004085      0.00      1.70      5.10
   SRCPARAM L0001115     0.00000004085      0.00      1.70      5.10
   SRCPARAM L0001116     0.00000004085      0.00      1.70      5.10
   SRCPARAM L0001117     0.00000004085      0.00      1.70      5.10
   SRCPARAM L0001118     0.00000004085      0.00      1.70      5.10
   SRCPARAM L0001119     0.00000004085      0.00      1.70      5.10
   SRCPARAM L0001120     0.00000004085      0.00      1.70      5.10
   SRCPARAM L0001121     0.00000004085      0.00      1.70      5.10
   SRCPARAM L0001122     0.00000004085      0.00      1.70      5.10
   SRCPARAM L0001123     0.00000004085      0.00      1.70      5.10
   SRCPARAM L0001124     0.00000004085      0.00      1.70      5.10
   SRCPARAM L0001125     0.00000004085      0.00      1.70      5.10
   SRCPARAM L0001126     0.00000004085      0.00      1.70      5.10
   SRCPARAM L0001127     0.00000004085      0.00      1.70      5.10
   SRCPARAM L0001128     0.00000004085      0.00      1.70      5.10
   SRCPARAM L0001129     0.00000004085      0.00      1.70      5.10
   SRCPARAM L0001130     0.00000004085      0.00      1.70      5.10
   SRCPARAM L0001131     0.00000004085      0.00      1.70      5.10
   SRCPARAM L0001132     0.00000004085      0.00      1.70      5.10
   SRCPARAM L0001133     0.00000004085      0.00      1.70      5.10
   SRCPARAM L0001134     0.00000004085      0.00      1.70      5.10
   SRCPARAM L0001135     0.00000004085      0.00      1.70      5.10
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE3
   SRCPARAM L0001136     0.0000000425      0.00      1.70      0.85
   SRCPARAM L0001137     0.0000000425      0.00      1.70      0.85
   SRCPARAM L0001138     0.0000000425      0.00      1.70      0.85
   SRCPARAM L0001139     0.0000000425      0.00      1.70      0.85
   SRCPARAM L0001140     0.0000000425      0.00      1.70      0.85
   SRCPARAM L0001141     0.0000000425      0.00      1.70      0.85
   SRCPARAM L0001142     0.0000000425      0.00      1.70      0.85
   SRCPARAM L0001143     0.0000000425      0.00      1.70      0.85
   SRCPARAM L0001144     0.0000000425      0.00      1.70      0.85
   SRCPARAM L0001145     0.0000000425      0.00      1.70      0.85
   SRCPARAM L0001146     0.0000000425      0.00      1.70      0.85
```

```
SRCPARAM L0001147     0.0000000425      0.00      1.70      0.85
SRCPARAM L0001148     0.0000000425      0.00      1.70      0.85
SRCPARAM L0001149     0.0000000425      0.00      1.70      0.85
SRCPARAM L0001150     0.0000000425      0.00      1.70      0.85
SRCPARAM L0001151     0.0000000425      0.00      1.70      0.85
SRCPARAM L0001152     0.0000000425      0.00      1.70      0.85
SRCPARAM L0001153     0.0000000425      0.00      1.70      0.85
SRCPARAM L0001154     0.0000000425      0.00      1.70      0.85
SRCPARAM L0001155     0.0000000425      0.00      1.70      0.85
SRCPARAM L0001156     0.0000000425      0.00      1.70      0.85
SRCPARAM L0001157     0.0000000425      0.00      1.70      0.85
SRCPARAM L0001158     0.0000000425      0.00      1.70      0.85
SRCPARAM L0001159     0.0000000425      0.00      1.70      0.85
SRCPARAM L0001160     0.0000000425      0.00      1.70      0.85
SRCPARAM L0001161     0.0000000425      0.00      1.70      0.85
SRCPARAM L0001162     0.0000000425      0.00      1.70      0.85
SRCPARAM L0001163     0.0000000425      0.00      1.70      0.85
SRCPARAM L0001164     0.0000000425      0.00      1.70      0.85
SRCPARAM L0001165     0.0000000425      0.00      1.70      0.85
SRCPARAM L0001166     0.0000000425      0.00      1.70      0.85
SRCPARAM L0001167     0.0000000425      0.00      1.70      0.85
SRCPARAM L0001168     0.0000000425      0.00      1.70      0.85
SRCPARAM L0001169     0.0000000425      0.00      1.70      0.85
SRCPARAM L0001170     0.0000000425      0.00      1.70      0.85
SRCPARAM L0001171     0.0000000425      0.00      1.70      0.85
SRCPARAM L0001172     0.0000000425      0.00      1.70      0.85
SRCPARAM L0001173     0.0000000425      0.00      1.70      0.85
SRCPARAM L0001174     0.0000000425      0.00      1.70      0.85
SRCPARAM L0001175     0.0000000425      0.00      1.70      0.85
SRCPARAM L0001176     0.0000000425      0.00      1.70      0.85
SRCPARAM L0001177     0.0000000425      0.00      1.70      0.85
SRCPARAM L0001178     0.0000000425      0.00      1.70      0.85
SRCPARAM L0001179     0.0000000425      0.00      1.70      0.85
SRCPARAM L0001180     0.0000000425      0.00      1.70      0.85
SRCPARAM L0001181     0.0000000425      0.00      1.70      0.85
SRCPARAM L0001182     0.0000000425      0.00      1.70      0.85
SRCPARAM L0001183     0.0000000425      0.00      1.70      0.85
SRCPARAM L0001184     0.0000000425      0.00      1.70      0.85
SRCPARAM L0001185     0.0000000425      0.00      1.70      0.85
SRCPARAM L0001186     0.0000000425      0.00      1.70      0.85
SRCPARAM L0001187     0.0000000425      0.00      1.70      0.85
SRCPARAM L0001188     0.0000000425      0.00      1.70      0.85
SRCPARAM L0001189     0.0000000425      0.00      1.70      0.85
SRCPARAM L0001190     0.0000000425      0.00      1.70      0.85
SRCPARAM L0001191     0.0000000425      0.00      1.70      0.85
SRCPARAM L0001192     0.0000000425      0.00      1.70      0.85
SRCPARAM L0001193     0.0000000425      0.00      1.70      0.85
SRCPARAM L0001194     0.0000000425      0.00      1.70      0.85
SRCPARAM L0001195     0.0000000425      0.00      1.70      0.85
SRCPARAM L0001196     0.0000000425      0.00      1.70      0.85
SRCPARAM L0001197     0.0000000425      0.00      1.70      0.85
```

```
SRCPARAM L0001198     0.0000000425      0.00      1.70      0.85
SRCPARAM L0001199     0.0000000425      0.00      1.70      0.85
SRCPARAM L0001200     0.0000000425      0.00      1.70      0.85
SRCPARAM L0001201     0.0000000425      0.00      1.70      0.85
SRCPARAM L0001202     0.0000000425      0.00      1.70      0.85
SRCPARAM L0001203     0.0000000425      0.00      1.70      0.85
SRCPARAM L0001204     0.0000000425      0.00      1.70      0.85
SRCPARAM L0001205     0.0000000425      0.00      1.70      0.85
SRCPARAM L0001206     0.0000000425      0.00      1.70      0.85
SRCPARAM L0001207     0.0000000425      0.00      1.70      0.85
SRCPARAM L0001208     0.0000000425      0.00      1.70      0.85
SRCPARAM L0001209     0.0000000425      0.00      1.70      0.85
SRCPARAM L0001210     0.0000000425      0.00      1.70      0.85
SRCPARAM L0001211     0.0000000425      0.00      1.70      0.85
SRCPARAM L0001212     0.0000000425      0.00      1.70      0.85
SRCPARAM L0001213     0.0000000425      0.00      1.70      0.85
SRCPARAM L0001214     0.0000000425      0.00      1.70      0.85
SRCPARAM L0001215     0.0000000425      0.00      1.70      0.85
SRCPARAM L0001216     0.0000000425      0.00      1.70      0.85
SRCPARAM L0001217     0.0000000425      0.00      1.70      0.85
SRCPARAM L0001218     0.0000000425      0.00      1.70      0.85
SRCPARAM L0001219     0.0000000425      0.00      1.70      0.85
SRCPARAM L0001220     0.0000000425      0.00      1.70      0.85
SRCPARAM L0001221     0.0000000425      0.00      1.70      0.85
SRCPARAM L0001222     0.0000000425      0.00      1.70      0.85
SRCPARAM L0001223     0.0000000425      0.00      1.70      0.85
SRCPARAM L0001224     0.0000000425      0.00      1.70      0.85
SRCPARAM L0001225     0.0000000425      0.00      1.70      0.85
SRCPARAM L0001226     0.0000000425      0.00      1.70      0.85
SRCPARAM L0001227     0.0000000425      0.00      1.70      0.85
SRCPARAM L0001228     0.0000000425      0.00      1.70      0.85
SRCPARAM L0001229     0.0000000425      0.00      1.70      0.85
SRCPARAM L0001230     0.0000000425      0.00      1.70      0.85
SRCPARAM L0001231     0.0000000425      0.00      1.70      0.85
SRCPARAM L0001232     0.0000000425      0.00      1.70      0.85
SRCPARAM L0001233     0.0000000425      0.00      1.70      0.85
SRCPARAM L0001234     0.0000000425      0.00      1.70      0.85
SRCPARAM L0001235     0.0000000425      0.00      1.70      0.85
SRCPARAM L0001236     0.0000000425      0.00      1.70      0.85
SRCPARAM L0001237     0.0000000425      0.00      1.70      0.85
SRCPARAM L0001238     0.0000000425      0.00      1.70      0.85
SRCPARAM L0001239     0.0000000425      0.00      1.70      0.85
SRCPARAM L0001240     0.0000000425      0.00      1.70      0.85
SRCPARAM L0001241     0.0000000425      0.00      1.70      0.85
SRCPARAM L0001242     0.0000000425      0.00      1.70      0.85
SRCPARAM L0001243     0.0000000425      0.00      1.70      0.85
SRCPARAM L0001244     0.0000000425      0.00      1.70      0.85
SRCPARAM L0001245     0.0000000425      0.00      1.70      0.85
SRCPARAM L0001246     0.0000000425      0.00      1.70      0.85
SRCPARAM L0001247     0.0000000425      0.00      1.70      0.85
SRCPARAM L0001248     0.0000000425      0.00      1.70      0.85
```

```
   SRCPARAM L0001249     0.0000000425      0.00      1.70      0.85
   SRCPARAM L0001250     0.0000000425      0.00      1.70      0.85
   SRCPARAM L0001251     0.0000000425      0.00      1.70      0.85
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE4
   SRCPARAM L0001252     0.0000000188      0.00      1.70      0.85
   SRCPARAM L0001253     0.0000000188      0.00      1.70      0.85
   SRCPARAM L0001254     0.0000000188      0.00      1.70      0.85
   SRCPARAM L0001255     0.0000000188      0.00      1.70      0.85
   SRCPARAM L0001256     0.0000000188      0.00      1.70      0.85
   SRCPARAM L0001257     0.0000000188      0.00      1.70      0.85
   SRCPARAM L0001258     0.0000000188      0.00      1.70      0.85
   SRCPARAM L0001259     0.0000000188      0.00      1.70      0.85
   SRCPARAM L0001260     0.0000000188      0.00      1.70      0.85
   SRCPARAM L0001261     0.0000000188      0.00      1.70      0.85
   SRCPARAM L0001262     0.0000000188      0.00      1.70      0.85
   SRCPARAM L0001263     0.0000000188      0.00      1.70      0.85
   SRCPARAM L0001264     0.0000000188      0.00      1.70      0.85
   SRCPARAM L0001265     0.0000000188      0.00      1.70      0.85
   SRCPARAM L0001266     0.0000000188      0.00      1.70      0.85
   SRCPARAM L0001267     0.0000000188      0.00      1.70      0.85
   SRCPARAM L0001268     0.0000000188      0.00      1.70      0.85
   SRCPARAM L0001269     0.0000000188      0.00      1.70      0.85
   SRCPARAM L0001270     0.0000000188      0.00      1.70      0.85
   SRCPARAM L0001271     0.0000000188      0.00      1.70      0.85
   SRCPARAM L0001272     0.0000000188      0.00      1.70      0.85
   SRCPARAM L0001273     0.0000000188      0.00      1.70      0.85
   SRCPARAM L0001274     0.0000000188      0.00      1.70      0.85
   SRCPARAM L0001275     0.0000000188      0.00      1.70      0.85
   SRCPARAM L0001276     0.0000000188      0.00      1.70      0.85
   SRCPARAM L0001277     0.0000000188      0.00      1.70      0.85
   SRCPARAM L0001278     0.0000000188      0.00      1.70      0.85
   SRCPARAM L0001279     0.0000000188      0.00      1.70      0.85
   SRCPARAM L0001280     0.0000000188      0.00      1.70      0.85
   SRCPARAM L0001281     0.0000000188      0.00      1.70      0.85
   SRCPARAM L0001282     0.0000000188      0.00      1.70      0.85
   SRCPARAM L0001283     0.0000000188      0.00      1.70      0.85
   SRCPARAM L0001284     0.0000000188      0.00      1.70      0.85
   SRCPARAM L0001285     0.0000000188      0.00      1.70      0.85
   SRCPARAM L0001286     0.0000000188      0.00      1.70      0.85
   SRCPARAM L0001287     0.0000000188      0.00      1.70      0.85
   SRCPARAM L0001288     0.0000000188      0.00      1.70      0.85
   SRCPARAM L0001289     0.0000000188      0.00      1.70      0.85
   SRCPARAM L0001290     0.0000000188      0.00      1.70      0.85
   SRCPARAM L0001291     0.0000000188      0.00      1.70      0.85
   SRCPARAM L0001292     0.0000000188      0.00      1.70      0.85
   SRCPARAM L0001293     0.0000000188      0.00      1.70      0.85
   SRCPARAM L0001294     0.0000000188      0.00      1.70      0.85
   SRCPARAM L0001295     0.0000000188      0.00      1.70      0.85
   SRCPARAM L0001296     0.0000000188      0.00      1.70      0.85
   SRCPARAM L0001297     0.0000000188      0.00      1.70      0.85
```

```
   SRCPARAM L0001298     0.0000000188      0.00      1.70      0.85
   SRCPARAM L0001299     0.0000000188      0.00      1.70      0.85
   SRCPARAM L0001300     0.0000000188      0.00      1.70      0.85
   SRCPARAM L0001301     0.0000000188      0.00      1.70      0.85
   SRCPARAM L0001302     0.0000000188      0.00      1.70      0.85
   SRCPARAM L0001303     0.0000000188      0.00      1.70      0.85
   SRCPARAM L0001304     0.0000000188      0.00      1.70      0.85
   SRCPARAM L0001305     0.0000000188      0.00      1.70      0.85
   SRCPARAM L0001306     0.0000000188      0.00      1.70      0.85
   SRCPARAM L0001307     0.0000000188      0.00      1.70      0.85
   SRCPARAM L0001308     0.0000000188      0.00      1.70      0.85
   SRCPARAM L0001309     0.0000000188      0.00      1.70      0.85
   SRCPARAM L0001310     0.0000000188      0.00      1.70      0.85
   SRCPARAM L0001311     0.0000000188      0.00      1.70      0.85
   SRCPARAM L0001312     0.0000000188      0.00      1.70      0.85
   SRCPARAM L0001313     0.0000000188      0.00      1.70      0.85
   SRCPARAM L0001314     0.0000000188      0.00      1.70      0.85
   SRCPARAM L0001315     0.0000000188      0.00      1.70      0.85
   SRCPARAM L0001316     0.0000000188      0.00      1.70      0.85
   SRCPARAM L0001317     0.0000000188      0.00      1.70      0.85
   SRCPARAM L0001318     0.0000000188      0.00      1.70      0.85
   SRCPARAM L0001319     0.0000000188      0.00      1.70      0.85
   SRCPARAM L0001320     0.0000000188      0.00      1.70      0.85
   SRCPARAM L0001321     0.0000000188      0.00      1.70      0.85
   SRCPARAM L0001322     0.0000000188      0.00      1.70      0.85
   SRCPARAM L0001323     0.0000000188      0.00      1.70      0.85
   SRCPARAM L0001324     0.0000000188      0.00      1.70      0.85
   SRCPARAM L0001325     0.0000000188      0.00      1.70      0.85
   SRCPARAM L0001326     0.0000000188      0.00      1.70      0.85
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE5
   SRCPARAM L0001327     0.00000003064      0.00      1.70      0.85
   SRCPARAM L0001328     0.00000003064      0.00      1.70      0.85
   SRCPARAM L0001329     0.00000003064      0.00      1.70      0.85
   SRCPARAM L0001330     0.00000003064      0.00      1.70      0.85
   SRCPARAM L0001331     0.00000003064      0.00      1.70      0.85
   SRCPARAM L0001332     0.00000003064      0.00      1.70      0.85
   SRCPARAM L0001333     0.00000003064      0.00      1.70      0.85
   SRCPARAM L0001334     0.00000003064      0.00      1.70      0.85
   SRCPARAM L0001335     0.00000003064      0.00      1.70      0.85
   SRCPARAM L0001336     0.00000003064      0.00      1.70      0.85
   SRCPARAM L0001337     0.00000003064      0.00      1.70      0.85
   SRCPARAM L0001338     0.00000003064      0.00      1.70      0.85
   SRCPARAM L0001339     0.00000003064      0.00      1.70      0.85
   SRCPARAM L0001340     0.00000003064      0.00      1.70      0.85
   SRCPARAM L0001341     0.00000003064      0.00      1.70      0.85
   SRCPARAM L0001342     0.00000003064      0.00      1.70      0.85
   SRCPARAM L0001343     0.00000003064      0.00      1.70      0.85
   SRCPARAM L0001344     0.00000003064      0.00      1.70      0.85
   SRCPARAM L0001345     0.00000003064      0.00      1.70      0.85
   SRCPARAM L0001346     0.00000003064      0.00      1.70      0.85
```

```
SRCPARAM L0001347     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001348     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001349     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001350     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001351     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001352     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001353     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001354     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001355     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001356     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001357     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001358     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001359     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001360     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001361     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001362     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001363     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001364     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001365     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001366     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001367     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001368     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001369     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001370     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001371     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001372     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001373     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001374     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001375     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001376     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001377     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001378     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001379     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001380     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001381     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001382     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001383     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001384     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001385     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001386     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001387     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001388     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001389     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001390     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001391     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001392     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001393     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001394     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001395     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001396     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001397     0.00000003064      0.00      1.70      0.85
```

```
SRCPARAM L0001398     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001399     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001400     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001401     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001402     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001403     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001404     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001405     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001406     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001407     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001408     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001409     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001410     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001411     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001412     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001413     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001414     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001415     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001416     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001417     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001418     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001419     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001420     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001421     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001422     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001423     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001424     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001425     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001426     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001427     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001428     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001429     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001430     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001431     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001432     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001433     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001434     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001435     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001436     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001437     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001438     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001439     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001440     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001441     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001442     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001443     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001444     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001445     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001446     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001447     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001448     0.00000003064      0.00      1.70      0.85
```

```
SRCPARAM L0001449     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001450     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001451     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001452     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001453     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001454     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001455     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001456     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001457     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001458     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001459     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001460     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001461     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001462     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001463     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001464     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001465     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001466     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001467     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001468     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001469     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001470     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001471     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001472     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001473     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001474     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001475     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001476     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001477     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001478     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001479     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001480     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001481     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001482     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001483     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001484     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001485     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001486     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001487     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001488     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001489     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001490     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001491     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001492     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001493     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001494     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001495     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001496     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001497     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001498     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001499     0.00000003064      0.00      1.70      0.85
```

```
SRCPARAM L0001500     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001501     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001502     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001503     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001504     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001505     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001506     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001507     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001508     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001509     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001510     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001511     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001512     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001513     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001514     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001515     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001516     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001517     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001518     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001519     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001520     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001521     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001522     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001523     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001524     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001525     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001526     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001527     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001528     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001529     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001530     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001531     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001532     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001533     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001534     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001535     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001536     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001537     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001538     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001539     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001540     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001541     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001542     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001543     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001544     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001545     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001546     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001547     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001548     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001549     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001550     0.00000003064      0.00      1.70      0.85
```

```
SRCPARAM L0001551     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001552     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001553     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001554     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001555     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001556     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001557     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001558     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001559     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001560     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001561     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001562     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001563     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001564     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001565     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001566     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001567     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001568     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001569     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001570     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001571     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001572     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001573     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001574     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001575     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001576     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001577     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001578     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001579     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001580     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001581     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001582     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001583     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001584     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001585     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001586     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001587     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001588     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001589     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001590     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001591     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001592     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001593     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001594     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001595     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001596     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001597     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001598     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001599     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001600     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001601     0.00000003064      0.00      1.70      0.85
```

```
SRCPARAM L0001602     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001603     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001604     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001605     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001606     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001607     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001608     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001609     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001610     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001611     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001612     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001613     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001614     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001615     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001616     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001617     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001618     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001619     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001620     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001621     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001622     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001623     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001624     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001625     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001626     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001627     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001628     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001629     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001630     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001631     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001632     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001633     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001634     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001635     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001636     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001637     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001638     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001639     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001640     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001641     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001642     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001643     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001644     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001645     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001646     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001647     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001648     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001649     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001650     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001651     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001652     0.00000003064      0.00      1.70      0.85
```

```
SRCPARAM L0001653     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001654     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001655     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001656     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001657     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001658     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001659     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001660     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001661     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001662     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001663     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001664     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001665     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001666     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001667     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001668     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001669     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001670     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001671     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001672     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001673     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001674     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001675     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001676     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001677     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001678     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001679     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001680     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001681     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001682     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001683     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001684     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001685     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001686     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001687     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001688     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001689     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001690     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001691     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001692     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001693     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001694     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001695     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001696     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001697     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001698     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001699     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001700     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001701     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001702     0.00000003064      0.00      1.70      0.85
SRCPARAM L0001703     0.00000003064      0.00      1.70      0.85
```

```
   SRCPARAM L0001704     0.00000003064      0.00      1.70      0.85
   SRCPARAM L0001705     0.00000003064      0.00      1.70      0.85
   SRCPARAM L0001706     0.00000003064      0.00      1.70      0.85
   SRCPARAM L0001707     0.00000003064      0.00      1.70      0.85
   SRCPARAM L0001708     0.00000003064      0.00      1.70      0.85
   SRCPARAM L0001709     0.00000003064      0.00      1.70      0.85
   SRCPARAM L0001710     0.00000003064      0.00      1.70      0.85
   SRCPARAM L0001711     0.00000003064      0.00      1.70      0.85
   SRCPARAM L0001712     0.00000003064      0.00      1.70      0.85
   SRCPARAM L0001713     0.00000003064      0.00      1.70      0.85
   SRCPARAM L0001714     0.00000003064      0.00      1.70      0.85
   SRCPARAM L0001715     0.00000003064      0.00      1.70      0.85
   SRCPARAM L0001716     0.00000003064      0.00      1.70      0.85
   SRCPARAM L0001717     0.00000003064      0.00      1.70      0.85
   SRCPARAM L0001718     0.00000003064      0.00      1.70      0.85
   SRCPARAM L0001719     0.00000003064      0.00      1.70      0.85
   SRCPARAM L0001720     0.00000003064      0.00      1.70      0.85
   SRCPARAM L0001721     0.00000003064      0.00      1.70      0.85
   SRCPARAM L0001722     0.00000003064      0.00      1.70      0.85
   SRCPARAM L0001723     0.00000003064      0.00      1.70      0.85
   SRCPARAM L0001724     0.00000003064      0.00      1.70      0.85
   SRCPARAM L0001725     0.00000003064      0.00      1.70      0.85
   SRCPARAM L0001726     0.00000003064      0.00      1.70      0.85
   SRCPARAM L0001727     0.00000003064      0.00      1.70      0.85
   SRCPARAM L0001728     0.00000003064      0.00      1.70      0.85
   SRCPARAM L0001729     0.00000003064      0.00      1.70      0.85
   SRCPARAM L0001730     0.00000003064      0.00      1.70      0.85
   SRCPARAM L0001731     0.00000003064      0.00      1.70      0.85
   SRCPARAM L0001732     0.00000003064      0.00      1.70      0.85
   SRCPARAM L0001733     0.00000003064      0.00      1.70      0.85
   SRCPARAM L0001734     0.00000003064      0.00      1.70      0.85
   SRCPARAM L0001735     0.00000003064      0.00      1.70      0.85
   SRCPARAM L0001736     0.00000003064      0.00      1.70      0.85
   SRCPARAM L0001737     0.00000003064      0.00      1.70      0.85
   SRCPARAM L0001738     0.00000003064      0.00      1.70      0.85
   SRCPARAM L0001739     0.00000003064      0.00      1.70      0.85
   SRCPARAM L0001740     0.00000003064      0.00      1.70      0.85
   SRCPARAM L0001741     0.00000003064      0.00      1.70      0.85
   SRCPARAM L0001742     0.00000003064      0.00      1.70      0.85
   SRCPARAM L0001743     0.00000003064      0.00      1.70      0.85
   SRCPARAM L0001744     0.00000003064      0.00      1.70      0.85
   SRCPARAM L0001745     0.00000003064      0.00      1.70      0.85
   SRCPARAM L0001746     0.00000003064      0.00      1.70      0.85
   SRCPARAM L0001747     0.00000003064      0.00      1.70      0.85
** ------------------------------------------------------------------

** Building Downwash **
   BUILDHGT STCK1           10.97    10.97    10.97    10.97    10.97    10.97
   BUILDHGT STCK1           10.97    10.97    10.97    10.97    10.97    10.97
   BUILDHGT STCK1           10.97    10.97    10.97    10.97    10.97    10.97
   BUILDHGT STCK1           10.97    10.97    10.97    10.97    10.97    10.97
```

| | | | | | | |
|---|---|---|---|---|---|---|
| BUILDHGT STCK1 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 |
| BUILDHGT STCK1 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 |
| BUILDHGT STCK2 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 |
| BUILDHGT STCK2 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 |
| BUILDHGT STCK2 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 |
| BUILDHGT STCK2 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 |
| BUILDHGT STCK2 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 |
| BUILDHGT STCK2 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 |
| BUILDHGT STCK3 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 |
| BUILDHGT STCK3 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 |
| BUILDHGT STCK3 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 |
| BUILDHGT STCK3 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 |
| BUILDHGT STCK3 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 |
| BUILDHGT STCK3 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 |
| BUILDHGT STCK4 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 |
| BUILDHGT STCK4 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 |
| BUILDHGT STCK4 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 |
| BUILDHGT STCK4 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 |
| BUILDHGT STCK4 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 |
| BUILDHGT STCK4 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 |
| BUILDHGT STCK5 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 |
| BUILDHGT STCK5 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 |
| BUILDHGT STCK5 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 |
| BUILDHGT STCK5 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 |
| BUILDHGT STCK5 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 |
| BUILDHGT STCK5 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 |
| BUILDHGT STCK6 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 |
| BUILDHGT STCK6 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 |
| BUILDHGT STCK6 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 |
| BUILDHGT STCK6 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 |
| BUILDHGT STCK6 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 |
| BUILDHGT STCK6 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 |
| BUILDWID STCK1 | 264.00 | 270.42 | 268.61 | 258.65 | 240.82 | 215.68 |
| BUILDWID STCK1 | 183.99 | 146.70 | 107.24 | 144.21 | 176.80 | 205.75 |
| BUILDWID STCK1 | 231.78 | 250.76 | 262.13 | 265.53 | 260.86 | 249.57 |
| BUILDWID STCK1 | 264.00 | 270.42 | 268.61 | 258.65 | 240.82 | 215.68 |
| BUILDWID STCK1 | 183.99 | 146.70 | 107.24 | 144.21 | 176.80 | 205.75 |
| BUILDWID STCK1 | 231.78 | 250.76 | 262.13 | 265.53 | 260.86 | 249.57 |
| BUILDWID STCK2 | 264.00 | 270.42 | 268.61 | 258.65 | 240.82 | 215.68 |
| BUILDWID STCK2 | 183.99 | 146.70 | 107.24 | 144.21 | 176.80 | 205.75 |
| BUILDWID STCK2 | 231.78 | 250.76 | 262.13 | 265.53 | 260.86 | 249.57 |
| BUILDWID STCK2 | 264.00 | 270.42 | 268.61 | 258.65 | 240.82 | 215.68 |
| BUILDWID STCK2 | 183.99 | 146.70 | 107.24 | 144.21 | 176.80 | 205.75 |
| BUILDWID STCK2 | 231.78 | 250.76 | 262.13 | 265.53 | 260.86 | 249.57 |

```
BUILDWID STCK3          264.00   270.42   268.61   258.65   240.82   215.68
BUILDWID STCK3          183.99   146.70   107.24   144.21   176.80   205.75
BUILDWID STCK3          231.78   250.76   262.13   265.53   260.86   249.57
BUILDWID STCK3          264.00   270.42   268.61   258.65   240.82   215.68
BUILDWID STCK3          183.99   146.70   107.24   144.21   176.80   205.75
BUILDWID STCK3          231.78   250.76   262.13   265.53   260.86   249.57

BUILDWID STCK4          264.00   270.42   268.61   258.65   240.82   215.68
BUILDWID STCK4          183.99   146.70   107.24   144.21   176.80   205.75
BUILDWID STCK4          231.78   250.76   262.13   265.53   260.86   249.57
BUILDWID STCK4          264.00   270.42   268.61   258.65   240.82   215.68
BUILDWID STCK4          183.99   146.70   107.24   144.21   176.80   205.75
BUILDWID STCK4          231.78   250.76   262.13   265.53   260.86   249.57

BUILDWID STCK5          264.00   270.42   268.61   258.65   240.82   215.68
BUILDWID STCK5          183.99   146.70   107.24   144.21   176.80   205.75
BUILDWID STCK5          231.78   250.76   262.13   265.53   260.86   249.57
BUILDWID STCK5          264.00   270.42   268.61   258.65   240.82   215.68
BUILDWID STCK5          183.99   146.70   107.24   144.21   176.80   205.75
BUILDWID STCK5          231.78   250.76   262.13   265.53   260.86   249.57

BUILDWID STCK6          264.00   270.42   268.61   258.65   240.82   215.68
BUILDWID STCK6          183.99   146.70   107.24   144.21   176.80   205.75
BUILDWID STCK6          231.78   250.76   262.13   265.53   260.86   249.57
BUILDWID STCK6          264.00   270.42   268.61   258.65   240.82   215.68
BUILDWID STCK6          183.99   146.70   107.24   144.21   176.80   205.75
BUILDWID STCK6          231.78   250.76   262.13   265.53   260.86   249.57

BUILDLEN STCK1          144.21   176.80   205.75   231.78   250.76   262.13
BUILDLEN STCK1          265.53   260.86   249.57   264.00   270.42   268.61
BUILDLEN STCK1          258.65   240.82   215.68   183.99   146.70   107.24
BUILDLEN STCK1          144.21   176.80   205.75   231.78   250.76   262.13
BUILDLEN STCK1          265.53   260.86   249.57   264.00   270.42   268.61
BUILDLEN STCK1          258.65   240.82   215.68   183.99   146.70   107.24

BUILDLEN STCK2          144.21   176.80   205.75   231.78   250.76   262.13
BUILDLEN STCK2          265.53   260.86   249.57   264.00   270.42   268.61
BUILDLEN STCK2          258.65   240.82   215.68   183.99   146.70   107.24
BUILDLEN STCK2          144.21   176.80   205.75   231.78   250.76   262.13
BUILDLEN STCK2          265.53   260.86   249.57   264.00   270.42   268.61
BUILDLEN STCK2          258.65   240.82   215.68   183.99   146.70   107.24

BUILDLEN STCK3          144.21   176.80   205.75   231.78   250.76   262.13
BUILDLEN STCK3          265.53   260.86   249.57   264.00   270.42   268.61
BUILDLEN STCK3          258.65   240.82   215.68   183.99   146.70   107.24
BUILDLEN STCK3          144.21   176.80   205.75   231.78   250.76   262.13
BUILDLEN STCK3          265.53   260.86   249.57   264.00   270.42   268.61
BUILDLEN STCK3          258.65   240.82   215.68   183.99   146.70   107.24

BUILDLEN STCK4          144.21   176.80   205.75   231.78   250.76   262.13
```

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| BUILDLEN | STCK4 | 265.53 | 260.86 | 249.57 | 264.00 | 270.42 | 268.61 |
| BUILDLEN | STCK4 | 258.65 | 240.82 | 215.68 | 183.99 | 146.70 | 107.24 |
| BUILDLEN | STCK4 | 144.21 | 176.80 | 205.75 | 231.78 | 250.76 | 262.13 |
| BUILDLEN | STCK4 | 265.53 | 260.86 | 249.57 | 264.00 | 270.42 | 268.61 |
| BUILDLEN | STCK4 | 258.65 | 240.82 | 215.68 | 183.99 | 146.70 | 107.24 |
| BUILDLEN | STCK5 | 144.21 | 176.80 | 205.75 | 231.78 | 250.76 | 262.13 |
| BUILDLEN | STCK5 | 265.53 | 260.86 | 249.57 | 264.00 | 270.42 | 268.61 |
| BUILDLEN | STCK5 | 258.65 | 240.82 | 215.68 | 183.99 | 146.70 | 107.24 |
| BUILDLEN | STCK5 | 144.21 | 176.80 | 205.75 | 231.78 | 250.76 | 262.13 |
| BUILDLEN | STCK5 | 265.53 | 260.86 | 249.57 | 264.00 | 270.42 | 268.61 |
| BUILDLEN | STCK5 | 258.65 | 240.82 | 215.68 | 183.99 | 146.70 | 107.24 |
| BUILDLEN | STCK6 | 144.21 | 176.80 | 205.75 | 231.78 | 250.76 | 262.13 |
| BUILDLEN | STCK6 | 265.53 | 260.86 | 249.57 | 264.00 | 270.42 | 268.61 |
| BUILDLEN | STCK6 | 258.65 | 240.82 | 215.68 | 183.99 | 146.70 | 107.24 |
| BUILDLEN | STCK6 | 144.21 | 176.80 | 205.75 | 231.78 | 250.76 | 262.13 |
| BUILDLEN | STCK6 | 265.53 | 260.86 | 249.57 | 264.00 | 270.42 | 268.61 |
| BUILDLEN | STCK6 | 258.65 | 240.82 | 215.68 | 183.99 | 146.70 | 107.24 |
| XBADJ | STCK1 | -115.36 | -116.76 | -114.61 | -108.97 | -100.03 | -88.04 |
| XBADJ | STCK1 | -73.38 | -56.50 | -38.21 | -36.96 | -34.58 | -31.16 |
| XBADJ | STCK1 | -26.78 | -21.60 | -15.75 | -9.43 | -2.82 | 3.22 |
| XBADJ | STCK1 | -28.85 | -60.04 | -91.14 | -122.80 | -150.73 | -174.08 |
| XBADJ | STCK1 | -192.15 | -204.37 | -211.36 | -227.05 | -235.84 | -237.46 |
| XBADJ | STCK1 | -231.87 | -219.23 | -199.93 | -174.56 | -143.88 | -110.46 |
| XBADJ | STCK2 | -121.68 | -128.23 | -130.88 | -129.56 | -124.30 | -115.26 |
| XBADJ | STCK2 | -102.72 | -87.06 | -69.08 | -67.19 | -63.26 | -57.41 |
| XBADJ | STCK2 | -49.81 | -40.70 | -30.35 | -19.08 | -7.23 | 4.19 |
| XBADJ | STCK2 | -22.53 | -48.57 | -74.87 | -102.22 | -126.46 | -146.87 |
| XBADJ | STCK2 | -162.80 | -173.80 | -180.49 | -196.81 | -207.16 | -211.21 |
| XBADJ | STCK2 | -208.84 | -200.13 | -185.33 | -164.91 | -139.47 | -111.43 |
| XBADJ | STCK3 | -126.63 | -137.65 | -144.49 | -146.94 | -144.93 | -138.51 |
| XBADJ | STCK3 | -127.88 | -113.37 | -95.73 | -93.38 | -88.19 | -80.32 |
| XBADJ | STCK3 | -70.01 | -57.57 | -43.39 | -27.88 | -11.53 | 4.52 |
| XBADJ | STCK3 | -17.58 | -39.14 | -61.26 | -84.84 | -105.84 | -123.62 |
| XBADJ | STCK3 | -137.65 | -147.50 | -153.84 | -170.63 | -182.23 | -188.29 |
| XBADJ | STCK3 | -188.64 | -183.25 | -172.30 | -156.10 | -135.17 | -111.76 |
| XBADJ | STCK4 | -131.99 | -148.21 | -159.93 | -166.78 | -168.57 | -165.24 |
| XBADJ | STCK4 | -156.89 | -143.77 | -126.60 | -123.78 | -117.20 | -107.05 |
| XBADJ | STCK4 | -93.66 | -77.42 | -58.82 | -38.44 | -16.89 | 4.52 |
| XBADJ | STCK4 | -12.22 | -28.59 | -45.82 | -64.99 | -82.19 | -96.89 |
| XBADJ | STCK4 | -108.64 | -117.09 | -122.97 | -140.23 | -153.22 | -161.56 |
| XBADJ | STCK4 | -164.99 | -163.41 | -156.86 | -145.55 | -129.81 | -111.76 |
| XBADJ | STCK5 | -136.96 | -157.99 | -174.23 | -185.17 | -190.48 | -190.01 |
| XBADJ | STCK5 | -183.76 | -171.93 | -155.20 | -151.94 | -144.07 | -131.82 |
| XBADJ | STCK5 | -115.57 | -95.80 | -73.12 | -48.22 | -21.86 | 4.52 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| XBADJ | STCK5 | -7.25 | -18.80 | -31.52 | -46.61 | -60.28 | -72.12 |
| XBADJ | STCK5 | -81.77 | -88.93 | -94.37 | -112.06 | -126.35 | -136.79 |
| XBADJ | STCK5 | -143.08 | -145.02 | -142.56 | -135.76 | -124.84 | -111.76 |
| XBADJ | STCK6 | -142.35 | -168.30 | -189.13 | -204.21 | -213.10 | -215.50 |
| XBADJ | STCK6 | -211.36 | -200.80 | -184.45 | -180.69 | -171.45 | -156.99 |
| XBADJ | STCK6 | -137.77 | -114.36 | -87.47 | -57.93 | -26.62 | 4.84 |
| XBADJ | STCK6 | -1.86 | -8.50 | -16.62 | -27.56 | -37.67 | -46.63 |
| XBADJ | STCK6 | -54.17 | -60.07 | -65.12 | -83.31 | -98.97 | -111.62 |
| XBADJ | STCK6 | -120.88 | -126.47 | -128.21 | -126.06 | -120.08 | -112.08 |
| YBADJ | STCK1 | -95.04 | -100.63 | -103.15 | -102.54 | -98.82 | -92.09 |
| YBADJ | STCK1 | -82.56 | -70.53 | -56.84 | -43.26 | -28.36 | -11.73 |
| YBADJ | STCK1 | 6.92 | 25.35 | 43.02 | 59.38 | 73.94 | 86.58 |
| YBADJ | STCK1 | 95.04 | 100.63 | 103.15 | 102.54 | 98.82 | 92.09 |
| YBADJ | STCK1 | 82.56 | 70.53 | 56.84 | 43.26 | 28.36 | 11.73 |
| YBADJ | STCK1 | -6.92 | -25.35 | -43.02 | -59.38 | -73.94 | -86.58 |
| YBADJ | STCK2 | -64.81 | -71.95 | -76.90 | -79.52 | -79.72 | -77.49 |
| YBADJ | STCK2 | -72.92 | -66.12 | -57.81 | -49.57 | -39.83 | -28.01 |
| YBADJ | STCK2 | -13.67 | 1.08 | 15.80 | 30.04 | 43.37 | 55.71 |
| YBADJ | STCK2 | 64.81 | 71.95 | 76.90 | 79.52 | 79.72 | 77.49 |
| YBADJ | STCK2 | 72.92 | 66.12 | 57.81 | 49.57 | 39.83 | 28.01 |
| YBADJ | STCK2 | 13.67 | -1.08 | -15.80 | -30.04 | -43.37 | -55.71 |
| YBADJ | STCK3 | -38.62 | -47.02 | -53.99 | -59.31 | -62.84 | -64.45 |
| YBADJ | STCK3 | -64.11 | -61.82 | -58.14 | -54.53 | -49.25 | -41.62 |
| YBADJ | STCK3 | -31.05 | -19.55 | -7.44 | 4.88 | 17.06 | 29.06 |
| YBADJ | STCK3 | 38.62 | 47.02 | 53.99 | 59.31 | 62.84 | 64.45 |
| YBADJ | STCK3 | 64.11 | 61.82 | 58.14 | 54.53 | 49.25 | 41.62 |
| YBADJ | STCK3 | 31.05 | 19.55 | 7.44 | -4.88 | -17.06 | -29.06 |
| YBADJ | STCK4 | -8.22 | -18.01 | -27.25 | -35.67 | -43.00 | -49.02 |
| YBADJ | STCK4 | -53.55 | -56.46 | -58.14 | -59.89 | -59.81 | -57.05 |
| YBADJ | STCK4 | -50.90 | -43.19 | -34.18 | -24.12 | -13.34 | -1.81 |
| YBADJ | STCK4 | 8.22 | 18.01 | 27.25 | 35.67 | 43.00 | 49.02 |
| YBADJ | STCK4 | 53.55 | 56.46 | 58.14 | 59.89 | 59.81 | 57.05 |
| YBADJ | STCK4 | 50.90 | 43.19 | 34.18 | 24.12 | 13.34 | 1.81 |
| YBADJ | STCK5 | 19.94 | 8.86 | -2.48 | -13.76 | -24.61 | -34.72 |
| YBADJ | STCK5 | -43.77 | -51.49 | -58.14 | -64.85 | -69.59 | -71.35 |
| YBADJ | STCK5 | -69.28 | -65.10 | -58.95 | -51.00 | -41.50 | -30.41 |
| YBADJ | STCK5 | -19.94 | -8.86 | 2.48 | 13.76 | 24.61 | 34.72 |
| YBADJ | STCK5 | 43.77 | 51.49 | 58.14 | 64.85 | 69.59 | 71.35 |
| YBADJ | STCK5 | 69.28 | 65.10 | 58.95 | 51.00 | 41.50 | 30.41 |
| YBADJ | STCK6 | 48.69 | 36.24 | 22.69 | 8.44 | -6.06 | -20.37 |
| YBADJ | STCK6 | -34.07 | -46.73 | -58.46 | -70.25 | -79.90 | -86.25 |
| YBADJ | STCK6 | -88.33 | -87.71 | -84.44 | -78.59 | -70.36 | -59.66 |
| YBADJ | STCK6 | -48.69 | -36.24 | -22.69 | -8.44 | 6.06 | 20.37 |
| YBADJ | STCK6 | 34.07 | 46.73 | 58.46 | 70.25 | 79.90 | 86.25 |

```
   YBADJ    STCK6           88.33    87.71    84.44    78.59    70.36    59.66

   URBANSRC ALL
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED "190th Street Warehouse 2023-2024.rou"
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE "E:\New MET data\KHHR_V9_ADJU\KHHR_v9.SFC"
   PROFFILE "E:\New MET data\KHHR_V9_ADJU\KHHR_v9.PFL"
   SURFDATA 3167 2012
   UAIRDATA 3190 2012
   PROFBASE 19.0 METERS
ME FINISHED
**
**************************************
** AERMOD Output Pathway
**************************************
**
**
OU STARTING
** Auto-Generated Plotfiles
   PLOTFILE PERIOD ALL "190TH STREET WAREHOUSE 2023-2024.AD\PE00GALL.PLT" 31
   SUMMFILE "190th Street Warehouse 2023-2024.sum"
OU FINISHED


  *** Message Summary For AERMOD Model Setup ***

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

 A Total of            0 Fatal Error Message(s)
 A Total of            8 Warning Message(s)
 A Total of            0 Informational Message(s)


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

```
   ********   WARNING MESSAGES   ********
SO W320     872        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320     873        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320     874        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320     875        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320     876        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320     877        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
ME W186    1862       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used          0.50
ME W187    1862       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

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


*** AERMOD - VERSION  19191 ***   *** 190th St Warehouse 2023-2024                                    ***        05/15/20
*** AERMET - VERSION  16216 ***   *** DPM concentrations 2YR Exposure                                 ***        06:41:20
                                                                                                               PAGE   1
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                          ***     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   744 Source(s),
  for Total of    1 Urban Area(s):
  Urban Population =   9818605.0 ;  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.
       6. Urban Roughness Length of 1.0 Meter Assumed.

**Other Options Specified:
       ADJ_U*   - Use ADJ_U* option for SBL in AERMET
       CCVR_Sub - Meteorological data includes CCVR substitutions
       TEMP_Sub - Meteorological data includes TEMP substitutions

**Model Assumes No FLAGPOLE Receptor Heights.
```

```
**The User Specified a Pollutant Type of:  DPM

**Model Calculates PERIOD Averages Only

**This Run Includes:    744 Source(s);       1 Source Group(s); and     449 Receptor(s)

               with:      6 POINT(s), including
                          0 POINTCAP(s) and      0 POINTHOR(s)
                and:    738 VOLUME source(s)
                and:      0 AREA type source(s)
                and:      0 LINE source(s)
                and:      0 RLINE/RLINEXT source(s)
                and:      0 OPENPIT source(s)
                and:      0 BUOYANT LINE source(s) with      0 line(s)


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

**The AERMET Input Meteorological Data Version Date:  16216

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

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

**Misc. Inputs:  Base Elev. for Pot. Temp. Profile (m MSL) =    19.00 ;  Decay Coef. =    0.000     ;  Rot. Angle =     0.0
                 Emission Units = GRAMS/SEC                           ;  Emission Rate Unit Factor =   0.10000E+07
                 Output Units   = MICROGRAMS/M**3

**Approximate Storage Requirements of Model =      4.9 MB of RAM.

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

**Detailed Error/Message File:   190th Street Warehouse 2023-2024.err
**File for Summary of Results:   190th Street Warehouse 2023-2024.sum

*** AERMOD - VERSION  19191 ***   *** 190th St Warehouse 2023-2024                                        ***        05/15/20
*** AERMET - VERSION  16216 ***   *** DPM concentrations 2YR Exposure                                     ***        06:41:20
                                                                                                                  PAGE   2
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                          *** POINT SOURCE DATA ***

             NUMBER EMISSION RATE                  BASE     STACK   STACK    STACK     STACK    BLDG   URBAN  CAP/  EMIS RATE
```

| SOURCE ID | PART. CATS. | (GRAMS/SEC) | X (METERS) | Y (METERS) | ELEV. (METERS) | HEIGHT (METERS) | TEMP. (DEG.K) | EXIT VEL. (M/SEC) | DIAMETER (METERS) | EXISTS | SOURCE VARY | HOR BY | SCALAR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STCK1 | 0 | 0.13700E-04 | 377375.1 | 3747396.4 | 19.2 | 3.66 | 366.00 | 51.90 | 0.09 | YES | YES | NO | |
| STCK2 | 0 | 0.13700E-04 | 377406.0 | 3747397.4 | 19.4 | 3.66 | 366.00 | 51.90 | 0.09 | YES | YES | NO | |
| STCK3 | 0 | 0.13700E-04 | 377432.7 | 3747397.7 | 19.6 | 3.66 | 366.00 | 51.90 | 0.09 | YES | YES | NO | |
| STCK4 | 0 | 0.13700E-04 | 377463.5 | 3747397.7 | 19.8 | 3.66 | 366.00 | 51.90 | 0.09 | YES | YES | NO | |
| STCK5 | 0 | 0.13700E-04 | 377492.1 | 3747397.7 | 20.1 | 3.66 | 366.00 | 51.90 | 0.09 | YES | YES | NO | |
| STCK6 | 0 | 0.13700E-04 | 377521.4 | 3747398.1 | 20.6 | 3.66 | 366.00 | 51.90 | 0.09 | YES | YES | NO | |



*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| L0001010 | 0 | 0.40760E-07 | 377311.4 | 3747422.7 | 19.0 | 0.00 | 1.70 | 5.10 | YES | |
| L0001011 | 0 | 0.40760E-07 | 377315.0 | 3747422.7 | 19.0 | 0.00 | 1.70 | 5.10 | YES | |
| L0001012 | 0 | 0.40760E-07 | 377318.7 | 3747422.7 | 19.0 | 0.00 | 1.70 | 5.10 | YES | |
| L0001013 | 0 | 0.40760E-07 | 377322.3 | 3747422.7 | 19.0 | 0.00 | 1.70 | 5.10 | YES | |
| L0001014 | 0 | 0.40760E-07 | 377326.0 | 3747422.7 | 19.0 | 0.00 | 1.70 | 5.10 | YES | |
| L0001015 | 0 | 0.40760E-07 | 377329.7 | 3747422.8 | 19.1 | 0.00 | 1.70 | 5.10 | YES | |
| L0001016 | 0 | 0.40760E-07 | 377333.3 | 3747422.8 | 19.1 | 0.00 | 1.70 | 5.10 | YES | |
| L0001017 | 0 | 0.40760E-07 | 377337.0 | 3747422.8 | 19.1 | 0.00 | 1.70 | 5.10 | YES | |
| L0001018 | 0 | 0.40760E-07 | 377340.6 | 3747422.8 | 19.1 | 0.00 | 1.70 | 5.10 | YES | |
| L0001019 | 0 | 0.40760E-07 | 377344.3 | 3747422.8 | 19.1 | 0.00 | 1.70 | 5.10 | YES | |
| L0001020 | 0 | 0.40760E-07 | 377347.9 | 3747422.8 | 19.1 | 0.00 | 1.70 | 5.10 | YES | |
| L0001021 | 0 | 0.40760E-07 | 377351.6 | 3747422.9 | 19.2 | 0.00 | 1.70 | 5.10 | YES | |
| L0001022 | 0 | 0.40760E-07 | 377355.3 | 3747422.9 | 19.2 | 0.00 | 1.70 | 5.10 | YES | |
| L0001023 | 0 | 0.40760E-07 | 377358.9 | 3747422.9 | 19.2 | 0.00 | 1.70 | 5.10 | YES | |
| L0001024 | 0 | 0.40760E-07 | 377362.6 | 3747422.9 | 19.3 | 0.00 | 1.70 | 5.10 | YES | |
| L0001025 | 0 | 0.40760E-07 | 377366.2 | 3747422.9 | 19.3 | 0.00 | 1.70 | 5.10 | YES | |
| L0001026 | 0 | 0.40760E-07 | 377369.9 | 3747423.0 | 19.3 | 0.00 | 1.70 | 5.10 | YES | |
| L0001027 | 0 | 0.40760E-07 | 377373.5 | 3747423.0 | 19.4 | 0.00 | 1.70 | 5.10 | YES | |
| L0001028 | 0 | 0.40760E-07 | 377377.2 | 3747423.0 | 19.4 | 0.00 | 1.70 | 5.10 | YES | |
| L0001029 | 0 | 0.40760E-07 | 377380.9 | 3747423.0 | 19.4 | 0.00 | 1.70 | 5.10 | YES | |
| L0001030 | 0 | 0.40760E-07 | 377384.5 | 3747423.0 | 19.4 | 0.00 | 1.70 | 5.10 | YES | |
| L0001031 | 0 | 0.40760E-07 | 377388.2 | 3747423.0 | 19.4 | 0.00 | 1.70 | 5.10 | YES | |
| L0001032 | 0 | 0.40760E-07 | 377391.8 | 3747423.1 | 19.5 | 0.00 | 1.70 | 5.10 | YES | |
| L0001033 | 0 | 0.40760E-07 | 377395.5 | 3747423.1 | 19.5 | 0.00 | 1.70 | 5.10 | YES | |
| L0001034 | 0 | 0.40760E-07 | 377399.2 | 3747423.1 | 19.5 | 0.00 | 1.70 | 5.10 | YES | |
| L0001035 | 0 | 0.40760E-07 | 377402.8 | 3747423.1 | 19.6 | 0.00 | 1.70 | 5.10 | YES | |
| L0001036 | 0 | 0.40760E-07 | 377406.5 | 3747423.1 | 19.6 | 0.00 | 1.70 | 5.10 | YES | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| L0001037 | 0 | 0.40760E-07 | 377410.1 | 3747423.1 | 19.6 | 0.00 | 1.70 | 5.10 | YES |
| L0001038 | 0 | 0.40760E-07 | 377413.8 | 3747423.2 | 19.6 | 0.00 | 1.70 | 5.10 | YES |
| L0001039 | 0 | 0.40760E-07 | 377417.4 | 3747423.2 | 19.6 | 0.00 | 1.70 | 5.10 | YES |
| L0001040 | 0 | 0.40760E-07 | 377421.1 | 3747423.2 | 19.7 | 0.00 | 1.70 | 5.10 | YES |
| L0001041 | 0 | 0.40760E-07 | 377424.8 | 3747423.2 | 19.7 | 0.00 | 1.70 | 5.10 | YES |
| L0001042 | 0 | 0.40760E-07 | 377428.4 | 3747423.2 | 19.7 | 0.00 | 1.70 | 5.10 | YES |
| L0001043 | 0 | 0.40760E-07 | 377432.1 | 3747423.2 | 19.8 | 0.00 | 1.70 | 5.10 | YES |
| L0001044 | 0 | 0.40760E-07 | 377435.7 | 3747423.3 | 19.8 | 0.00 | 1.70 | 5.10 | YES |
| L0001045 | 0 | 0.40760E-07 | 377439.4 | 3747423.3 | 19.8 | 0.00 | 1.70 | 5.10 | YES |
| L0001046 | 0 | 0.40760E-07 | 377443.0 | 3747423.3 | 19.8 | 0.00 | 1.70 | 5.10 | YES |
| L0001047 | 0 | 0.40760E-07 | 377446.7 | 3747423.3 | 19.9 | 0.00 | 1.70 | 5.10 | YES |
| L0001048 | 0 | 0.40760E-07 | 377450.4 | 3747423.3 | 19.9 | 0.00 | 1.70 | 5.10 | YES |
| L0001049 | 0 | 0.40760E-07 | 377454.0 | 3747423.3 | 19.9 | 0.00 | 1.70 | 5.10 | YES |



*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| L0001050 | 0 | 0.40760E-07 | 377457.7 | 3747423.4 | 19.9 | 0.00 | 1.70 | 5.10 | YES | |
| L0001051 | 0 | 0.40760E-07 | 377461.3 | 3747423.4 | 19.9 | 0.00 | 1.70 | 5.10 | YES | |
| L0001052 | 0 | 0.40760E-07 | 377465.0 | 3747423.4 | 20.0 | 0.00 | 1.70 | 5.10 | YES | |
| L0001053 | 0 | 0.40760E-07 | 377468.6 | 3747423.4 | 20.0 | 0.00 | 1.70 | 5.10 | YES | |
| L0001054 | 0 | 0.40760E-07 | 377472.3 | 3747423.4 | 20.0 | 0.00 | 1.70 | 5.10 | YES | |
| L0001055 | 0 | 0.40760E-07 | 377476.0 | 3747423.4 | 20.0 | 0.00 | 1.70 | 5.10 | YES | |
| L0001056 | 0 | 0.40760E-07 | 377479.6 | 3747423.5 | 20.1 | 0.00 | 1.70 | 5.10 | YES | |
| L0001057 | 0 | 0.40760E-07 | 377483.3 | 3747423.5 | 20.1 | 0.00 | 1.70 | 5.10 | YES | |
| L0001058 | 0 | 0.40760E-07 | 377486.9 | 3747423.5 | 20.1 | 0.00 | 1.70 | 5.10 | YES | |
| L0001059 | 0 | 0.40760E-07 | 377490.6 | 3747423.5 | 20.1 | 0.00 | 1.70 | 5.10 | YES | |
| L0001060 | 0 | 0.40760E-07 | 377494.2 | 3747423.5 | 20.2 | 0.00 | 1.70 | 5.10 | YES | |
| L0001061 | 0 | 0.40760E-07 | 377497.9 | 3747423.6 | 20.2 | 0.00 | 1.70 | 5.10 | YES | |
| L0001062 | 0 | 0.40760E-07 | 377501.6 | 3747423.6 | 20.2 | 0.00 | 1.70 | 5.10 | YES | |
| L0001063 | 0 | 0.40760E-07 | 377505.2 | 3747423.6 | 20.2 | 0.00 | 1.70 | 5.10 | YES | |
| L0001064 | 0 | 0.40760E-07 | 377508.9 | 3747423.6 | 20.2 | 0.00 | 1.70 | 5.10 | YES | |
| L0001065 | 0 | 0.40760E-07 | 377512.5 | 3747423.6 | 20.2 | 0.00 | 1.70 | 5.10 | YES | |
| L0001066 | 0 | 0.40760E-07 | 377516.2 | 3747423.6 | 20.2 | 0.00 | 1.70 | 5.10 | YES | |
| L0001067 | 0 | 0.40760E-07 | 377519.9 | 3747423.7 | 20.2 | 0.00 | 1.70 | 5.10 | YES | |
| L0001068 | 0 | 0.40760E-07 | 377523.5 | 3747423.7 | 20.2 | 0.00 | 1.70 | 5.10 | YES | |
| L0001069 | 0 | 0.40760E-07 | 377527.2 | 3747423.7 | 20.3 | 0.00 | 1.70 | 5.10 | YES | |
| L0001070 | 0 | 0.40760E-07 | 377530.8 | 3747423.7 | 20.3 | 0.00 | 1.70 | 5.10 | YES | |
| L0001071 | 0 | 0.40760E-07 | 377534.5 | 3747423.7 | 20.4 | 0.00 | 1.70 | 5.10 | YES | |
| L0001072 | 0 | 0.40760E-07 | 377538.1 | 3747423.7 | 20.4 | 0.00 | 1.70 | 5.10 | YES | |
| L0001073 | 0 | 0.40760E-07 | 377541.8 | 3747423.8 | 20.5 | 0.00 | 1.70 | 5.10 | YES | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| L0001074 | 0 | 0.40760E-07 | 377545.5 | 3747423.8 | 20.5 | 0.00 | 1.70 | 5.10 | YES |
| L0001075 | 0 | 0.40760E-07 | 377549.1 | 3747423.8 | 20.6 | 0.00 | 1.70 | 5.10 | YES |
| L0001076 | 0 | 0.40760E-07 | 377552.8 | 3747423.8 | 20.6 | 0.00 | 1.70 | 5.10 | YES |
| L0001077 | 0 | 0.40760E-07 | 377556.4 | 3747423.8 | 20.6 | 0.00 | 1.70 | 5.10 | YES |
| L0001078 | 0 | 0.40760E-07 | 377560.1 | 3747423.8 | 20.6 | 0.00 | 1.70 | 5.10 | YES |
| L0001079 | 0 | 0.40760E-07 | 377563.7 | 3747423.9 | 20.5 | 0.00 | 1.70 | 5.10 | YES |
| L0001080 | 0 | 0.40760E-07 | 377567.4 | 3747423.9 | 20.5 | 0.00 | 1.70 | 5.10 | YES |
| L0001081 | 0 | 0.40760E-07 | 377571.1 | 3747423.9 | 20.5 | 0.00 | 1.70 | 5.10 | YES |
| L0001082 | 0 | 0.40760E-07 | 377574.7 | 3747423.9 | 20.5 | 0.00 | 1.70 | 5.10 | YES |
| L0001083 | 0 | 0.40760E-07 | 377578.4 | 3747423.9 | 20.5 | 0.00 | 1.70 | 5.10 | YES |
| L0001084 | 0 | 0.40760E-07 | 377582.0 | 3747423.9 | 20.4 | 0.00 | 1.70 | 5.10 | YES |
| L0001085 | 0 | 0.40760E-07 | 377585.7 | 3747424.0 | 20.4 | 0.00 | 1.70 | 5.10 | YES |
| L0001086 | 0 | 0.40760E-07 | 377589.3 | 3747424.0 | 20.3 | 0.00 | 1.70 | 5.10 | YES |
| L0001087 | 0 | 0.40760E-07 | 377593.0 | 3747424.0 | 20.3 | 0.00 | 1.70 | 5.10 | YES |
| L0001088 | 0 | 0.40760E-07 | 377596.7 | 3747424.0 | 20.2 | 0.00 | 1.70 | 5.10 | YES |
| L0001089 | 0 | 0.40850E-07 | 377606.9 | 3747421.7 | 20.1 | 0.00 | 1.70 | 5.10 | YES |



*** MODELOPTs:  RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

*** 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| L0001090 | 0 | 0.40850E-07 | 377606.9 | 3747418.1 | 20.2 | 0.00 | 1.70 | 5.10 | YES | |
| L0001091 | 0 | 0.40850E-07 | 377606.9 | 3747414.4 | 20.2 | 0.00 | 1.70 | 5.10 | YES | |
| L0001092 | 0 | 0.40850E-07 | 377606.9 | 3747410.8 | 20.3 | 0.00 | 1.70 | 5.10 | YES | |
| L0001093 | 0 | 0.40850E-07 | 377606.9 | 3747407.1 | 20.3 | 0.00 | 1.70 | 5.10 | YES | |
| L0001094 | 0 | 0.40850E-07 | 377606.9 | 3747403.5 | 20.3 | 0.00 | 1.70 | 5.10 | YES | |
| L0001095 | 0 | 0.40850E-07 | 377606.9 | 3747399.8 | 20.3 | 0.00 | 1.70 | 5.10 | YES | |
| L0001096 | 0 | 0.40850E-07 | 377606.9 | 3747396.1 | 20.3 | 0.00 | 1.70 | 5.10 | YES | |
| L0001097 | 0 | 0.40850E-07 | 377607.0 | 3747392.5 | 20.3 | 0.00 | 1.70 | 5.10 | YES | |
| L0001098 | 0 | 0.40850E-07 | 377607.0 | 3747388.8 | 20.3 | 0.00 | 1.70 | 5.10 | YES | |
| L0001099 | 0 | 0.40850E-07 | 377607.0 | 3747385.2 | 20.3 | 0.00 | 1.70 | 5.10 | YES | |
| L0001100 | 0 | 0.40850E-07 | 377607.0 | 3747381.5 | 20.3 | 0.00 | 1.70 | 5.10 | YES | |
| L0001101 | 0 | 0.40850E-07 | 377607.0 | 3747377.8 | 20.3 | 0.00 | 1.70 | 5.10 | YES | |
| L0001102 | 0 | 0.40850E-07 | 377607.0 | 3747374.2 | 20.3 | 0.00 | 1.70 | 5.10 | YES | |
| L0001103 | 0 | 0.40850E-07 | 377607.0 | 3747370.5 | 20.3 | 0.00 | 1.70 | 5.10 | YES | |
| L0001104 | 0 | 0.40850E-07 | 377607.0 | 3747366.9 | 20.2 | 0.00 | 1.70 | 5.10 | YES | |
| L0001105 | 0 | 0.40850E-07 | 377607.0 | 3747363.2 | 20.1 | 0.00 | 1.70 | 5.10 | YES | |
| L0001106 | 0 | 0.40850E-07 | 377607.0 | 3747359.6 | 20.1 | 0.00 | 1.70 | 5.10 | YES | |
| L0001107 | 0 | 0.40850E-07 | 377607.1 | 3747355.9 | 20.0 | 0.00 | 1.70 | 5.10 | YES | |
| L0001108 | 0 | 0.40850E-07 | 377607.1 | 3747352.2 | 20.0 | 0.00 | 1.70 | 5.10 | YES | |
| L0001109 | 0 | 0.40850E-07 | 377607.1 | 3747348.6 | 19.9 | 0.00 | 1.70 | 5.10 | YES | |
| L0001110 | 0 | 0.40850E-07 | 377607.1 | 3747344.9 | 19.9 | 0.00 | 1.70 | 5.10 | YES | |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| L0001111 | 0 | 0.40850E-07 | 377607.1 | 3747341.3 | 19.8 | 0.00 | 1.70 | 5.10 | YES | |
| L0001112 | 0 | 0.40850E-07 | 377607.1 | 3747337.6 | 19.8 | 0.00 | 1.70 | 5.10 | YES | |
| L0001113 | 0 | 0.40850E-07 | 377607.1 | 3747334.0 | 19.8 | 0.00 | 1.70 | 5.10 | YES | |
| L0001114 | 0 | 0.40850E-07 | 377607.1 | 3747330.3 | 19.7 | 0.00 | 1.70 | 5.10 | YES | |
| L0001115 | 0 | 0.40850E-07 | 377607.1 | 3747326.6 | 19.7 | 0.00 | 1.70 | 5.10 | YES | |
| L0001116 | 0 | 0.40850E-07 | 377607.1 | 3747323.0 | 19.7 | 0.00 | 1.70 | 5.10 | YES | |
| L0001117 | 0 | 0.40850E-07 | 377607.1 | 3747319.3 | 19.6 | 0.00 | 1.70 | 5.10 | YES | |
| L0001118 | 0 | 0.40850E-07 | 377607.2 | 3747315.7 | 19.6 | 0.00 | 1.70 | 5.10 | YES | |
| L0001119 | 0 | 0.40850E-07 | 377607.2 | 3747312.0 | 19.6 | 0.00 | 1.70 | 5.10 | YES | |
| L0001120 | 0 | 0.40850E-07 | 377607.2 | 3747308.4 | 19.6 | 0.00 | 1.70 | 5.10 | YES | |
| L0001121 | 0 | 0.40850E-07 | 377607.2 | 3747304.7 | 19.6 | 0.00 | 1.70 | 5.10 | YES | |
| L0001122 | 0 | 0.40850E-07 | 377607.2 | 3747301.0 | 19.7 | 0.00 | 1.70 | 5.10 | YES | |
| L0001123 | 0 | 0.40850E-07 | 377607.2 | 3747297.4 | 19.7 | 0.00 | 1.70 | 5.10 | YES | |
| L0001124 | 0 | 0.40850E-07 | 377607.2 | 3747293.7 | 19.7 | 0.00 | 1.70 | 5.10 | YES | |
| L0001125 | 0 | 0.40850E-07 | 377607.2 | 3747290.1 | 19.7 | 0.00 | 1.70 | 5.10 | YES | |
| L0001126 | 0 | 0.40850E-07 | 377607.2 | 3747286.4 | 19.7 | 0.00 | 1.70 | 5.10 | YES | |
| L0001127 | 0 | 0.40850E-07 | 377607.2 | 3747282.8 | 19.8 | 0.00 | 1.70 | 5.10 | YES | |
| L0001128 | 0 | 0.40850E-07 | 377607.3 | 3747279.1 | 19.7 | 0.00 | 1.70 | 5.10 | YES | |
| L0001129 | 0 | 0.40850E-07 | 377607.3 | 3747275.4 | 19.6 | 0.00 | 1.70 | 5.10 | YES | |



*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| L0001130 | 0 | 0.40850E-07 | 377607.3 | 3747271.8 | 19.6 | 0.00 | 1.70 | 5.10 | YES | |
| L0001131 | 0 | 0.40850E-07 | 377607.3 | 3747268.1 | 19.5 | 0.00 | 1.70 | 5.10 | YES | |
| L0001132 | 0 | 0.40850E-07 | 377607.3 | 3747264.5 | 19.4 | 0.00 | 1.70 | 5.10 | YES | |
| L0001133 | 0 | 0.40850E-07 | 377607.3 | 3747260.8 | 19.4 | 0.00 | 1.70 | 5.10 | YES | |
| L0001134 | 0 | 0.40850E-07 | 377607.3 | 3747257.1 | 19.3 | 0.00 | 1.70 | 5.10 | YES | |
| L0001135 | 0 | 0.40850E-07 | 377607.3 | 3747253.5 | 19.2 | 0.00 | 1.70 | 5.10 | YES | |
| L0001136 | 0 | 0.42500E-07 | 377299.8 | 3747423.8 | 18.9 | 0.00 | 1.70 | 0.85 | YES | |
| L0001137 | 0 | 0.42500E-07 | 377299.8 | 3747427.5 | 18.9 | 0.00 | 1.70 | 0.85 | YES | |
| L0001138 | 0 | 0.42500E-07 | 377299.8 | 3747431.1 | 19.0 | 0.00 | 1.70 | 0.85 | YES | |
| L0001139 | 0 | 0.42500E-07 | 377299.8 | 3747434.8 | 19.0 | 0.00 | 1.70 | 0.85 | YES | |
| L0001140 | 0 | 0.42500E-07 | 377299.8 | 3747438.5 | 19.1 | 0.00 | 1.70 | 0.85 | YES | |
| L0001141 | 0 | 0.42500E-07 | 377299.7 | 3747442.1 | 19.1 | 0.00 | 1.70 | 0.85 | YES | |
| L0001142 | 0 | 0.42500E-07 | 377299.7 | 3747445.8 | 19.1 | 0.00 | 1.70 | 0.85 | YES | |
| L0001143 | 0 | 0.42500E-07 | 377299.7 | 3747449.4 | 19.1 | 0.00 | 1.70 | 0.85 | YES | |
| L0001144 | 0 | 0.42500E-07 | 377299.7 | 3747453.1 | 19.0 | 0.00 | 1.70 | 0.85 | YES | |
| L0001145 | 0 | 0.42500E-07 | 377299.7 | 3747456.7 | 19.0 | 0.00 | 1.70 | 0.85 | YES | |
| L0001146 | 0 | 0.42500E-07 | 377299.7 | 3747460.4 | 19.0 | 0.00 | 1.70 | 0.85 | YES | |
| L0001147 | 0 | 0.42500E-07 | 377299.6 | 3747464.1 | 19.0 | 0.00 | 1.70 | 0.85 | YES | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| L0001148 | 0 | 0.42500E-07 | 377299.6 | 3747467.7 | 19.0 | 0.00 | 1.70 | 0.85 | YES |
| L0001149 | 0 | 0.42500E-07 | 377299.6 | 3747471.4 | 19.0 | 0.00 | 1.70 | 0.85 | YES |
| L0001150 | 0 | 0.42500E-07 | 377299.6 | 3747475.0 | 19.0 | 0.00 | 1.70 | 0.85 | YES |
| L0001151 | 0 | 0.42500E-07 | 377299.6 | 3747478.7 | 19.0 | 0.00 | 1.70 | 0.85 | YES |
| L0001152 | 0 | 0.42500E-07 | 377299.5 | 3747482.3 | 19.1 | 0.00 | 1.70 | 0.85 | YES |
| L0001153 | 0 | 0.42500E-07 | 377299.5 | 3747486.0 | 19.1 | 0.00 | 1.70 | 0.85 | YES |
| L0001154 | 0 | 0.42500E-07 | 377299.5 | 3747489.7 | 19.1 | 0.00 | 1.70 | 0.85 | YES |
| L0001155 | 0 | 0.42500E-07 | 377299.5 | 3747493.3 | 19.2 | 0.00 | 1.70 | 0.85 | YES |
| L0001156 | 0 | 0.42500E-07 | 377299.5 | 3747497.0 | 19.2 | 0.00 | 1.70 | 0.85 | YES |
| L0001157 | 0 | 0.42500E-07 | 377299.4 | 3747500.6 | 19.2 | 0.00 | 1.70 | 0.85 | YES |
| L0001158 | 0 | 0.42500E-07 | 377299.4 | 3747504.3 | 19.2 | 0.00 | 1.70 | 0.85 | YES |
| L0001159 | 0 | 0.42500E-07 | 377299.4 | 3747508.0 | 19.2 | 0.00 | 1.70 | 0.85 | YES |
| L0001160 | 0 | 0.42500E-07 | 377299.4 | 3747511.6 | 19.2 | 0.00 | 1.70 | 0.85 | YES |
| L0001161 | 0 | 0.42500E-07 | 377299.4 | 3747515.3 | 19.2 | 0.00 | 1.70 | 0.85 | YES |
| L0001162 | 0 | 0.42500E-07 | 377299.4 | 3747518.9 | 19.2 | 0.00 | 1.70 | 0.85 | YES |
| L0001163 | 0 | 0.42500E-07 | 377299.3 | 3747522.6 | 19.2 | 0.00 | 1.70 | 0.85 | YES |
| L0001164 | 0 | 0.42500E-07 | 377299.3 | 3747526.2 | 19.2 | 0.00 | 1.70 | 0.85 | YES |
| L0001165 | 0 | 0.42500E-07 | 377299.3 | 3747529.9 | 19.2 | 0.00 | 1.70 | 0.85 | YES |
| L0001166 | 0 | 0.42500E-07 | 377299.3 | 3747533.6 | 19.2 | 0.00 | 1.70 | 0.85 | YES |
| L0001167 | 0 | 0.42500E-07 | 377299.3 | 3747537.2 | 19.2 | 0.00 | 1.70 | 0.85 | YES |
| L0001168 | 0 | 0.42500E-07 | 377299.2 | 3747540.9 | 19.2 | 0.00 | 1.70 | 0.85 | YES |
| L0001169 | 0 | 0.42500E-07 | 377299.2 | 3747544.5 | 19.2 | 0.00 | 1.70 | 0.85 | YES |



*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

*** 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| L0001170 | 0 | 0.42500E-07 | 377299.2 | 3747548.2 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0001171 | 0 | 0.42500E-07 | 377299.2 | 3747551.8 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0001172 | 0 | 0.42500E-07 | 377299.2 | 3747555.5 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0001173 | 0 | 0.42500E-07 | 377299.2 | 3747559.2 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0001174 | 0 | 0.42500E-07 | 377299.1 | 3747562.8 | 19.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0001175 | 0 | 0.42500E-07 | 377299.1 | 3747566.5 | 19.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0001176 | 0 | 0.42500E-07 | 377299.1 | 3747570.1 | 19.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0001177 | 0 | 0.42500E-07 | 377299.1 | 3747573.8 | 19.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0001178 | 0 | 0.42500E-07 | 377299.1 | 3747577.4 | 19.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0001179 | 0 | 0.42500E-07 | 377299.0 | 3747581.1 | 19.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0001180 | 0 | 0.42500E-07 | 377299.0 | 3747584.8 | 19.5 | 0.00 | 1.70 | 0.85 | YES | |
| L0001181 | 0 | 0.42500E-07 | 377299.0 | 3747588.4 | 19.5 | 0.00 | 1.70 | 0.85 | YES | |
| L0001182 | 0 | 0.42500E-07 | 377299.0 | 3747592.1 | 19.6 | 0.00 | 1.70 | 0.85 | YES | |
| L0001183 | 0 | 0.42500E-07 | 377299.0 | 3747595.7 | 19.6 | 0.00 | 1.70 | 0.85 | YES | |
| L0001184 | 0 | 0.42500E-07 | 377299.0 | 3747599.4 | 19.6 | 0.00 | 1.70 | 0.85 | YES | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| L0001185 | 0 | 0.42500E-07 | 377298.9 | 3747603.0 | 19.7 | 0.00 | 1.70 | 0.85 | YES |
| L0001186 | 0 | 0.42500E-07 | 377298.9 | 3747606.7 | 19.7 | 0.00 | 1.70 | 0.85 | YES |
| L0001187 | 0 | 0.42500E-07 | 377298.9 | 3747610.4 | 19.7 | 0.00 | 1.70 | 0.85 | YES |
| L0001188 | 0 | 0.42500E-07 | 377298.9 | 3747614.0 | 19.8 | 0.00 | 1.70 | 0.85 | YES |
| L0001189 | 0 | 0.42500E-07 | 377298.9 | 3747617.7 | 19.8 | 0.00 | 1.70 | 0.85 | YES |
| L0001190 | 0 | 0.42500E-07 | 377298.8 | 3747621.3 | 19.8 | 0.00 | 1.70 | 0.85 | YES |
| L0001191 | 0 | 0.42500E-07 | 377298.8 | 3747625.0 | 19.9 | 0.00 | 1.70 | 0.85 | YES |
| L0001192 | 0 | 0.42500E-07 | 377298.8 | 3747628.7 | 19.9 | 0.00 | 1.70 | 0.85 | YES |
| L0001193 | 0 | 0.42500E-07 | 377298.8 | 3747632.3 | 19.9 | 0.00 | 1.70 | 0.85 | YES |
| L0001194 | 0 | 0.42500E-07 | 377298.8 | 3747636.0 | 19.9 | 0.00 | 1.70 | 0.85 | YES |
| L0001195 | 0 | 0.42500E-07 | 377298.7 | 3747639.6 | 19.9 | 0.00 | 1.70 | 0.85 | YES |
| L0001196 | 0 | 0.42500E-07 | 377298.7 | 3747643.3 | 20.0 | 0.00 | 1.70 | 0.85 | YES |
| L0001197 | 0 | 0.42500E-07 | 377298.7 | 3747646.9 | 20.0 | 0.00 | 1.70 | 0.85 | YES |
| L0001198 | 0 | 0.42500E-07 | 377298.7 | 3747650.6 | 20.0 | 0.00 | 1.70 | 0.85 | YES |
| L0001199 | 0 | 0.42500E-07 | 377298.7 | 3747654.3 | 20.1 | 0.00 | 1.70 | 0.85 | YES |
| L0001200 | 0 | 0.42500E-07 | 377298.7 | 3747657.9 | 20.1 | 0.00 | 1.70 | 0.85 | YES |
| L0001201 | 0 | 0.42500E-07 | 377298.6 | 3747661.6 | 20.1 | 0.00 | 1.70 | 0.85 | YES |
| L0001202 | 0 | 0.42500E-07 | 377298.6 | 3747665.2 | 20.1 | 0.00 | 1.70 | 0.85 | YES |
| L0001203 | 0 | 0.42500E-07 | 377298.6 | 3747668.9 | 20.2 | 0.00 | 1.70 | 0.85 | YES |
| L0001204 | 0 | 0.42500E-07 | 377298.6 | 3747672.5 | 20.2 | 0.00 | 1.70 | 0.85 | YES |
| L0001205 | 0 | 0.42500E-07 | 377298.6 | 3747676.2 | 20.2 | 0.00 | 1.70 | 0.85 | YES |
| L0001206 | 0 | 0.42500E-07 | 377298.5 | 3747679.9 | 20.2 | 0.00 | 1.70 | 0.85 | YES |
| L0001207 | 0 | 0.42500E-07 | 377298.5 | 3747683.5 | 20.3 | 0.00 | 1.70 | 0.85 | YES |
| L0001208 | 0 | 0.42500E-07 | 377298.5 | 3747687.2 | 20.3 | 0.00 | 1.70 | 0.85 | YES |
| L0001209 | 0 | 0.42500E-07 | 377298.5 | 3747690.8 | 20.3 | 0.00 | 1.70 | 0.85 | YES |



*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

*** 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| L0001210 | 0 | 0.42500E-07 | 377298.5 | 3747694.5 | 20.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0001211 | 0 | 0.42500E-07 | 377298.5 | 3747698.1 | 20.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0001212 | 0 | 0.42500E-07 | 377298.4 | 3747701.8 | 20.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0001213 | 0 | 0.42500E-07 | 377298.4 | 3747705.5 | 20.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0001214 | 0 | 0.42500E-07 | 377298.4 | 3747709.1 | 20.5 | 0.00 | 1.70 | 0.85 | YES | |
| L0001215 | 0 | 0.42500E-07 | 377298.4 | 3747712.8 | 20.5 | 0.00 | 1.70 | 0.85 | YES | |
| L0001216 | 0 | 0.42500E-07 | 377298.4 | 3747716.4 | 20.5 | 0.00 | 1.70 | 0.85 | YES | |
| L0001217 | 0 | 0.42500E-07 | 377298.3 | 3747720.1 | 20.6 | 0.00 | 1.70 | 0.85 | YES | |
| L0001218 | 0 | 0.42500E-07 | 377298.3 | 3747723.7 | 20.6 | 0.00 | 1.70 | 0.85 | YES | |
| L0001219 | 0 | 0.42500E-07 | 377298.3 | 3747727.4 | 20.6 | 0.00 | 1.70 | 0.85 | YES | |
| L0001220 | 0 | 0.42500E-07 | 377298.3 | 3747731.1 | 20.6 | 0.00 | 1.70 | 0.85 | YES | |
| L0001221 | 0 | 0.42500E-07 | 377298.3 | 3747734.7 | 20.6 | 0.00 | 1.70 | 0.85 | YES | |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| L0001222 | 0 | 0.42500E-07 | 377298.3 | 3747738.4 | 20.6 | 0.00 | 1.70 | 0.85 | YES | |
| L0001223 | 0 | 0.42500E-07 | 377298.2 | 3747742.0 | 20.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0001224 | 0 | 0.42500E-07 | 377298.2 | 3747745.7 | 20.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0001225 | 0 | 0.42500E-07 | 377298.2 | 3747749.4 | 20.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0001226 | 0 | 0.42500E-07 | 377298.2 | 3747753.0 | 20.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0001227 | 0 | 0.42500E-07 | 377298.2 | 3747756.7 | 20.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0001228 | 0 | 0.42500E-07 | 377298.1 | 3747760.3 | 20.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0001229 | 0 | 0.42500E-07 | 377298.1 | 3747764.0 | 20.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0001230 | 0 | 0.42500E-07 | 377298.1 | 3747767.6 | 20.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0001231 | 0 | 0.42500E-07 | 377298.1 | 3747771.3 | 20.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0001232 | 0 | 0.42500E-07 | 377298.1 | 3747775.0 | 20.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0001233 | 0 | 0.42500E-07 | 377298.0 | 3747778.6 | 20.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0001234 | 0 | 0.42500E-07 | 377298.0 | 3747782.3 | 20.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0001235 | 0 | 0.42500E-07 | 377298.0 | 3747785.9 | 20.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0001236 | 0 | 0.42500E-07 | 377298.0 | 3747789.6 | 20.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0001237 | 0 | 0.42500E-07 | 377298.0 | 3747793.2 | 20.6 | 0.00 | 1.70 | 0.85 | YES | |
| L0001238 | 0 | 0.42500E-07 | 377298.0 | 3747796.9 | 20.6 | 0.00 | 1.70 | 0.85 | YES | |
| L0001239 | 0 | 0.42500E-07 | 377297.9 | 3747800.6 | 20.6 | 0.00 | 1.70 | 0.85 | YES | |
| L0001240 | 0 | 0.42500E-07 | 377297.9 | 3747804.2 | 20.6 | 0.00 | 1.70 | 0.85 | YES | |
| L0001241 | 0 | 0.42500E-07 | 377297.9 | 3747807.9 | 20.6 | 0.00 | 1.70 | 0.85 | YES | |
| L0001242 | 0 | 0.42500E-07 | 377297.9 | 3747811.5 | 20.6 | 0.00 | 1.70 | 0.85 | YES | |
| L0001243 | 0 | 0.42500E-07 | 377297.9 | 3747815.2 | 20.5 | 0.00 | 1.70 | 0.85 | YES | |
| L0001244 | 0 | 0.42500E-07 | 377297.8 | 3747818.8 | 20.5 | 0.00 | 1.70 | 0.85 | YES | |
| L0001245 | 0 | 0.42500E-07 | 377297.8 | 3747822.5 | 20.5 | 0.00 | 1.70 | 0.85 | YES | |
| L0001246 | 0 | 0.42500E-07 | 377297.8 | 3747826.2 | 20.5 | 0.00 | 1.70 | 0.85 | YES | |
| L0001247 | 0 | 0.42500E-07 | 377297.8 | 3747829.8 | 20.5 | 0.00 | 1.70 | 0.85 | YES | |
| L0001248 | 0 | 0.42500E-07 | 377297.8 | 3747833.5 | 20.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0001249 | 0 | 0.42500E-07 | 377297.8 | 3747837.1 | 20.4 | 0.00 | 1.70 | 0.85 | YES | |



*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

*** 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| L0001250 | 0 | 0.42500E-07 | 377297.7 | 3747840.8 | 20.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0001251 | 0 | 0.42500E-07 | 377297.7 | 3747844.4 | 20.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0001252 | 0 | 0.18800E-07 | 377157.2 | 3747245.3 | 18.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0001253 | 0 | 0.18800E-07 | 377159.0 | 3747248.5 | 18.1 | 0.00 | 1.70 | 0.85 | YES | |
| L0001254 | 0 | 0.18800E-07 | 377160.9 | 3747251.7 | 18.1 | 0.00 | 1.70 | 0.85 | YES | |
| L0001255 | 0 | 0.18800E-07 | 377162.7 | 3747254.9 | 18.1 | 0.00 | 1.70 | 0.85 | YES | |
| L0001256 | 0 | 0.18800E-07 | 377164.5 | 3747258.0 | 18.1 | 0.00 | 1.70 | 0.85 | YES | |
| L0001257 | 0 | 0.18800E-07 | 377166.3 | 3747261.2 | 18.1 | 0.00 | 1.70 | 0.85 | YES | |
| L0001258 | 0 | 0.18800E-07 | 377168.1 | 3747264.4 | 18.0 | 0.00 | 1.70 | 0.85 | YES | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| L0001259 | 0 | 0.18800E-07 | 377169.9 | 3747267.6 | 18.0 | 0.00 | 1.70 | 0.85 | YES |
| L0001260 | 0 | 0.18800E-07 | 377171.7 | 3747270.8 | 18.0 | 0.00 | 1.70 | 0.85 | YES |
| L0001261 | 0 | 0.18800E-07 | 377173.5 | 3747273.9 | 18.0 | 0.00 | 1.70 | 0.85 | YES |
| L0001262 | 0 | 0.18800E-07 | 377175.3 | 3747277.1 | 18.0 | 0.00 | 1.70 | 0.85 | YES |
| L0001263 | 0 | 0.18800E-07 | 377177.1 | 3747280.3 | 18.1 | 0.00 | 1.70 | 0.85 | YES |
| L0001264 | 0 | 0.18800E-07 | 377178.9 | 3747283.5 | 18.1 | 0.00 | 1.70 | 0.85 | YES |
| L0001265 | 0 | 0.18800E-07 | 377180.7 | 3747286.7 | 18.1 | 0.00 | 1.70 | 0.85 | YES |
| L0001266 | 0 | 0.18800E-07 | 377182.5 | 3747289.8 | 18.1 | 0.00 | 1.70 | 0.85 | YES |
| L0001267 | 0 | 0.18800E-07 | 377184.3 | 3747293.0 | 18.2 | 0.00 | 1.70 | 0.85 | YES |
| L0001268 | 0 | 0.18800E-07 | 377186.2 | 3747296.2 | 18.2 | 0.00 | 1.70 | 0.85 | YES |
| L0001269 | 0 | 0.18800E-07 | 377188.0 | 3747299.4 | 18.2 | 0.00 | 1.70 | 0.85 | YES |
| L0001270 | 0 | 0.18800E-07 | 377189.8 | 3747302.6 | 18.2 | 0.00 | 1.70 | 0.85 | YES |
| L0001271 | 0 | 0.18800E-07 | 377191.6 | 3747305.7 | 18.2 | 0.00 | 1.70 | 0.85 | YES |
| L0001272 | 0 | 0.18800E-07 | 377193.4 | 3747308.9 | 18.2 | 0.00 | 1.70 | 0.85 | YES |
| L0001273 | 0 | 0.18800E-07 | 377195.2 | 3747312.1 | 18.2 | 0.00 | 1.70 | 0.85 | YES |
| L0001274 | 0 | 0.18800E-07 | 377197.0 | 3747315.3 | 18.2 | 0.00 | 1.70 | 0.85 | YES |
| L0001275 | 0 | 0.18800E-07 | 377198.8 | 3747318.5 | 18.2 | 0.00 | 1.70 | 0.85 | YES |
| L0001276 | 0 | 0.18800E-07 | 377200.6 | 3747321.6 | 18.1 | 0.00 | 1.70 | 0.85 | YES |
| L0001277 | 0 | 0.18800E-07 | 377202.4 | 3747324.8 | 18.1 | 0.00 | 1.70 | 0.85 | YES |
| L0001278 | 0 | 0.18800E-07 | 377204.2 | 3747328.0 | 18.1 | 0.00 | 1.70 | 0.85 | YES |
| L0001279 | 0 | 0.18800E-07 | 377206.0 | 3747331.2 | 18.2 | 0.00 | 1.70 | 0.85 | YES |
| L0001280 | 0 | 0.18800E-07 | 377207.8 | 3747334.4 | 18.2 | 0.00 | 1.70 | 0.85 | YES |
| L0001281 | 0 | 0.18800E-07 | 377209.6 | 3747337.5 | 18.2 | 0.00 | 1.70 | 0.85 | YES |
| L0001282 | 0 | 0.18800E-07 | 377211.4 | 3747340.7 | 18.2 | 0.00 | 1.70 | 0.85 | YES |
| L0001283 | 0 | 0.18800E-07 | 377213.3 | 3747343.9 | 18.3 | 0.00 | 1.70 | 0.85 | YES |
| L0001284 | 0 | 0.18800E-07 | 377215.1 | 3747347.1 | 18.3 | 0.00 | 1.70 | 0.85 | YES |
| L0001285 | 0 | 0.18800E-07 | 377216.9 | 3747350.3 | 18.3 | 0.00 | 1.70 | 0.85 | YES |
| L0001286 | 0 | 0.18800E-07 | 377218.7 | 3747353.4 | 18.3 | 0.00 | 1.70 | 0.85 | YES |
| L0001287 | 0 | 0.18800E-07 | 377220.5 | 3747356.6 | 18.3 | 0.00 | 1.70 | 0.85 | YES |
| L0001288 | 0 | 0.18800E-07 | 377222.3 | 3747359.8 | 18.3 | 0.00 | 1.70 | 0.85 | YES |
| L0001289 | 0 | 0.18800E-07 | 377224.1 | 3747363.0 | 18.3 | 0.00 | 1.70 | 0.85 | YES |



*** MODELOPTs:  RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

*** 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| L0001290 | 0 | 0.18800E-07 | 377225.9 | 3747366.2 | 18.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0001291 | 0 | 0.18800E-07 | 377227.7 | 3747369.3 | 18.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0001292 | 0 | 0.18800E-07 | 377229.5 | 3747372.5 | 18.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0001293 | 0 | 0.18800E-07 | 377231.3 | 3747375.7 | 18.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0001294 | 0 | 0.18800E-07 | 377233.1 | 3747378.9 | 18.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0001295 | 0 | 0.18800E-07 | 377234.9 | 3747382.1 | 18.4 | 0.00 | 1.70 | 0.85 | YES | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| L0001296 | 0 | 0.18800E-07 | 377236.6 | 3747385.3 | 18.4 | 0.00 | 1.70 | 0.85 | YES |
| L0001297 | 0 | 0.18800E-07 | 377238.4 | 3747388.5 | 18.4 | 0.00 | 1.70 | 0.85 | YES |
| L0001298 | 0 | 0.18800E-07 | 377240.1 | 3747391.8 | 18.4 | 0.00 | 1.70 | 0.85 | YES |
| L0001299 | 0 | 0.18800E-07 | 377241.8 | 3747395.0 | 18.4 | 0.00 | 1.70 | 0.85 | YES |
| L0001300 | 0 | 0.18800E-07 | 377243.6 | 3747398.2 | 18.4 | 0.00 | 1.70 | 0.85 | YES |
| L0001301 | 0 | 0.18800E-07 | 377245.3 | 3747401.4 | 18.4 | 0.00 | 1.70 | 0.85 | YES |
| L0001302 | 0 | 0.18800E-07 | 377247.0 | 3747404.6 | 18.4 | 0.00 | 1.70 | 0.85 | YES |
| L0001303 | 0 | 0.18800E-07 | 377248.8 | 3747407.9 | 18.4 | 0.00 | 1.70 | 0.85 | YES |
| L0001304 | 0 | 0.18800E-07 | 377250.5 | 3747411.1 | 18.4 | 0.00 | 1.70 | 0.85 | YES |
| L0001305 | 0 | 0.18800E-07 | 377252.2 | 3747414.3 | 18.4 | 0.00 | 1.70 | 0.85 | YES |
| L0001306 | 0 | 0.18800E-07 | 377254.0 | 3747417.5 | 18.4 | 0.00 | 1.70 | 0.85 | YES |
| L0001307 | 0 | 0.18800E-07 | 377255.7 | 3747420.7 | 18.5 | 0.00 | 1.70 | 0.85 | YES |
| L0001308 | 0 | 0.18800E-07 | 377257.5 | 3747423.9 | 18.5 | 0.00 | 1.70 | 0.85 | YES |
| L0001309 | 0 | 0.18800E-07 | 377259.3 | 3747427.1 | 18.5 | 0.00 | 1.70 | 0.85 | YES |
| L0001310 | 0 | 0.18800E-07 | 377261.2 | 3747430.3 | 18.6 | 0.00 | 1.70 | 0.85 | YES |
| L0001311 | 0 | 0.18800E-07 | 377263.0 | 3747433.4 | 18.6 | 0.00 | 1.70 | 0.85 | YES |
| L0001312 | 0 | 0.18800E-07 | 377264.8 | 3747436.6 | 18.6 | 0.00 | 1.70 | 0.85 | YES |
| L0001313 | 0 | 0.18800E-07 | 377266.6 | 3747439.8 | 18.7 | 0.00 | 1.70 | 0.85 | YES |
| L0001314 | 0 | 0.18800E-07 | 377268.4 | 3747443.0 | 18.7 | 0.00 | 1.70 | 0.85 | YES |
| L0001315 | 0 | 0.18800E-07 | 377270.2 | 3747446.1 | 18.7 | 0.00 | 1.70 | 0.85 | YES |
| L0001316 | 0 | 0.18800E-07 | 377272.0 | 3747449.3 | 18.7 | 0.00 | 1.70 | 0.85 | YES |
| L0001317 | 0 | 0.18800E-07 | 377273.9 | 3747452.5 | 18.7 | 0.00 | 1.70 | 0.85 | YES |
| L0001318 | 0 | 0.18800E-07 | 377275.7 | 3747455.7 | 18.7 | 0.00 | 1.70 | 0.85 | YES |
| L0001319 | 0 | 0.18800E-07 | 377277.5 | 3747458.8 | 18.7 | 0.00 | 1.70 | 0.85 | YES |
| L0001320 | 0 | 0.18800E-07 | 377279.3 | 3747462.0 | 18.7 | 0.00 | 1.70 | 0.85 | YES |
| L0001321 | 0 | 0.18800E-07 | 377281.0 | 3747465.2 | 18.7 | 0.00 | 1.70 | 0.85 | YES |
| L0001322 | 0 | 0.18800E-07 | 377282.7 | 3747468.5 | 18.7 | 0.00 | 1.70 | 0.85 | YES |
| L0001323 | 0 | 0.18800E-07 | 377284.3 | 3747471.8 | 18.7 | 0.00 | 1.70 | 0.85 | YES |
| L0001324 | 0 | 0.18800E-07 | 377285.9 | 3747475.1 | 18.8 | 0.00 | 1.70 | 0.85 | YES |
| L0001325 | 0 | 0.18800E-07 | 377287.6 | 3747478.3 | 18.8 | 0.00 | 1.70 | 0.85 | YES |
| L0001326 | 0 | 0.18800E-07 | 377289.2 | 3747481.6 | 18.9 | 0.00 | 1.70 | 0.85 | YES |
| L0001327 | 0 | 0.30640E-07 | 377164.3 | 3747238.2 | 18.1 | 0.00 | 1.70 | 0.85 | YES |
| L0001328 | 0 | 0.30640E-07 | 377168.0 | 3747238.2 | 18.1 | 0.00 | 1.70 | 0.85 | YES |
| L0001329 | 0 | 0.30640E-07 | 377171.6 | 3747238.2 | 18.0 | 0.00 | 1.70 | 0.85 | YES |



*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| L0001330 | 0 | 0.30640E-07 | 377175.3 | 3747238.2 | 18.0 | 0.00 | 1.70 | 0.85 | YES | |
| L0001331 | 0 | 0.30640E-07 | 377179.0 | 3747238.2 | 18.0 | 0.00 | 1.70 | 0.85 | YES | |
| L0001332 | 0 | 0.30640E-07 | 377182.6 | 3747238.2 | 18.0 | 0.00 | 1.70 | 0.85 | YES | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| L0001333 | 0 | 0.30640E-07 | 377186.3 | 3747238.3 | 18.0 | 0.00 | 1.70 | 0.85 | YES |
| L0001334 | 0 | 0.30640E-07 | 377189.9 | 3747238.3 | 18.0 | 0.00 | 1.70 | 0.85 | YES |
| L0001335 | 0 | 0.30640E-07 | 377193.6 | 3747238.3 | 18.0 | 0.00 | 1.70 | 0.85 | YES |
| L0001336 | 0 | 0.30640E-07 | 377197.2 | 3747238.3 | 18.0 | 0.00 | 1.70 | 0.85 | YES |
| L0001337 | 0 | 0.30640E-07 | 377200.9 | 3747238.3 | 18.0 | 0.00 | 1.70 | 0.85 | YES |
| L0001338 | 0 | 0.30640E-07 | 377204.6 | 3747238.3 | 18.0 | 0.00 | 1.70 | 0.85 | YES |
| L0001339 | 0 | 0.30640E-07 | 377208.2 | 3747238.3 | 18.0 | 0.00 | 1.70 | 0.85 | YES |
| L0001340 | 0 | 0.30640E-07 | 377211.9 | 3747238.3 | 18.0 | 0.00 | 1.70 | 0.85 | YES |
| L0001341 | 0 | 0.30640E-07 | 377215.5 | 3747238.4 | 17.9 | 0.00 | 1.70 | 0.85 | YES |
| L0001342 | 0 | 0.30640E-07 | 377219.2 | 3747238.4 | 17.9 | 0.00 | 1.70 | 0.85 | YES |
| L0001343 | 0 | 0.30640E-07 | 377222.8 | 3747238.4 | 17.9 | 0.00 | 1.70 | 0.85 | YES |
| L0001344 | 0 | 0.30640E-07 | 377226.5 | 3747238.4 | 17.8 | 0.00 | 1.70 | 0.85 | YES |
| L0001345 | 0 | 0.30640E-07 | 377230.2 | 3747238.4 | 17.8 | 0.00 | 1.70 | 0.85 | YES |
| L0001346 | 0 | 0.30640E-07 | 377233.8 | 3747238.4 | 17.7 | 0.00 | 1.70 | 0.85 | YES |
| L0001347 | 0 | 0.30640E-07 | 377237.5 | 3747238.4 | 17.7 | 0.00 | 1.70 | 0.85 | YES |
| L0001348 | 0 | 0.30640E-07 | 377241.1 | 3747238.5 | 17.7 | 0.00 | 1.70 | 0.85 | YES |
| L0001349 | 0 | 0.30640E-07 | 377244.8 | 3747238.5 | 17.7 | 0.00 | 1.70 | 0.85 | YES |
| L0001350 | 0 | 0.30640E-07 | 377248.4 | 3747238.5 | 17.7 | 0.00 | 1.70 | 0.85 | YES |
| L0001351 | 0 | 0.30640E-07 | 377252.1 | 3747238.5 | 17.7 | 0.00 | 1.70 | 0.85 | YES |
| L0001352 | 0 | 0.30640E-07 | 377255.8 | 3747238.5 | 17.7 | 0.00 | 1.70 | 0.85 | YES |
| L0001353 | 0 | 0.30640E-07 | 377259.4 | 3747238.5 | 17.7 | 0.00 | 1.70 | 0.85 | YES |
| L0001354 | 0 | 0.30640E-07 | 377263.1 | 3747238.5 | 17.8 | 0.00 | 1.70 | 0.85 | YES |
| L0001355 | 0 | 0.30640E-07 | 377266.7 | 3747238.6 | 17.8 | 0.00 | 1.70 | 0.85 | YES |
| L0001356 | 0 | 0.30640E-07 | 377270.4 | 3747238.6 | 17.8 | 0.00 | 1.70 | 0.85 | YES |
| L0001357 | 0 | 0.30640E-07 | 377274.0 | 3747238.6 | 17.8 | 0.00 | 1.70 | 0.85 | YES |
| L0001358 | 0 | 0.30640E-07 | 377277.7 | 3747238.6 | 17.8 | 0.00 | 1.70 | 0.85 | YES |
| L0001359 | 0 | 0.30640E-07 | 377281.4 | 3747238.6 | 17.8 | 0.00 | 1.70 | 0.85 | YES |
| L0001360 | 0 | 0.30640E-07 | 377285.0 | 3747238.6 | 17.8 | 0.00 | 1.70 | 0.85 | YES |
| L0001361 | 0 | 0.30640E-07 | 377288.7 | 3747238.6 | 17.8 | 0.00 | 1.70 | 0.85 | YES |
| L0001362 | 0 | 0.30640E-07 | 377292.3 | 3747238.6 | 17.9 | 0.00 | 1.70 | 0.85 | YES |
| L0001363 | 0 | 0.30640E-07 | 377296.0 | 3747238.7 | 17.9 | 0.00 | 1.70 | 0.85 | YES |
| L0001364 | 0 | 0.30640E-07 | 377299.6 | 3747238.7 | 17.9 | 0.00 | 1.70 | 0.85 | YES |
| L0001365 | 0 | 0.30640E-07 | 377303.3 | 3747238.7 | 18.0 | 0.00 | 1.70 | 0.85 | YES |
| L0001366 | 0 | 0.30640E-07 | 377307.0 | 3747238.7 | 18.0 | 0.00 | 1.70 | 0.85 | YES |
| L0001367 | 0 | 0.30640E-07 | 377310.6 | 3747238.7 | 18.1 | 0.00 | 1.70 | 0.85 | YES |
| L0001368 | 0 | 0.30640E-07 | 377314.3 | 3747238.7 | 18.1 | 0.00 | 1.70 | 0.85 | YES |
| L0001369 | 0 | 0.30640E-07 | 377317.9 | 3747238.7 | 18.1 | 0.00 | 1.70 | 0.85 | YES |



*** MODELOPTs:  RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

*** 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 |
|---|---|---|---|---|---|---|---|---|---|---|

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| L0001370 | 0 | 0.30640E-07 | 377321.6 | 3747238.8 | 18.2 | 0.00 | 1.70 | 0.85 | YES |
| L0001371 | 0 | 0.30640E-07 | 377325.3 | 3747238.8 | 18.2 | 0.00 | 1.70 | 0.85 | YES |
| L0001372 | 0 | 0.30640E-07 | 377328.9 | 3747238.8 | 18.3 | 0.00 | 1.70 | 0.85 | YES |
| L0001373 | 0 | 0.30640E-07 | 377332.6 | 3747238.8 | 18.3 | 0.00 | 1.70 | 0.85 | YES |
| L0001374 | 0 | 0.30640E-07 | 377336.2 | 3747238.8 | 18.4 | 0.00 | 1.70 | 0.85 | YES |
| L0001375 | 0 | 0.30640E-07 | 377339.9 | 3747238.8 | 18.4 | 0.00 | 1.70 | 0.85 | YES |
| L0001376 | 0 | 0.30640E-07 | 377343.5 | 3747238.8 | 18.4 | 0.00 | 1.70 | 0.85 | YES |
| L0001377 | 0 | 0.30640E-07 | 377347.2 | 3747238.9 | 18.5 | 0.00 | 1.70 | 0.85 | YES |
| L0001378 | 0 | 0.30640E-07 | 377350.9 | 3747238.9 | 18.5 | 0.00 | 1.70 | 0.85 | YES |
| L0001379 | 0 | 0.30640E-07 | 377354.5 | 3747238.9 | 18.6 | 0.00 | 1.70 | 0.85 | YES |
| L0001380 | 0 | 0.30640E-07 | 377358.2 | 3747238.9 | 18.6 | 0.00 | 1.70 | 0.85 | YES |
| L0001381 | 0 | 0.30640E-07 | 377361.8 | 3747238.9 | 18.6 | 0.00 | 1.70 | 0.85 | YES |
| L0001382 | 0 | 0.30640E-07 | 377365.5 | 3747238.9 | 18.7 | 0.00 | 1.70 | 0.85 | YES |
| L0001383 | 0 | 0.30640E-07 | 377369.1 | 3747238.9 | 18.7 | 0.00 | 1.70 | 0.85 | YES |
| L0001384 | 0 | 0.30640E-07 | 377372.8 | 3747238.9 | 18.8 | 0.00 | 1.70 | 0.85 | YES |
| L0001385 | 0 | 0.30640E-07 | 377376.5 | 3747239.0 | 18.8 | 0.00 | 1.70 | 0.85 | YES |
| L0001386 | 0 | 0.30640E-07 | 377380.1 | 3747239.0 | 18.8 | 0.00 | 1.70 | 0.85 | YES |
| L0001387 | 0 | 0.30640E-07 | 377383.8 | 3747239.0 | 18.8 | 0.00 | 1.70 | 0.85 | YES |
| L0001388 | 0 | 0.30640E-07 | 377387.4 | 3747239.0 | 18.9 | 0.00 | 1.70 | 0.85 | YES |
| L0001389 | 0 | 0.30640E-07 | 377391.1 | 3747239.0 | 18.9 | 0.00 | 1.70 | 0.85 | YES |
| L0001390 | 0 | 0.30640E-07 | 377394.7 | 3747239.0 | 18.9 | 0.00 | 1.70 | 0.85 | YES |
| L0001391 | 0 | 0.30640E-07 | 377398.4 | 3747239.0 | 19.0 | 0.00 | 1.70 | 0.85 | YES |
| L0001392 | 0 | 0.30640E-07 | 377402.1 | 3747239.1 | 19.0 | 0.00 | 1.70 | 0.85 | YES |
| L0001393 | 0 | 0.30640E-07 | 377405.7 | 3747239.1 | 19.1 | 0.00 | 1.70 | 0.85 | YES |
| L0001394 | 0 | 0.30640E-07 | 377409.4 | 3747239.1 | 19.2 | 0.00 | 1.70 | 0.85 | YES |
| L0001395 | 0 | 0.30640E-07 | 377413.0 | 3747239.1 | 19.2 | 0.00 | 1.70 | 0.85 | YES |
| L0001396 | 0 | 0.30640E-07 | 377416.7 | 3747239.1 | 19.3 | 0.00 | 1.70 | 0.85 | YES |
| L0001397 | 0 | 0.30640E-07 | 377420.3 | 3747239.1 | 19.3 | 0.00 | 1.70 | 0.85 | YES |
| L0001398 | 0 | 0.30640E-07 | 377424.0 | 3747239.1 | 19.4 | 0.00 | 1.70 | 0.85 | YES |
| L0001399 | 0 | 0.30640E-07 | 377427.7 | 3747239.2 | 19.4 | 0.00 | 1.70 | 0.85 | YES |
| L0001400 | 0 | 0.30640E-07 | 377431.3 | 3747239.2 | 19.4 | 0.00 | 1.70 | 0.85 | YES |
| L0001401 | 0 | 0.30640E-07 | 377435.0 | 3747239.2 | 19.5 | 0.00 | 1.70 | 0.85 | YES |
| L0001402 | 0 | 0.30640E-07 | 377438.6 | 3747239.2 | 19.5 | 0.00 | 1.70 | 0.85 | YES |
| L0001403 | 0 | 0.30640E-07 | 377442.3 | 3747239.2 | 19.5 | 0.00 | 1.70 | 0.85 | YES |
| L0001404 | 0 | 0.30640E-07 | 377446.0 | 3747239.2 | 19.6 | 0.00 | 1.70 | 0.85 | YES |
| L0001405 | 0 | 0.30640E-07 | 377449.6 | 3747239.2 | 19.6 | 0.00 | 1.70 | 0.85 | YES |
| L0001406 | 0 | 0.30640E-07 | 377453.3 | 3747239.3 | 19.7 | 0.00 | 1.70 | 0.85 | YES |
| L0001407 | 0 | 0.30640E-07 | 377456.9 | 3747239.3 | 19.7 | 0.00 | 1.70 | 0.85 | YES |
| L0001408 | 0 | 0.30640E-07 | 377460.6 | 3747239.3 | 19.7 | 0.00 | 1.70 | 0.85 | YES |
| L0001409 | 0 | 0.30640E-07 | 377464.2 | 3747239.3 | 19.7 | 0.00 | 1.70 | 0.85 | YES |



*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

| SOURCE | NUMBER PART. | EMISSION RATE (GRAMS/SEC) | X | Y | BASE ELEV. | RELEASE HEIGHT | INIT. SY | INIT. SZ | URBAN SOURCE | EMISSION RATE SCALAR VARY |
|---|---|---|---|---|---|---|---|---|---|---|

| ID | CATS. | | (METERS) | (METERS) | (METERS) | (METERS) | (METERS) | (METERS) | BY |
|---|---|---|---|---|---|---|---|---|---|
| L0001410 | 0 | 0.30640E-07 | 377467.9 | 3747239.3 | 19.8 | 0.00 | 1.70 | 0.85 | YES |
| L0001411 | 0 | 0.30640E-07 | 377471.6 | 3747239.3 | 19.8 | 0.00 | 1.70 | 0.85 | YES |
| L0001412 | 0 | 0.30640E-07 | 377475.2 | 3747239.3 | 19.8 | 0.00 | 1.70 | 0.85 | YES |
| L0001413 | 0 | 0.30640E-07 | 377478.9 | 3747239.3 | 19.8 | 0.00 | 1.70 | 0.85 | YES |
| L0001414 | 0 | 0.30640E-07 | 377482.5 | 3747239.4 | 19.8 | 0.00 | 1.70 | 0.85 | YES |
| L0001415 | 0 | 0.30640E-07 | 377486.2 | 3747239.4 | 19.8 | 0.00 | 1.70 | 0.85 | YES |
| L0001416 | 0 | 0.30640E-07 | 377489.8 | 3747239.4 | 19.8 | 0.00 | 1.70 | 0.85 | YES |
| L0001417 | 0 | 0.30640E-07 | 377493.5 | 3747239.4 | 19.8 | 0.00 | 1.70 | 0.85 | YES |
| L0001418 | 0 | 0.30640E-07 | 377497.2 | 3747239.4 | 19.8 | 0.00 | 1.70 | 0.85 | YES |
| L0001419 | 0 | 0.30640E-07 | 377500.8 | 3747239.4 | 19.8 | 0.00 | 1.70 | 0.85 | YES |
| L0001420 | 0 | 0.30640E-07 | 377504.5 | 3747239.4 | 19.7 | 0.00 | 1.70 | 0.85 | YES |
| L0001421 | 0 | 0.30640E-07 | 377508.1 | 3747239.5 | 19.7 | 0.00 | 1.70 | 0.85 | YES |
| L0001422 | 0 | 0.30640E-07 | 377511.8 | 3747239.5 | 19.7 | 0.00 | 1.70 | 0.85 | YES |
| L0001423 | 0 | 0.30640E-07 | 377515.4 | 3747239.5 | 19.7 | 0.00 | 1.70 | 0.85 | YES |
| L0001424 | 0 | 0.30640E-07 | 377519.1 | 3747239.5 | 19.7 | 0.00 | 1.70 | 0.85 | YES |
| L0001425 | 0 | 0.30640E-07 | 377522.8 | 3747239.5 | 19.6 | 0.00 | 1.70 | 0.85 | YES |
| L0001426 | 0 | 0.30640E-07 | 377526.4 | 3747239.5 | 19.6 | 0.00 | 1.70 | 0.85 | YES |
| L0001427 | 0 | 0.30640E-07 | 377530.1 | 3747239.5 | 19.6 | 0.00 | 1.70 | 0.85 | YES |
| L0001428 | 0 | 0.30640E-07 | 377533.7 | 3747239.6 | 19.6 | 0.00 | 1.70 | 0.85 | YES |
| L0001429 | 0 | 0.30640E-07 | 377537.4 | 3747239.6 | 19.6 | 0.00 | 1.70 | 0.85 | YES |
| L0001430 | 0 | 0.30640E-07 | 377541.0 | 3747239.6 | 19.5 | 0.00 | 1.70 | 0.85 | YES |
| L0001431 | 0 | 0.30640E-07 | 377544.7 | 3747239.6 | 19.5 | 0.00 | 1.70 | 0.85 | YES |
| L0001432 | 0 | 0.30640E-07 | 377548.4 | 3747239.6 | 19.5 | 0.00 | 1.70 | 0.85 | YES |
| L0001433 | 0 | 0.30640E-07 | 377552.0 | 3747239.6 | 19.5 | 0.00 | 1.70 | 0.85 | YES |
| L0001434 | 0 | 0.30640E-07 | 377555.7 | 3747239.6 | 19.5 | 0.00 | 1.70 | 0.85 | YES |
| L0001435 | 0 | 0.30640E-07 | 377559.3 | 3747239.6 | 19.5 | 0.00 | 1.70 | 0.85 | YES |
| L0001436 | 0 | 0.30640E-07 | 377563.0 | 3747239.7 | 19.5 | 0.00 | 1.70 | 0.85 | YES |
| L0001437 | 0 | 0.30640E-07 | 377566.7 | 3747239.7 | 19.4 | 0.00 | 1.70 | 0.85 | YES |
| L0001438 | 0 | 0.30640E-07 | 377570.3 | 3747239.7 | 19.4 | 0.00 | 1.70 | 0.85 | YES |
| L0001439 | 0 | 0.30640E-07 | 377574.0 | 3747239.7 | 19.4 | 0.00 | 1.70 | 0.85 | YES |
| L0001440 | 0 | 0.30640E-07 | 377577.6 | 3747239.7 | 19.4 | 0.00 | 1.70 | 0.85 | YES |
| L0001441 | 0 | 0.30640E-07 | 377581.3 | 3747239.7 | 19.4 | 0.00 | 1.70 | 0.85 | YES |
| L0001442 | 0 | 0.30640E-07 | 377584.9 | 3747239.7 | 19.3 | 0.00 | 1.70 | 0.85 | YES |
| L0001443 | 0 | 0.30640E-07 | 377588.6 | 3747239.8 | 19.3 | 0.00 | 1.70 | 0.85 | YES |
| L0001444 | 0 | 0.30640E-07 | 377592.3 | 3747239.8 | 19.3 | 0.00 | 1.70 | 0.85 | YES |
| L0001445 | 0 | 0.30640E-07 | 377595.9 | 3747239.8 | 19.2 | 0.00 | 1.70 | 0.85 | YES |
| L0001446 | 0 | 0.30640E-07 | 377599.6 | 3747239.8 | 19.2 | 0.00 | 1.70 | 0.85 | YES |
| L0001447 | 0 | 0.30640E-07 | 377603.2 | 3747239.8 | 19.2 | 0.00 | 1.70 | 0.85 | YES |
| L0001448 | 0 | 0.30640E-07 | 377606.9 | 3747239.8 | 19.2 | 0.00 | 1.70 | 0.85 | YES |
| L0001449 | 0 | 0.30640E-07 | 377610.5 | 3747239.8 | 19.2 | 0.00 | 1.70 | 0.85 | YES |



*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| L0001450 | 0 | 0.30640E-07 | 377614.2 | 3747239.9 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0001451 | 0 | 0.30640E-07 | 377617.9 | 3747239.9 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0001452 | 0 | 0.30640E-07 | 377621.5 | 3747239.9 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0001453 | 0 | 0.30640E-07 | 377625.2 | 3747239.9 | 19.1 | 0.00 | 1.70 | 0.85 | YES | |
| L0001454 | 0 | 0.30640E-07 | 377628.8 | 3747239.9 | 19.1 | 0.00 | 1.70 | 0.85 | YES | |
| L0001455 | 0 | 0.30640E-07 | 377632.5 | 3747239.9 | 19.1 | 0.00 | 1.70 | 0.85 | YES | |
| L0001456 | 0 | 0.30640E-07 | 377636.1 | 3747239.9 | 19.1 | 0.00 | 1.70 | 0.85 | YES | |
| L0001457 | 0 | 0.30640E-07 | 377639.8 | 3747239.9 | 19.1 | 0.00 | 1.70 | 0.85 | YES | |
| L0001458 | 0 | 0.30640E-07 | 377643.5 | 3747240.0 | 19.0 | 0.00 | 1.70 | 0.85 | YES | |
| L0001459 | 0 | 0.30640E-07 | 377647.1 | 3747240.0 | 19.0 | 0.00 | 1.70 | 0.85 | YES | |
| L0001460 | 0 | 0.30640E-07 | 377650.8 | 3747240.0 | 19.0 | 0.00 | 1.70 | 0.85 | YES | |
| L0001461 | 0 | 0.30640E-07 | 377654.4 | 3747240.0 | 19.0 | 0.00 | 1.70 | 0.85 | YES | |
| L0001462 | 0 | 0.30640E-07 | 377658.1 | 3747240.0 | 18.9 | 0.00 | 1.70 | 0.85 | YES | |
| L0001463 | 0 | 0.30640E-07 | 377661.7 | 3747240.0 | 18.9 | 0.00 | 1.70 | 0.85 | YES | |
| L0001464 | 0 | 0.30640E-07 | 377665.4 | 3747240.0 | 18.9 | 0.00 | 1.70 | 0.85 | YES | |
| L0001465 | 0 | 0.30640E-07 | 377669.1 | 3747240.1 | 18.9 | 0.00 | 1.70 | 0.85 | YES | |
| L0001466 | 0 | 0.30640E-07 | 377672.7 | 3747240.1 | 18.8 | 0.00 | 1.70 | 0.85 | YES | |
| L0001467 | 0 | 0.30640E-07 | 377676.4 | 3747240.1 | 18.8 | 0.00 | 1.70 | 0.85 | YES | |
| L0001468 | 0 | 0.30640E-07 | 377680.0 | 3747240.1 | 18.8 | 0.00 | 1.70 | 0.85 | YES | |
| L0001469 | 0 | 0.30640E-07 | 377683.7 | 3747240.1 | 18.8 | 0.00 | 1.70 | 0.85 | YES | |
| L0001470 | 0 | 0.30640E-07 | 377687.4 | 3747240.1 | 18.8 | 0.00 | 1.70 | 0.85 | YES | |
| L0001471 | 0 | 0.30640E-07 | 377691.0 | 3747240.1 | 18.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0001472 | 0 | 0.30640E-07 | 377694.7 | 3747240.2 | 18.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0001473 | 0 | 0.30640E-07 | 377698.3 | 3747240.2 | 18.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0001474 | 0 | 0.30640E-07 | 377702.0 | 3747240.2 | 18.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0001475 | 0 | 0.30640E-07 | 377705.6 | 3747240.2 | 18.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0001476 | 0 | 0.30640E-07 | 377709.3 | 3747240.2 | 18.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0001477 | 0 | 0.30640E-07 | 377713.0 | 3747240.2 | 18.6 | 0.00 | 1.70 | 0.85 | YES | |
| L0001478 | 0 | 0.30640E-07 | 377716.6 | 3747240.2 | 18.6 | 0.00 | 1.70 | 0.85 | YES | |
| L0001479 | 0 | 0.30640E-07 | 377720.3 | 3747240.2 | 18.6 | 0.00 | 1.70 | 0.85 | YES | |
| L0001480 | 0 | 0.30640E-07 | 377723.9 | 3747240.3 | 18.6 | 0.00 | 1.70 | 0.85 | YES | |
| L0001481 | 0 | 0.30640E-07 | 377727.6 | 3747240.3 | 18.5 | 0.00 | 1.70 | 0.85 | YES | |
| L0001482 | 0 | 0.30640E-07 | 377731.2 | 3747240.3 | 18.5 | 0.00 | 1.70 | 0.85 | YES | |
| L0001483 | 0 | 0.30640E-07 | 377734.9 | 3747240.3 | 18.5 | 0.00 | 1.70 | 0.85 | YES | |
| L0001484 | 0 | 0.30640E-07 | 377738.6 | 3747240.3 | 18.5 | 0.00 | 1.70 | 0.85 | YES | |
| L0001485 | 0 | 0.30640E-07 | 377742.2 | 3747240.3 | 18.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0001486 | 0 | 0.30640E-07 | 377745.9 | 3747240.3 | 18.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0001487 | 0 | 0.30640E-07 | 377749.5 | 3747240.4 | 18.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0001488 | 0 | 0.30640E-07 | 377753.2 | 3747240.4 | 18.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0001489 | 0 | 0.30640E-07 | 377756.8 | 3747240.4 | 18.3 | 0.00 | 1.70 | 0.85 | YES | |



*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| L0001490 | 0 | 0.30640E-07 | 377760.5 | 3747240.4 | 18.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0001491 | 0 | 0.30640E-07 | 377764.2 | 3747240.4 | 18.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0001492 | 0 | 0.30640E-07 | 377767.8 | 3747240.4 | 18.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0001493 | 0 | 0.30640E-07 | 377771.5 | 3747240.4 | 18.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0001494 | 0 | 0.30640E-07 | 377775.1 | 3747240.5 | 18.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0001495 | 0 | 0.30640E-07 | 377778.8 | 3747240.5 | 18.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0001496 | 0 | 0.30640E-07 | 377782.4 | 3747240.5 | 18.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0001497 | 0 | 0.30640E-07 | 377786.1 | 3747240.5 | 18.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0001498 | 0 | 0.30640E-07 | 377789.8 | 3747240.5 | 18.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0001499 | 0 | 0.30640E-07 | 377793.4 | 3747240.5 | 18.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0001500 | 0 | 0.30640E-07 | 377797.1 | 3747240.5 | 18.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0001501 | 0 | 0.30640E-07 | 377800.7 | 3747240.5 | 18.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0001502 | 0 | 0.30640E-07 | 377804.4 | 3747240.6 | 18.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0001503 | 0 | 0.30640E-07 | 377808.1 | 3747240.6 | 18.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0001504 | 0 | 0.30640E-07 | 377811.7 | 3747240.6 | 18.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0001505 | 0 | 0.30640E-07 | 377815.4 | 3747240.6 | 18.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0001506 | 0 | 0.30640E-07 | 377819.0 | 3747240.6 | 18.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0001507 | 0 | 0.30640E-07 | 377822.7 | 3747240.6 | 18.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0001508 | 0 | 0.30640E-07 | 377826.3 | 3747240.6 | 18.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0001509 | 0 | 0.30640E-07 | 377830.0 | 3747240.7 | 18.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0001510 | 0 | 0.30640E-07 | 377833.7 | 3747240.7 | 18.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0001511 | 0 | 0.30640E-07 | 377837.3 | 3747240.7 | 18.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0001512 | 0 | 0.30640E-07 | 377841.0 | 3747240.7 | 18.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0001513 | 0 | 0.30640E-07 | 377844.6 | 3747240.7 | 18.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0001514 | 0 | 0.30640E-07 | 377848.3 | 3747240.7 | 18.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0001515 | 0 | 0.30640E-07 | 377851.9 | 3747240.7 | 18.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0001516 | 0 | 0.30640E-07 | 377855.6 | 3747240.8 | 18.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0001517 | 0 | 0.30640E-07 | 377859.3 | 3747240.8 | 18.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0001518 | 0 | 0.30640E-07 | 377862.9 | 3747240.8 | 18.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0001519 | 0 | 0.30640E-07 | 377866.6 | 3747240.8 | 18.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0001520 | 0 | 0.30640E-07 | 377870.2 | 3747240.8 | 18.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0001521 | 0 | 0.30640E-07 | 377873.9 | 3747240.8 | 18.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0001522 | 0 | 0.30640E-07 | 377877.5 | 3747240.8 | 18.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0001523 | 0 | 0.30640E-07 | 377881.2 | 3747240.9 | 18.5 | 0.00 | 1.70 | 0.85 | YES | |
| L0001524 | 0 | 0.30640E-07 | 377884.9 | 3747240.9 | 18.5 | 0.00 | 1.70 | 0.85 | YES | |
| L0001525 | 0 | 0.30640E-07 | 377888.5 | 3747240.9 | 18.5 | 0.00 | 1.70 | 0.85 | YES | |
| L0001526 | 0 | 0.30640E-07 | 377892.2 | 3747240.9 | 18.5 | 0.00 | 1.70 | 0.85 | YES | |
| L0001527 | 0 | 0.30640E-07 | 377895.8 | 3747240.9 | 18.6 | 0.00 | 1.70 | 0.85 | YES | |
| L0001528 | 0 | 0.30640E-07 | 377899.5 | 3747240.9 | 18.6 | 0.00 | 1.70 | 0.85 | YES | |
| L0001529 | 0 | 0.30640E-07 | 377903.1 | 3747240.9 | 18.6 | 0.00 | 1.70 | 0.85 | YES | |

*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

*** 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 | 0.30640E-07 | 377906.8 | 3747240.9 | 18.6 | 0.00 | 1.70 | 0.85 | YES | |
| L0001531 | 0 | 0.30640E-07 | 377910.5 | 3747241.0 | 18.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0001532 | 0 | 0.30640E-07 | 377914.1 | 3747241.0 | 18.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0001533 | 0 | 0.30640E-07 | 377917.8 | 3747241.0 | 18.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0001534 | 0 | 0.30640E-07 | 377921.4 | 3747241.0 | 18.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0001535 | 0 | 0.30640E-07 | 377925.1 | 3747241.0 | 18.8 | 0.00 | 1.70 | 0.85 | YES | |
| L0001536 | 0 | 0.30640E-07 | 377928.8 | 3747241.0 | 18.8 | 0.00 | 1.70 | 0.85 | YES | |
| L0001537 | 0 | 0.30640E-07 | 377932.4 | 3747241.0 | 18.8 | 0.00 | 1.70 | 0.85 | YES | |
| L0001538 | 0 | 0.30640E-07 | 377936.1 | 3747241.1 | 18.9 | 0.00 | 1.70 | 0.85 | YES | |
| L0001539 | 0 | 0.30640E-07 | 377939.7 | 3747241.1 | 18.9 | 0.00 | 1.70 | 0.85 | YES | |
| L0001540 | 0 | 0.30640E-07 | 377943.4 | 3747241.1 | 18.9 | 0.00 | 1.70 | 0.85 | YES | |
| L0001541 | 0 | 0.30640E-07 | 377947.0 | 3747241.1 | 19.0 | 0.00 | 1.70 | 0.85 | YES | |
| L0001542 | 0 | 0.30640E-07 | 377950.7 | 3747241.1 | 19.1 | 0.00 | 1.70 | 0.85 | YES | |
| L0001543 | 0 | 0.30640E-07 | 377954.4 | 3747241.1 | 19.1 | 0.00 | 1.70 | 0.85 | YES | |
| L0001544 | 0 | 0.30640E-07 | 377958.0 | 3747241.1 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0001545 | 0 | 0.30640E-07 | 377961.7 | 3747241.2 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0001546 | 0 | 0.30640E-07 | 377965.3 | 3747241.2 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0001547 | 0 | 0.30640E-07 | 377969.0 | 3747241.2 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0001548 | 0 | 0.30640E-07 | 377972.6 | 3747241.2 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0001549 | 0 | 0.30640E-07 | 377976.3 | 3747241.2 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0001550 | 0 | 0.30640E-07 | 377980.0 | 3747241.2 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0001551 | 0 | 0.30640E-07 | 377983.6 | 3747241.2 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0001552 | 0 | 0.30640E-07 | 377987.3 | 3747241.2 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0001553 | 0 | 0.30640E-07 | 377990.9 | 3747241.3 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0001554 | 0 | 0.30640E-07 | 377994.6 | 3747241.3 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0001555 | 0 | 0.30640E-07 | 377998.2 | 3747241.3 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0001556 | 0 | 0.30640E-07 | 378001.9 | 3747241.3 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0001557 | 0 | 0.30640E-07 | 378005.6 | 3747241.3 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0001558 | 0 | 0.30640E-07 | 378009.2 | 3747241.3 | 19.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0001559 | 0 | 0.30640E-07 | 378012.9 | 3747241.3 | 19.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0001560 | 0 | 0.30640E-07 | 378016.5 | 3747241.4 | 19.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0001561 | 0 | 0.30640E-07 | 378020.2 | 3747241.4 | 19.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0001562 | 0 | 0.30640E-07 | 378023.8 | 3747241.4 | 19.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0001563 | 0 | 0.30640E-07 | 378027.5 | 3747241.4 | 19.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0001564 | 0 | 0.30640E-07 | 378031.2 | 3747241.4 | 19.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0001565 | 0 | 0.30640E-07 | 378034.8 | 3747241.4 | 19.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0001566 | 0 | 0.30640E-07 | 378038.5 | 3747241.4 | 19.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0001567 | 0 | 0.30640E-07 | 378042.1 | 3747241.5 | 19.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0001568 | 0 | 0.30640E-07 | 378045.8 | 3747241.5 | 19.5 | 0.00 | 1.70 | 0.85 | YES | |

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| L0001569 | 0 | 0.30640E-07 | 378049.5 | 3747241.5 | 19.5 | 0.00 | 1.70 | 0.85 | YES | |
| L0001570 | 0 | 0.30640E-07 | 378053.1 | 3747241.5 | 19.6 | 0.00 | 1.70 | 0.85 | YES | |
| L0001571 | 0 | 0.30640E-07 | 378056.8 | 3747241.5 | 19.6 | 0.00 | 1.70 | 0.85 | YES | |
| L0001572 | 0 | 0.30640E-07 | 378060.4 | 3747241.5 | 19.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0001573 | 0 | 0.30640E-07 | 378064.1 | 3747241.5 | 19.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0001574 | 0 | 0.30640E-07 | 378067.7 | 3747241.5 | 19.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0001575 | 0 | 0.30640E-07 | 378071.4 | 3747241.6 | 19.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0001576 | 0 | 0.30640E-07 | 378075.1 | 3747241.6 | 19.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0001577 | 0 | 0.30640E-07 | 378078.7 | 3747241.6 | 19.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0001578 | 0 | 0.30640E-07 | 378082.4 | 3747241.6 | 19.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0001579 | 0 | 0.30640E-07 | 378086.0 | 3747241.6 | 19.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0001580 | 0 | 0.30640E-07 | 378089.7 | 3747241.6 | 19.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0001581 | 0 | 0.30640E-07 | 378093.3 | 3747241.6 | 19.8 | 0.00 | 1.70 | 0.85 | YES | |
| L0001582 | 0 | 0.30640E-07 | 378097.0 | 3747241.7 | 19.8 | 0.00 | 1.70 | 0.85 | YES | |
| L0001583 | 0 | 0.30640E-07 | 378100.7 | 3747241.7 | 19.8 | 0.00 | 1.70 | 0.85 | YES | |
| L0001584 | 0 | 0.30640E-07 | 378104.3 | 3747241.7 | 19.8 | 0.00 | 1.70 | 0.85 | YES | |
| L0001585 | 0 | 0.30640E-07 | 378108.0 | 3747241.7 | 19.9 | 0.00 | 1.70 | 0.85 | YES | |
| L0001586 | 0 | 0.30640E-07 | 378111.6 | 3747241.7 | 19.9 | 0.00 | 1.70 | 0.85 | YES | |
| L0001587 | 0 | 0.30640E-07 | 378115.3 | 3747241.7 | 19.9 | 0.00 | 1.70 | 0.85 | YES | |
| L0001588 | 0 | 0.30640E-07 | 378118.9 | 3747241.7 | 19.9 | 0.00 | 1.70 | 0.85 | YES | |
| L0001589 | 0 | 0.30640E-07 | 378122.6 | 3747241.8 | 19.9 | 0.00 | 1.70 | 0.85 | YES | |
| L0001590 | 0 | 0.30640E-07 | 378126.3 | 3747241.8 | 19.9 | 0.00 | 1.70 | 0.85 | YES | |
| L0001591 | 0 | 0.30640E-07 | 378129.9 | 3747241.8 | 19.9 | 0.00 | 1.70 | 0.85 | YES | |
| L0001592 | 0 | 0.30640E-07 | 378133.6 | 3747241.8 | 19.9 | 0.00 | 1.70 | 0.85 | YES | |
| L0001593 | 0 | 0.30640E-07 | 378137.2 | 3747241.8 | 19.9 | 0.00 | 1.70 | 0.85 | YES | |
| L0001594 | 0 | 0.30640E-07 | 378140.9 | 3747241.8 | 19.9 | 0.00 | 1.70 | 0.85 | YES | |
| L0001595 | 0 | 0.30640E-07 | 378144.5 | 3747241.8 | 19.9 | 0.00 | 1.70 | 0.85 | YES | |
| L0001596 | 0 | 0.30640E-07 | 378148.2 | 3747241.8 | 19.9 | 0.00 | 1.70 | 0.85 | YES | |
| L0001597 | 0 | 0.30640E-07 | 378151.9 | 3747241.9 | 19.9 | 0.00 | 1.70 | 0.85 | YES | |
| L0001598 | 0 | 0.30640E-07 | 378155.5 | 3747241.9 | 19.9 | 0.00 | 1.70 | 0.85 | YES | |
| L0001599 | 0 | 0.30640E-07 | 378159.2 | 3747241.9 | 19.9 | 0.00 | 1.70 | 0.85 | YES | |
| L0001600 | 0 | 0.30640E-07 | 378162.8 | 3747241.9 | 19.9 | 0.00 | 1.70 | 0.85 | YES | |
| L0001601 | 0 | 0.30640E-07 | 378166.5 | 3747241.9 | 19.9 | 0.00 | 1.70 | 0.85 | YES | |
| L0001602 | 0 | 0.30640E-07 | 378170.2 | 3747241.9 | 19.8 | 0.00 | 1.70 | 0.85 | YES | |
| L0001603 | 0 | 0.30640E-07 | 378173.8 | 3747241.9 | 19.8 | 0.00 | 1.70 | 0.85 | YES | |
| L0001604 | 0 | 0.30640E-07 | 378177.5 | 3747242.0 | 19.8 | 0.00 | 1.70 | 0.85 | YES | |
| L0001605 | 0 | 0.30640E-07 | 378181.1 | 3747242.0 | 19.7 | 0.00 | 1.70 | 0.85 | YES | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| L0001606 | 0 | 0.30640E-07 | 378184.8 | 3747242.0 | 19.7 | 0.00 | 1.70 | 0.85 | YES |
| L0001607 | 0 | 0.30640E-07 | 378188.4 | 3747242.0 | 19.7 | 0.00 | 1.70 | 0.85 | YES |
| L0001608 | 0 | 0.30640E-07 | 378192.1 | 3747242.0 | 19.6 | 0.00 | 1.70 | 0.85 | YES |
| L0001609 | 0 | 0.30640E-07 | 378195.8 | 3747242.0 | 19.7 | 0.00 | 1.70 | 0.85 | YES |



*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** 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 | 0.30640E-07 | 378199.4 | 3747242.0 | 19.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0001611 | 0 | 0.30640E-07 | 378203.1 | 3747242.1 | 19.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0001612 | 0 | 0.30640E-07 | 378206.7 | 3747242.1 | 19.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0001613 | 0 | 0.30640E-07 | 378210.4 | 3747242.1 | 19.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0001614 | 0 | 0.30640E-07 | 378214.0 | 3747242.1 | 19.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0001615 | 0 | 0.30640E-07 | 378217.7 | 3747242.1 | 19.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0001616 | 0 | 0.30640E-07 | 378221.4 | 3747242.1 | 19.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0001617 | 0 | 0.30640E-07 | 378225.0 | 3747242.1 | 19.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0001618 | 0 | 0.30640E-07 | 378228.7 | 3747242.1 | 19.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0001619 | 0 | 0.30640E-07 | 378232.3 | 3747242.2 | 19.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0001620 | 0 | 0.30640E-07 | 378236.0 | 3747242.2 | 19.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0001621 | 0 | 0.30640E-07 | 378239.6 | 3747242.2 | 19.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0001622 | 0 | 0.30640E-07 | 378243.3 | 3747242.2 | 19.6 | 0.00 | 1.70 | 0.85 | YES | |
| L0001623 | 0 | 0.30640E-07 | 378247.0 | 3747242.2 | 19.6 | 0.00 | 1.70 | 0.85 | YES | |
| L0001624 | 0 | 0.30640E-07 | 378250.6 | 3747242.2 | 19.5 | 0.00 | 1.70 | 0.85 | YES | |
| L0001625 | 0 | 0.30640E-07 | 378254.3 | 3747242.2 | 19.5 | 0.00 | 1.70 | 0.85 | YES | |
| L0001626 | 0 | 0.30640E-07 | 378257.9 | 3747242.3 | 19.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0001627 | 0 | 0.30640E-07 | 378261.6 | 3747242.3 | 19.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0001628 | 0 | 0.30640E-07 | 378265.2 | 3747242.3 | 19.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0001629 | 0 | 0.30640E-07 | 378268.9 | 3747242.3 | 19.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0001630 | 0 | 0.30640E-07 | 378272.6 | 3747242.3 | 19.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0001631 | 0 | 0.30640E-07 | 378276.2 | 3747242.3 | 19.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0001632 | 0 | 0.30640E-07 | 378279.9 | 3747242.3 | 19.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0001633 | 0 | 0.30640E-07 | 378283.5 | 3747242.4 | 19.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0001634 | 0 | 0.30640E-07 | 378287.2 | 3747242.4 | 19.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0001635 | 0 | 0.30640E-07 | 378290.9 | 3747242.4 | 19.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0001636 | 0 | 0.30640E-07 | 378294.5 | 3747242.4 | 19.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0001637 | 0 | 0.30640E-07 | 378298.2 | 3747242.4 | 19.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0001638 | 0 | 0.30640E-07 | 378301.8 | 3747242.4 | 19.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0001639 | 0 | 0.30640E-07 | 378305.5 | 3747242.4 | 19.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0001640 | 0 | 0.30640E-07 | 378309.1 | 3747242.5 | 19.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0001641 | 0 | 0.30640E-07 | 378312.8 | 3747242.5 | 19.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0001642 | 0 | 0.30640E-07 | 378316.5 | 3747242.5 | 19.4 | 0.00 | 1.70 | 0.85 | YES | |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| L0001643 | 0 | 0.30640E-07 | 378320.1 | 3747242.5 | 19.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0001644 | 0 | 0.30640E-07 | 378323.8 | 3747242.5 | 19.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0001645 | 0 | 0.30640E-07 | 378327.4 | 3747242.5 | 19.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0001646 | 0 | 0.30640E-07 | 378331.1 | 3747242.5 | 19.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0001647 | 0 | 0.30640E-07 | 378334.7 | 3747242.5 | 19.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0001648 | 0 | 0.30640E-07 | 378338.4 | 3747242.6 | 19.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0001649 | 0 | 0.30640E-07 | 378342.1 | 3747242.6 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |



*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** 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 | 0.30640E-07 | 378345.7 | 3747242.6 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0001651 | 0 | 0.30640E-07 | 378349.4 | 3747242.6 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0001652 | 0 | 0.30640E-07 | 378353.0 | 3747242.6 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0001653 | 0 | 0.30640E-07 | 378356.7 | 3747242.6 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0001654 | 0 | 0.30640E-07 | 378360.3 | 3747242.6 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0001655 | 0 | 0.30640E-07 | 378364.0 | 3747242.7 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0001656 | 0 | 0.30640E-07 | 378367.7 | 3747242.7 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0001657 | 0 | 0.30640E-07 | 378371.3 | 3747242.7 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0001658 | 0 | 0.30640E-07 | 378375.0 | 3747242.7 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0001659 | 0 | 0.30640E-07 | 378378.6 | 3747242.7 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0001660 | 0 | 0.30640E-07 | 378382.3 | 3747242.7 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0001661 | 0 | 0.30640E-07 | 378385.9 | 3747242.7 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0001662 | 0 | 0.30640E-07 | 378389.6 | 3747242.8 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0001663 | 0 | 0.30640E-07 | 378393.3 | 3747242.8 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0001664 | 0 | 0.30640E-07 | 378396.9 | 3747242.8 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0001665 | 0 | 0.30640E-07 | 378400.6 | 3747242.8 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0001666 | 0 | 0.30640E-07 | 378404.2 | 3747242.8 | 19.1 | 0.00 | 1.70 | 0.85 | YES | |
| L0001667 | 0 | 0.30640E-07 | 378407.9 | 3747242.8 | 19.1 | 0.00 | 1.70 | 0.85 | YES | |
| L0001668 | 0 | 0.30640E-07 | 378411.6 | 3747242.8 | 19.1 | 0.00 | 1.70 | 0.85 | YES | |
| L0001669 | 0 | 0.30640E-07 | 378415.2 | 3747242.8 | 19.0 | 0.00 | 1.70 | 0.85 | YES | |
| L0001670 | 0 | 0.30640E-07 | 378418.9 | 3747242.9 | 19.0 | 0.00 | 1.70 | 0.85 | YES | |
| L0001671 | 0 | 0.30640E-07 | 378422.5 | 3747242.9 | 19.0 | 0.00 | 1.70 | 0.85 | YES | |
| L0001672 | 0 | 0.30640E-07 | 378426.2 | 3747242.9 | 19.0 | 0.00 | 1.70 | 0.85 | YES | |
| L0001673 | 0 | 0.30640E-07 | 378429.8 | 3747242.9 | 19.0 | 0.00 | 1.70 | 0.85 | YES | |
| L0001674 | 0 | 0.30640E-07 | 378433.5 | 3747242.9 | 19.1 | 0.00 | 1.70 | 0.85 | YES | |
| L0001675 | 0 | 0.30640E-07 | 378437.2 | 3747242.9 | 19.1 | 0.00 | 1.70 | 0.85 | YES | |
| L0001676 | 0 | 0.30640E-07 | 378440.8 | 3747242.9 | 19.1 | 0.00 | 1.70 | 0.85 | YES | |
| L0001677 | 0 | 0.30640E-07 | 378444.5 | 3747243.0 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0001678 | 0 | 0.30640E-07 | 378448.1 | 3747243.0 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0001679 | 0 | 0.30640E-07 | 378451.8 | 3747243.0 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| L0001680 | 0 | 0.30640E-07 | 378455.4 | 3747243.0 | 19.2 | 0.00 | 1.70 | 0.85 | YES |
| L0001681 | 0 | 0.30640E-07 | 378459.1 | 3747243.0 | 19.2 | 0.00 | 1.70 | 0.85 | YES |
| L0001682 | 0 | 0.30640E-07 | 378462.8 | 3747243.0 | 19.2 | 0.00 | 1.70 | 0.85 | YES |
| L0001683 | 0 | 0.30640E-07 | 378466.4 | 3747243.0 | 19.2 | 0.00 | 1.70 | 0.85 | YES |
| L0001684 | 0 | 0.30640E-07 | 378470.1 | 3747243.1 | 19.2 | 0.00 | 1.70 | 0.85 | YES |
| L0001685 | 0 | 0.30640E-07 | 378473.7 | 3747243.1 | 19.2 | 0.00 | 1.70 | 0.85 | YES |
| L0001686 | 0 | 0.30640E-07 | 378477.4 | 3747243.1 | 19.1 | 0.00 | 1.70 | 0.85 | YES |
| L0001687 | 0 | 0.30640E-07 | 378481.0 | 3747243.1 | 19.1 | 0.00 | 1.70 | 0.85 | YES |
| L0001688 | 0 | 0.30640E-07 | 378484.7 | 3747243.1 | 19.1 | 0.00 | 1.70 | 0.85 | YES |
| L0001689 | 0 | 0.30640E-07 | 378488.4 | 3747243.1 | 19.1 | 0.00 | 1.70 | 0.85 | YES |



*** MODELOPTs:  RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

*** 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 | 0.30640E-07 | 378492.0 | 3747243.1 | 19.0 | 0.00 | 1.70 | 0.85 | YES | |
| L0001691 | 0 | 0.30640E-07 | 378495.7 | 3747243.1 | 19.0 | 0.00 | 1.70 | 0.85 | YES | |
| L0001692 | 0 | 0.30640E-07 | 378499.3 | 3747243.2 | 19.0 | 0.00 | 1.70 | 0.85 | YES | |
| L0001693 | 0 | 0.30640E-07 | 378503.0 | 3747243.2 | 19.0 | 0.00 | 1.70 | 0.85 | YES | |
| L0001694 | 0 | 0.30640E-07 | 378506.6 | 3747243.2 | 18.9 | 0.00 | 1.70 | 0.85 | YES | |
| L0001695 | 0 | 0.30640E-07 | 378510.3 | 3747243.2 | 18.9 | 0.00 | 1.70 | 0.85 | YES | |
| L0001696 | 0 | 0.30640E-07 | 378514.0 | 3747243.2 | 18.9 | 0.00 | 1.70 | 0.85 | YES | |
| L0001697 | 0 | 0.30640E-07 | 378517.6 | 3747243.2 | 18.9 | 0.00 | 1.70 | 0.85 | YES | |
| L0001698 | 0 | 0.30640E-07 | 378521.3 | 3747243.2 | 18.9 | 0.00 | 1.70 | 0.85 | YES | |
| L0001699 | 0 | 0.30640E-07 | 378524.9 | 3747243.3 | 18.9 | 0.00 | 1.70 | 0.85 | YES | |
| L0001700 | 0 | 0.30640E-07 | 378528.6 | 3747243.3 | 18.8 | 0.00 | 1.70 | 0.85 | YES | |
| L0001701 | 0 | 0.30640E-07 | 378532.3 | 3747243.3 | 18.8 | 0.00 | 1.70 | 0.85 | YES | |
| L0001702 | 0 | 0.30640E-07 | 378535.9 | 3747243.3 | 18.8 | 0.00 | 1.70 | 0.85 | YES | |
| L0001703 | 0 | 0.30640E-07 | 378539.6 | 3747243.3 | 18.8 | 0.00 | 1.70 | 0.85 | YES | |
| L0001704 | 0 | 0.30640E-07 | 378543.2 | 3747243.3 | 18.8 | 0.00 | 1.70 | 0.85 | YES | |
| L0001705 | 0 | 0.30640E-07 | 378546.9 | 3747243.3 | 18.8 | 0.00 | 1.70 | 0.85 | YES | |
| L0001706 | 0 | 0.30640E-07 | 378550.5 | 3747243.4 | 18.8 | 0.00 | 1.70 | 0.85 | YES | |
| L0001707 | 0 | 0.30640E-07 | 378554.2 | 3747243.4 | 18.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0001708 | 0 | 0.30640E-07 | 378557.9 | 3747243.4 | 18.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0001709 | 0 | 0.30640E-07 | 378561.5 | 3747243.4 | 18.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0001710 | 0 | 0.30640E-07 | 378565.2 | 3747243.4 | 18.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0001711 | 0 | 0.30640E-07 | 378568.8 | 3747243.4 | 18.6 | 0.00 | 1.70 | 0.85 | YES | |
| L0001712 | 0 | 0.30640E-07 | 378572.5 | 3747243.4 | 18.6 | 0.00 | 1.70 | 0.85 | YES | |
| L0001713 | 0 | 0.30640E-07 | 378576.1 | 3747243.4 | 18.6 | 0.00 | 1.70 | 0.85 | YES | |
| L0001714 | 0 | 0.30640E-07 | 378579.8 | 3747243.5 | 18.6 | 0.00 | 1.70 | 0.85 | YES | |
| L0001715 | 0 | 0.30640E-07 | 378583.5 | 3747243.5 | 18.6 | 0.00 | 1.70 | 0.85 | YES | |
| L0001716 | 0 | 0.30640E-07 | 378587.1 | 3747243.5 | 18.6 | 0.00 | 1.70 | 0.85 | YES | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| L0001717 | 0 | 0.30640E-07 | 378590.8 | 3747243.5 | 18.6 | 0.00 | 1.70 | 0.85 | YES |
| L0001718 | 0 | 0.30640E-07 | 378594.4 | 3747243.5 | 18.7 | 0.00 | 1.70 | 0.85 | YES |
| L0001719 | 0 | 0.30640E-07 | 378598.1 | 3747243.5 | 18.7 | 0.00 | 1.70 | 0.85 | YES |
| L0001720 | 0 | 0.30640E-07 | 378601.7 | 3747243.5 | 18.7 | 0.00 | 1.70 | 0.85 | YES |
| L0001721 | 0 | 0.30640E-07 | 378605.4 | 3747243.6 | 18.7 | 0.00 | 1.70 | 0.85 | YES |
| L0001722 | 0 | 0.30640E-07 | 378609.1 | 3747243.6 | 18.7 | 0.00 | 1.70 | 0.85 | YES |
| L0001723 | 0 | 0.30640E-07 | 378612.7 | 3747243.6 | 18.7 | 0.00 | 1.70 | 0.85 | YES |
| L0001724 | 0 | 0.30640E-07 | 378616.4 | 3747243.6 | 18.7 | 0.00 | 1.70 | 0.85 | YES |
| L0001725 | 0 | 0.30640E-07 | 378620.0 | 3747243.6 | 18.7 | 0.00 | 1.70 | 0.85 | YES |
| L0001726 | 0 | 0.30640E-07 | 378623.7 | 3747243.6 | 18.7 | 0.00 | 1.70 | 0.85 | YES |
| L0001727 | 0 | 0.30640E-07 | 378627.3 | 3747243.6 | 18.7 | 0.00 | 1.70 | 0.85 | YES |
| L0001728 | 0 | 0.30640E-07 | 378631.0 | 3747243.7 | 18.7 | 0.00 | 1.70 | 0.85 | YES |
| L0001729 | 0 | 0.30640E-07 | 378634.7 | 3747243.7 | 18.7 | 0.00 | 1.70 | 0.85 | YES |



*** 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 | 0.30640E-07 | 378638.3 | 3747243.7 | 18.6 | 0.00 | 1.70 | 0.85 | YES | |
| L0001731 | 0 | 0.30640E-07 | 378642.0 | 3747243.7 | 18.6 | 0.00 | 1.70 | 0.85 | YES | |
| L0001732 | 0 | 0.30640E-07 | 378645.6 | 3747243.7 | 18.6 | 0.00 | 1.70 | 0.85 | YES | |
| L0001733 | 0 | 0.30640E-07 | 378649.3 | 3747243.7 | 18.6 | 0.00 | 1.70 | 0.85 | YES | |
| L0001734 | 0 | 0.30640E-07 | 378653.0 | 3747243.7 | 18.5 | 0.00 | 1.70 | 0.85 | YES | |
| L0001735 | 0 | 0.30640E-07 | 378656.6 | 3747243.8 | 18.5 | 0.00 | 1.70 | 0.85 | YES | |
| L0001736 | 0 | 0.30640E-07 | 378660.3 | 3747243.8 | 18.5 | 0.00 | 1.70 | 0.85 | YES | |
| L0001737 | 0 | 0.30640E-07 | 378663.9 | 3747243.8 | 18.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0001738 | 0 | 0.30640E-07 | 378667.6 | 3747243.8 | 18.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0001739 | 0 | 0.30640E-07 | 378671.2 | 3747243.8 | 18.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0001740 | 0 | 0.30640E-07 | 378674.9 | 3747243.8 | 18.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0001741 | 0 | 0.30640E-07 | 378678.6 | 3747243.8 | 18.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0001742 | 0 | 0.30640E-07 | 378682.2 | 3747243.8 | 18.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0001743 | 0 | 0.30640E-07 | 378685.9 | 3747243.9 | 18.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0001744 | 0 | 0.30640E-07 | 378689.5 | 3747243.9 | 18.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0001745 | 0 | 0.30640E-07 | 378693.2 | 3747243.9 | 18.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0001746 | 0 | 0.30640E-07 | 378696.8 | 3747243.9 | 18.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0001747 | 0 | 0.30640E-07 | 378700.5 | 3747243.9 | 18.4 | 0.00 | 1.70 | 0.85 | YES | |

*** SOURCE IDs DEFINING SOURCE GROUPS ***

| SRCGROUP ID | SOURCE IDs |
|---|---|
| ALL | STCK1 , STCK2 , STCK3 , STCK4 , STCK5 , STCK6 , L0001010 , L0001011 , |
| | L0001012 , L0001013 , L0001014 , L0001015 , L0001016 , L0001017 , L0001018 , L0001019 , |
| | L0001020 , L0001021 , L0001022 , L0001023 , L0001024 , L0001025 , L0001026 , L0001027 , |
| | L0001028 , L0001029 , L0001030 , L0001031 , L0001032 , L0001033 , L0001034 , L0001035 , |
| | L0001036 , L0001037 , L0001038 , L0001039 , L0001040 , L0001041 , L0001042 , L0001043 , |
| | L0001044 , L0001045 , L0001046 , L0001047 , L0001048 , L0001049 , L0001050 , L0001051 , |
| | L0001052 , L0001053 , L0001054 , L0001055 , L0001056 , L0001057 , L0001058 , L0001059 , |
| | L0001060 , L0001061 , L0001062 , L0001063 , L0001064 , L0001065 , L0001066 , L0001067 , |
| | L0001068 , L0001069 , L0001070 , L0001071 , L0001072 , L0001073 , L0001074 , L0001075 , |
| | L0001076 , L0001077 , L0001078 , L0001079 , L0001080 , L0001081 , L0001082 , L0001083 , |
| | L0001084 , L0001085 , L0001086 , L0001087 , L0001088 , L0001089 , L0001090 , L0001091 , |
| | L0001092 , L0001093 , L0001094 , L0001095 , L0001096 , L0001097 , L0001098 , L0001099 , |
| | L0001100 , L0001101 , L0001102 , L0001103 , L0001104 , L0001105 , L0001106 , L0001107 , |
| | L0001108 , L0001109 , L0001110 , L0001111 , L0001112 , L0001113 , L0001114 , L0001115 , |
| | L0001116 , L0001117 , L0001118 , L0001119 , L0001120 , L0001121 , L0001122 , L0001123 , |
| | L0001124 , L0001125 , L0001126 , L0001127 , L0001128 , L0001129 , L0001130 , L0001131 , |
| | L0001132 , L0001133 , L0001134 , L0001135 , L0001136 , L0001137 , L0001138 , L0001139 , |
| | L0001140 , L0001141 , L0001142 , L0001143 , L0001144 , L0001145 , L0001146 , L0001147 , |
| | L0001148 , L0001149 , L0001150 , L0001151 , L0001152 , L0001153 , L0001154 , L0001155 , |
| | L0001156 , L0001157 , L0001158 , L0001159 , L0001160 , L0001161 , L0001162 , L0001163 , |



*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

| SRCGROUP ID | SOURCE IDs |
|---|---|
| | L0001164 , L0001165 , L0001166 , L0001167 , L0001168 , L0001169 , L0001170 , L0001171 , |
| | L0001172 , L0001173 , L0001174 , L0001175 , L0001176 , L0001177 , L0001178 , L0001179 , |
| | L0001180 , L0001181 , L0001182 , L0001183 , L0001184 , L0001185 , L0001186 , L0001187 , |
| | L0001188 , L0001189 , L0001190 , L0001191 , L0001192 , L0001193 , L0001194 , L0001195 , |
| | L0001196 , L0001197 , L0001198 , L0001199 , L0001200 , L0001201 , L0001202 , L0001203 , |
| | L0001204 , L0001205 , L0001206 , L0001207 , L0001208 , L0001209 , L0001210 , L0001211 , |
| | L0001212 , L0001213 , L0001214 , L0001215 , L0001216 , L0001217 , L0001218 , L0001219 , |
| | L0001220 , L0001221 , L0001222 , L0001223 , L0001224 , L0001225 , L0001226 , L0001227 , |
| | L0001228 , L0001229 , L0001230 , L0001231 , L0001232 , L0001233 , L0001234 , L0001235 , |
| | L0001236 , L0001237 , L0001238 , L0001239 , L0001240 , L0001241 , L0001242 , L0001243 , |
| | L0001244 , L0001245 , L0001246 , L0001247 , L0001248 , L0001249 , L0001250 , L0001251 , |
| | L0001252 , L0001253 , L0001254 , L0001255 , L0001256 , L0001257 , L0001258 , L0001259 , |
| | L0001260 , L0001261 , L0001262 , L0001263 , L0001264 , L0001265 , L0001266 , L0001267 , |
| | L0001268 , L0001269 , L0001270 , L0001271 , L0001272 , L0001273 , L0001274 , L0001275 , |
| | L0001276 , L0001277 , L0001278 , L0001279 , L0001280 , L0001281 , L0001282 , L0001283 , |
| | L0001284 , L0001285 , L0001286 , L0001287 , L0001288 , L0001289 , L0001290 , L0001291 , |
| | L0001292 , L0001293 , L0001294 , L0001295 , L0001296 , L0001297 , L0001298 , L0001299 , |
| | L0001300 , L0001301 , L0001302 , L0001303 , L0001304 , L0001305 , L0001306 , L0001307 , |
| | L0001308 , L0001309 , L0001310 , L0001311 , L0001312 , L0001313 , L0001314 , L0001315 , |
| | L0001316 , L0001317 , L0001318 , L0001319 , L0001320 , L0001321 , L0001322 , L0001323 , |

*** MODELOPTs:  RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

| SRCGROUP ID | SOURCE IDs |
|---|---|
| | L0001324 , L0001325 , L0001326 , L0001327 , L0001328 , L0001329 , L0001330 , L0001331 , |
| | L0001332 , L0001333 , L0001334 , L0001335 , L0001336 , L0001337 , L0001338 , L0001339 , |
| | L0001340 , L0001341 , L0001342 , L0001343 , L0001344 , L0001345 , L0001346 , L0001347 , |
| | L0001348 , L0001349 , L0001350 , L0001351 , L0001352 , L0001353 , L0001354 , L0001355 , |
| | L0001356 , L0001357 , L0001358 , L0001359 , L0001360 , L0001361 , L0001362 , L0001363 , |
| | L0001364 , L0001365 , L0001366 , L0001367 , L0001368 , L0001369 , L0001370 , L0001371 , |
| | L0001372 , L0001373 , L0001374 , L0001375 , L0001376 , L0001377 , L0001378 , L0001379 , |
| | L0001380 , L0001381 , L0001382 , L0001383 , L0001384 , L0001385 , L0001386 , L0001387 , |
| | L0001388 , L0001389 , L0001390 , L0001391 , L0001392 , L0001393 , L0001394 , L0001395 , |
| | L0001396 , L0001397 , L0001398 , L0001399 , L0001400 , L0001401 , L0001402 , L0001403 , |
| | L0001404 , L0001405 , L0001406 , L0001407 , L0001408 , L0001409 , L0001410 , L0001411 , |
| | L0001412 , L0001413 , L0001414 , L0001415 , L0001416 , L0001417 , L0001418 , L0001419 , |
| | L0001420 , L0001421 , L0001422 , L0001423 , L0001424 , L0001425 , L0001426 , L0001427 , |
| | L0001428 , L0001429 , L0001430 , L0001431 , L0001432 , L0001433 , L0001434 , L0001435 , |
| | L0001436 , L0001437 , L0001438 , L0001439 , L0001440 , L0001441 , L0001442 , L0001443 , |
| | L0001444 , L0001445 , L0001446 , L0001447 , L0001448 , L0001449 , L0001450 , L0001451 , |
| | L0001452 , L0001453 , L0001454 , L0001455 , L0001456 , L0001457 , L0001458 , L0001459 , |
| | L0001460 , L0001461 , L0001462 , L0001463 , L0001464 , L0001465 , L0001466 , L0001467 , |
| | L0001468 , L0001469 , L0001470 , L0001471 , L0001472 , L0001473 , L0001474 , L0001475 , |
| | L0001476 , L0001477 , L0001478 , L0001479 , L0001480 , L0001481 , L0001482 , L0001483 , |

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

| SRCGROUP ID | SOURCE IDs |
|---|---|
| | L0001484 , L0001485 , L0001486 , L0001487 , L0001488 , L0001489 , 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 , L0001517 , L0001518 , L0001519 , L0001520 , L0001521 , L0001522 , L0001523 , |
| | L0001524 , L0001525 , L0001526 , L0001527 , L0001528 , L0001529 , L0001530 , L0001531 , |
| | L0001532 , L0001533 , L0001534 , L0001535 , L0001536 , L0001537 , L0001538 , L0001539 , |
| | L0001540 , L0001541 , L0001542 , L0001543 , L0001544 , L0001545 , L0001546 , L0001547 , |
| | L0001548 , L0001549 , L0001550 , L0001551 , L0001552 , L0001553 , L0001554 , L0001555 , |
| | L0001556 , L0001557 , L0001558 , L0001559 , L0001560 , L0001561 , L0001562 , L0001563 , |
| | L0001564 , L0001565 , L0001566 , L0001567 , L0001568 , L0001569 , L0001570 , L0001571 , |
| | L0001572 , L0001573 , L0001574 , L0001575 , L0001576 , L0001577 , L0001578 , L0001579 , |
| | L0001580 , L0001581 , L0001582 , L0001583 , L0001584 , L0001585 , L0001586 , L0001587 , |
| | L0001588 , L0001589 , L0001590 , L0001591 , L0001592 , L0001593 , L0001594 , L0001595 , |
| | L0001596 , L0001597 , L0001598 , L0001599 , L0001600 , L0001601 , L0001602 , L0001603 , |
| | L0001604 , L0001605 , L0001606 , L0001607 , L0001608 , L0001609 , L0001610 , L0001611 , |
| | L0001612 , L0001613 , L0001614 , L0001615 , L0001616 , L0001617 , L0001618 , L0001619 , |
| | L0001620 , L0001621 , L0001622 , L0001623 , L0001624 , L0001625 , L0001626 , L0001627 , |
| | L0001628 , L0001629 , L0001630 , L0001631 , L0001632 , L0001633 , L0001634 , L0001635 , |
| | L0001636 , L0001637 , L0001638 , L0001639 , L0001640 , L0001641 , L0001642 , L0001643 , |

```
*** AERMET - VERSION  16216 ***   *** DPM concentrations 2YR Exposure                                    ***        06:41:20
                                                                                                                   PAGE  26
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                        *** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID                                          SOURCE IDs
-----------                                          ----------

           L0001644    , L0001645    , L0001646    , L0001647    , L0001648    , L0001649    , L0001650    , L0001651    ,

           L0001652    , L0001653    , L0001654    , L0001655    , L0001656    , L0001657    , L0001658    , L0001659    ,

           L0001660    , L0001661    , L0001662    , L0001663    , L0001664    , L0001665    , L0001666    , L0001667    ,

           L0001668    , L0001669    , L0001670    , L0001671    , L0001672    , L0001673    , L0001674    , L0001675    ,

           L0001676    , L0001677    , L0001678    , 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    ,

*** AERMOD - VERSION  19191 ***   *** 190th St Warehouse 2023-2024                                       ***        05/15/20
*** AERMET - VERSION  16216 ***   *** DPM concentrations 2YR Exposure                                    ***        06:41:20
                                                                                                                   PAGE  27
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                        *** SOURCE IDs DEFINED AS URBAN SOURCES ***

 URBAN ID   URBAN POP                                SOURCE IDs
 --------   ---------                                ----------

            9818605.   STCK1       , STCK2       , STCK3       , STCK4       , STCK5       , STCK6       , L0001010    ,
L0001011    ,
```

```
           L0001012    , L0001013    , L0001014    , L0001015    , L0001016    , L0001017    , L0001018    , L0001019    ,
           L0001020    , L0001021    , L0001022    , L0001023    , L0001024    , L0001025    , L0001026    , L0001027    ,
           L0001028    , L0001029    , L0001030    , L0001031    , L0001032    , L0001033    , L0001034    , L0001035    ,
           L0001036    , L0001037    , L0001038    , L0001039    , L0001040    , L0001041    , L0001042    , L0001043    ,
           L0001044    , L0001045    , L0001046    , L0001047    , L0001048    , L0001049    , L0001050    , L0001051    ,
           L0001052    , L0001053    , L0001054    , L0001055    , L0001056    , L0001057    , L0001058    , L0001059    ,
           L0001060    , L0001061    , L0001062    , L0001063    , L0001064    , L0001065    , L0001066    , L0001067    ,
           L0001068    , L0001069    , L0001070    , L0001071    , L0001072    , L0001073    , L0001074    , L0001075    ,
           L0001076    , L0001077    , L0001078    , L0001079    , L0001080    , L0001081    , L0001082    , L0001083    ,
           L0001084    , L0001085    , L0001086    , L0001087    , L0001088    , L0001089    , L0001090    , L0001091    ,
           L0001092    , L0001093    , L0001094    , L0001095    , L0001096    , L0001097    , L0001098    , L0001099    ,
           L0001100    , L0001101    , L0001102    , L0001103    , L0001104    , L0001105    , L0001106    , L0001107    ,
           L0001108    , L0001109    , L0001110    , L0001111    , L0001112    , L0001113    , L0001114    , L0001115    ,
           L0001116    , L0001117    , L0001118    , L0001119    , L0001120    , L0001121    , L0001122    , L0001123    ,
           L0001124    , L0001125    , L0001126    , L0001127    , L0001128    , L0001129    , L0001130    , L0001131    ,
           L0001132    , L0001133    , L0001134    , L0001135    , L0001136    , L0001137    , L0001138    , L0001139    ,
           L0001140    , L0001141    , L0001142    , L0001143    , L0001144    , L0001145    , L0001146    , L0001147    ,
           L0001148    , L0001149    , L0001150    , L0001151    , L0001152    , L0001153    , L0001154    , L0001155    ,
           L0001156    , L0001157    , L0001158    , L0001159    , L0001160    , L0001161    , L0001162    , L0001163    ,
```



*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

| URBAN ID | URBAN POP | SOURCE IDs |
|---|---|---|

```
           L0001164    , L0001165    , L0001166    , L0001167    , L0001168    , L0001169    , L0001170    , L0001171    ,
           L0001172    , L0001173    , L0001174    , L0001175    , L0001176    , L0001177    , L0001178    , L0001179    ,
           L0001180    , L0001181    , L0001182    , L0001183    , L0001184    , L0001185    , L0001186    , L0001187    ,
           L0001188    , L0001189    , L0001190    , L0001191    , L0001192    , L0001193    , L0001194    , L0001195    ,
           L0001196    , L0001197    , L0001198    , L0001199    , L0001200    , L0001201    , L0001202    , L0001203    ,
           L0001204    , L0001205    , L0001206    , L0001207    , L0001208    , L0001209    , L0001210    , L0001211    ,
           L0001212    , L0001213    , L0001214    , L0001215    , L0001216    , L0001217    , L0001218    , L0001219    ,
           L0001220    , L0001221    , L0001222    , L0001223    , L0001224    , L0001225    , L0001226    , L0001227    ,
           L0001228    , L0001229    , L0001230    , L0001231    , L0001232    , L0001233    , L0001234    , L0001235    ,
           L0001236    , L0001237    , L0001238    , L0001239    , L0001240    , L0001241    , L0001242    , L0001243    ,
           L0001244    , L0001245    , L0001246    , L0001247    , L0001248    , L0001249    , L0001250    , L0001251    ,
           L0001252    , L0001253    , L0001254    , L0001255    , L0001256    , L0001257    , L0001258    , L0001259    ,
           L0001260    , L0001261    , L0001262    , L0001263    , L0001264    , L0001265    , L0001266    , L0001267    ,
           L0001268    , L0001269    , L0001270    , L0001271    , L0001272    , L0001273    , L0001274    , L0001275    ,
           L0001276    , L0001277    , L0001278    , L0001279    , L0001280    , L0001281    , L0001282    , L0001283    ,
           L0001284    , L0001285    , L0001286    , L0001287    , L0001288    , L0001289    , L0001290    , L0001291    ,
           L0001292    , L0001293    , L0001294    , L0001295    , L0001296    , L0001297    , L0001298    , L0001299    ,
           L0001300    , L0001301    , L0001302    , L0001303    , L0001304    , L0001305    , L0001306    , L0001307    ,
           L0001308    , L0001309    , L0001310    , L0001311    , L0001312    , L0001313    , L0001314    , L0001315    ,
           L0001316    , L0001317    , L0001318    , L0001319    , L0001320    , L0001321    , L0001322    , L0001323    ,
```



*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

| URBAN ID | URBAN POP | SOURCE IDs |
|---|---|---|

L0001324 , L0001325 , L0001326 , L0001327 , L0001328 , L0001329 , L0001330 , L0001331 ,
L0001332 , L0001333 , L0001334 , L0001335 , L0001336 , L0001337 , L0001338 , L0001339 ,
L0001340 , L0001341 , L0001342 , L0001343 , L0001344 , L0001345 , L0001346 , L0001347 ,
L0001348 , L0001349 , L0001350 , L0001351 , L0001352 , L0001353 , L0001354 , L0001355 ,
L0001356 , L0001357 , L0001358 , L0001359 , L0001360 , L0001361 , L0001362 , L0001363 ,
L0001364 , L0001365 , L0001366 , L0001367 , L0001368 , L0001369 , L0001370 , L0001371 ,
L0001372 , L0001373 , L0001374 , L0001375 , L0001376 , L0001377 , L0001378 , L0001379 ,
L0001380 , L0001381 , L0001382 , L0001383 , L0001384 , L0001385 , L0001386 , L0001387 ,
L0001388 , L0001389 , L0001390 , L0001391 , L0001392 , L0001393 , L0001394 , L0001395 ,
L0001396 , L0001397 , L0001398 , L0001399 , L0001400 , L0001401 , L0001402 , L0001403 ,
L0001404 , L0001405 , L0001406 , L0001407 , L0001408 , L0001409 , L0001410 , L0001411 ,
L0001412 , L0001413 , L0001414 , L0001415 , L0001416 , L0001417 , L0001418 , L0001419 ,
L0001420 , L0001421 , L0001422 , L0001423 , L0001424 , L0001425 , L0001426 , L0001427 ,
L0001428 , L0001429 , L0001430 , L0001431 , L0001432 , L0001433 , L0001434 , L0001435 ,
L0001436 , L0001437 , L0001438 , L0001439 , L0001440 , L0001441 , L0001442 , L0001443 ,
L0001444 , L0001445 , L0001446 , L0001447 , L0001448 , L0001449 , L0001450 , L0001451 ,
L0001452 , L0001453 , L0001454 , L0001455 , L0001456 , L0001457 , L0001458 , L0001459 ,
L0001460 , L0001461 , L0001462 , L0001463 , L0001464 , L0001465 , L0001466 , L0001467 ,
L0001468 , L0001469 , L0001470 , L0001471 , L0001472 , L0001473 , L0001474 , L0001475 ,
L0001476 , L0001477 , L0001478 , L0001479 , L0001480 , L0001481 , L0001482 , L0001483 ,



*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

| URBAN ID | URBAN POP | SOURCE IDs |
|---|---|---|

L0001484 , L0001485 , L0001486 , L0001487 , L0001488 , L0001489 , 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 , L0001517 , L0001518 , L0001519 , L0001520 , L0001521 , L0001522 , L0001523 ,
L0001524 , L0001525 , L0001526 , L0001527 , L0001528 , L0001529 , L0001530 , L0001531 ,
L0001532 , L0001533 , L0001534 , L0001535 , L0001536 , L0001537 , L0001538 , L0001539 ,
L0001540 , L0001541 , L0001542 , L0001543 , L0001544 , L0001545 , L0001546 , L0001547 ,
L0001548 , L0001549 , L0001550 , L0001551 , L0001552 , L0001553 , L0001554 , L0001555 ,
L0001556 , L0001557 , L0001558 , L0001559 , L0001560 , L0001561 , L0001562 , L0001563 ,
L0001564 , L0001565 , L0001566 , L0001567 , L0001568 , L0001569 , L0001570 , L0001571 ,
L0001572 , L0001573 , L0001574 , L0001575 , L0001576 , L0001577 , L0001578 , L0001579 ,
L0001580 , L0001581 , L0001582 , L0001583 , L0001584 , L0001585 , L0001586 , L0001587 ,
L0001588 , L0001589 , L0001590 , L0001591 , L0001592 , L0001593 , L0001594 , L0001595 ,
L0001596 , L0001597 , L0001598 , L0001599 , L0001600 , L0001601 , L0001602 , L0001603 ,
L0001604 , L0001605 , L0001606 , L0001607 , L0001608 , L0001609 , L0001610 , L0001611 ,
L0001612 , L0001613 , L0001614 , L0001615 , L0001616 , L0001617 , L0001618 , L0001619 ,
L0001620 , L0001621 , L0001622 , L0001623 , L0001624 , L0001625 , L0001626 , L0001627 ,
L0001628 , L0001629 , L0001630 , L0001631 , L0001632 , L0001633 , L0001634 , L0001635 ,
L0001636 , L0001637 , L0001638 , L0001639 , L0001640 , L0001641 , L0001642 , L0001643 ,



*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID URBAN POP SOURCE IDs

```
 --------   ---------                                  ----------

            L0001644    , L0001645    , L0001646    , L0001647    , L0001648    , L0001649    , L0001650    , L0001651    ,

            L0001652    , L0001653    , L0001654    , L0001655    , L0001656    , L0001657    , L0001658    , L0001659    ,

            L0001660    , L0001661    , L0001662    , L0001663    , L0001664    , L0001665    , L0001666    , L0001667    ,

            L0001668    , L0001669    , L0001670    , L0001671    , L0001672    , L0001673    , L0001674    , L0001675    ,

            L0001676    , L0001677    , L0001678    , 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    ,

*** AERMOD - VERSION  19191 ***   *** 190th St Warehouse 2023-2024                                    ***        05/15/20
*** AERMET - VERSION  16216 ***   *** DPM concentrations 2YR Exposure                                 ***        06:41:20
                                                                                                               PAGE  32

*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                  *** DIRECTION SPECIFIC BUILDING DIMENSIONS ***


SOURCE ID: STCK1
 IFV    BH      BW      BL     XADJ    YADJ     IFV    BH      BW      BL     XADJ    YADJ
   1   11.0,  264.0,  144.2, -115.4,  -95.0,      2   11.0,  270.4,  176.8, -116.8, -100.6,
   3   11.0,  268.6,  205.8, -114.6, -103.1,      4   11.0,  258.7,  231.8, -109.0, -102.5,
   5   11.0,  240.8,  250.8, -100.0,  -98.8,      6   11.0,  215.7,  262.1,  -88.0,  -92.1,
   7   11.0,  184.0,  265.5,  -73.4,  -82.6,      8   11.0,  146.7,  260.9,  -56.5,  -70.5,
   9   11.0,  107.2,  249.6,  -38.2,  -56.8,     10   11.0,  144.2,  264.0,  -37.0,  -43.3,
  11   11.0,  176.8,  270.4,  -34.6,  -28.4,     12   11.0,  205.8,  268.6,  -31.2,  -11.7,
  13   11.0,  231.8,  258.7,  -26.8,    6.9,     14   11.0,  250.8,  240.8,  -21.6,   25.4,
  15   11.0,  262.1,  215.7,  -15.8,   43.0,     16   11.0,  265.5,  184.0,   -9.4,   59.4,
  17   11.0,  260.9,  146.7,   -2.8,   73.9,     18   11.0,  249.6,  107.2,    3.2,   86.6,
  19   11.0,  264.0,  144.2,  -28.9,   95.0,     20   11.0,  270.4,  176.8,  -60.0,  100.6,
  21   11.0,  268.6,  205.8,  -91.1,  103.1,     22   11.0,  258.7,  231.8, -122.8,  102.5,
  23   11.0,  240.8,  250.8, -150.7,   98.8,     24   11.0,  215.7,  262.1, -174.1,   92.1,
```

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 25 | 11.0, | 184.0, | 265.5, | -192.2, | 82.6, | 26 | 11.0, | 146.7, | 260.9, | -204.4, | 70.5, |
| 27 | 11.0, | 107.2, | 249.6, | -211.4, | 56.8, | 28 | 11.0, | 144.2, | 264.0, | -227.1, | 43.3, |
| 29 | 11.0, | 176.8, | 270.4, | -235.8, | 28.4, | 30 | 11.0, | 205.8, | 268.6, | -237.5, | 11.7, |
| 31 | 11.0, | 231.8, | 258.7, | -231.9, | -6.9, | 32 | 11.0, | 250.8, | 240.8, | -219.2, | -25.4, |
| 33 | 11.0, | 262.1, | 215.7, | -199.9, | -43.0, | 34 | 11.0, | 265.5, | 184.0, | -174.6, | -59.4, |
| 35 | 11.0, | 260.9, | 146.7, | -143.9, | -73.9, | 36 | 11.0, | 249.6, | 107.2, | -110.5, | -86.6, |

SOURCE ID: STCK2

| IFV | BH | BW | BL | XADJ | YADJ | IFV | BH | BW | BL | XADJ | YADJ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 11.0, | 264.0, | 144.2, | -121.7, | -64.8, | 2 | 11.0, | 270.4, | 176.8, | -128.2, | -72.0, |
| 3 | 11.0, | 268.6, | 205.8, | -130.9, | -76.9, | 4 | 11.0, | 258.7, | 231.8, | -129.6, | -79.5, |
| 5 | 11.0, | 240.8, | 250.8, | -124.3, | -79.7, | 6 | 11.0, | 215.7, | 262.1, | -115.3, | -77.5, |
| 7 | 11.0, | 184.0, | 265.5, | -102.7, | -72.9, | 8 | 11.0, | 146.7, | 260.9, | -87.1, | -66.1, |
| 9 | 11.0, | 107.2, | 249.6, | -69.1, | -57.8, | 10 | 11.0, | 144.2, | 264.0, | -67.2, | -49.6, |
| 11 | 11.0, | 176.8, | 270.4, | -63.3, | -39.8, | 12 | 11.0, | 205.8, | 268.6, | -57.4, | -28.0, |
| 13 | 11.0, | 231.8, | 258.7, | -49.8, | -13.7, | 14 | 11.0, | 250.8, | 240.8, | -40.7, | 1.1, |
| 15 | 11.0, | 262.1, | 215.7, | -30.4, | 15.8, | 16 | 11.0, | 265.5, | 184.0, | -19.1, | 30.0, |
| 17 | 11.0, | 260.9, | 146.7, | -7.2, | 43.4, | 18 | 11.0, | 249.6, | 107.2, | 4.2, | 55.7, |
| 19 | 11.0, | 264.0, | 144.2, | -22.5, | 64.8, | 20 | 11.0, | 270.4, | 176.8, | -48.6, | 72.0, |
| 21 | 11.0, | 268.6, | 205.8, | -74.9, | 76.9, | 22 | 11.0, | 258.7, | 231.8, | -102.2, | 79.5, |
| 23 | 11.0, | 240.8, | 250.8, | -126.5, | 79.7, | 24 | 11.0, | 215.7, | 262.1, | -146.9, | 77.5, |
| 25 | 11.0, | 184.0, | 265.5, | -162.8, | 72.9, | 26 | 11.0, | 146.7, | 260.9, | -173.8, | 66.1, |
| 27 | 11.0, | 107.2, | 249.6, | -180.5, | 57.8, | 28 | 11.0, | 144.2, | 264.0, | -196.8, | 49.6, |
| 29 | 11.0, | 176.8, | 270.4, | -207.2, | 39.8, | 30 | 11.0, | 205.8, | 268.6, | -211.2, | 28.0, |
| 31 | 11.0, | 231.8, | 258.7, | -208.8, | 13.7, | 32 | 11.0, | 250.8, | 240.8, | -200.1, | -1.1, |
| 33 | 11.0, | 262.1, | 215.7, | -185.3, | -15.8, | 34 | 11.0, | 265.5, | 184.0, | -164.9, | -30.0, |
| 35 | 11.0, | 260.9, | 146.7, | -139.5, | -43.4, | 36 | 11.0, | 249.6, | 107.2, | -111.4, | -55.7, |

SOURCE ID: STCK3

| IFV | BH | BW | BL | XADJ | YADJ | IFV | BH | BW | BL | XADJ | YADJ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 11.0, | 264.0, | 144.2, | -126.6, | -38.6, | 2 | 11.0, | 270.4, | 176.8, | -137.7, | -47.0, |
| 3 | 11.0, | 268.6, | 205.8, | -144.5, | -54.0, | 4 | 11.0, | 258.7, | 231.8, | -146.9, | -59.3, |
| 5 | 11.0, | 240.8, | 250.8, | -144.9, | -62.8, | 6 | 11.0, | 215.7, | 262.1, | -138.5, | -64.5, |
| 7 | 11.0, | 184.0, | 265.5, | -127.9, | -64.1, | 8 | 11.0, | 146.7, | 260.9, | -113.4, | -61.8, |
| 9 | 11.0, | 107.2, | 249.6, | -95.7, | -58.1, | 10 | 11.0, | 144.2, | 264.0, | -93.4, | -54.5, |
| 11 | 11.0, | 176.8, | 270.4, | -88.2, | -49.2, | 12 | 11.0, | 205.8, | 268.6, | -80.3, | -41.6, |
| 13 | 11.0, | 231.8, | 258.7, | -70.0, | -31.1, | 14 | 11.0, | 250.8, | 240.8, | -57.6, | -19.6, |
| 15 | 11.0, | 262.1, | 215.7, | -43.4, | -7.4, | 16 | 11.0, | 265.5, | 184.0, | -27.9, | 4.9, |
| 17 | 11.0, | 260.9, | 146.7, | -11.5, | 17.1, | 18 | 11.0, | 249.6, | 107.2, | 4.5, | 29.1, |
| 19 | 11.0, | 264.0, | 144.2, | -17.6, | 38.6, | 20 | 11.0, | 270.4, | 176.8, | -39.1, | 47.0, |
| 21 | 11.0, | 268.6, | 205.8, | -61.3, | 54.0, | 22 | 11.0, | 258.7, | 231.8, | -84.8, | 59.3, |
| 23 | 11.0, | 240.8, | 250.8, | -105.8, | 62.8, | 24 | 11.0, | 215.7, | 262.1, | -123.6, | 64.5, |
| 25 | 11.0, | 184.0, | 265.5, | -137.7, | 64.1, | 26 | 11.0, | 146.7, | 260.9, | -147.5, | 61.8, |
| 27 | 11.0, | 107.2, | 249.6, | -153.8, | 58.1, | 28 | 11.0, | 144.2, | 264.0, | -170.6, | 54.5, |
| 29 | 11.0, | 176.8, | 270.4, | -182.2, | 49.2, | 30 | 11.0, | 205.8, | 268.6, | -188.3, | 41.6, |
| 31 | 11.0, | 231.8, | 258.7, | -188.6, | 31.1, | 32 | 11.0, | 250.8, | 240.8, | -183.2, | 19.6, |
| 33 | 11.0, | 262.1, | 215.7, | -172.3, | 7.4, | 34 | 11.0, | 265.5, | 184.0, | -156.1, | -4.9, |
| 35 | 11.0, | 260.9, | 146.7, | -135.2, | -17.1, | 36 | 11.0, | 249.6, | 107.2, | -111.8, | -29.1, |

SOURCE ID: STCK4

| IFV | BH | BW | BL | XADJ | YADJ | IFV | BH | BW | BL | XADJ | YADJ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 11.0, | 264.0, | 144.2, | -132.0, | -8.2, | 2 | 11.0, | 270.4, | 176.8, | -148.2, | -18.0, |
| 3 | 11.0, | 268.6, | 205.8, | -159.9, | -27.2, | 4 | 11.0, | 258.7, | 231.8, | -166.8, | -35.7, |
| 5 | 11.0, | 240.8, | 250.8, | -168.6, | -43.0, | 6 | 11.0, | 215.7, | 262.1, | -165.2, | -49.0, |
| 7 | 11.0, | 184.0, | 265.5, | -156.9, | -53.5, | 8 | 11.0, | 146.7, | 260.9, | -143.8, | -56.5, |
| 9 | 11.0, | 107.2, | 249.6, | -126.6, | -58.1, | 10 | 11.0, | 144.2, | 264.0, | -123.8, | -59.9, |
| 11 | 11.0, | 176.8, | 270.4, | -117.2, | -59.8, | 12 | 11.0, | 205.8, | 268.6, | -107.0, | -57.0, |
| 13 | 11.0, | 231.8, | 258.7, | -93.7, | -50.9, | 14 | 11.0, | 250.8, | 240.8, | -77.4, | -43.2, |
| 15 | 11.0, | 262.1, | 215.7, | -58.8, | -34.2, | 16 | 11.0, | 265.5, | 184.0, | -38.4, | -24.1, |
| 17 | 11.0, | 260.9, | 146.7, | -16.9, | -13.3, | 18 | 11.0, | 249.6, | 107.2, | 4.5, | -1.8, |
| 19 | 11.0, | 264.0, | 144.2, | -12.2, | 8.2, | 20 | 11.0, | 270.4, | 176.8, | -28.6, | 18.0, |
| 21 | 11.0, | 268.6, | 205.8, | -45.8, | 27.2, | 22 | 11.0, | 258.7, | 231.8, | -65.0, | 35.7, |
| 23 | 11.0, | 240.8, | 250.8, | -82.2, | 43.0, | 24 | 11.0, | 215.7, | 262.1, | -96.9, | 49.0, |
| 25 | 11.0, | 184.0, | 265.5, | -108.6, | 53.5, | 26 | 11.0, | 146.7, | 260.9, | -117.1, | 56.5, |
| 27 | 11.0, | 107.2, | 249.6, | -123.0, | 58.1, | 28 | 11.0, | 144.2, | 264.0, | -140.2, | 59.9, |
| 29 | 11.0, | 176.8, | 270.4, | -153.2, | 59.8, | 30 | 11.0, | 205.8, | 268.6, | -161.6, | 57.0, |
| 31 | 11.0, | 231.8, | 258.7, | -165.0, | 50.9, | 32 | 11.0, | 250.8, | 240.8, | -163.4, | 43.2, |
| 33 | 11.0, | 262.1, | 215.7, | -156.9, | 34.2, | 34 | 11.0, | 265.5, | 184.0, | -145.6, | 24.1, |
| 35 | 11.0, | 260.9, | 146.7, | -129.8, | 13.3, | 36 | 11.0, | 249.6, | 107.2, | -111.8, | 1.8, |



*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: STCK5

| IFV | BH | BW | BL | XADJ | YADJ | IFV | BH | BW | BL | XADJ | YADJ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 11.0, | 264.0, | 144.2, | -137.0, | 19.9, | 2 | 11.0, | 270.4, | 176.8, | -158.0, | 8.9, |
| 3 | 11.0, | 268.6, | 205.8, | -174.2, | -2.5, | 4 | 11.0, | 258.7, | 231.8, | -185.2, | -13.8, |
| 5 | 11.0, | 240.8, | 250.8, | -190.5, | -24.6, | 6 | 11.0, | 215.7, | 262.1, | -190.0, | -34.7, |
| 7 | 11.0, | 184.0, | 265.5, | -183.8, | -43.8, | 8 | 11.0, | 146.7, | 260.9, | -171.9, | -51.5, |
| 9 | 11.0, | 107.2, | 249.6, | -155.2, | -58.1, | 10 | 11.0, | 144.2, | 264.0, | -151.9, | -64.8, |
| 11 | 11.0, | 176.8, | 270.4, | -144.1, | -69.6, | 12 | 11.0, | 205.8, | 268.6, | -131.8, | -71.3, |
| 13 | 11.0, | 231.8, | 258.7, | -115.6, | -69.3, | 14 | 11.0, | 250.8, | 240.8, | -95.8, | -65.1, |
| 15 | 11.0, | 262.1, | 215.7, | -73.1, | -58.9, | 16 | 11.0, | 265.5, | 184.0, | -48.2, | -51.0, |
| 17 | 11.0, | 260.9, | 146.7, | -21.9, | -41.5, | 18 | 11.0, | 249.6, | 107.2, | 4.5, | -30.4, |
| 19 | 11.0, | 264.0, | 144.2, | -7.2, | -19.9, | 20 | 11.0, | 270.4, | 176.8, | -18.8, | -8.9, |
| 21 | 11.0, | 268.6, | 205.8, | -31.5, | 2.5, | 22 | 11.0, | 258.7, | 231.8, | -46.6, | 13.8, |
| 23 | 11.0, | 240.8, | 250.8, | -60.3, | 24.6, | 24 | 11.0, | 215.7, | 262.1, | -72.1, | 34.7, |
| 25 | 11.0, | 184.0, | 265.5, | -81.8, | 43.8, | 26 | 11.0, | 146.7, | 260.9, | -88.9, | 51.5, |
| 27 | 11.0, | 107.2, | 249.6, | -94.4, | 58.1, | 28 | 11.0, | 144.2, | 264.0, | -112.1, | 64.8, |
| 29 | 11.0, | 176.8, | 270.4, | -126.3, | 69.6, | 30 | 11.0, | 205.8, | 268.6, | -136.8, | 71.3, |
| 31 | 11.0, | 231.8, | 258.7, | -143.1, | 69.3, | 32 | 11.0, | 250.8, | 240.8, | -145.0, | 65.1, |
| 33 | 11.0, | 262.1, | 215.7, | -142.6, | 58.9, | 34 | 11.0, | 265.5, | 184.0, | -135.8, | 51.0, |
| 35 | 11.0, | 260.9, | 146.7, | -124.8, | 41.5, | 36 | 11.0, | 249.6, | 107.2, | -111.8, | 30.4, |

SOURCE ID: STCK6

| IFV | BH | BW | BL | XADJ | YADJ | IFV | BH | BW | BL | XADJ | YADJ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 11.0, | 264.0, | 144.2, | -142.4, | 48.7, | 2 | 11.0, | 270.4, | 176.8, | -168.3, | 36.2, |
| 3 | 11.0, | 268.6, | 205.8, | -189.1, | 22.7, | 4 | 11.0, | 258.7, | 231.8, | -204.2, | 8.4, |
| 5 | 11.0, | 240.8, | 250.8, | -213.1, | -6.1, | 6 | 11.0, | 215.7, | 262.1, | -215.5, | -20.4, |
| 7 | 11.0, | 184.0, | 265.5, | -211.4, | -34.1, | 8 | 11.0, | 146.7, | 260.9, | -200.8, | -46.7, |
| 9 | 11.0, | 107.2, | 249.6, | -184.5, | -58.5, | 10 | 11.0, | 144.2, | 264.0, | -180.7, | -70.2, |
| 11 | 11.0, | 176.8, | 270.4, | -171.5, | -79.9, | 12 | 11.0, | 205.8, | 268.6, | -157.0, | -86.2, |
| 13 | 11.0, | 231.8, | 258.7, | -137.8, | -88.3, | 14 | 11.0, | 250.8, | 240.8, | -114.4, | -87.7, |
| 15 | 11.0, | 262.1, | 215.7, | -87.5, | -84.4, | 16 | 11.0, | 265.5, | 184.0, | -57.9, | -78.6, |
| 17 | 11.0, | 260.9, | 146.7, | -26.6, | -70.4, | 18 | 11.0, | 249.6, | 107.2, | 4.8, | -59.7, |
| 19 | 11.0, | 264.0, | 144.2, | -1.9, | -48.7, | 20 | 11.0, | 270.4, | 176.8, | -8.5, | -36.2, |
| 21 | 11.0, | 268.6, | 205.8, | -16.6, | -22.7, | 22 | 11.0, | 258.7, | 231.8, | -27.6, | -8.4, |
| 23 | 11.0, | 240.8, | 250.8, | -37.7, | 6.1, | 24 | 11.0, | 215.7, | 262.1, | -46.6, | 20.4, |
| 25 | 11.0, | 184.0, | 265.5, | -54.2, | 34.1, | 26 | 11.0, | 146.7, | 260.9, | -60.1, | 46.7, |
| 27 | 11.0, | 107.2, | 249.6, | -65.1, | 58.5, | 28 | 11.0, | 144.2, | 264.0, | -83.3, | 70.2, |
| 29 | 11.0, | 176.8, | 270.4, | -99.0, | 79.9, | 30 | 11.0, | 205.8, | 268.6, | -111.6, | 86.2, |
| 31 | 11.0, | 231.8, | 258.7, | -120.9, | 88.3, | 32 | 11.0, | 250.8, | 240.8, | -126.5, | 87.7, |
| 33 | 11.0, | 262.1, | 215.7, | -128.2, | 84.4, | 34 | 11.0, | 265.5, | 184.0, | -126.1, | 78.6, |
| 35 | 11.0, | 260.9, | 146.7, | -120.1, | 70.4, | 36 | 11.0, | 249.6, | 107.2, | -112.1, | 59.7, |



*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** GRIDDED RECEPTOR NETWORK SUMMARY ***

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

*** X-COORDINATES OF GRID ***
(METERS)

376999.0, 377086.3, 377173.6, 377260.9, 377348.2, 377435.5, 377522.8, 377610.1, 377697.4, 377784.7,
377872.0, 377959.3, 378046.6, 378133.9, 378221.2, 378308.5, 378395.8, 378483.1, 378570.4, 378657.7,
378745.0,

*** Y-COORDINATES OF GRID ***
(METERS)

3746986.6, 3747043.0, 3747099.4, 3747155.8, 3747212.2, 3747268.5, 3747324.9, 3747381.3, 3747437.7, 3747494.1,
3747550.4, 3747606.8, 3747663.2, 3747719.6, 3747776.0, 3747832.3, 3747888.7, 3747945.1, 3748001.5, 3748057.9,
3748114.2,



*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

* ELEVATION HEIGHTS IN METERS *

| Y-COORD (METERS) | X-COORD (METERS) 376998.97 | 377086.27 | 377173.57 | 377260.87 | 377348.17 | 377435.47 | 377522.77 | 377610.07 | 377697.37 |
|---|---|---|---|---|---|---|---|---|---|
| 3748114.24 | 18.30 | 18.50 | 19.10 | 19.90 | 20.30 | 20.10 | 19.80 | 19.60 | 19.40 |
| 3748057.86 | 25.50 | 18.60 | 18.90 | 19.10 | 19.50 | 19.60 | 19.70 | 19.70 | 19.60 |
| 3748001.48 | 19.20 | 25.90 | 25.00 | 19.80 | 20.00 | 20.80 | 20.10 | 19.90 | 20.10 |
| 3747945.10 | 18.10 | 19.60 | 25.20 | 26.60 | 23.40 | 22.60 | 20.00 | 20.10 | 20.10 |
| 3747888.72 | 18.30 | 18.60 | 21.80 | 20.80 | 23.70 | 25.60 | 21.70 | 19.80 | 19.80 |
| 3747832.34 | 18.40 | 18.70 | 20.00 | 20.80 | 20.80 | 20.60 | 23.60 | 23.50 | 19.90 |
| 3747775.96 | 18.40 | 18.70 | 19.50 | 21.00 | 20.70 | 19.90 | 19.90 | 19.80 | 22.80 |
| 3747719.58 | 18.60 | 19.10 | 19.80 | 20.70 | 20.80 | 20.50 | 20.30 | 19.90 | 19.20 |
| 3747663.20 | 18.50 | 18.80 | 19.20 | 20.20 | 20.50 | 20.70 | 19.80 | 19.70 | 19.20 |
| 3747606.82 | 18.50 | 18.70 | 19.10 | 19.40 | 20.00 | 20.40 | 19.70 | 19.60 | 19.30 |
| 3747550.44 | 18.40 | 18.50 | 18.60 | 18.50 | 19.80 | 20.20 | 19.70 | 19.70 | 19.60 |
| 3747494.06 | 18.40 | 18.40 | 18.30 | 18.20 | 19.90 | 20.20 | 19.60 | 19.80 | 19.80 |
| 3747437.68 | 18.70 | 18.60 | 18.40 | 18.50 | 19.20 | 19.90 | 19.90 | 20.00 | 19.80 |
| 3747381.30 | 18.90 | 18.50 | 18.20 | 18.60 | 19.00 | 19.60 | 20.40 | 20.20 | 19.60 |
| 3747324.92 | 19.30 | 18.60 | 18.00 | 18.30 | 18.90 | 19.30 | 20.40 | 19.70 | 19.60 |
| 3747268.54 | 18.90 | 18.50 | 18.00 | 17.80 | 18.50 | 19.30 | 19.60 | 19.50 | 19.20 |
| 3747212.16 | 19.20 | 19.10 | 18.40 | 18.20 | 19.50 | 20.00 | 20.00 | 19.20 | 18.50 |
| 3747155.78 | 19.50 | 19.50 | 19.60 | 19.70 | 22.00 | 21.80 | 21.10 | 21.90 | 19.80 |
| 3747099.40 | 18.90 | 18.80 | 19.90 | 20.20 | 21.90 | 21.80 | 21.40 | 21.90 | 21.30 |
| 3747043.02 | 18.60 | 18.40 | 20.30 | 20.10 | 20.70 | 20.70 | 20.90 | 20.80 | 21.30 |
| 3746986.64 | 19.40 | 18.30 | 20.10 | 19.90 | 13.80 | 13.50 | 20.90 | 20.60 | 20.70 |



*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

* ELEVATION HEIGHTS IN METERS *

| Y-COORD (METERS) | X-COORD (METERS) 377784.67 | 377871.97 | 377959.27 | 378046.57 | 378133.87 | 378221.17 | 378308.47 | 378395.77 | 378483.07 |
|---|---|---|---|---|---|---|---|---|---|
| 3748114.24 | 19.20 | 19.10 | 18.90 | 18.80 | 18.70 | 18.70 | 18.20 | 17.60 | 17.60 |
| 3748057.86 | 19.60 | 19.50 | 19.40 | 19.20 | 18.90 | 18.60 | 18.30 | 18.00 | 17.80 |
| 3748001.48 | 19.90 | 19.50 | 19.50 | 19.80 | 19.20 | 18.80 | 18.70 | 18.30 | 18.00 |
| 3747945.10 | 19.60 | 19.20 | 19.40 | 20.10 | 19.10 | 19.00 | 18.90 | 18.50 | 18.10 |
| 3747888.72 | 19.20 | 19.10 | 19.20 | 20.10 | 19.60 | 19.40 | 19.00 | 18.60 | 18.30 |
| 3747832.34 | 19.10 | 19.00 | 19.60 | 19.90 | 19.90 | 19.30 | 19.30 | 19.20 | 18.90 |
| 3747775.96 | 22.70 | 19.10 | 19.40 | 19.60 | 20.10 | 19.50 | 19.20 | 18.80 | 18.60 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 3747719.58 | 19.90 | 24.00 | 23.10 | 20.00 | 20.10 | 19.50 | 19.30 | 19.00 | 18.60 |
| 3747663.20 | 19.10 | 19.40 | 22.60 | 25.80 | 21.30 | 19.40 | 19.20 | 18.80 | 18.50 |
| 3747606.82 | 19.60 | 19.30 | 19.50 | 20.30 | 23.70 | 25.00 | 19.90 | 18.80 | 18.80 |
| 3747550.44 | 19.70 | 19.30 | 19.20 | 19.50 | 19.90 | 19.90 | 24.50 | 22.10 | 18.80 |
| 3747494.06 | 19.50 | 19.30 | 19.10 | 19.50 | 20.00 | 19.20 | 20.00 | 20.60 | 22.40 |
| 3747437.68 | 19.50 | 18.90 | 18.60 | 19.30 | 19.90 | 20.00 | 20.10 | 20.00 | 20.10 |
| 3747381.30 | 19.40 | 19.00 | 18.80 | 19.10 | 20.10 | 20.10 | 20.10 | 19.70 | 19.90 |
| 3747324.92 | 19.40 | 19.30 | 19.50 | 19.70 | 20.00 | 20.10 | 19.90 | 19.60 | 19.70 |
| 3747268.54 | 19.10 | 18.90 | 19.60 | 19.70 | 20.00 | 20.10 | 19.80 | 19.40 | 19.60 |
| 3747212.16 | 18.10 | 18.70 | 19.30 | 19.70 | 20.20 | 20.10 | 19.80 | 19.50 | 19.10 |
| 3747155.78 | 17.40 | 22.30 | 22.60 | 23.40 | 20.30 | 20.40 | 20.40 | 20.90 | 20.10 |
| 3747099.40 | 17.60 | 20.00 | 20.30 | 23.20 | 20.10 | 20.50 | 20.60 | 20.10 | 20.00 |
| 3747043.02 | 17.70 | 17.40 | 18.60 | 23.30 | 19.60 | 20.00 | 19.80 | 20.30 | 20.40 |
| 3746986.64 | 17.60 | 16.20 | 19.00 | 22.70 | 19.60 | 19.70 | 20.00 | 19.90 | 20.50 |



*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

* ELEVATION HEIGHTS IN METERS *

| Y-COORD (METERS) | X-COORD (METERS) 378570.37 | 378657.67 | 378744.97 |
|---|---|---|---|
| 3748114.24 | 16.40 | 16.00 | 16.70 |
| 3748057.86 | 17.10 | 17.30 | 17.10 |
| 3748001.48 | 17.70 | 17.20 | 17.20 |
| 3747945.10 | 17.60 | 17.40 | 17.40 |
| 3747888.72 | 18.10 | 17.40 | 17.50 |
| 3747832.34 | 17.90 | 17.50 | 17.40 |
| 3747775.96 | 17.90 | 17.60 | 17.30 |
| 3747719.58 | 18.00 | 17.70 | 17.50 |
| 3747663.20 | 18.10 | 17.70 | 17.80 |
| 3747606.82 | 18.20 | 17.80 | 17.90 |
| 3747550.44 | 18.20 | 18.00 | 17.90 |
| 3747494.06 | 19.90 | 18.50 | 18.30 |
| 3747437.68 | 21.40 | 22.40 | 20.70 |
| 3747381.30 | 20.10 | 21.00 | 22.10 |
| 3747324.92 | 19.80 | 19.20 | 18.50 |
| 3747268.54 | 19.20 | 19.00 | 18.70 |
| 3747212.16 | 18.80 | 18.60 | 18.40 |
| 3747155.78 | 19.20 | 19.40 | 19.10 |
| 3747099.40 | 18.90 | 19.30 | 19.00 |
| 3747043.02 | 19.20 | 19.20 | 18.60 |
| 3746986.64 | 20.00 | 20.00 | 18.90 |

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

* HILL HEIGHT SCALES IN METERS *

| Y-COORD (METERS) | X-COORD (METERS) 376998.97 | 377086.27 | 377173.57 | 377260.87 | 377348.17 | 377435.47 | 377522.77 | 377610.07 | 377697.37 |
|---|---|---|---|---|---|---|---|---|---|
| 3748114.24 | 25.50 | 18.50 | 19.10 | 19.90 | 20.30 | 20.10 | 19.80 | 19.60 | 19.40 |
| 3748057.86 | 25.50 | 26.00 | 26.20 | 19.10 | 19.50 | 19.60 | 19.70 | 19.70 | 19.60 |
| 3748001.48 | 25.70 | 25.90 | 26.20 | 26.60 | 20.00 | 20.80 | 20.10 | 19.90 | 20.10 |
| 3747945.10 | 25.50 | 26.20 | 25.20 | 26.60 | 26.50 | 22.60 | 20.00 | 20.10 | 20.10 |
| 3747888.72 | 18.30 | 24.40 | 21.80 | 26.60 | 26.50 | 25.60 | 24.80 | 19.80 | 19.80 |
| 3747832.34 | 18.40 | 18.70 | 20.00 | 20.80 | 20.80 | 25.50 | 23.60 | 23.50 | 19.90 |
| 3747775.96 | 18.40 | 18.70 | 19.50 | 21.00 | 20.70 | 19.90 | 19.90 | 23.50 | 22.80 |
| 3747719.58 | 18.60 | 19.10 | 19.80 | 20.70 | 20.80 | 20.50 | 20.30 | 19.90 | 19.20 |
| 3747663.20 | 18.50 | 18.80 | 19.20 | 20.20 | 20.50 | 20.70 | 19.80 | 19.70 | 19.20 |
| 3747606.82 | 18.50 | 18.70 | 19.10 | 19.40 | 20.00 | 20.40 | 19.70 | 19.60 | 19.30 |
| 3747550.44 | 18.40 | 18.50 | 18.60 | 18.50 | 19.80 | 20.20 | 19.70 | 19.70 | 19.60 |
| 3747494.06 | 18.40 | 18.40 | 18.30 | 18.20 | 19.90 | 20.20 | 19.60 | 19.80 | 19.80 |
| 3747437.68 | 18.70 | 18.60 | 18.40 | 18.50 | 19.20 | 19.90 | 19.90 | 20.00 | 19.80 |
| 3747381.30 | 18.90 | 18.50 | 18.20 | 18.60 | 19.00 | 19.60 | 20.40 | 20.20 | 19.60 |
| 3747324.92 | 19.30 | 18.60 | 18.00 | 18.30 | 18.90 | 19.30 | 20.40 | 19.70 | 19.60 |
| 3747268.54 | 18.90 | 18.50 | 18.00 | 17.80 | 18.50 | 19.30 | 19.60 | 19.50 | 19.20 |
| 3747212.16 | 19.20 | 19.10 | 18.40 | 18.20 | 19.50 | 20.00 | 20.00 | 19.20 | 18.50 |
| 3747155.78 | 19.50 | 19.50 | 19.60 | 19.70 | 22.00 | 21.80 | 21.10 | 21.90 | 19.80 |
| 3747099.40 | 18.90 | 18.80 | 19.90 | 20.20 | 21.90 | 21.80 | 21.40 | 21.90 | 21.30 |
| 3747043.02 | 18.60 | 18.40 | 20.30 | 20.10 | 20.70 | 20.70 | 20.90 | 20.80 | 21.30 |
| 3746986.64 | 19.40 | 18.30 | 20.10 | 19.90 | 20.60 | 21.70 | 20.90 | 20.60 | 20.70 |



*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

* HILL HEIGHT SCALES IN METERS *

| Y-COORD (METERS) | X-COORD (METERS) 377784.67 | 377871.97 | 377959.27 | 378046.57 | 378133.87 | 378221.17 | 378308.47 | 378395.77 | 378483.07 |
|---|---|---|---|---|---|---|---|---|---|
| 3748114.24 | 19.20 | 19.10 | 18.90 | 18.80 | 18.70 | 18.70 | 18.20 | 17.60 | 17.60 |
| 3748057.86 | 19.60 | 19.50 | 19.40 | 19.20 | 18.90 | 18.60 | 18.30 | 18.00 | 17.80 |
| 3748001.48 | 19.90 | 19.50 | 19.50 | 19.80 | 19.20 | 18.80 | 18.70 | 18.30 | 18.00 |
| 3747945.10 | 19.60 | 19.20 | 19.40 | 20.10 | 19.10 | 19.00 | 18.90 | 18.50 | 18.10 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 3747888.72 | 19.20 | 19.10 | 19.20 | 20.10 | 19.60 | 19.40 | 19.00 | 18.60 | 18.30 |
| 3747832.34 | 19.10 | 19.00 | 19.60 | 19.90 | 19.90 | 19.30 | 19.30 | 19.20 | 18.90 |
| 3747775.96 | 23.10 | 24.00 | 19.40 | 19.60 | 20.10 | 19.50 | 19.20 | 18.80 | 18.60 |
| 3747719.58 | 23.40 | 24.00 | 24.90 | 26.00 | 20.10 | 19.50 | 19.30 | 19.00 | 18.60 |
| 3747663.20 | 19.10 | 24.50 | 25.30 | 25.80 | 24.70 | 25.90 | 19.20 | 18.80 | 18.50 |
| 3747606.82 | 19.60 | 19.30 | 19.50 | 26.20 | 26.20 | 25.00 | 25.10 | 18.80 | 18.80 |
| 3747550.44 | 19.70 | 19.30 | 19.20 | 19.50 | 25.50 | 25.80 | 24.50 | 22.10 | 22.20 |
| 3747494.06 | 19.50 | 19.30 | 19.10 | 19.50 | 20.00 | 19.20 | 20.00 | 23.90 | 22.40 |
| 3747437.68 | 19.50 | 18.90 | 18.60 | 19.30 | 19.90 | 20.00 | 20.10 | 20.00 | 20.10 |
| 3747381.30 | 19.40 | 19.00 | 18.80 | 19.10 | 20.10 | 20.10 | 20.10 | 19.70 | 19.90 |
| 3747324.92 | 19.40 | 19.30 | 19.50 | 19.70 | 20.00 | 20.10 | 19.90 | 19.60 | 19.70 |
| 3747268.54 | 19.10 | 18.90 | 19.60 | 19.70 | 20.00 | 20.10 | 19.80 | 19.40 | 19.60 |
| 3747212.16 | 18.10 | 24.50 | 19.30 | 22.80 | 20.20 | 20.10 | 19.80 | 19.50 | 19.10 |
| 3747155.78 | 24.30 | 24.50 | 22.60 | 23.40 | 20.30 | 20.40 | 20.40 | 20.90 | 20.10 |
| 3747099.40 | 24.30 | 24.30 | 20.30 | 23.20 | 20.10 | 20.50 | 20.60 | 20.10 | 20.00 |
| 3747043.02 | 24.30 | 17.40 | 18.60 | 23.30 | 19.60 | 20.00 | 19.80 | 20.30 | 20.40 |
| 3746986.64 | 22.90 | 21.40 | 19.00 | 22.70 | 19.60 | 19.70 | 20.00 | 19.90 | 20.50 |



*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

* HILL HEIGHT SCALES IN METERS *

| Y-COORD (METERS) | X-COORD (METERS) 378570.37 | 378657.67 | 378744.97 |
|---|---|---|---|
| 3748114.24 | 16.40 | 16.00 | 16.70 |
| 3748057.86 | 17.10 | 17.30 | 17.10 |
| 3748001.48 | 17.70 | 17.20 | 17.20 |
| 3747945.10 | 17.60 | 17.40 | 17.40 |
| 3747888.72 | 18.10 | 17.40 | 17.50 |
| 3747832.34 | 17.90 | 17.50 | 17.40 |
| 3747775.96 | 17.90 | 17.60 | 17.30 |
| 3747719.58 | 18.00 | 17.70 | 17.50 |
| 3747663.20 | 18.10 | 17.70 | 17.80 |
| 3747606.82 | 18.20 | 17.80 | 17.90 |
| 3747550.44 | 18.20 | 18.00 | 17.90 |
| 3747494.06 | 19.90 | 18.50 | 18.30 |
| 3747437.68 | 21.40 | 22.40 | 23.30 |
| 3747381.30 | 20.10 | 21.00 | 24.00 |
| 3747324.92 | 19.80 | 19.20 | 18.50 |
| 3747268.54 | 19.20 | 19.00 | 18.70 |
| 3747212.16 | 18.80 | 18.60 | 18.40 |
| 3747155.78 | 19.20 | 19.40 | 19.10 |
| 3747099.40 | 18.90 | 19.30 | 19.00 |
| 3747043.02 | 19.20 | 19.20 | 18.60 |

```
 3746986.64 |         20.00        20.00        18.90

*** AERMOD - VERSION  19191 ***   *** 190th St Warehouse 2023-2024                                   ***        05/15/20
*** AERMET - VERSION  16216 ***   *** DPM concentrations 2YR Exposure                                ***        06:41:20
                                                                                                              PAGE  41
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

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

    ( 377146.6, 3747291.4,      18.2,      18.2,       0.0);        ( 377230.5, 3747442.5,      18.1,      18.1,       0.0);
    ( 377253.4, 3747498.1,      18.2,      18.2,       0.0);        ( 377259.3, 3747543.7,      18.5,      18.5,       0.0);
    ( 377259.3, 3747621.9,      19.6,      19.6,       0.0);        ( 377260.6, 3747704.7,      20.6,      20.6,       0.0);
    ( 378132.2, 3747267.4,      20.0,      20.0,       0.0);        ( 378294.5, 3747265.7,      19.8,      19.8,       0.0);

*** AERMOD - VERSION  19191 ***   *** 190th St Warehouse 2023-2024                                   ***        05/15/20
*** AERMET - VERSION  16216 ***   *** DPM concentrations 2YR Exposure                                ***        06:41:20
                                                                                                              PAGE  42
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * 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
                            ID            XR (METERS)   YR (METERS)         (METERS)
                        - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

                         L0001100            377610.1     3747381.3            -0.57
                         L0001101            377610.1     3747381.3             0.97
                         L0001115            377610.1     3747324.9            -0.25
                         L0001116            377610.1     3747324.9            -0.14
                         L0001130            377610.1     3747268.5             0.62
                         L0001131            377610.1     3747268.5            -0.84
                         L0001259            377173.6     3747268.5             0.15
                         L0001260            377173.6     3747268.5            -0.75
                         L0001312            377260.9     3747437.7             0.40

*** AERMOD - VERSION  19191 ***   *** 190th St Warehouse 2023-2024                                   ***        05/15/20
*** AERMET - VERSION  16216 ***   *** DPM concentrations 2YR Exposure                                ***        06:41:20
                                                                                                              PAGE  43
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                   *** 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
```

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,



*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

Surface file: E:\New MET data\KHHR_V9_ADJU\KHHR_v9.SFC Met Version: 16216
Profile file: E:\New MET data\KHHR_V9_ADJU\KHHR_v9.PFL
Surface format: FREE
Profile format: FREE
Surface station no.: 3167 Upper air station no.: 3190
Name: UNKNOWN Name: UNKNOWN
Year: 2012 Year: 2012

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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12 | 01 | 01 | 1 | 01 | -999.0 | -9.000 | -9.000 | -9.000 | -999. | -999. | -99999.0 | 0.24 | 2.79 | 1.00 | 0.00 | 0. | 7.9 | 283.8 | 2.0 |
| 12 | 01 | 01 | 1 | 02 | -2.1 | 0.068 | -9.000 | -9.000 | -999. | 43. | 13.3 | 0.24 | 2.79 | 1.00 | 0.53 | 305. | 7.9 | 283.1 | 2.0 |
| 12 | 01 | 01 | 1 | 03 | -9.0 | 0.127 | -9.000 | -9.000 | -999. | 109. | 20.8 | 0.24 | 2.79 | 1.00 | 1.18 | 323. | 7.9 | 282.5 | 2.0 |
| 12 | 01 | 01 | 1 | 04 | -2.2 | 0.068 | -9.000 | -9.000 | -999. | 43. | 13.3 | 0.24 | 2.79 | 1.00 | 0.53 | 296. | 7.9 | 282.0 | 2.0 |
| 12 | 01 | 01 | 1 | 05 | -999.0 | -9.000 | -9.000 | -9.000 | -999. | -999. | -99999.0 | 0.24 | 2.79 | 1.00 | 0.00 | 0. | 7.9 | 281.4 | 2.0 |
| 12 | 01 | 01 | 1 | 06 | -6.0 | 0.103 | -9.000 | -9.000 | -999. | 80. | 16.7 | 0.24 | 2.79 | 1.00 | 0.97 | 321. | 7.9 | 281.4 | 2.0 |
| 12 | 01 | 01 | 1 | 07 | -4.3 | 0.088 | -9.000 | -9.000 | -999. | 63. | 14.4 | 0.24 | 2.79 | 1.00 | 0.82 | 313. | 7.9 | 280.4 | 2.0 |
| 12 | 01 | 01 | 1 | 08 | 15.7 | -9.000 | -9.000 | -9.000 | -999. | -999. | -99999.0 | 0.24 | 2.79 | 0.55 | 0.00 | 0. | 7.9 | 281.4 | 2.0 |
| 12 | 01 | 01 | 1 | 09 | 35.7 | 0.115 | 0.353 | 0.013 | 45. | 93. | -3.8 | 0.24 | 2.79 | 0.32 | 0.63 | 179. | 7.9 | 285.4 | 2.0 |
| 12 | 01 | 01 | 1 | 10 | 109.0 | 0.141 | 0.727 | 0.009 | 128. | 127. | -2.3 | 0.24 | 2.79 | 0.24 | 0.70 | 170. | 7.9 | 289.2 | 2.0 |
| 12 | 01 | 01 | 1 | 11 | 164.4 | 0.149 | 1.186 | 0.005 | 370. | 138. | -1.8 | 0.24 | 2.79 | 0.21 | 0.70 | 222. | 7.9 | 297.0 | 2.0 |
| 12 | 01 | 01 | 1 | 12 | 191.7 | 0.163 | 1.525 | 0.005 | 672. | 158. | -2.1 | 0.24 | 2.79 | 0.20 | 0.79 | 12. | 7.9 | 299.9 | 2.0 |
| 12 | 01 | 01 | 1 | 13 | 191.3 | 0.170 | 1.819 | 0.005 | 1144. | 168. | -2.3 | 0.24 | 2.79 | 0.20 | 0.84 | 260. | 7.9 | 300.9 | 2.0 |
| 12 | 01 | 01 | 1 | 14 | 161.6 | 0.344 | 1.852 | 0.005 | 1428. | 483. | -22.7 | 0.24 | 2.79 | 0.21 | 2.49 | 260. | 7.9 | 298.8 | 2.0 |
| 12 | 01 | 01 | 1 | 15 | 105.0 | 0.367 | 1.638 | 0.005 | 1521. | 534. | -42.8 | 0.24 | 2.79 | 0.24 | 2.84 | 292. | 7.9 | 293.8 | 2.0 |
| 12 | 01 | 01 | 1 | 16 | 29.7 | 0.383 | 1.079 | 0.005 | 1539. | 570. | -172.5 | 0.24 | 2.79 | 0.33 | 3.22 | 276. | 7.9 | 290.4 | 2.0 |
| 12 | 01 | 01 | 1 | 17 | -24.8 | 0.287 | -9.000 | -9.000 | -999. | 374. | 90.3 | 0.24 | 2.79 | 0.59 | 2.52 | 284. | 7.9 | 289.2 | 2.0 |
| 12 | 01 | 01 | 1 | 18 | -26.7 | 0.269 | -9.000 | -9.000 | -999. | 336. | 79.8 | 0.24 | 2.79 | 1.00 | 2.38 | 285. | 7.9 | 287.5 | 2.0 |
| 12 | 01 | 01 | 1 | 19 | -10.2 | 0.137 | -9.000 | -9.000 | -999. | 133. | 22.7 | 0.24 | 2.79 | 1.00 | 1.26 | 287. | 7.9 | 287.5 | 2.0 |

```
12 01 01   1 20   -6.2  0.106 -9.000 -9.000 -999.   83.     17.2  0.24   2.79   1.00    0.99  303.    7.9  287.0    2.0
12 01 01   1 21   -7.6  0.117 -9.000 -9.000 -999.   96.     19.1  0.24   2.79   1.00    1.09  326.    7.9  286.4    2.0
12 01 01   1 22   -6.8  0.110 -9.000 -9.000 -999.   88.     18.0  0.24   2.79   1.00    1.03  297.    7.9  285.9    2.0
12 01 01   1 23  -19.9  0.200 -9.000 -9.000 -999.  214.     43.9  0.24   2.79   1.00    1.79  290.    7.9  285.9    2.0
12 01 01   1 24  -19.6  0.196 -9.000 -9.000 -999.  209.     42.3  0.24   2.79   1.00    1.76  282.    7.9  285.9    2.0


First hour of profile data
YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
12 01 01 01    7.9 1 -999.  -99.00   283.8   99.0  -99.00  -99.00

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

*** AERMOD - VERSION  19191 ***   *** 190th St Warehouse 2023-2024                                    ***        05/15/20
*** AERMET - VERSION  16216 ***   *** DPM concentrations 2YR Exposure                                 ***        06:41:20
                                                                                                               PAGE  45
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                          *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: ALL      ***
                              INCLUDING SOURCE(S):     STCK1       , STCK2       , STCK3       , STCK4       , STCK5       ,
               STCK6       , L0001010    , L0001011    , L0001012    , L0001013    , L0001014    , L0001015    , L0001016    ,
               L0001017    , L0001018    , L0001019    , L0001020    , L0001021    , L0001022    , L0001023    , L0001024    ,
               L0001025    , L0001026    , L0001027    , L0001028    , L0001029    , L0001030    , L0001031    ,  . . .      ,

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

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

   Y-COORD  |                                                X-COORD (METERS)
   (METERS) |    376998.97    377086.27    377173.57    377260.87    377348.17    377435.47    377522.77    377610.07    377697.37
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 3748114.24 |       0.00017      0.00019      0.00020      0.00021      0.00022      0.00022      0.00022      0.00021      0.00021
 3748057.86 |       0.00016      0.00021      0.00024      0.00025      0.00026      0.00026      0.00025      0.00025      0.00024
 3748001.48 |       0.00022      0.00020      0.00023      0.00030      0.00031      0.00029      0.00030      0.00029      0.00028
 3747945.10 |       0.00025      0.00029      0.00028      0.00029      0.00033      0.00033      0.00035      0.00034      0.00033
 3747888.72 |       0.00028      0.00033      0.00038      0.00048      0.00044      0.00037      0.00040      0.00041      0.00039
 3747832.34 |       0.00032      0.00039      0.00049      0.00077      0.00074      0.00056      0.00045      0.00044      0.00047
 3747775.96 |       0.00036      0.00045      0.00059      0.00098      0.00095      0.00070      0.00064      0.00061      0.00053
 3747719.58 |       0.00041      0.00052      0.00069      0.00113      0.00112      0.00085      0.00079      0.00077      0.00072
 3747663.20 |       0.00045      0.00060      0.00081      0.00132      0.00134      0.00106      0.00102      0.00098      0.00092
 3747606.82 |       0.00050      0.00067      0.00094      0.00154      0.00167      0.00142      0.00136      0.00131      0.00124
 3747550.44 |       0.00054      0.00075      0.00108      0.00181      0.00215      0.00203      0.00194      0.00189      0.00170
 3747494.06 |       0.00058      0.00081      0.00121      0.00221      0.00305      0.00329      0.00346      0.00296      0.00225
 3747437.68 |       0.00062      0.00087      0.00134      0.00353      0.00482      0.00533      0.00572      0.00561      0.00259
 3747381.30 |       0.00064      0.00091      0.00144      0.00266      0.00225      0.00496      0.00453      0.00543      0.00255
 3747324.92 |       0.00065      0.00094      0.00163      0.00245      0.00238      0.00420      0.00359      0.00381      0.00231
 3747268.54 |       0.00063      0.00093      0.00250      0.00231      0.00300      0.00336      0.00318      0.00397      0.00219
 3747212.16 |       0.00061      0.00088      0.00149      0.00201      0.00273      0.00315      0.00297      0.00234      0.00180
 3747155.78 |       0.00057      0.00079      0.00108      0.00141      0.00175      0.00218      0.00207      0.00160      0.00127
 3747099.40 |       0.00052      0.00069      0.00090      0.00114      0.00140      0.00164      0.00161      0.00132      0.00105
```

```
 3747043.02 |       0.00046      0.00060      0.00076      0.00096      0.00118      0.00136      0.00132      0.00114      0.00091
 3746986.64 |       0.00041      0.00052      0.00065      0.00081      0.00095      0.00107      0.00109      0.00096      0.00079

*** AERMOD - VERSION  19191 ***   *** 190th St Warehouse 2023-2024                                          ***        05/15/20
*** AERMET - VERSION  16216 ***   *** DPM concentrations 2YR Exposure                                       ***        06:41:20
                                                                                                                     PAGE  46
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                           *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: ALL      ***
                               INCLUDING SOURCE(S):     STCK1       , STCK2       , STCK3       , STCK4       , STCK5       ,
                 STCK6       , L0001010    , L0001011    , L0001012    , L0001013    , L0001014    , L0001015    , L0001016    ,
                 L0001017    , L0001018    , L0001019    , L0001020    , L0001021    , L0001022    , L0001023    , L0001024    ,
                 L0001025    , L0001026    , L0001027    , L0001028    , L0001029    , L0001030    , L0001031    ,  . . .      ,

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

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

   Y-COORD  |                                             X-COORD (METERS)
   (METERS) |     377784.67    377871.97    377959.27    378046.57    378133.87    378221.17    378308.47    378395.77    378483.07
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 3748114.24 |       0.00020      0.00018      0.00017      0.00016      0.00015      0.00014      0.00013      0.00012      0.00011
 3748057.86 |       0.00023      0.00021      0.00019      0.00018      0.00017      0.00015      0.00014      0.00013      0.00012
 3748001.48 |       0.00026      0.00024      0.00022      0.00020      0.00019      0.00017      0.00015      0.00014      0.00013
 3747945.10 |       0.00031      0.00028      0.00026      0.00023      0.00021      0.00019      0.00017      0.00015      0.00014
 3747888.72 |       0.00036      0.00033      0.00030      0.00027      0.00024      0.00021      0.00019      0.00017      0.00015
 3747832.34 |       0.00044      0.00040      0.00035      0.00031      0.00027      0.00024      0.00021      0.00018      0.00016
 3747775.96 |       0.00050      0.00048      0.00042      0.00036      0.00031      0.00026      0.00023      0.00020      0.00018
 3747719.58 |       0.00066      0.00057      0.00050      0.00042      0.00035      0.00029      0.00025      0.00021      0.00019
 3747663.20 |       0.00085      0.00073      0.00061      0.00050      0.00040      0.00032      0.00027      0.00023      0.00020
 3747606.82 |       0.00109      0.00090      0.00071      0.00055      0.00045      0.00037      0.00029      0.00024      0.00021
 3747550.44 |       0.00139      0.00105      0.00078      0.00059      0.00046      0.00037      0.00033      0.00027      0.00022
 3747494.06 |       0.00160      0.00114      0.00083      0.00063      0.00049      0.00039      0.00032      0.00028      0.00025
 3747437.68 |       0.00168      0.00119      0.00087      0.00066      0.00052      0.00042      0.00035      0.00030      0.00026
 3747381.30 |       0.00170      0.00123      0.00092      0.00071      0.00056      0.00046      0.00039      0.00034      0.00030
 3747324.92 |       0.00169      0.00129      0.00100      0.00080      0.00065      0.00055      0.00048      0.00043      0.00039
 3747268.54 |       0.00182      0.00156      0.00135      0.00117      0.00104      0.00095      0.00088      0.00084      0.00081
 3747212.16 |       0.00153      0.00134      0.00118      0.00103      0.00091      0.00082      0.00075      0.00070      0.00066
 3747155.78 |       0.00101      0.00084      0.00072      0.00062      0.00054      0.00047      0.00041      0.00037      0.00033
 3747099.40 |       0.00084      0.00069      0.00057      0.00048      0.00042      0.00036      0.00031      0.00028      0.00025
 3747043.02 |       0.00073      0.00058      0.00048      0.00040      0.00034      0.00030      0.00026      0.00023      0.00021
 3746986.64 |       0.00064      0.00050      0.00041      0.00034      0.00029      0.00025      0.00022      0.00020      0.00018

*** AERMOD - VERSION  19191 ***   *** 190th St Warehouse 2023-2024                                          ***        05/15/20
*** AERMET - VERSION  16216 ***   *** DPM concentrations 2YR Exposure                                       ***        06:41:20
                                                                                                                     PAGE  47
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                           *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: ALL      ***
                               INCLUDING SOURCE(S):     STCK1       , STCK2       , STCK3       , STCK4       , STCK5       ,
```

```
                STCK6       , L0001010    , L0001011    , L0001012    , L0001013    , L0001014    , L0001015    , L0001016    ,
                L0001017    , L0001018    , L0001019    , L0001020    , L0001021    , L0001022    , L0001023    , L0001024    ,
                L0001025    , L0001026    , L0001027    , L0001028    , L0001029    , L0001030    , L0001031    ,  . . .      ,

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

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

   Y-COORD  |                                              X-COORD (METERS)
   (METERS) |     378570.37    378657.67    378744.97
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 3748114.24 |       0.00011      0.00010      0.00009
 3748057.86 |       0.00011      0.00011      0.00010
 3748001.48 |       0.00012      0.00011      0.00010
 3747945.10 |       0.00013      0.00012      0.00011
 3747888.72 |       0.00014      0.00013      0.00012
 3747832.34 |       0.00015      0.00013      0.00012
 3747775.96 |       0.00016      0.00014      0.00013
 3747719.58 |       0.00017      0.00015      0.00013
 3747663.20 |       0.00018      0.00016      0.00014
 3747606.82 |       0.00018      0.00016      0.00014
 3747550.44 |       0.00019      0.00017      0.00015
 3747494.06 |       0.00021      0.00018      0.00016
 3747437.68 |       0.00024      0.00021      0.00017
 3747381.30 |       0.00026      0.00023      0.00020
 3747324.92 |       0.00035      0.00029      0.00022
 3747268.54 |       0.00077      0.00070      0.00028
 3747212.16 |       0.00061      0.00053      0.00025
 3747155.78 |       0.00030      0.00025      0.00019
 3747099.40 |       0.00022      0.00019      0.00016
 3747043.02 |       0.00018      0.00016      0.00014
 3746986.64 |       0.00016      0.00014      0.00012

*** AERMOD - VERSION  19191 ***   *** 190th St Warehouse 2023-2024                                    ***        05/15/20
*** AERMET - VERSION  16216 ***   *** DPM concentrations 2YR Exposure                                 ***        06:41:20
                                                                                                               PAGE  48
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                            *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: ALL      ***
                                INCLUDING SOURCE(S):     STCK1       , STCK2       , STCK3       , STCK4       , STCK5       ,
                STCK6       , L0001010    , L0001011    , L0001012    , L0001013    , L0001014    , L0001015    , L0001016    ,
                L0001017    , L0001018    , L0001019    , L0001020    , L0001021    , L0001022    , L0001023    , L0001024    ,
                L0001025    , L0001026    , L0001027    , L0001028    , L0001029    , L0001030    , L0001031    ,  . . .      ,
```

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

| X-COORD (M) | Y-COORD (M) | CONC | X-COORD (M) | Y-COORD (M) | CONC |
|---|---|---|---|---|---|
| 377146.65 | 3747291.37 | 0.00139 | 377230.47 | 3747442.55 | 0.00198 |
| 377253.39 | 3747498.09 | 0.00202 | 377259.26 | 3747543.71 | 0.00182 |
| 377259.26 | 3747621.90 | 0.00146 | 377260.56 | 3747704.66 | 0.00117 |
| 378132.19 | 3747267.37 | 0.00106 | 378294.52 | 3747265.66 | 0.00096 |



*** THE SUMMARY OF MAXIMUM PERIOD ( 43848 HRS) RESULTS ***

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

| GROUP ID | AVERAGE CONC | RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG) | OF TYPE | NETWORK GRID-ID |
|---|---|---|---|---|
| ALL | 1ST HIGHEST VALUE IS | 0.00572 AT ( 377522.77, 3747437.68, 19.90, 19.90, 0.00) | GC | UCART1 |
| | 2ND HIGHEST VALUE IS | 0.00561 AT ( 377610.07, 3747437.68, 20.00, 20.00, 0.00) | GC | UCART1 |
| | 3RD HIGHEST VALUE IS | 0.00543 AT ( 377610.07, 3747381.30, 20.20, 20.20, 0.00) | GC | UCART1 |
| | 4TH HIGHEST VALUE IS | 0.00533 AT ( 377435.47, 3747437.68, 19.90, 19.90, 0.00) | GC | UCART1 |
| | 5TH HIGHEST VALUE IS | 0.00496 AT ( 377435.47, 3747381.30, 19.60, 19.60, 0.00) | GC | UCART1 |
| | 6TH HIGHEST VALUE IS | 0.00482 AT ( 377348.17, 3747437.68, 19.20, 19.20, 0.00) | GC | UCART1 |
| | 7TH HIGHEST VALUE IS | 0.00453 AT ( 377522.77, 3747381.30, 20.40, 20.40, 0.00) | GC | UCART1 |
| | 8TH HIGHEST VALUE IS | 0.00420 AT ( 377435.47, 3747324.92, 19.30, 19.30, 0.00) | GC | UCART1 |
| | 9TH HIGHEST VALUE IS | 0.00397 AT ( 377610.07, 3747268.54, 19.50, 19.50, 0.00) | GC | UCART1 |
| | 10TH HIGHEST VALUE IS | 0.00381 AT ( 377610.07, 3747324.92, 19.70, 19.70, 0.00) | GC | UCART1 |

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



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

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

```
A Total of            0 Fatal Error Message(s)
A Total of            8 Warning Message(s)
A Total of         1474 Informational Message(s)

A Total of        43848 Hours Were Processed

A Total of         1223 Calm Hours Identified

A Total of          251 Missing Hours Identified (  0.57 Percent)


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


   ********   WARNING MESSAGES   ********
SO W320     872        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320     873        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320     874        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320     875        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320     876        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320     877        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
ME W186    1862       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used          0.50
ME W187    1862       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

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

```
** Lakes Environmental AERMOD MPI
**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 9.9.0
** Lakes Environmental Software Inc.
** Date: 5/15/2020
** File: C:\Lakes\AERMOD View\190th Street Warehouse 2025-39\190th Street Warehouse 2025-39.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE 190th St Warehouse 2025-2039
   TITLETWO DPM concentrations first 14YR Exposure
   MODELOPT DFAULT CONC
   AVERTIME PERIOD
   URBANOPT 9818605 Los_Angeles_County_Population
   POLLUTID DPM
   RUNORNOT RUN
   ERRORFIL "190th Street Warehouse 2025-39.err"
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION STCK1        POINT      377375.140  3747396.430       19.240
** DESCRSRC Idling location
   LOCATION STCK2        POINT      377406.010  3747397.404       19.450
** DESCRSRC Idling location
   LOCATION STCK3        POINT      377432.659  3747397.729       19.590
** DESCRSRC Idling location
   LOCATION STCK4        POINT      377463.533  3747397.729       19.800
** DESCRSRC Idling location
   LOCATION STCK5        POINT      377492.132  3747397.729       20.080
** DESCRSRC Idling location
   LOCATION STCK6        POINT      377521.381  3747398.054       20.590
** DESCRSRC Idling location
** ------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
```

```
** LINE VOLUME Source ID = SLINE1
** DESCRSRC Onsite travel to driveway 3
** PREFIX
** Length of Side = 3.66
** Configuration = Adjacent
** Emission Rate = 2.68E-06
** Elevated
** Building Height = 10.97
** SZINIT = 5.10
** Nodes = 2
** 377309.543, 3747422.669, 18.82, 0.00, 1.70
** 377597.430, 3747424.019, 20.83, 0.00, 1.70
** ----------------------------------------------------------------------
   LOCATION L0001748     VOLUME   377311.371 3747422.678 18.96
   LOCATION L0001749     VOLUME   377315.029 3747422.695 18.99
   LOCATION L0001750     VOLUME   377318.687 3747422.712 19.02
   LOCATION L0001751     VOLUME   377322.344 3747422.729 19.03
   LOCATION L0001752     VOLUME   377326.002 3747422.746 19.04
   LOCATION L0001753     VOLUME   377329.659 3747422.763 19.06
   LOCATION L0001754     VOLUME   377333.317 3747422.781 19.07
   LOCATION L0001755     VOLUME   377336.974 3747422.798 19.08
   LOCATION L0001756     VOLUME   377340.632 3747422.815 19.09
   LOCATION L0001757     VOLUME   377344.289 3747422.832 19.10
   LOCATION L0001758     VOLUME   377347.947 3747422.849 19.13
   LOCATION L0001759     VOLUME   377351.605 3747422.866 19.17
   LOCATION L0001760     VOLUME   377355.262 3747422.883 19.20
   LOCATION L0001761     VOLUME   377358.920 3747422.901 19.23
   LOCATION L0001762     VOLUME   377362.577 3747422.918 19.26
   LOCATION L0001763     VOLUME   377366.235 3747422.935 19.30
   LOCATION L0001764     VOLUME   377369.892 3747422.952 19.33
   LOCATION L0001765     VOLUME   377373.550 3747422.969 19.35
   LOCATION L0001766     VOLUME   377377.208 3747422.986 19.38
   LOCATION L0001767     VOLUME   377380.865 3747423.003 19.40
   LOCATION L0001768     VOLUME   377384.523 3747423.021 19.42
   LOCATION L0001769     VOLUME   377388.180 3747423.038 19.45
   LOCATION L0001770     VOLUME   377391.838 3747423.055 19.47
   LOCATION L0001771     VOLUME   377395.495 3747423.072 19.50
   LOCATION L0001772     VOLUME   377399.153 3747423.089 19.52
   LOCATION L0001773     VOLUME   377402.810 3747423.106 19.55
   LOCATION L0001774     VOLUME   377406.468 3747423.123 19.57
   LOCATION L0001775     VOLUME   377410.126 3747423.141 19.59
   LOCATION L0001776     VOLUME   377413.783 3747423.158 19.62
   LOCATION L0001777     VOLUME   377417.441 3747423.175 19.64
   LOCATION L0001778     VOLUME   377421.098 3747423.192 19.67
   LOCATION L0001779     VOLUME   377424.756 3747423.209 19.70
   LOCATION L0001780     VOLUME   377428.413 3747423.226 19.72
   LOCATION L0001781     VOLUME   377432.071 3747423.243 19.75
   LOCATION L0001782     VOLUME   377435.728 3747423.261 19.78
   LOCATION L0001783     VOLUME   377439.386 3747423.278 19.80
   LOCATION L0001784     VOLUME   377443.044 3747423.295 19.83
   LOCATION L0001785     VOLUME   377446.701 3747423.312 19.86
```

```
   LOCATION L0001786     VOLUME   377450.359 3747423.329 19.88
   LOCATION L0001787     VOLUME   377454.016 3747423.346 19.90
   LOCATION L0001788     VOLUME   377457.674 3747423.363 19.92
   LOCATION L0001789     VOLUME   377461.331 3747423.381 19.94
   LOCATION L0001790     VOLUME   377464.989 3747423.398 19.96
   LOCATION L0001791     VOLUME   377468.647 3747423.415 19.98
   LOCATION L0001792     VOLUME   377472.304 3747423.432 20.00
   LOCATION L0001793     VOLUME   377475.962 3747423.449 20.03
   LOCATION L0001794     VOLUME   377479.619 3747423.466 20.06
   LOCATION L0001795     VOLUME   377483.277 3747423.483 20.08
   LOCATION L0001796     VOLUME   377486.934 3747423.501 20.11
   LOCATION L0001797     VOLUME   377490.592 3747423.518 20.14
   LOCATION L0001798     VOLUME   377494.249 3747423.535 20.16
   LOCATION L0001799     VOLUME   377497.907 3747423.552 20.19
   LOCATION L0001800     VOLUME   377501.565 3747423.569 20.20
   LOCATION L0001801     VOLUME   377505.222 3747423.586 20.21
   LOCATION L0001802     VOLUME   377508.880 3747423.604 20.22
   LOCATION L0001803     VOLUME   377512.537 3747423.621 20.23
   LOCATION L0001804     VOLUME   377516.195 3747423.638 20.23
   LOCATION L0001805     VOLUME   377519.852 3747423.655 20.24
   LOCATION L0001806     VOLUME   377523.510 3747423.672 20.24
   LOCATION L0001807     VOLUME   377527.167 3747423.689 20.28
   LOCATION L0001808     VOLUME   377530.825 3747423.706 20.33
   LOCATION L0001809     VOLUME   377534.483 3747423.724 20.38
   LOCATION L0001810     VOLUME   377538.140 3747423.741 20.43
   LOCATION L0001811     VOLUME   377541.798 3747423.758 20.48
   LOCATION L0001812     VOLUME   377545.455 3747423.775 20.53
   LOCATION L0001813     VOLUME   377549.113 3747423.792 20.58
   LOCATION L0001814     VOLUME   377552.770 3747423.809 20.59
   LOCATION L0001815     VOLUME   377556.428 3747423.826 20.57
   LOCATION L0001816     VOLUME   377560.085 3747423.844 20.56
   LOCATION L0001817     VOLUME   377563.743 3747423.861 20.54
   LOCATION L0001818     VOLUME   377567.401 3747423.878 20.53
   LOCATION L0001819     VOLUME   377571.058 3747423.895 20.52
   LOCATION L0001820     VOLUME   377574.716 3747423.912 20.50
   LOCATION L0001821     VOLUME   377578.373 3747423.929 20.46
   LOCATION L0001822     VOLUME   377582.031 3747423.946 20.42
   LOCATION L0001823     VOLUME   377585.688 3747423.964 20.37
   LOCATION L0001824     VOLUME   377589.346 3747423.981 20.32
   LOCATION L0001825     VOLUME   377593.004 3747423.998 20.27
   LOCATION L0001826     VOLUME   377596.661 3747424.015 20.23
** End of LINE VOLUME Source ID = SLINE1
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE2
** DESCRSRC Onsite travel from driveway 2
** PREFIX
** Length of Side = 3.66
** Configuration = Adjacent
** Emission Rate = 1.6E-06
** Elevated
```

```
** Building Height = 10.97
** SZINIT = 5.10
** Nodes = 2
** 377606.877, 3747423.569, 20.16, 0.00, 1.70
** 377607.327, 3747251.736, 19.20, 0.00, 1.70
** ------------------------------------------------------------------
   LOCATION L0001827     VOLUME   377606.881 3747421.740 20.14
   LOCATION L0001828     VOLUME   377606.891 3747418.082 20.19
   LOCATION L0001829     VOLUME   377606.901 3747414.425 20.23
   LOCATION L0001830     VOLUME   377606.910 3747410.767 20.28
   LOCATION L0001831     VOLUME   377606.920 3747407.110 20.32
   LOCATION L0001832     VOLUME   377606.929 3747403.452 20.34
   LOCATION L0001833     VOLUME   377606.939 3747399.794 20.34
   LOCATION L0001834     VOLUME   377606.948 3747396.137 20.33
   LOCATION L0001835     VOLUME   377606.958 3747392.479 20.33
   LOCATION L0001836     VOLUME   377606.968 3747388.822 20.33
   LOCATION L0001837     VOLUME   377606.977 3747385.164 20.33
   LOCATION L0001838     VOLUME   377606.987 3747381.507 20.33
   LOCATION L0001839     VOLUME   377606.996 3747377.849 20.32
   LOCATION L0001840     VOLUME   377607.006 3747374.191 20.32
   LOCATION L0001841     VOLUME   377607.016 3747370.534 20.26
   LOCATION L0001842     VOLUME   377607.025 3747366.876 20.20
   LOCATION L0001843     VOLUME   377607.035 3747363.219 20.14
   LOCATION L0001844     VOLUME   377607.044 3747359.561 20.08
   LOCATION L0001845     VOLUME   377607.054 3747355.903 20.03
   LOCATION L0001846     VOLUME   377607.063 3747352.246 19.97
   LOCATION L0001847     VOLUME   377607.073 3747348.588 19.91
   LOCATION L0001848     VOLUME   377607.083 3747344.931 19.86
   LOCATION L0001849     VOLUME   377607.092 3747341.273 19.82
   LOCATION L0001850     VOLUME   377607.102 3747337.615 19.78
   LOCATION L0001851     VOLUME   377607.111 3747333.958 19.75
   LOCATION L0001852     VOLUME   377607.121 3747330.300 19.72
   LOCATION L0001853     VOLUME   377607.130 3747326.643 19.69
   LOCATION L0001854     VOLUME   377607.140 3747322.985 19.66
   LOCATION L0001855     VOLUME   377607.150 3747319.328 19.63
   LOCATION L0001856     VOLUME   377607.159 3747315.670 19.60
   LOCATION L0001857     VOLUME   377607.169 3747312.012 19.58
   LOCATION L0001858     VOLUME   377607.178 3747308.355 19.60
   LOCATION L0001859     VOLUME   377607.188 3747304.697 19.63
   LOCATION L0001860     VOLUME   377607.197 3747301.040 19.65
   LOCATION L0001861     VOLUME   377607.207 3747297.382 19.67
   LOCATION L0001862     VOLUME   377607.217 3747293.724 19.69
   LOCATION L0001863     VOLUME   377607.226 3747290.067 19.71
   LOCATION L0001864     VOLUME   377607.236 3747286.409 19.73
   LOCATION L0001865     VOLUME   377607.245 3747282.752 19.75
   LOCATION L0001866     VOLUME   377607.255 3747279.094 19.70
   LOCATION L0001867     VOLUME   377607.264 3747275.436 19.64
   LOCATION L0001868     VOLUME   377607.274 3747271.779 19.57
   LOCATION L0001869     VOLUME   377607.284 3747268.121 19.50
   LOCATION L0001870     VOLUME   377607.293 3747264.464 19.43
   LOCATION L0001871     VOLUME   377607.303 3747260.806 19.37
```

```
   LOCATION L0001872     VOLUME   377607.312 3747257.149 19.30
   LOCATION L0001873     VOLUME   377607.322 3747253.491 19.23
** End of LINE VOLUME Source ID = SLINE2
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE3
** DESCRSRC Crenshaw Blvd NB n/o Project Driveway 3
** PREFIX
** Length of Side = 3.66
** Configuration = Adjacent
** Emission Rate = 4.56E-06
** Elevated
** Vertical Dimension = 3.66
** SZINIT = 0.85
** Nodes = 2
** 377299.844, 3747422.000, 18.66, 0.00, 1.70
** 377297.707, 3747846.534, 20.45, 0.00, 1.70
** ----------------------------------------------------------------------
   LOCATION L0001874     VOLUME   377299.835 3747423.829 18.87
   LOCATION L0001875     VOLUME   377299.816 3747427.486 18.92
   LOCATION L0001876     VOLUME   377299.798 3747431.144 18.98
   LOCATION L0001877     VOLUME   377299.780 3747434.801 19.03
   LOCATION L0001878     VOLUME   377299.761 3747438.459 19.08
   LOCATION L0001879     VOLUME   377299.743 3747442.117 19.09
   LOCATION L0001880     VOLUME   377299.724 3747445.774 19.08
   LOCATION L0001881     VOLUME   377299.706 3747449.432 19.06
   LOCATION L0001882     VOLUME   377299.688 3747453.089 19.04
   LOCATION L0001883     VOLUME   377299.669 3747456.747 19.03
   LOCATION L0001884     VOLUME   377299.651 3747460.404 19.01
   LOCATION L0001885     VOLUME   377299.632 3747464.062 19.00
   LOCATION L0001886     VOLUME   377299.614 3747467.719 18.98
   LOCATION L0001887     VOLUME   377299.595 3747471.377 18.97
   LOCATION L0001888     VOLUME   377299.577 3747475.035 19.00
   LOCATION L0001889     VOLUME   377299.559 3747478.692 19.04
   LOCATION L0001890     VOLUME   377299.540 3747482.350 19.07
   LOCATION L0001891     VOLUME   377299.522 3747486.007 19.11
   LOCATION L0001892     VOLUME   377299.503 3747489.665 19.14
   LOCATION L0001893     VOLUME   377299.485 3747493.322 19.17
   LOCATION L0001894     VOLUME   377299.467 3747496.980 19.21
   LOCATION L0001895     VOLUME   377299.448 3747500.637 19.24
   LOCATION L0001896     VOLUME   377299.430 3747504.295 19.25
   LOCATION L0001897     VOLUME   377299.411 3747507.953 19.24
   LOCATION L0001898     VOLUME   377299.393 3747511.610 19.24
   LOCATION L0001899     VOLUME   377299.375 3747515.268 19.23
   LOCATION L0001900     VOLUME   377299.356 3747518.925 19.22
   LOCATION L0001901     VOLUME   377299.338 3747522.583 19.22
   LOCATION L0001902     VOLUME   377299.319 3747526.240 19.21
   LOCATION L0001903     VOLUME   377299.301 3747529.898 19.20
   LOCATION L0001904     VOLUME   377299.283 3747533.555 19.20
   LOCATION L0001905     VOLUME   377299.264 3747537.213 19.21
   LOCATION L0001906     VOLUME   377299.246 3747540.870 19.21
```

```
LOCATION L0001907     VOLUME   377299.227 3747544.528 19.22
LOCATION L0001908     VOLUME   377299.209 3747548.186 19.23
LOCATION L0001909     VOLUME   377299.190 3747551.843 19.24
LOCATION L0001910     VOLUME   377299.172 3747555.501 19.24
LOCATION L0001911     VOLUME   377299.154 3747559.158 19.25
LOCATION L0001912     VOLUME   377299.135 3747562.816 19.26
LOCATION L0001913     VOLUME   377299.117 3747566.473 19.29
LOCATION L0001914     VOLUME   377299.098 3747570.131 19.33
LOCATION L0001915     VOLUME   377299.080 3747573.788 19.37
LOCATION L0001916     VOLUME   377299.062 3747577.446 19.41
LOCATION L0001917     VOLUME   377299.043 3747581.104 19.45
LOCATION L0001918     VOLUME   377299.025 3747584.761 19.49
LOCATION L0001919     VOLUME   377299.006 3747588.419 19.53
LOCATION L0001920     VOLUME   377298.988 3747592.076 19.57
LOCATION L0001921     VOLUME   377298.970 3747595.734 19.60
LOCATION L0001922     VOLUME   377298.951 3747599.391 19.63
LOCATION L0001923     VOLUME   377298.933 3747603.049 19.67
LOCATION L0001924     VOLUME   377298.914 3747606.706 19.70
LOCATION L0001925     VOLUME   377298.896 3747610.364 19.73
LOCATION L0001926     VOLUME   377298.878 3747614.022 19.76
LOCATION L0001927     VOLUME   377298.859 3747617.679 19.79
LOCATION L0001928     VOLUME   377298.841 3747621.337 19.82
LOCATION L0001929     VOLUME   377298.822 3747624.994 19.85
LOCATION L0001930     VOLUME   377298.804 3747628.652 19.88
LOCATION L0001931     VOLUME   377298.785 3747632.309 19.90
LOCATION L0001932     VOLUME   377298.767 3747635.967 19.92
LOCATION L0001933     VOLUME   377298.749 3747639.624 19.95
LOCATION L0001934     VOLUME   377298.730 3747643.282 19.97
LOCATION L0001935     VOLUME   377298.712 3747646.940 20.00
LOCATION L0001936     VOLUME   377298.693 3747650.597 20.02
LOCATION L0001937     VOLUME   377298.675 3747654.255 20.05
LOCATION L0001938     VOLUME   377298.657 3747657.912 20.07
LOCATION L0001939     VOLUME   377298.638 3747661.570 20.10
LOCATION L0001940     VOLUME   377298.620 3747665.227 20.12
LOCATION L0001941     VOLUME   377298.601 3747668.885 20.15
LOCATION L0001942     VOLUME   377298.583 3747672.542 20.18
LOCATION L0001943     VOLUME   377298.565 3747676.200 20.20
LOCATION L0001944     VOLUME   377298.546 3747679.858 20.23
LOCATION L0001945     VOLUME   377298.528 3747683.515 20.26
LOCATION L0001946     VOLUME   377298.509 3747687.173 20.28
LOCATION L0001947     VOLUME   377298.491 3747690.830 20.31
LOCATION L0001948     VOLUME   377298.473 3747694.488 20.34
LOCATION L0001949     VOLUME   377298.454 3747698.145 20.38
LOCATION L0001950     VOLUME   377298.436 3747701.803 20.41
LOCATION L0001951     VOLUME   377298.417 3747705.460 20.44
LOCATION L0001952     VOLUME   377298.399 3747709.118 20.47
LOCATION L0001953     VOLUME   377298.380 3747712.776 20.50
LOCATION L0001954     VOLUME   377298.362 3747716.433 20.53
LOCATION L0001955     VOLUME   377298.344 3747720.091 20.55
LOCATION L0001956     VOLUME   377298.325 3747723.748 20.57
LOCATION L0001957     VOLUME   377298.307 3747727.406 20.59
```

```
   LOCATION L0001958     VOLUME   377298.288 3747731.063 20.61
   LOCATION L0001959     VOLUME   377298.270 3747734.721 20.62
   LOCATION L0001960     VOLUME   377298.252 3747738.378 20.64
   LOCATION L0001961     VOLUME   377298.233 3747742.036 20.66
   LOCATION L0001962     VOLUME   377298.215 3747745.693 20.68
   LOCATION L0001963     VOLUME   377298.196 3747749.351 20.69
   LOCATION L0001964     VOLUME   377298.178 3747753.009 20.69
   LOCATION L0001965     VOLUME   377298.160 3747756.666 20.69
   LOCATION L0001966     VOLUME   377298.141 3747760.324 20.70
   LOCATION L0001967     VOLUME   377298.123 3747763.981 20.70
   LOCATION L0001968     VOLUME   377298.104 3747767.639 20.70
   LOCATION L0001969     VOLUME   377298.086 3747771.296 20.70
   LOCATION L0001970     VOLUME   377298.068 3747774.954 20.70
   LOCATION L0001971     VOLUME   377298.049 3747778.611 20.70
   LOCATION L0001972     VOLUME   377298.031 3747782.269 20.69
   LOCATION L0001973     VOLUME   377298.012 3747785.927 20.67
   LOCATION L0001974     VOLUME   377297.994 3747789.584 20.65
   LOCATION L0001975     VOLUME   377297.975 3747793.242 20.63
   LOCATION L0001976     VOLUME   377297.957 3747796.899 20.61
   LOCATION L0001977     VOLUME   377297.939 3747800.557 20.60
   LOCATION L0001978     VOLUME   377297.920 3747804.214 20.58
   LOCATION L0001979     VOLUME   377297.902 3747807.872 20.56
   LOCATION L0001980     VOLUME   377297.883 3747811.529 20.55
   LOCATION L0001981     VOLUME   377297.865 3747815.187 20.53
   LOCATION L0001982     VOLUME   377297.847 3747818.845 20.52
   LOCATION L0001983     VOLUME   377297.828 3747822.502 20.50
   LOCATION L0001984     VOLUME   377297.810 3747826.160 20.48
   LOCATION L0001985     VOLUME   377297.791 3747829.817 20.47
   LOCATION L0001986     VOLUME   377297.773 3747833.475 20.45
   LOCATION L0001987     VOLUME   377297.755 3747837.132 20.44
   LOCATION L0001988     VOLUME   377297.736 3747840.790 20.42
   LOCATION L0001989     VOLUME   377297.718 3747844.447 20.40
** End of LINE VOLUME Source ID = SLINE3
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE4
** DESCRSRC Crenshaw Blvd n/o 190th St
** PREFIX
** Length of Side = 3.66
** Configuration = Adjacent
** Emission Rate = 1.3E-06
** Elevated
** Vertical Dimension = 3.66
** SZINIT = 0.85
** Nodes = 6
** 377156.337, 3747243.729, 18.13, 0.00, 1.70
** 377233.697, 3747379.881, 18.46, 0.00, 1.70
** 377255.357, 3747420.108, 18.51, 0.00, 1.70
** 377271.860, 3747448.989, 18.72, 0.00, 1.70
** 377280.112, 3747463.429, 18.72, 0.00, 1.70
** 377289.395, 3747481.996, 19.00, 0.00, 1.70
```

```
** ------------------------------------------------------------------
   LOCATION L0002561     VOLUME   377157.241 3747245.319 18.15
   LOCATION L0002562     VOLUME   377159.048 3747248.499 18.13
   LOCATION L0002563     VOLUME   377160.854 3747251.679 18.12
   LOCATION L0002564     VOLUME   377162.661 3747254.859 18.10
   LOCATION L0002565     VOLUME   377164.468 3747258.039 18.08
   LOCATION L0002566     VOLUME   377166.275 3747261.220 18.06
   LOCATION L0002567     VOLUME   377168.082 3747264.400 18.04
   LOCATION L0002568     VOLUME   377169.889 3747267.580 18.03
   LOCATION L0002569     VOLUME   377171.696 3747270.760 18.03
   LOCATION L0002570     VOLUME   377173.503 3747273.940 18.03
   LOCATION L0002571     VOLUME   377175.310 3747277.120 18.04
   LOCATION L0002572     VOLUME   377177.116 3747280.300 18.06
   LOCATION L0002573     VOLUME   377178.923 3747283.480 18.09
   LOCATION L0002574     VOLUME   377180.730 3747286.661 18.12
   LOCATION L0002575     VOLUME   377182.537 3747289.841 18.14
   LOCATION L0002576     VOLUME   377184.344 3747293.021 18.15
   LOCATION L0002577     VOLUME   377186.151 3747296.201 18.17
   LOCATION L0002578     VOLUME   377187.958 3747299.381 18.18
   LOCATION L0002579     VOLUME   377189.765 3747302.561 18.19
   LOCATION L0002580     VOLUME   377191.572 3747305.741 18.19
   LOCATION L0002581     VOLUME   377193.378 3747308.921 18.18
   LOCATION L0002582     VOLUME   377195.185 3747312.102 18.18
   LOCATION L0002583     VOLUME   377196.992 3747315.282 18.17
   LOCATION L0002584     VOLUME   377198.799 3747318.462 18.16
   LOCATION L0002585     VOLUME   377200.606 3747321.642 18.14
   LOCATION L0002586     VOLUME   377202.413 3747324.822 18.14
   LOCATION L0002587     VOLUME   377204.220 3747328.002 18.14
   LOCATION L0002588     VOLUME   377206.027 3747331.182 18.15
   LOCATION L0002589     VOLUME   377207.834 3747334.362 18.17
   LOCATION L0002590     VOLUME   377209.640 3747337.543 18.20
   LOCATION L0002591     VOLUME   377211.447 3747340.723 18.24
   LOCATION L0002592     VOLUME   377213.254 3747343.903 18.28
   LOCATION L0002593     VOLUME   377215.061 3747347.083 18.33
   LOCATION L0002594     VOLUME   377216.868 3747350.263 18.34
   LOCATION L0002595     VOLUME   377218.675 3747353.443 18.31
   LOCATION L0002596     VOLUME   377220.482 3747356.623 18.29
   LOCATION L0002597     VOLUME   377222.289 3747359.803 18.28
   LOCATION L0002598     VOLUME   377224.096 3747362.984 18.27
   LOCATION L0002599     VOLUME   377225.902 3747366.164 18.27
   LOCATION L0002600     VOLUME   377227.709 3747369.344 18.28
   LOCATION L0002601     VOLUME   377229.516 3747372.524 18.29
   LOCATION L0002602     VOLUME   377231.323 3747375.704 18.32
   LOCATION L0002603     VOLUME   377233.130 3747378.884 18.34
   LOCATION L0002604     VOLUME   377234.887 3747382.092 18.38
   LOCATION L0002605     VOLUME   377236.621 3747385.312 18.40
   LOCATION L0002606     VOLUME   377238.355 3747388.533 18.43
   LOCATION L0002607     VOLUME   377240.089 3747391.753 18.44
   LOCATION L0002608     VOLUME   377241.823 3747394.974 18.45
   LOCATION L0002609     VOLUME   377243.557 3747398.194 18.44
   LOCATION L0002610     VOLUME   377245.291 3747401.414 18.43
```

```
   LOCATION L0002611     VOLUME   377247.025 3747404.635 18.43
   LOCATION L0002612     VOLUME   377248.759 3747407.855 18.43
   LOCATION L0002613     VOLUME   377250.493 3747411.076 18.43
   LOCATION L0002614     VOLUME   377252.228 3747414.296 18.43
   LOCATION L0002615     VOLUME   377253.962 3747417.517 18.44
   LOCATION L0002616     VOLUME   377255.711 3747420.728 18.46
   LOCATION L0002617     VOLUME   377257.526 3747423.904 18.48
   LOCATION L0002618     VOLUME   377259.341 3747427.080 18.51
   LOCATION L0002619     VOLUME   377261.155 3747430.255 18.55
   LOCATION L0002620     VOLUME   377262.970 3747433.431 18.59
   LOCATION L0002621     VOLUME   377264.785 3747436.607 18.64
   LOCATION L0002622     VOLUME   377266.599 3747439.782 18.70
   LOCATION L0002623     VOLUME   377268.414 3747442.958 18.72
   LOCATION L0002624     VOLUME   377270.229 3747446.134 18.72
   LOCATION L0002625     VOLUME   377272.044 3747449.309 18.71
   LOCATION L0002626     VOLUME   377273.858 3747452.485 18.71
   LOCATION L0002627     VOLUME   377275.673 3747455.661 18.70
   LOCATION L0002628     VOLUME   377277.488 3747458.836 18.71
   LOCATION L0002629     VOLUME   377279.302 3747462.012 18.71
   LOCATION L0002630     VOLUME   377281.018 3747465.241 18.71
   LOCATION L0002631     VOLUME   377282.654 3747468.512 18.71
   LOCATION L0002632     VOLUME   377284.289 3747471.784 18.73
   LOCATION L0002633     VOLUME   377285.925 3747475.055 18.77
   LOCATION L0002634     VOLUME   377287.561 3747478.327 18.82
   LOCATION L0002635     VOLUME   377289.196 3747481.598 18.88
** End of LINE VOLUME Source ID = SLINE4
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE5
** DESCRSRC 190th St west of 405 fwy SB ramps
** PREFIX
** Length of Side = 3.66
** Configuration = Adjacent
** Emission Rate = 0.000012
** Elevated
** Vertical Dimension = 3.66
** SZINIT = 0.85
** Nodes = 2
** 377162.491, 3747238.163, 18.10, 0.00, 1.70
** 378701.707, 3747243.918, 18.18, 0.00, 1.70
** ----------------------------------------------------------------------
   LOCATION L0002140     VOLUME   377164.319 3747238.170 18.07
   LOCATION L0002141     VOLUME   377167.977 3747238.184 18.06
   LOCATION L0002142     VOLUME   377171.634 3747238.198 18.04
   LOCATION L0002143     VOLUME   377175.292 3747238.211 18.03
   LOCATION L0002144     VOLUME   377178.950 3747238.225 18.01
   LOCATION L0002145     VOLUME   377182.607 3747238.239 18.00
   LOCATION L0002146     VOLUME   377186.265 3747238.252 17.98
   LOCATION L0002147     VOLUME   377189.922 3747238.266 17.97
   LOCATION L0002148     VOLUME   377193.580 3747238.280 17.97
   LOCATION L0002149     VOLUME   377197.237 3747238.293 17.97
```

```
LOCATION L0002150     VOLUME   377200.895 3747238.307 17.97
LOCATION L0002151     VOLUME   377204.553 3747238.321 17.96
LOCATION L0002152     VOLUME   377208.210 3747238.334 17.96
LOCATION L0002153     VOLUME   377211.868 3747238.348 17.96
LOCATION L0002154     VOLUME   377215.525 3747238.362 17.94
LOCATION L0002155     VOLUME   377219.183 3747238.375 17.89
LOCATION L0002156     VOLUME   377222.840 3747238.389 17.85
LOCATION L0002157     VOLUME   377226.498 3747238.403 17.81
LOCATION L0002158     VOLUME   377230.156 3747238.416 17.77
LOCATION L0002159     VOLUME   377233.813 3747238.430 17.73
LOCATION L0002160     VOLUME   377237.471 3747238.444 17.68
LOCATION L0002161     VOLUME   377241.128 3747238.457 17.67
LOCATION L0002162     VOLUME   377244.786 3747238.471 17.68
LOCATION L0002163     VOLUME   377248.444 3747238.485 17.70
LOCATION L0002164     VOLUME   377252.101 3747238.499 17.71
LOCATION L0002165     VOLUME   377255.759 3747238.512 17.73
LOCATION L0002166     VOLUME   377259.416 3747238.526 17.74
LOCATION L0002167     VOLUME   377263.074 3747238.540 17.76
LOCATION L0002168     VOLUME   377266.731 3747238.553 17.77
LOCATION L0002169     VOLUME   377270.389 3747238.567 17.78
LOCATION L0002170     VOLUME   377274.047 3747238.581 17.79
LOCATION L0002171     VOLUME   377277.704 3747238.594 17.81
LOCATION L0002172     VOLUME   377281.362 3747238.608 17.82
LOCATION L0002173     VOLUME   377285.019 3747238.622 17.83
LOCATION L0002174     VOLUME   377288.677 3747238.635 17.84
LOCATION L0002175     VOLUME   377292.334 3747238.649 17.86
LOCATION L0002176     VOLUME   377295.992 3747238.663 17.90
LOCATION L0002177     VOLUME   377299.650 3747238.676 17.93
LOCATION L0002178     VOLUME   377303.307 3747238.690 17.97
LOCATION L0002179     VOLUME   377306.965 3747238.704 18.01
LOCATION L0002180     VOLUME   377310.622 3747238.717 18.05
LOCATION L0002181     VOLUME   377314.280 3747238.731 18.09
LOCATION L0002182     VOLUME   377317.937 3747238.745 18.13
LOCATION L0002183     VOLUME   377321.595 3747238.758 18.17
LOCATION L0002184     VOLUME   377325.253 3747238.772 18.22
LOCATION L0002185     VOLUME   377328.910 3747238.786 18.26
LOCATION L0002186     VOLUME   377332.568 3747238.799 18.31
LOCATION L0002187     VOLUME   377336.225 3747238.813 18.36
LOCATION L0002188     VOLUME   377339.883 3747238.827 18.40
LOCATION L0002189     VOLUME   377343.540 3747238.840 18.44
LOCATION L0002190     VOLUME   377347.198 3747238.854 18.48
LOCATION L0002191     VOLUME   377350.856 3747238.868 18.52
LOCATION L0002192     VOLUME   377354.513 3747238.881 18.56
LOCATION L0002193     VOLUME   377358.171 3747238.895 18.60
LOCATION L0002194     VOLUME   377361.828 3747238.909 18.64
LOCATION L0002195     VOLUME   377365.486 3747238.922 18.68
LOCATION L0002196     VOLUME   377369.143 3747238.936 18.72
LOCATION L0002197     VOLUME   377372.801 3747238.950 18.75
LOCATION L0002198     VOLUME   377376.459 3747238.963 18.78
LOCATION L0002199     VOLUME   377380.116 3747238.977 18.80
LOCATION L0002200     VOLUME   377383.774 3747238.991 18.83
```

```
LOCATION L0002201     VOLUME   377387.431 3747239.004 18.86
LOCATION L0002202     VOLUME   377391.089 3747239.018 18.89
LOCATION L0002203     VOLUME   377394.746 3747239.032 18.93
LOCATION L0002204     VOLUME   377398.404 3747239.045 18.98
LOCATION L0002205     VOLUME   377402.062 3747239.059 19.04
LOCATION L0002206     VOLUME   377405.719 3747239.073 19.09
LOCATION L0002207     VOLUME   377409.377 3747239.087 19.15
LOCATION L0002208     VOLUME   377413.034 3747239.100 19.20
LOCATION L0002209     VOLUME   377416.692 3747239.114 19.26
LOCATION L0002210     VOLUME   377420.350 3747239.128 19.31
LOCATION L0002211     VOLUME   377424.007 3747239.141 19.35
LOCATION L0002212     VOLUME   377427.665 3747239.155 19.39
LOCATION L0002213     VOLUME   377431.322 3747239.169 19.43
LOCATION L0002214     VOLUME   377434.980 3747239.182 19.46
LOCATION L0002215     VOLUME   377438.637 3747239.196 19.50
LOCATION L0002216     VOLUME   377442.295 3747239.210 19.54
LOCATION L0002217     VOLUME   377445.953 3747239.223 19.58
LOCATION L0002218     VOLUME   377449.610 3747239.237 19.61
LOCATION L0002219     VOLUME   377453.268 3747239.251 19.65
LOCATION L0002220     VOLUME   377456.925 3747239.264 19.68
LOCATION L0002221     VOLUME   377460.583 3747239.278 19.71
LOCATION L0002222     VOLUME   377464.240 3747239.292 19.74
LOCATION L0002223     VOLUME   377467.898 3747239.305 19.78
LOCATION L0002224     VOLUME   377471.556 3747239.319 19.80
LOCATION L0002225     VOLUME   377475.213 3747239.333 19.80
LOCATION L0002226     VOLUME   377478.871 3747239.346 19.80
LOCATION L0002227     VOLUME   377482.528 3747239.360 19.80
LOCATION L0002228     VOLUME   377486.186 3747239.374 19.79
LOCATION L0002229     VOLUME   377489.843 3747239.387 19.79
LOCATION L0002230     VOLUME   377493.501 3747239.401 19.79
LOCATION L0002231     VOLUME   377497.159 3747239.415 19.78
LOCATION L0002232     VOLUME   377500.816 3747239.428 19.76
LOCATION L0002233     VOLUME   377504.474 3747239.442 19.74
LOCATION L0002234     VOLUME   377508.131 3747239.456 19.72
LOCATION L0002235     VOLUME   377511.789 3747239.469 19.70
LOCATION L0002236     VOLUME   377515.446 3747239.483 19.68
LOCATION L0002237     VOLUME   377519.104 3747239.497 19.66
LOCATION L0002238     VOLUME   377522.762 3747239.510 19.64
LOCATION L0002239     VOLUME   377526.419 3747239.524 19.62
LOCATION L0002240     VOLUME   377530.077 3747239.538 19.60
LOCATION L0002241     VOLUME   377533.734 3747239.551 19.58
LOCATION L0002242     VOLUME   377537.392 3747239.565 19.56
LOCATION L0002243     VOLUME   377541.049 3747239.579 19.54
LOCATION L0002244     VOLUME   377544.707 3747239.592 19.53
LOCATION L0002245     VOLUME   377548.365 3747239.606 19.51
LOCATION L0002246     VOLUME   377552.022 3747239.620 19.50
LOCATION L0002247     VOLUME   377555.680 3747239.634 19.49
LOCATION L0002248     VOLUME   377559.337 3747239.647 19.47
LOCATION L0002249     VOLUME   377562.995 3747239.661 19.46
LOCATION L0002250     VOLUME   377566.652 3747239.675 19.45
LOCATION L0002251     VOLUME   377570.310 3747239.688 19.44
```

```
LOCATION L0002252     VOLUME   377573.968 3747239.702 19.43
LOCATION L0002253     VOLUME   377577.625 3747239.716 19.40
LOCATION L0002254     VOLUME   377581.283 3747239.729 19.37
LOCATION L0002255     VOLUME   377584.940 3747239.743 19.34
LOCATION L0002256     VOLUME   377588.598 3747239.757 19.31
LOCATION L0002257     VOLUME   377592.256 3747239.770 19.28
LOCATION L0002258     VOLUME   377595.913 3747239.784 19.25
LOCATION L0002259     VOLUME   377599.571 3747239.798 19.23
LOCATION L0002260     VOLUME   377603.228 3747239.811 19.21
LOCATION L0002261     VOLUME   377606.886 3747239.825 19.20
LOCATION L0002262     VOLUME   377610.543 3747239.839 19.19
LOCATION L0002263     VOLUME   377614.201 3747239.852 19.18
LOCATION L0002264     VOLUME   377617.859 3747239.866 19.16
LOCATION L0002265     VOLUME   377621.516 3747239.880 19.15
LOCATION L0002266     VOLUME   377625.174 3747239.893 19.14
LOCATION L0002267     VOLUME   377628.831 3747239.907 19.12
LOCATION L0002268     VOLUME   377632.489 3747239.921 19.09
LOCATION L0002269     VOLUME   377636.146 3747239.934 19.07
LOCATION L0002270     VOLUME   377639.804 3747239.948 19.05
LOCATION L0002271     VOLUME   377643.462 3747239.962 19.03
LOCATION L0002272     VOLUME   377647.119 3747239.975 19.01
LOCATION L0002273     VOLUME   377650.777 3747239.989 18.99
LOCATION L0002274     VOLUME   377654.434 3747240.003 18.96
LOCATION L0002275     VOLUME   377658.092 3747240.016 18.94
LOCATION L0002276     VOLUME   377661.749 3747240.030 18.91
LOCATION L0002277     VOLUME   377665.407 3747240.044 18.89
LOCATION L0002278     VOLUME   377669.065 3747240.057 18.86
LOCATION L0002279     VOLUME   377672.722 3747240.071 18.84
LOCATION L0002280     VOLUME   377676.380 3747240.085 18.81
LOCATION L0002281     VOLUME   377680.037 3747240.098 18.79
LOCATION L0002282     VOLUME   377683.695 3747240.112 18.78
LOCATION L0002283     VOLUME   377687.352 3747240.126 18.76
LOCATION L0002284     VOLUME   377691.010 3747240.139 18.74
LOCATION L0002285     VOLUME   377694.668 3747240.153 18.73
LOCATION L0002286     VOLUME   377698.325 3747240.167 18.71
LOCATION L0002287     VOLUME   377701.983 3747240.181 18.69
LOCATION L0002288     VOLUME   377705.640 3747240.194 18.67
LOCATION L0002289     VOLUME   377709.298 3747240.208 18.65
LOCATION L0002290     VOLUME   377712.955 3747240.222 18.63
LOCATION L0002291     VOLUME   377716.613 3747240.235 18.61
LOCATION L0002292     VOLUME   377720.271 3747240.249 18.59
LOCATION L0002293     VOLUME   377723.928 3747240.263 18.56
LOCATION L0002294     VOLUME   377727.586 3747240.276 18.54
LOCATION L0002295     VOLUME   377731.243 3747240.290 18.52
LOCATION L0002296     VOLUME   377734.901 3747240.304 18.49
LOCATION L0002297     VOLUME   377738.558 3747240.317 18.47
LOCATION L0002298     VOLUME   377742.216 3747240.331 18.44
LOCATION L0002299     VOLUME   377745.874 3747240.345 18.42
LOCATION L0002300     VOLUME   377749.531 3747240.358 18.40
LOCATION L0002301     VOLUME   377753.189 3747240.372 18.37
LOCATION L0002302     VOLUME   377756.846 3747240.386 18.34
```

```
LOCATION L0002303     VOLUME   377760.504 3747240.399 18.31
LOCATION L0002304     VOLUME   377764.162 3747240.413 18.29
LOCATION L0002305     VOLUME   377767.819 3747240.427 18.26
LOCATION L0002306     VOLUME   377771.477 3747240.440 18.23
LOCATION L0002307     VOLUME   377775.134 3747240.454 18.20
LOCATION L0002308     VOLUME   377778.792 3747240.468 18.17
LOCATION L0002309     VOLUME   377782.449 3747240.481 18.18
LOCATION L0002310     VOLUME   377786.107 3747240.495 18.19
LOCATION L0002311     VOLUME   377789.765 3747240.509 18.19
LOCATION L0002312     VOLUME   377793.422 3747240.522 18.20
LOCATION L0002313     VOLUME   377797.080 3747240.536 18.21
LOCATION L0002314     VOLUME   377800.737 3747240.550 18.22
LOCATION L0002315     VOLUME   377804.395 3747240.563 18.23
LOCATION L0002316     VOLUME   377808.052 3747240.577 18.23
LOCATION L0002317     VOLUME   377811.710 3747240.591 18.24
LOCATION L0002318     VOLUME   377815.368 3747240.604 18.25
LOCATION L0002319     VOLUME   377819.025 3747240.618 18.26
LOCATION L0002320     VOLUME   377822.683 3747240.632 18.26
LOCATION L0002321     VOLUME   377826.340 3747240.645 18.27
LOCATION L0002322     VOLUME   377829.998 3747240.659 18.28
LOCATION L0002323     VOLUME   377833.655 3747240.673 18.28
LOCATION L0002324     VOLUME   377837.313 3747240.686 18.29
LOCATION L0002325     VOLUME   377840.971 3747240.700 18.29
LOCATION L0002326     VOLUME   377844.628 3747240.714 18.29
LOCATION L0002327     VOLUME   377848.286 3747240.728 18.29
LOCATION L0002328     VOLUME   377851.943 3747240.741 18.29
LOCATION L0002329     VOLUME   377855.601 3747240.755 18.30
LOCATION L0002330     VOLUME   377859.258 3747240.769 18.32
LOCATION L0002331     VOLUME   377862.916 3747240.782 18.34
LOCATION L0002332     VOLUME   377866.574 3747240.796 18.36
LOCATION L0002333     VOLUME   377870.231 3747240.810 18.39
LOCATION L0002334     VOLUME   377873.889 3747240.823 18.41
LOCATION L0002335     VOLUME   377877.546 3747240.837 18.44
LOCATION L0002336     VOLUME   377881.204 3747240.851 18.46
LOCATION L0002337     VOLUME   377884.861 3747240.864 18.49
LOCATION L0002338     VOLUME   377888.519 3747240.878 18.51
LOCATION L0002339     VOLUME   377892.177 3747240.892 18.54
LOCATION L0002340     VOLUME   377895.834 3747240.905 18.56
LOCATION L0002341     VOLUME   377899.492 3747240.919 18.59
LOCATION L0002342     VOLUME   377903.149 3747240.933 18.61
LOCATION L0002343     VOLUME   377906.807 3747240.946 18.64
LOCATION L0002344     VOLUME   377910.464 3747240.960 18.66
LOCATION L0002345     VOLUME   377914.122 3747240.974 18.68
LOCATION L0002346     VOLUME   377917.780 3747240.987 18.71
LOCATION L0002347     VOLUME   377921.437 3747241.001 18.73
LOCATION L0002348     VOLUME   377925.095 3747241.015 18.76
LOCATION L0002349     VOLUME   377928.752 3747241.028 18.78
LOCATION L0002350     VOLUME   377932.410 3747241.042 18.81
LOCATION L0002351     VOLUME   377936.068 3747241.056 18.85
LOCATION L0002352     VOLUME   377939.725 3747241.069 18.90
LOCATION L0002353     VOLUME   377943.383 3747241.083 18.95
```

```
LOCATION L0002354     VOLUME   377947.040 3747241.097 19.00
LOCATION L0002355     VOLUME   377950.698 3747241.110 19.05
LOCATION L0002356     VOLUME   377954.355 3747241.124 19.10
LOCATION L0002357     VOLUME   377958.013 3747241.138 19.15
LOCATION L0002358     VOLUME   377961.671 3747241.151 19.17
LOCATION L0002359     VOLUME   377965.328 3747241.165 19.17
LOCATION L0002360     VOLUME   377968.986 3747241.179 19.17
LOCATION L0002361     VOLUME   377972.643 3747241.192 19.17
LOCATION L0002362     VOLUME   377976.301 3747241.206 19.16
LOCATION L0002363     VOLUME   377979.958 3747241.220 19.16
LOCATION L0002364     VOLUME   377983.616 3747241.233 19.16
LOCATION L0002365     VOLUME   377987.274 3747241.247 19.17
LOCATION L0002366     VOLUME   377990.931 3747241.261 19.19
LOCATION L0002367     VOLUME   377994.589 3747241.274 19.20
LOCATION L0002368     VOLUME   377998.246 3747241.288 19.22
LOCATION L0002369     VOLUME   378001.904 3747241.302 19.24
LOCATION L0002370     VOLUME   378005.561 3747241.316 19.25
LOCATION L0002371     VOLUME   378009.219 3747241.329 19.27
LOCATION L0002372     VOLUME   378012.877 3747241.343 19.28
LOCATION L0002373     VOLUME   378016.534 3747241.357 19.30
LOCATION L0002374     VOLUME   378020.192 3747241.370 19.31
LOCATION L0002375     VOLUME   378023.849 3747241.384 19.32
LOCATION L0002376     VOLUME   378027.507 3747241.398 19.34
LOCATION L0002377     VOLUME   378031.164 3747241.411 19.35
LOCATION L0002378     VOLUME   378034.822 3747241.425 19.37
LOCATION L0002379     VOLUME   378038.480 3747241.439 19.40
LOCATION L0002380     VOLUME   378042.137 3747241.452 19.44
LOCATION L0002381     VOLUME   378045.795 3747241.466 19.49
LOCATION L0002382     VOLUME   378049.452 3747241.480 19.53
LOCATION L0002383     VOLUME   378053.110 3747241.493 19.57
LOCATION L0002384     VOLUME   378056.767 3747241.507 19.62
LOCATION L0002385     VOLUME   378060.425 3747241.521 19.66
LOCATION L0002386     VOLUME   378064.083 3747241.534 19.68
LOCATION L0002387     VOLUME   378067.740 3747241.548 19.69
LOCATION L0002388     VOLUME   378071.398 3747241.562 19.70
LOCATION L0002389     VOLUME   378075.055 3747241.575 19.70
LOCATION L0002390     VOLUME   378078.713 3747241.589 19.71
LOCATION L0002391     VOLUME   378082.370 3747241.603 19.72
LOCATION L0002392     VOLUME   378086.028 3747241.616 19.72
LOCATION L0002393     VOLUME   378089.686 3747241.630 19.74
LOCATION L0002394     VOLUME   378093.343 3747241.644 19.76
LOCATION L0002395     VOLUME   378097.001 3747241.657 19.78
LOCATION L0002396     VOLUME   378100.658 3747241.671 19.80
LOCATION L0002397     VOLUME   378104.316 3747241.685 19.83
LOCATION L0002398     VOLUME   378107.974 3747241.698 19.85
LOCATION L0002399     VOLUME   378111.631 3747241.712 19.87
LOCATION L0002400     VOLUME   378115.289 3747241.726 19.88
LOCATION L0002401     VOLUME   378118.946 3747241.739 19.89
LOCATION L0002402     VOLUME   378122.604 3747241.753 19.90
LOCATION L0002403     VOLUME   378126.261 3747241.767 19.90
LOCATION L0002404     VOLUME   378129.919 3747241.780 19.91
```

```
LOCATION L0002405     VOLUME   378133.577 3747241.794 19.91
LOCATION L0002406     VOLUME   378137.234 3747241.808 19.92
LOCATION L0002407     VOLUME   378140.892 3747241.821 19.92
LOCATION L0002408     VOLUME   378144.549 3747241.835 19.91
LOCATION L0002409     VOLUME   378148.207 3747241.849 19.91
LOCATION L0002410     VOLUME   378151.864 3747241.863 19.91
LOCATION L0002411     VOLUME   378155.522 3747241.876 19.90
LOCATION L0002412     VOLUME   378159.180 3747241.890 19.90
LOCATION L0002413     VOLUME   378162.837 3747241.904 19.90
LOCATION L0002414     VOLUME   378166.495 3747241.917 19.88
LOCATION L0002415     VOLUME   378170.152 3747241.931 19.84
LOCATION L0002416     VOLUME   378173.810 3747241.945 19.80
LOCATION L0002417     VOLUME   378177.467 3747241.958 19.77
LOCATION L0002418     VOLUME   378181.125 3747241.972 19.73
LOCATION L0002419     VOLUME   378184.783 3747241.986 19.69
LOCATION L0002420     VOLUME   378188.440 3747241.999 19.66
LOCATION L0002421     VOLUME   378192.098 3747242.013 19.64
LOCATION L0002422     VOLUME   378195.755 3747242.027 19.66
LOCATION L0002423     VOLUME   378199.413 3747242.040 19.67
LOCATION L0002424     VOLUME   378203.070 3747242.054 19.68
LOCATION L0002425     VOLUME   378206.728 3747242.068 19.69
LOCATION L0002426     VOLUME   378210.386 3747242.081 19.70
LOCATION L0002427     VOLUME   378214.043 3747242.095 19.71
LOCATION L0002428     VOLUME   378217.701 3747242.109 19.71
LOCATION L0002429     VOLUME   378221.358 3747242.122 19.70
LOCATION L0002430     VOLUME   378225.016 3747242.136 19.70
LOCATION L0002431     VOLUME   378228.673 3747242.150 19.69
LOCATION L0002432     VOLUME   378232.331 3747242.163 19.68
LOCATION L0002433     VOLUME   378235.989 3747242.177 19.67
LOCATION L0002434     VOLUME   378239.646 3747242.191 19.66
LOCATION L0002435     VOLUME   378243.304 3747242.204 19.64
LOCATION L0002436     VOLUME   378246.961 3747242.218 19.59
LOCATION L0002437     VOLUME   378250.619 3747242.232 19.54
LOCATION L0002438     VOLUME   378254.276 3747242.245 19.50
LOCATION L0002439     VOLUME   378257.934 3747242.259 19.45
LOCATION L0002440     VOLUME   378261.592 3747242.273 19.40
LOCATION L0002441     VOLUME   378265.249 3747242.286 19.35
LOCATION L0002442     VOLUME   378268.907 3747242.300 19.33
LOCATION L0002443     VOLUME   378272.564 3747242.314 19.34
LOCATION L0002444     VOLUME   378276.222 3747242.327 19.36
LOCATION L0002445     VOLUME   378279.880 3747242.341 19.37
LOCATION L0002446     VOLUME   378283.537 3747242.355 19.39
LOCATION L0002447     VOLUME   378287.195 3747242.368 19.40
LOCATION L0002448     VOLUME   378290.852 3747242.382 19.42
LOCATION L0002449     VOLUME   378294.510 3747242.396 19.43
LOCATION L0002450     VOLUME   378298.167 3747242.410 19.42
LOCATION L0002451     VOLUME   378301.825 3747242.423 19.42
LOCATION L0002452     VOLUME   378305.483 3747242.437 19.42
LOCATION L0002453     VOLUME   378309.140 3747242.451 19.41
LOCATION L0002454     VOLUME   378312.798 3747242.464 19.41
LOCATION L0002455     VOLUME   378316.455 3747242.478 19.41
```

```
LOCATION L0002456     VOLUME   378320.113 3747242.492 19.40
LOCATION L0002457     VOLUME   378323.770 3747242.505 19.37
LOCATION L0002458     VOLUME   378327.428 3747242.519 19.35
LOCATION L0002459     VOLUME   378331.086 3747242.533 19.32
LOCATION L0002460     VOLUME   378334.743 3747242.546 19.30
LOCATION L0002461     VOLUME   378338.401 3747242.560 19.27
LOCATION L0002462     VOLUME   378342.058 3747242.574 19.25
LOCATION L0002463     VOLUME   378345.716 3747242.587 19.23
LOCATION L0002464     VOLUME   378349.373 3747242.601 19.22
LOCATION L0002465     VOLUME   378353.031 3747242.615 19.22
LOCATION L0002466     VOLUME   378356.689 3747242.628 19.21
LOCATION L0002467     VOLUME   378360.346 3747242.642 19.20
LOCATION L0002468     VOLUME   378364.004 3747242.656 19.20
LOCATION L0002469     VOLUME   378367.661 3747242.669 19.19
LOCATION L0002470     VOLUME   378371.319 3747242.683 19.18
LOCATION L0002471     VOLUME   378374.976 3747242.697 19.19
LOCATION L0002472     VOLUME   378378.634 3747242.710 19.19
LOCATION L0002473     VOLUME   378382.292 3747242.724 19.19
LOCATION L0002474     VOLUME   378385.949 3747242.738 19.19
LOCATION L0002475     VOLUME   378389.607 3747242.751 19.19
LOCATION L0002476     VOLUME   378393.264 3747242.765 19.19
LOCATION L0002477     VOLUME   378396.922 3747242.779 19.18
LOCATION L0002478     VOLUME   378400.579 3747242.792 19.15
LOCATION L0002479     VOLUME   378404.237 3747242.806 19.12
LOCATION L0002480     VOLUME   378407.895 3747242.820 19.09
LOCATION L0002481     VOLUME   378411.552 3747242.833 19.05
LOCATION L0002482     VOLUME   378415.210 3747242.847 19.02
LOCATION L0002483     VOLUME   378418.867 3747242.861 18.99
LOCATION L0002484     VOLUME   378422.525 3747242.874 18.97
LOCATION L0002485     VOLUME   378426.182 3747242.888 19.00
LOCATION L0002486     VOLUME   378429.840 3747242.902 19.03
LOCATION L0002487     VOLUME   378433.498 3747242.915 19.07
LOCATION L0002488     VOLUME   378437.155 3747242.929 19.10
LOCATION L0002489     VOLUME   378440.813 3747242.943 19.13
LOCATION L0002490     VOLUME   378444.470 3747242.957 19.17
LOCATION L0002491     VOLUME   378448.128 3747242.970 19.19
LOCATION L0002492     VOLUME   378451.786 3747242.984 19.19
LOCATION L0002493     VOLUME   378455.443 3747242.998 19.18
LOCATION L0002494     VOLUME   378459.101 3747243.011 19.18
LOCATION L0002495     VOLUME   378462.758 3747243.025 19.17
LOCATION L0002496     VOLUME   378466.416 3747243.039 19.17
LOCATION L0002497     VOLUME   378470.073 3747243.052 19.17
LOCATION L0002498     VOLUME   378473.731 3747243.066 19.16
LOCATION L0002499     VOLUME   378477.389 3747243.080 19.14
LOCATION L0002500     VOLUME   378481.046 3747243.093 19.11
LOCATION L0002501     VOLUME   378484.704 3747243.107 19.08
LOCATION L0002502     VOLUME   378488.361 3747243.121 19.06
LOCATION L0002503     VOLUME   378492.019 3747243.134 19.03
LOCATION L0002504     VOLUME   378495.676 3747243.148 19.01
LOCATION L0002505     VOLUME   378499.334 3747243.162 18.98
LOCATION L0002506     VOLUME   378502.992 3747243.175 18.96
```

```
LOCATION L0002507     VOLUME   378506.649 3747243.189 18.94
LOCATION L0002508     VOLUME   378510.307 3747243.203 18.92
LOCATION L0002509     VOLUME   378513.964 3747243.216 18.90
LOCATION L0002510     VOLUME   378517.622 3747243.230 18.88
LOCATION L0002511     VOLUME   378521.279 3747243.244 18.87
LOCATION L0002512     VOLUME   378524.937 3747243.257 18.85
LOCATION L0002513     VOLUME   378528.595 3747243.271 18.83
LOCATION L0002514     VOLUME   378532.252 3747243.285 18.82
LOCATION L0002515     VOLUME   378535.910 3747243.298 18.81
LOCATION L0002516     VOLUME   378539.567 3747243.312 18.79
LOCATION L0002517     VOLUME   378543.225 3747243.326 18.78
LOCATION L0002518     VOLUME   378546.882 3747243.339 18.76
LOCATION L0002519     VOLUME   378550.540 3747243.353 18.75
LOCATION L0002520     VOLUME   378554.198 3747243.367 18.72
LOCATION L0002521     VOLUME   378557.855 3747243.380 18.70
LOCATION L0002522     VOLUME   378561.513 3747243.394 18.68
LOCATION L0002523     VOLUME   378565.170 3747243.408 18.66
LOCATION L0002524     VOLUME   378568.828 3747243.421 18.63
LOCATION L0002525     VOLUME   378572.485 3747243.435 18.61
LOCATION L0002526     VOLUME   378576.143 3747243.449 18.59
LOCATION L0002527     VOLUME   378579.801 3747243.462 18.60
LOCATION L0002528     VOLUME   378583.458 3747243.476 18.61
LOCATION L0002529     VOLUME   378587.116 3747243.490 18.62
LOCATION L0002530     VOLUME   378590.773 3747243.504 18.63
LOCATION L0002531     VOLUME   378594.431 3747243.517 18.65
LOCATION L0002532     VOLUME   378598.088 3747243.531 18.66
LOCATION L0002533     VOLUME   378601.746 3747243.545 18.67
LOCATION L0002534     VOLUME   378605.404 3747243.558 18.68
LOCATION L0002535     VOLUME   378609.061 3747243.572 18.68
LOCATION L0002536     VOLUME   378612.719 3747243.586 18.69
LOCATION L0002537     VOLUME   378616.376 3747243.599 18.69
LOCATION L0002538     VOLUME   378620.034 3747243.613 18.69
LOCATION L0002539     VOLUME   378623.692 3747243.627 18.70
LOCATION L0002540     VOLUME   378627.349 3747243.640 18.70
LOCATION L0002541     VOLUME   378631.007 3747243.654 18.68
LOCATION L0002542     VOLUME   378634.664 3747243.668 18.65
LOCATION L0002543     VOLUME   378638.322 3747243.681 18.63
LOCATION L0002544     VOLUME   378641.979 3747243.695 18.60
LOCATION L0002545     VOLUME   378645.637 3747243.709 18.57
LOCATION L0002546     VOLUME   378649.295 3747243.722 18.55
LOCATION L0002547     VOLUME   378652.952 3747243.736 18.52
LOCATION L0002548     VOLUME   378656.610 3747243.750 18.49
LOCATION L0002549     VOLUME   378660.267 3747243.763 18.47
LOCATION L0002550     VOLUME   378663.925 3747243.777 18.44
LOCATION L0002551     VOLUME   378667.582 3747243.791 18.41
LOCATION L0002552     VOLUME   378671.240 3747243.804 18.39
LOCATION L0002553     VOLUME   378674.898 3747243.818 18.36
LOCATION L0002554     VOLUME   378678.555 3747243.832 18.33
LOCATION L0002555     VOLUME   378682.213 3747243.845 18.33
LOCATION L0002556     VOLUME   378685.870 3747243.859 18.34
LOCATION L0002557     VOLUME   378689.528 3747243.873 18.35
```

```
   LOCATION L0002558     VOLUME   378693.185 3747243.886 18.35
   LOCATION L0002559     VOLUME   378696.843 3747243.900 18.36
   LOCATION L0002560     VOLUME   378700.501 3747243.914 18.36
** End of LINE VOLUME Source ID = SLINE5
** Source Parameters **
   SRCPARAM STCK1        0.0000132     3.658   366.000  51.90000     0.091
   SRCPARAM STCK2        0.0000132     3.658   366.000  51.90000     0.091
   SRCPARAM STCK3        0.0000132     3.658   366.000  51.90000     0.091
   SRCPARAM STCK4        0.0000132     3.658   366.000  51.90000     0.091
   SRCPARAM STCK5        0.0000132     3.658   366.000  51.90000     0.091
   SRCPARAM STCK6        0.0000132     3.658   366.000  51.90000     0.091
** LINE VOLUME Source ID = SLINE1
   SRCPARAM L0001748     0.00000003392      0.00      1.70      5.10
   SRCPARAM L0001749     0.00000003392      0.00      1.70      5.10
   SRCPARAM L0001750     0.00000003392      0.00      1.70      5.10
   SRCPARAM L0001751     0.00000003392      0.00      1.70      5.10
   SRCPARAM L0001752     0.00000003392      0.00      1.70      5.10
   SRCPARAM L0001753     0.00000003392      0.00      1.70      5.10
   SRCPARAM L0001754     0.00000003392      0.00      1.70      5.10
   SRCPARAM L0001755     0.00000003392      0.00      1.70      5.10
   SRCPARAM L0001756     0.00000003392      0.00      1.70      5.10
   SRCPARAM L0001757     0.00000003392      0.00      1.70      5.10
   SRCPARAM L0001758     0.00000003392      0.00      1.70      5.10
   SRCPARAM L0001759     0.00000003392      0.00      1.70      5.10
   SRCPARAM L0001760     0.00000003392      0.00      1.70      5.10
   SRCPARAM L0001761     0.00000003392      0.00      1.70      5.10
   SRCPARAM L0001762     0.00000003392      0.00      1.70      5.10
   SRCPARAM L0001763     0.00000003392      0.00      1.70      5.10
   SRCPARAM L0001764     0.00000003392      0.00      1.70      5.10
   SRCPARAM L0001765     0.00000003392      0.00      1.70      5.10
   SRCPARAM L0001766     0.00000003392      0.00      1.70      5.10
   SRCPARAM L0001767     0.00000003392      0.00      1.70      5.10
   SRCPARAM L0001768     0.00000003392      0.00      1.70      5.10
   SRCPARAM L0001769     0.00000003392      0.00      1.70      5.10
   SRCPARAM L0001770     0.00000003392      0.00      1.70      5.10
   SRCPARAM L0001771     0.00000003392      0.00      1.70      5.10
   SRCPARAM L0001772     0.00000003392      0.00      1.70      5.10
   SRCPARAM L0001773     0.00000003392      0.00      1.70      5.10
   SRCPARAM L0001774     0.00000003392      0.00      1.70      5.10
   SRCPARAM L0001775     0.00000003392      0.00      1.70      5.10
   SRCPARAM L0001776     0.00000003392      0.00      1.70      5.10
   SRCPARAM L0001777     0.00000003392      0.00      1.70      5.10
   SRCPARAM L0001778     0.00000003392      0.00      1.70      5.10
   SRCPARAM L0001779     0.00000003392      0.00      1.70      5.10
   SRCPARAM L0001780     0.00000003392      0.00      1.70      5.10
   SRCPARAM L0001781     0.00000003392      0.00      1.70      5.10
   SRCPARAM L0001782     0.00000003392      0.00      1.70      5.10
   SRCPARAM L0001783     0.00000003392      0.00      1.70      5.10
   SRCPARAM L0001784     0.00000003392      0.00      1.70      5.10
   SRCPARAM L0001785     0.00000003392      0.00      1.70      5.10
   SRCPARAM L0001786     0.00000003392      0.00      1.70      5.10
```

```
   SRCPARAM L0001787     0.00000003392      0.00      1.70      5.10
   SRCPARAM L0001788     0.00000003392      0.00      1.70      5.10
   SRCPARAM L0001789     0.00000003392      0.00      1.70      5.10
   SRCPARAM L0001790     0.00000003392      0.00      1.70      5.10
   SRCPARAM L0001791     0.00000003392      0.00      1.70      5.10
   SRCPARAM L0001792     0.00000003392      0.00      1.70      5.10
   SRCPARAM L0001793     0.00000003392      0.00      1.70      5.10
   SRCPARAM L0001794     0.00000003392      0.00      1.70      5.10
   SRCPARAM L0001795     0.00000003392      0.00      1.70      5.10
   SRCPARAM L0001796     0.00000003392      0.00      1.70      5.10
   SRCPARAM L0001797     0.00000003392      0.00      1.70      5.10
   SRCPARAM L0001798     0.00000003392      0.00      1.70      5.10
   SRCPARAM L0001799     0.00000003392      0.00      1.70      5.10
   SRCPARAM L0001800     0.00000003392      0.00      1.70      5.10
   SRCPARAM L0001801     0.00000003392      0.00      1.70      5.10
   SRCPARAM L0001802     0.00000003392      0.00      1.70      5.10
   SRCPARAM L0001803     0.00000003392      0.00      1.70      5.10
   SRCPARAM L0001804     0.00000003392      0.00      1.70      5.10
   SRCPARAM L0001805     0.00000003392      0.00      1.70      5.10
   SRCPARAM L0001806     0.00000003392      0.00      1.70      5.10
   SRCPARAM L0001807     0.00000003392      0.00      1.70      5.10
   SRCPARAM L0001808     0.00000003392      0.00      1.70      5.10
   SRCPARAM L0001809     0.00000003392      0.00      1.70      5.10
   SRCPARAM L0001810     0.00000003392      0.00      1.70      5.10
   SRCPARAM L0001811     0.00000003392      0.00      1.70      5.10
   SRCPARAM L0001812     0.00000003392      0.00      1.70      5.10
   SRCPARAM L0001813     0.00000003392      0.00      1.70      5.10
   SRCPARAM L0001814     0.00000003392      0.00      1.70      5.10
   SRCPARAM L0001815     0.00000003392      0.00      1.70      5.10
   SRCPARAM L0001816     0.00000003392      0.00      1.70      5.10
   SRCPARAM L0001817     0.00000003392      0.00      1.70      5.10
   SRCPARAM L0001818     0.00000003392      0.00      1.70      5.10
   SRCPARAM L0001819     0.00000003392      0.00      1.70      5.10
   SRCPARAM L0001820     0.00000003392      0.00      1.70      5.10
   SRCPARAM L0001821     0.00000003392      0.00      1.70      5.10
   SRCPARAM L0001822     0.00000003392      0.00      1.70      5.10
   SRCPARAM L0001823     0.00000003392      0.00      1.70      5.10
   SRCPARAM L0001824     0.00000003392      0.00      1.70      5.10
   SRCPARAM L0001825     0.00000003392      0.00      1.70      5.10
   SRCPARAM L0001826     0.00000003392      0.00      1.70      5.10
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE2
   SRCPARAM L0001827     0.00000003404      0.00      1.70      5.10
   SRCPARAM L0001828     0.00000003404      0.00      1.70      5.10
   SRCPARAM L0001829     0.00000003404      0.00      1.70      5.10
   SRCPARAM L0001830     0.00000003404      0.00      1.70      5.10
   SRCPARAM L0001831     0.00000003404      0.00      1.70      5.10
   SRCPARAM L0001832     0.00000003404      0.00      1.70      5.10
   SRCPARAM L0001833     0.00000003404      0.00      1.70      5.10
   SRCPARAM L0001834     0.00000003404      0.00      1.70      5.10
   SRCPARAM L0001835     0.00000003404      0.00      1.70      5.10
```

```
   SRCPARAM L0001836     0.00000003404      0.00      1.70      5.10
   SRCPARAM L0001837     0.00000003404      0.00      1.70      5.10
   SRCPARAM L0001838     0.00000003404      0.00      1.70      5.10
   SRCPARAM L0001839     0.00000003404      0.00      1.70      5.10
   SRCPARAM L0001840     0.00000003404      0.00      1.70      5.10
   SRCPARAM L0001841     0.00000003404      0.00      1.70      5.10
   SRCPARAM L0001842     0.00000003404      0.00      1.70      5.10
   SRCPARAM L0001843     0.00000003404      0.00      1.70      5.10
   SRCPARAM L0001844     0.00000003404      0.00      1.70      5.10
   SRCPARAM L0001845     0.00000003404      0.00      1.70      5.10
   SRCPARAM L0001846     0.00000003404      0.00      1.70      5.10
   SRCPARAM L0001847     0.00000003404      0.00      1.70      5.10
   SRCPARAM L0001848     0.00000003404      0.00      1.70      5.10
   SRCPARAM L0001849     0.00000003404      0.00      1.70      5.10
   SRCPARAM L0001850     0.00000003404      0.00      1.70      5.10
   SRCPARAM L0001851     0.00000003404      0.00      1.70      5.10
   SRCPARAM L0001852     0.00000003404      0.00      1.70      5.10
   SRCPARAM L0001853     0.00000003404      0.00      1.70      5.10
   SRCPARAM L0001854     0.00000003404      0.00      1.70      5.10
   SRCPARAM L0001855     0.00000003404      0.00      1.70      5.10
   SRCPARAM L0001856     0.00000003404      0.00      1.70      5.10
   SRCPARAM L0001857     0.00000003404      0.00      1.70      5.10
   SRCPARAM L0001858     0.00000003404      0.00      1.70      5.10
   SRCPARAM L0001859     0.00000003404      0.00      1.70      5.10
   SRCPARAM L0001860     0.00000003404      0.00      1.70      5.10
   SRCPARAM L0001861     0.00000003404      0.00      1.70      5.10
   SRCPARAM L0001862     0.00000003404      0.00      1.70      5.10
   SRCPARAM L0001863     0.00000003404      0.00      1.70      5.10
   SRCPARAM L0001864     0.00000003404      0.00      1.70      5.10
   SRCPARAM L0001865     0.00000003404      0.00      1.70      5.10
   SRCPARAM L0001866     0.00000003404      0.00      1.70      5.10
   SRCPARAM L0001867     0.00000003404      0.00      1.70      5.10
   SRCPARAM L0001868     0.00000003404      0.00      1.70      5.10
   SRCPARAM L0001869     0.00000003404      0.00      1.70      5.10
   SRCPARAM L0001870     0.00000003404      0.00      1.70      5.10
   SRCPARAM L0001871     0.00000003404      0.00      1.70      5.10
   SRCPARAM L0001872     0.00000003404      0.00      1.70      5.10
   SRCPARAM L0001873     0.00000003404      0.00      1.70      5.10
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE3
   SRCPARAM L0001874     0.00000003931      0.00      1.70      0.85
   SRCPARAM L0001875     0.00000003931      0.00      1.70      0.85
   SRCPARAM L0001876     0.00000003931      0.00      1.70      0.85
   SRCPARAM L0001877     0.00000003931      0.00      1.70      0.85
   SRCPARAM L0001878     0.00000003931      0.00      1.70      0.85
   SRCPARAM L0001879     0.00000003931      0.00      1.70      0.85
   SRCPARAM L0001880     0.00000003931      0.00      1.70      0.85
   SRCPARAM L0001881     0.00000003931      0.00      1.70      0.85
   SRCPARAM L0001882     0.00000003931      0.00      1.70      0.85
   SRCPARAM L0001883     0.00000003931      0.00      1.70      0.85
   SRCPARAM L0001884     0.00000003931      0.00      1.70      0.85
```

```
SRCPARAM L0001885     0.00000003931      0.00      1.70      0.85
SRCPARAM L0001886     0.00000003931      0.00      1.70      0.85
SRCPARAM L0001887     0.00000003931      0.00      1.70      0.85
SRCPARAM L0001888     0.00000003931      0.00      1.70      0.85
SRCPARAM L0001889     0.00000003931      0.00      1.70      0.85
SRCPARAM L0001890     0.00000003931      0.00      1.70      0.85
SRCPARAM L0001891     0.00000003931      0.00      1.70      0.85
SRCPARAM L0001892     0.00000003931      0.00      1.70      0.85
SRCPARAM L0001893     0.00000003931      0.00      1.70      0.85
SRCPARAM L0001894     0.00000003931      0.00      1.70      0.85
SRCPARAM L0001895     0.00000003931      0.00      1.70      0.85
SRCPARAM L0001896     0.00000003931      0.00      1.70      0.85
SRCPARAM L0001897     0.00000003931      0.00      1.70      0.85
SRCPARAM L0001898     0.00000003931      0.00      1.70      0.85
SRCPARAM L0001899     0.00000003931      0.00      1.70      0.85
SRCPARAM L0001900     0.00000003931      0.00      1.70      0.85
SRCPARAM L0001901     0.00000003931      0.00      1.70      0.85
SRCPARAM L0001902     0.00000003931      0.00      1.70      0.85
SRCPARAM L0001903     0.00000003931      0.00      1.70      0.85
SRCPARAM L0001904     0.00000003931      0.00      1.70      0.85
SRCPARAM L0001905     0.00000003931      0.00      1.70      0.85
SRCPARAM L0001906     0.00000003931      0.00      1.70      0.85
SRCPARAM L0001907     0.00000003931      0.00      1.70      0.85
SRCPARAM L0001908     0.00000003931      0.00      1.70      0.85
SRCPARAM L0001909     0.00000003931      0.00      1.70      0.85
SRCPARAM L0001910     0.00000003931      0.00      1.70      0.85
SRCPARAM L0001911     0.00000003931      0.00      1.70      0.85
SRCPARAM L0001912     0.00000003931      0.00      1.70      0.85
SRCPARAM L0001913     0.00000003931      0.00      1.70      0.85
SRCPARAM L0001914     0.00000003931      0.00      1.70      0.85
SRCPARAM L0001915     0.00000003931      0.00      1.70      0.85
SRCPARAM L0001916     0.00000003931      0.00      1.70      0.85
SRCPARAM L0001917     0.00000003931      0.00      1.70      0.85
SRCPARAM L0001918     0.00000003931      0.00      1.70      0.85
SRCPARAM L0001919     0.00000003931      0.00      1.70      0.85
SRCPARAM L0001920     0.00000003931      0.00      1.70      0.85
SRCPARAM L0001921     0.00000003931      0.00      1.70      0.85
SRCPARAM L0001922     0.00000003931      0.00      1.70      0.85
SRCPARAM L0001923     0.00000003931      0.00      1.70      0.85
SRCPARAM L0001924     0.00000003931      0.00      1.70      0.85
SRCPARAM L0001925     0.00000003931      0.00      1.70      0.85
SRCPARAM L0001926     0.00000003931      0.00      1.70      0.85
SRCPARAM L0001927     0.00000003931      0.00      1.70      0.85
SRCPARAM L0001928     0.00000003931      0.00      1.70      0.85
SRCPARAM L0001929     0.00000003931      0.00      1.70      0.85
SRCPARAM L0001930     0.00000003931      0.00      1.70      0.85
SRCPARAM L0001931     0.00000003931      0.00      1.70      0.85
SRCPARAM L0001932     0.00000003931      0.00      1.70      0.85
SRCPARAM L0001933     0.00000003931      0.00      1.70      0.85
SRCPARAM L0001934     0.00000003931      0.00      1.70      0.85
SRCPARAM L0001935     0.00000003931      0.00      1.70      0.85
```

```
SRCPARAM L0001936     0.00000003931      0.00      1.70      0.85
SRCPARAM L0001937     0.00000003931      0.00      1.70      0.85
SRCPARAM L0001938     0.00000003931      0.00      1.70      0.85
SRCPARAM L0001939     0.00000003931      0.00      1.70      0.85
SRCPARAM L0001940     0.00000003931      0.00      1.70      0.85
SRCPARAM L0001941     0.00000003931      0.00      1.70      0.85
SRCPARAM L0001942     0.00000003931      0.00      1.70      0.85
SRCPARAM L0001943     0.00000003931      0.00      1.70      0.85
SRCPARAM L0001944     0.00000003931      0.00      1.70      0.85
SRCPARAM L0001945     0.00000003931      0.00      1.70      0.85
SRCPARAM L0001946     0.00000003931      0.00      1.70      0.85
SRCPARAM L0001947     0.00000003931      0.00      1.70      0.85
SRCPARAM L0001948     0.00000003931      0.00      1.70      0.85
SRCPARAM L0001949     0.00000003931      0.00      1.70      0.85
SRCPARAM L0001950     0.00000003931      0.00      1.70      0.85
SRCPARAM L0001951     0.00000003931      0.00      1.70      0.85
SRCPARAM L0001952     0.00000003931      0.00      1.70      0.85
SRCPARAM L0001953     0.00000003931      0.00      1.70      0.85
SRCPARAM L0001954     0.00000003931      0.00      1.70      0.85
SRCPARAM L0001955     0.00000003931      0.00      1.70      0.85
SRCPARAM L0001956     0.00000003931      0.00      1.70      0.85
SRCPARAM L0001957     0.00000003931      0.00      1.70      0.85
SRCPARAM L0001958     0.00000003931      0.00      1.70      0.85
SRCPARAM L0001959     0.00000003931      0.00      1.70      0.85
SRCPARAM L0001960     0.00000003931      0.00      1.70      0.85
SRCPARAM L0001961     0.00000003931      0.00      1.70      0.85
SRCPARAM L0001962     0.00000003931      0.00      1.70      0.85
SRCPARAM L0001963     0.00000003931      0.00      1.70      0.85
SRCPARAM L0001964     0.00000003931      0.00      1.70      0.85
SRCPARAM L0001965     0.00000003931      0.00      1.70      0.85
SRCPARAM L0001966     0.00000003931      0.00      1.70      0.85
SRCPARAM L0001967     0.00000003931      0.00      1.70      0.85
SRCPARAM L0001968     0.00000003931      0.00      1.70      0.85
SRCPARAM L0001969     0.00000003931      0.00      1.70      0.85
SRCPARAM L0001970     0.00000003931      0.00      1.70      0.85
SRCPARAM L0001971     0.00000003931      0.00      1.70      0.85
SRCPARAM L0001972     0.00000003931      0.00      1.70      0.85
SRCPARAM L0001973     0.00000003931      0.00      1.70      0.85
SRCPARAM L0001974     0.00000003931      0.00      1.70      0.85
SRCPARAM L0001975     0.00000003931      0.00      1.70      0.85
SRCPARAM L0001976     0.00000003931      0.00      1.70      0.85
SRCPARAM L0001977     0.00000003931      0.00      1.70      0.85
SRCPARAM L0001978     0.00000003931      0.00      1.70      0.85
SRCPARAM L0001979     0.00000003931      0.00      1.70      0.85
SRCPARAM L0001980     0.00000003931      0.00      1.70      0.85
SRCPARAM L0001981     0.00000003931      0.00      1.70      0.85
SRCPARAM L0001982     0.00000003931      0.00      1.70      0.85
SRCPARAM L0001983     0.00000003931      0.00      1.70      0.85
SRCPARAM L0001984     0.00000003931      0.00      1.70      0.85
SRCPARAM L0001985     0.00000003931      0.00      1.70      0.85
SRCPARAM L0001986     0.00000003931      0.00      1.70      0.85
```

```
   SRCPARAM L0001987     0.00000003931      0.00      1.70      0.85
   SRCPARAM L0001988     0.00000003931      0.00      1.70      0.85
   SRCPARAM L0001989     0.00000003931      0.00      1.70      0.85
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE4
   SRCPARAM L0002561     0.00000001733      0.00      1.70      0.85
   SRCPARAM L0002562     0.00000001733      0.00      1.70      0.85
   SRCPARAM L0002563     0.00000001733      0.00      1.70      0.85
   SRCPARAM L0002564     0.00000001733      0.00      1.70      0.85
   SRCPARAM L0002565     0.00000001733      0.00      1.70      0.85
   SRCPARAM L0002566     0.00000001733      0.00      1.70      0.85
   SRCPARAM L0002567     0.00000001733      0.00      1.70      0.85
   SRCPARAM L0002568     0.00000001733      0.00      1.70      0.85
   SRCPARAM L0002569     0.00000001733      0.00      1.70      0.85
   SRCPARAM L0002570     0.00000001733      0.00      1.70      0.85
   SRCPARAM L0002571     0.00000001733      0.00      1.70      0.85
   SRCPARAM L0002572     0.00000001733      0.00      1.70      0.85
   SRCPARAM L0002573     0.00000001733      0.00      1.70      0.85
   SRCPARAM L0002574     0.00000001733      0.00      1.70      0.85
   SRCPARAM L0002575     0.00000001733      0.00      1.70      0.85
   SRCPARAM L0002576     0.00000001733      0.00      1.70      0.85
   SRCPARAM L0002577     0.00000001733      0.00      1.70      0.85
   SRCPARAM L0002578     0.00000001733      0.00      1.70      0.85
   SRCPARAM L0002579     0.00000001733      0.00      1.70      0.85
   SRCPARAM L0002580     0.00000001733      0.00      1.70      0.85
   SRCPARAM L0002581     0.00000001733      0.00      1.70      0.85
   SRCPARAM L0002582     0.00000001733      0.00      1.70      0.85
   SRCPARAM L0002583     0.00000001733      0.00      1.70      0.85
   SRCPARAM L0002584     0.00000001733      0.00      1.70      0.85
   SRCPARAM L0002585     0.00000001733      0.00      1.70      0.85
   SRCPARAM L0002586     0.00000001733      0.00      1.70      0.85
   SRCPARAM L0002587     0.00000001733      0.00      1.70      0.85
   SRCPARAM L0002588     0.00000001733      0.00      1.70      0.85
   SRCPARAM L0002589     0.00000001733      0.00      1.70      0.85
   SRCPARAM L0002590     0.00000001733      0.00      1.70      0.85
   SRCPARAM L0002591     0.00000001733      0.00      1.70      0.85
   SRCPARAM L0002592     0.00000001733      0.00      1.70      0.85
   SRCPARAM L0002593     0.00000001733      0.00      1.70      0.85
   SRCPARAM L0002594     0.00000001733      0.00      1.70      0.85
   SRCPARAM L0002595     0.00000001733      0.00      1.70      0.85
   SRCPARAM L0002596     0.00000001733      0.00      1.70      0.85
   SRCPARAM L0002597     0.00000001733      0.00      1.70      0.85
   SRCPARAM L0002598     0.00000001733      0.00      1.70      0.85
   SRCPARAM L0002599     0.00000001733      0.00      1.70      0.85
   SRCPARAM L0002600     0.00000001733      0.00      1.70      0.85
   SRCPARAM L0002601     0.00000001733      0.00      1.70      0.85
   SRCPARAM L0002602     0.00000001733      0.00      1.70      0.85
   SRCPARAM L0002603     0.00000001733      0.00      1.70      0.85
   SRCPARAM L0002604     0.00000001733      0.00      1.70      0.85
   SRCPARAM L0002605     0.00000001733      0.00      1.70      0.85
   SRCPARAM L0002606     0.00000001733      0.00      1.70      0.85
```

```
   SRCPARAM L0002607     0.00000001733      0.00      1.70      0.85
   SRCPARAM L0002608     0.00000001733      0.00      1.70      0.85
   SRCPARAM L0002609     0.00000001733      0.00      1.70      0.85
   SRCPARAM L0002610     0.00000001733      0.00      1.70      0.85
   SRCPARAM L0002611     0.00000001733      0.00      1.70      0.85
   SRCPARAM L0002612     0.00000001733      0.00      1.70      0.85
   SRCPARAM L0002613     0.00000001733      0.00      1.70      0.85
   SRCPARAM L0002614     0.00000001733      0.00      1.70      0.85
   SRCPARAM L0002615     0.00000001733      0.00      1.70      0.85
   SRCPARAM L0002616     0.00000001733      0.00      1.70      0.85
   SRCPARAM L0002617     0.00000001733      0.00      1.70      0.85
   SRCPARAM L0002618     0.00000001733      0.00      1.70      0.85
   SRCPARAM L0002619     0.00000001733      0.00      1.70      0.85
   SRCPARAM L0002620     0.00000001733      0.00      1.70      0.85
   SRCPARAM L0002621     0.00000001733      0.00      1.70      0.85
   SRCPARAM L0002622     0.00000001733      0.00      1.70      0.85
   SRCPARAM L0002623     0.00000001733      0.00      1.70      0.85
   SRCPARAM L0002624     0.00000001733      0.00      1.70      0.85
   SRCPARAM L0002625     0.00000001733      0.00      1.70      0.85
   SRCPARAM L0002626     0.00000001733      0.00      1.70      0.85
   SRCPARAM L0002627     0.00000001733      0.00      1.70      0.85
   SRCPARAM L0002628     0.00000001733      0.00      1.70      0.85
   SRCPARAM L0002629     0.00000001733      0.00      1.70      0.85
   SRCPARAM L0002630     0.00000001733      0.00      1.70      0.85
   SRCPARAM L0002631     0.00000001733      0.00      1.70      0.85
   SRCPARAM L0002632     0.00000001733      0.00      1.70      0.85
   SRCPARAM L0002633     0.00000001733      0.00      1.70      0.85
   SRCPARAM L0002634     0.00000001733      0.00      1.70      0.85
   SRCPARAM L0002635     0.00000001733      0.00      1.70      0.85
** ----------------------------------------------------------------
** LINE VOLUME Source ID = SLINE5
   SRCPARAM L0002140     0.0000000285      0.00      1.70      0.85
   SRCPARAM L0002141     0.0000000285      0.00      1.70      0.85
   SRCPARAM L0002142     0.0000000285      0.00      1.70      0.85
   SRCPARAM L0002143     0.0000000285      0.00      1.70      0.85
   SRCPARAM L0002144     0.0000000285      0.00      1.70      0.85
   SRCPARAM L0002145     0.0000000285      0.00      1.70      0.85
   SRCPARAM L0002146     0.0000000285      0.00      1.70      0.85
   SRCPARAM L0002147     0.0000000285      0.00      1.70      0.85
   SRCPARAM L0002148     0.0000000285      0.00      1.70      0.85
   SRCPARAM L0002149     0.0000000285      0.00      1.70      0.85
   SRCPARAM L0002150     0.0000000285      0.00      1.70      0.85
   SRCPARAM L0002151     0.0000000285      0.00      1.70      0.85
   SRCPARAM L0002152     0.0000000285      0.00      1.70      0.85
   SRCPARAM L0002153     0.0000000285      0.00      1.70      0.85
   SRCPARAM L0002154     0.0000000285      0.00      1.70      0.85
   SRCPARAM L0002155     0.0000000285      0.00      1.70      0.85
   SRCPARAM L0002156     0.0000000285      0.00      1.70      0.85
   SRCPARAM L0002157     0.0000000285      0.00      1.70      0.85
   SRCPARAM L0002158     0.0000000285      0.00      1.70      0.85
   SRCPARAM L0002159     0.0000000285      0.00      1.70      0.85
```

```
SRCPARAM L0002160     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002161     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002162     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002163     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002164     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002165     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002166     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002167     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002168     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002169     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002170     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002171     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002172     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002173     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002174     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002175     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002176     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002177     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002178     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002179     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002180     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002181     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002182     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002183     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002184     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002185     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002186     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002187     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002188     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002189     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002190     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002191     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002192     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002193     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002194     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002195     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002196     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002197     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002198     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002199     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002200     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002201     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002202     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002203     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002204     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002205     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002206     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002207     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002208     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002209     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002210     0.0000000285      0.00      1.70      0.85
```

```
SRCPARAM L0002211     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002212     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002213     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002214     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002215     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002216     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002217     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002218     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002219     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002220     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002221     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002222     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002223     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002224     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002225     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002226     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002227     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002228     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002229     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002230     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002231     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002232     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002233     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002234     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002235     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002236     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002237     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002238     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002239     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002240     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002241     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002242     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002243     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002244     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002245     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002246     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002247     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002248     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002249     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002250     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002251     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002252     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002253     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002254     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002255     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002256     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002257     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002258     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002259     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002260     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002261     0.0000000285      0.00      1.70      0.85
```

```
SRCPARAM L0002262     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002263     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002264     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002265     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002266     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002267     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002268     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002269     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002270     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002271     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002272     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002273     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002274     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002275     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002276     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002277     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002278     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002279     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002280     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002281     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002282     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002283     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002284     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002285     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002286     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002287     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002288     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002289     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002290     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002291     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002292     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002293     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002294     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002295     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002296     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002297     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002298     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002299     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002300     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002301     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002302     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002303     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002304     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002305     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002306     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002307     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002308     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002309     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002310     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002311     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002312     0.0000000285      0.00      1.70      0.85
```

```
SRCPARAM L0002313     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002314     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002315     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002316     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002317     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002318     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002319     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002320     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002321     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002322     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002323     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002324     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002325     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002326     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002327     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002328     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002329     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002330     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002331     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002332     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002333     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002334     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002335     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002336     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002337     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002338     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002339     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002340     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002341     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002342     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002343     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002344     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002345     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002346     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002347     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002348     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002349     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002350     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002351     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002352     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002353     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002354     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002355     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002356     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002357     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002358     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002359     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002360     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002361     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002362     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002363     0.0000000285      0.00      1.70      0.85
```

```
SRCPARAM L0002364     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002365     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002366     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002367     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002368     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002369     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002370     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002371     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002372     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002373     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002374     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002375     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002376     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002377     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002378     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002379     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002380     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002381     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002382     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002383     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002384     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002385     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002386     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002387     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002388     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002389     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002390     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002391     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002392     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002393     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002394     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002395     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002396     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002397     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002398     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002399     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002400     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002401     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002402     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002403     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002404     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002405     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002406     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002407     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002408     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002409     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002410     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002411     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002412     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002413     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002414     0.0000000285      0.00      1.70      0.85
```

```
SRCPARAM L0002415     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002416     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002417     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002418     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002419     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002420     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002421     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002422     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002423     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002424     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002425     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002426     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002427     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002428     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002429     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002430     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002431     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002432     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002433     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002434     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002435     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002436     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002437     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002438     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002439     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002440     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002441     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002442     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002443     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002444     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002445     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002446     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002447     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002448     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002449     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002450     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002451     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002452     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002453     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002454     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002455     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002456     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002457     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002458     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002459     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002460     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002461     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002462     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002463     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002464     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002465     0.0000000285      0.00      1.70      0.85
```

```
SRCPARAM L0002466     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002467     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002468     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002469     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002470     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002471     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002472     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002473     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002474     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002475     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002476     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002477     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002478     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002479     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002480     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002481     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002482     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002483     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002484     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002485     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002486     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002487     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002488     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002489     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002490     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002491     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002492     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002493     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002494     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002495     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002496     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002497     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002498     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002499     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002500     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002501     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002502     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002503     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002504     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002505     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002506     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002507     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002508     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002509     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002510     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002511     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002512     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002513     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002514     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002515     0.0000000285      0.00      1.70      0.85
SRCPARAM L0002516     0.0000000285      0.00      1.70      0.85
```

```
   SRCPARAM L0002517     0.0000000285      0.00      1.70      0.85
   SRCPARAM L0002518     0.0000000285      0.00      1.70      0.85
   SRCPARAM L0002519     0.0000000285      0.00      1.70      0.85
   SRCPARAM L0002520     0.0000000285      0.00      1.70      0.85
   SRCPARAM L0002521     0.0000000285      0.00      1.70      0.85
   SRCPARAM L0002522     0.0000000285      0.00      1.70      0.85
   SRCPARAM L0002523     0.0000000285      0.00      1.70      0.85
   SRCPARAM L0002524     0.0000000285      0.00      1.70      0.85
   SRCPARAM L0002525     0.0000000285      0.00      1.70      0.85
   SRCPARAM L0002526     0.0000000285      0.00      1.70      0.85
   SRCPARAM L0002527     0.0000000285      0.00      1.70      0.85
   SRCPARAM L0002528     0.0000000285      0.00      1.70      0.85
   SRCPARAM L0002529     0.0000000285      0.00      1.70      0.85
   SRCPARAM L0002530     0.0000000285      0.00      1.70      0.85
   SRCPARAM L0002531     0.0000000285      0.00      1.70      0.85
   SRCPARAM L0002532     0.0000000285      0.00      1.70      0.85
   SRCPARAM L0002533     0.0000000285      0.00      1.70      0.85
   SRCPARAM L0002534     0.0000000285      0.00      1.70      0.85
   SRCPARAM L0002535     0.0000000285      0.00      1.70      0.85
   SRCPARAM L0002536     0.0000000285      0.00      1.70      0.85
   SRCPARAM L0002537     0.0000000285      0.00      1.70      0.85
   SRCPARAM L0002538     0.0000000285      0.00      1.70      0.85
   SRCPARAM L0002539     0.0000000285      0.00      1.70      0.85
   SRCPARAM L0002540     0.0000000285      0.00      1.70      0.85
   SRCPARAM L0002541     0.0000000285      0.00      1.70      0.85
   SRCPARAM L0002542     0.0000000285      0.00      1.70      0.85
   SRCPARAM L0002543     0.0000000285      0.00      1.70      0.85
   SRCPARAM L0002544     0.0000000285      0.00      1.70      0.85
   SRCPARAM L0002545     0.0000000285      0.00      1.70      0.85
   SRCPARAM L0002546     0.0000000285      0.00      1.70      0.85
   SRCPARAM L0002547     0.0000000285      0.00      1.70      0.85
   SRCPARAM L0002548     0.0000000285      0.00      1.70      0.85
   SRCPARAM L0002549     0.0000000285      0.00      1.70      0.85
   SRCPARAM L0002550     0.0000000285      0.00      1.70      0.85
   SRCPARAM L0002551     0.0000000285      0.00      1.70      0.85
   SRCPARAM L0002552     0.0000000285      0.00      1.70      0.85
   SRCPARAM L0002553     0.0000000285      0.00      1.70      0.85
   SRCPARAM L0002554     0.0000000285      0.00      1.70      0.85
   SRCPARAM L0002555     0.0000000285      0.00      1.70      0.85
   SRCPARAM L0002556     0.0000000285      0.00      1.70      0.85
   SRCPARAM L0002557     0.0000000285      0.00      1.70      0.85
   SRCPARAM L0002558     0.0000000285      0.00      1.70      0.85
   SRCPARAM L0002559     0.0000000285      0.00      1.70      0.85
   SRCPARAM L0002560     0.0000000285      0.00      1.70      0.85
** ------------------------------------------------------------------

** Building Downwash **
   BUILDHGT STCK1          10.97    10.97    10.97    10.97    10.97    10.97
   BUILDHGT STCK1          10.97    10.97    10.97    10.97    10.97    10.97
   BUILDHGT STCK1          10.97    10.97    10.97    10.97    10.97    10.97
   BUILDHGT STCK1          10.97    10.97    10.97    10.97    10.97    10.97
```

| | | | | | | |
|---|---|---|---|---|---|---|
| BUILDHGT STCK1 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 |
| BUILDHGT STCK1 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 |
| BUILDHGT STCK2 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 |
| BUILDHGT STCK2 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 |
| BUILDHGT STCK2 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 |
| BUILDHGT STCK2 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 |
| BUILDHGT STCK2 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 |
| BUILDHGT STCK2 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 |
| BUILDHGT STCK3 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 |
| BUILDHGT STCK3 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 |
| BUILDHGT STCK3 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 |
| BUILDHGT STCK3 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 |
| BUILDHGT STCK3 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 |
| BUILDHGT STCK3 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 |
| BUILDHGT STCK4 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 |
| BUILDHGT STCK4 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 |
| BUILDHGT STCK4 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 |
| BUILDHGT STCK4 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 |
| BUILDHGT STCK4 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 |
| BUILDHGT STCK4 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 |
| BUILDHGT STCK5 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 |
| BUILDHGT STCK5 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 |
| BUILDHGT STCK5 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 |
| BUILDHGT STCK5 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 |
| BUILDHGT STCK5 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 |
| BUILDHGT STCK5 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 |
| BUILDHGT STCK6 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 |
| BUILDHGT STCK6 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 |
| BUILDHGT STCK6 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 |
| BUILDHGT STCK6 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 |
| BUILDHGT STCK6 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 |
| BUILDHGT STCK6 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 |
| BUILDWID STCK1 | 264.00 | 270.42 | 268.61 | 258.65 | 240.82 | 215.68 |
| BUILDWID STCK1 | 183.99 | 146.70 | 107.24 | 144.21 | 176.80 | 205.75 |
| BUILDWID STCK1 | 231.78 | 250.76 | 262.13 | 265.53 | 260.86 | 249.57 |
| BUILDWID STCK1 | 264.00 | 270.42 | 268.61 | 258.65 | 240.82 | 215.68 |
| BUILDWID STCK1 | 183.99 | 146.70 | 107.24 | 144.21 | 176.80 | 205.75 |
| BUILDWID STCK1 | 231.78 | 250.76 | 262.13 | 265.53 | 260.86 | 249.57 |
| BUILDWID STCK2 | 264.00 | 270.42 | 268.61 | 258.65 | 240.82 | 215.68 |
| BUILDWID STCK2 | 183.99 | 146.70 | 107.24 | 144.21 | 176.80 | 205.75 |
| BUILDWID STCK2 | 231.78 | 250.76 | 262.13 | 265.53 | 260.86 | 249.57 |
| BUILDWID STCK2 | 264.00 | 270.42 | 268.61 | 258.65 | 240.82 | 215.68 |
| BUILDWID STCK2 | 183.99 | 146.70 | 107.24 | 144.21 | 176.80 | 205.75 |
| BUILDWID STCK2 | 231.78 | 250.76 | 262.13 | 265.53 | 260.86 | 249.57 |

```
BUILDWID STCK3          264.00   270.42   268.61   258.65   240.82   215.68
BUILDWID STCK3          183.99   146.70   107.24   144.21   176.80   205.75
BUILDWID STCK3          231.78   250.76   262.13   265.53   260.86   249.57
BUILDWID STCK3          264.00   270.42   268.61   258.65   240.82   215.68
BUILDWID STCK3          183.99   146.70   107.24   144.21   176.80   205.75
BUILDWID STCK3          231.78   250.76   262.13   265.53   260.86   249.57

BUILDWID STCK4          264.00   270.42   268.61   258.65   240.82   215.68
BUILDWID STCK4          183.99   146.70   107.24   144.21   176.80   205.75
BUILDWID STCK4          231.78   250.76   262.13   265.53   260.86   249.57
BUILDWID STCK4          264.00   270.42   268.61   258.65   240.82   215.68
BUILDWID STCK4          183.99   146.70   107.24   144.21   176.80   205.75
BUILDWID STCK4          231.78   250.76   262.13   265.53   260.86   249.57

BUILDWID STCK5          264.00   270.42   268.61   258.65   240.82   215.68
BUILDWID STCK5          183.99   146.70   107.24   144.21   176.80   205.75
BUILDWID STCK5          231.78   250.76   262.13   265.53   260.86   249.57
BUILDWID STCK5          264.00   270.42   268.61   258.65   240.82   215.68
BUILDWID STCK5          183.99   146.70   107.24   144.21   176.80   205.75
BUILDWID STCK5          231.78   250.76   262.13   265.53   260.86   249.57

BUILDWID STCK6          264.00   270.42   268.61   258.65   240.82   215.68
BUILDWID STCK6          183.99   146.70   107.24   144.21   176.80   205.75
BUILDWID STCK6          231.78   250.76   262.13   265.53   260.86   249.57
BUILDWID STCK6          264.00   270.42   268.61   258.65   240.82   215.68
BUILDWID STCK6          183.99   146.70   107.24   144.21   176.80   205.75
BUILDWID STCK6          231.78   250.76   262.13   265.53   260.86   249.57

BUILDLEN STCK1          144.21   176.80   205.75   231.78   250.76   262.13
BUILDLEN STCK1          265.53   260.86   249.57   264.00   270.42   268.61
BUILDLEN STCK1          258.65   240.82   215.68   183.99   146.70   107.24
BUILDLEN STCK1          144.21   176.80   205.75   231.78   250.76   262.13
BUILDLEN STCK1          265.53   260.86   249.57   264.00   270.42   268.61
BUILDLEN STCK1          258.65   240.82   215.68   183.99   146.70   107.24

BUILDLEN STCK2          144.21   176.80   205.75   231.78   250.76   262.13
BUILDLEN STCK2          265.53   260.86   249.57   264.00   270.42   268.61
BUILDLEN STCK2          258.65   240.82   215.68   183.99   146.70   107.24
BUILDLEN STCK2          144.21   176.80   205.75   231.78   250.76   262.13
BUILDLEN STCK2          265.53   260.86   249.57   264.00   270.42   268.61
BUILDLEN STCK2          258.65   240.82   215.68   183.99   146.70   107.24

BUILDLEN STCK3          144.21   176.80   205.75   231.78   250.76   262.13
BUILDLEN STCK3          265.53   260.86   249.57   264.00   270.42   268.61
BUILDLEN STCK3          258.65   240.82   215.68   183.99   146.70   107.24
BUILDLEN STCK3          144.21   176.80   205.75   231.78   250.76   262.13
BUILDLEN STCK3          265.53   260.86   249.57   264.00   270.42   268.61
BUILDLEN STCK3          258.65   240.82   215.68   183.99   146.70   107.24

BUILDLEN STCK4          144.21   176.80   205.75   231.78   250.76   262.13
```

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| BUILDLEN | STCK4 | 265.53 | 260.86 | 249.57 | 264.00 | 270.42 | 268.61 |
| BUILDLEN | STCK4 | 258.65 | 240.82 | 215.68 | 183.99 | 146.70 | 107.24 |
| BUILDLEN | STCK4 | 144.21 | 176.80 | 205.75 | 231.78 | 250.76 | 262.13 |
| BUILDLEN | STCK4 | 265.53 | 260.86 | 249.57 | 264.00 | 270.42 | 268.61 |
| BUILDLEN | STCK4 | 258.65 | 240.82 | 215.68 | 183.99 | 146.70 | 107.24 |
| BUILDLEN | STCK5 | 144.21 | 176.80 | 205.75 | 231.78 | 250.76 | 262.13 |
| BUILDLEN | STCK5 | 265.53 | 260.86 | 249.57 | 264.00 | 270.42 | 268.61 |
| BUILDLEN | STCK5 | 258.65 | 240.82 | 215.68 | 183.99 | 146.70 | 107.24 |
| BUILDLEN | STCK5 | 144.21 | 176.80 | 205.75 | 231.78 | 250.76 | 262.13 |
| BUILDLEN | STCK5 | 265.53 | 260.86 | 249.57 | 264.00 | 270.42 | 268.61 |
| BUILDLEN | STCK5 | 258.65 | 240.82 | 215.68 | 183.99 | 146.70 | 107.24 |
| BUILDLEN | STCK6 | 144.21 | 176.80 | 205.75 | 231.78 | 250.76 | 262.13 |
| BUILDLEN | STCK6 | 265.53 | 260.86 | 249.57 | 264.00 | 270.42 | 268.61 |
| BUILDLEN | STCK6 | 258.65 | 240.82 | 215.68 | 183.99 | 146.70 | 107.24 |
| BUILDLEN | STCK6 | 144.21 | 176.80 | 205.75 | 231.78 | 250.76 | 262.13 |
| BUILDLEN | STCK6 | 265.53 | 260.86 | 249.57 | 264.00 | 270.42 | 268.61 |
| BUILDLEN | STCK6 | 258.65 | 240.82 | 215.68 | 183.99 | 146.70 | 107.24 |
| XBADJ | STCK1 | -115.36 | -116.76 | -114.61 | -108.97 | -100.03 | -88.04 |
| XBADJ | STCK1 | -73.38 | -56.50 | -38.21 | -36.96 | -34.58 | -31.16 |
| XBADJ | STCK1 | -26.78 | -21.60 | -15.75 | -9.43 | -2.82 | 3.22 |
| XBADJ | STCK1 | -28.85 | -60.04 | -91.14 | -122.80 | -150.73 | -174.08 |
| XBADJ | STCK1 | -192.15 | -204.37 | -211.36 | -227.05 | -235.84 | -237.46 |
| XBADJ | STCK1 | -231.87 | -219.23 | -199.93 | -174.56 | -143.88 | -110.46 |
| XBADJ | STCK2 | -121.68 | -128.23 | -130.88 | -129.56 | -124.30 | -115.26 |
| XBADJ | STCK2 | -102.72 | -87.06 | -69.08 | -67.19 | -63.26 | -57.41 |
| XBADJ | STCK2 | -49.81 | -40.70 | -30.35 | -19.08 | -7.23 | 4.19 |
| XBADJ | STCK2 | -22.53 | -48.57 | -74.87 | -102.22 | -126.46 | -146.87 |
| XBADJ | STCK2 | -162.80 | -173.80 | -180.49 | -196.81 | -207.16 | -211.21 |
| XBADJ | STCK2 | -208.84 | -200.13 | -185.33 | -164.91 | -139.47 | -111.43 |
| XBADJ | STCK3 | -126.63 | -137.65 | -144.49 | -146.94 | -144.93 | -138.51 |
| XBADJ | STCK3 | -127.88 | -113.37 | -95.73 | -93.38 | -88.19 | -80.32 |
| XBADJ | STCK3 | -70.01 | -57.57 | -43.39 | -27.88 | -11.53 | 4.52 |
| XBADJ | STCK3 | -17.58 | -39.14 | -61.26 | -84.84 | -105.84 | -123.62 |
| XBADJ | STCK3 | -137.65 | -147.50 | -153.84 | -170.63 | -182.23 | -188.29 |
| XBADJ | STCK3 | -188.64 | -183.25 | -172.30 | -156.10 | -135.17 | -111.76 |
| XBADJ | STCK4 | -131.99 | -148.21 | -159.93 | -166.78 | -168.57 | -165.24 |
| XBADJ | STCK4 | -156.89 | -143.77 | -126.60 | -123.78 | -117.20 | -107.05 |
| XBADJ | STCK4 | -93.66 | -77.42 | -58.82 | -38.44 | -16.89 | 4.52 |
| XBADJ | STCK4 | -12.22 | -28.59 | -45.82 | -64.99 | -82.19 | -96.89 |
| XBADJ | STCK4 | -108.64 | -117.09 | -122.97 | -140.23 | -153.22 | -161.56 |
| XBADJ | STCK4 | -164.99 | -163.41 | -156.86 | -145.55 | -129.81 | -111.76 |
| XBADJ | STCK5 | -136.96 | -157.99 | -174.23 | -185.17 | -190.48 | -190.01 |
| XBADJ | STCK5 | -183.76 | -171.93 | -155.20 | -151.94 | -144.07 | -131.82 |
| XBADJ | STCK5 | -115.57 | -95.80 | -73.12 | -48.22 | -21.86 | 4.52 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| XBADJ | STCK5 | -7.25 | -18.80 | -31.52 | -46.61 | -60.28 | -72.12 |
| XBADJ | STCK5 | -81.77 | -88.93 | -94.37 | -112.06 | -126.35 | -136.79 |
| XBADJ | STCK5 | -143.08 | -145.02 | -142.56 | -135.76 | -124.84 | -111.76 |
| XBADJ | STCK6 | -142.35 | -168.30 | -189.13 | -204.21 | -213.10 | -215.50 |
| XBADJ | STCK6 | -211.36 | -200.80 | -184.45 | -180.69 | -171.45 | -156.99 |
| XBADJ | STCK6 | -137.77 | -114.36 | -87.47 | -57.93 | -26.62 | 4.84 |
| XBADJ | STCK6 | -1.86 | -8.50 | -16.62 | -27.56 | -37.67 | -46.63 |
| XBADJ | STCK6 | -54.17 | -60.07 | -65.12 | -83.31 | -98.97 | -111.62 |
| XBADJ | STCK6 | -120.88 | -126.47 | -128.21 | -126.06 | -120.08 | -112.08 |
| YBADJ | STCK1 | -95.04 | -100.63 | -103.15 | -102.54 | -98.82 | -92.09 |
| YBADJ | STCK1 | -82.56 | -70.53 | -56.84 | -43.26 | -28.36 | -11.73 |
| YBADJ | STCK1 | 6.92 | 25.35 | 43.02 | 59.38 | 73.94 | 86.58 |
| YBADJ | STCK1 | 95.04 | 100.63 | 103.15 | 102.54 | 98.82 | 92.09 |
| YBADJ | STCK1 | 82.56 | 70.53 | 56.84 | 43.26 | 28.36 | 11.73 |
| YBADJ | STCK1 | -6.92 | -25.35 | -43.02 | -59.38 | -73.94 | -86.58 |
| YBADJ | STCK2 | -64.81 | -71.95 | -76.90 | -79.52 | -79.72 | -77.49 |
| YBADJ | STCK2 | -72.92 | -66.12 | -57.81 | -49.57 | -39.83 | -28.01 |
| YBADJ | STCK2 | -13.67 | 1.08 | 15.80 | 30.04 | 43.37 | 55.71 |
| YBADJ | STCK2 | 64.81 | 71.95 | 76.90 | 79.52 | 79.72 | 77.49 |
| YBADJ | STCK2 | 72.92 | 66.12 | 57.81 | 49.57 | 39.83 | 28.01 |
| YBADJ | STCK2 | 13.67 | -1.08 | -15.80 | -30.04 | -43.37 | -55.71 |
| YBADJ | STCK3 | -38.62 | -47.02 | -53.99 | -59.31 | -62.84 | -64.45 |
| YBADJ | STCK3 | -64.11 | -61.82 | -58.14 | -54.53 | -49.25 | -41.62 |
| YBADJ | STCK3 | -31.05 | -19.55 | -7.44 | 4.88 | 17.06 | 29.06 |
| YBADJ | STCK3 | 38.62 | 47.02 | 53.99 | 59.31 | 62.84 | 64.45 |
| YBADJ | STCK3 | 64.11 | 61.82 | 58.14 | 54.53 | 49.25 | 41.62 |
| YBADJ | STCK3 | 31.05 | 19.55 | 7.44 | -4.88 | -17.06 | -29.06 |
| YBADJ | STCK4 | -8.22 | -18.01 | -27.25 | -35.67 | -43.00 | -49.02 |
| YBADJ | STCK4 | -53.55 | -56.46 | -58.14 | -59.89 | -59.81 | -57.05 |
| YBADJ | STCK4 | -50.90 | -43.19 | -34.18 | -24.12 | -13.34 | -1.81 |
| YBADJ | STCK4 | 8.22 | 18.01 | 27.25 | 35.67 | 43.00 | 49.02 |
| YBADJ | STCK4 | 53.55 | 56.46 | 58.14 | 59.89 | 59.81 | 57.05 |
| YBADJ | STCK4 | 50.90 | 43.19 | 34.18 | 24.12 | 13.34 | 1.81 |
| YBADJ | STCK5 | 19.94 | 8.86 | -2.48 | -13.76 | -24.61 | -34.72 |
| YBADJ | STCK5 | -43.77 | -51.49 | -58.14 | -64.85 | -69.59 | -71.35 |
| YBADJ | STCK5 | -69.28 | -65.10 | -58.95 | -51.00 | -41.50 | -30.41 |
| YBADJ | STCK5 | -19.94 | -8.86 | 2.48 | 13.76 | 24.61 | 34.72 |
| YBADJ | STCK5 | 43.77 | 51.49 | 58.14 | 64.85 | 69.59 | 71.35 |
| YBADJ | STCK5 | 69.28 | 65.10 | 58.95 | 51.00 | 41.50 | 30.41 |
| YBADJ | STCK6 | 48.69 | 36.24 | 22.69 | 8.44 | -6.06 | -20.37 |
| YBADJ | STCK6 | -34.07 | -46.73 | -58.46 | -70.25 | -79.90 | -86.25 |
| YBADJ | STCK6 | -88.33 | -87.71 | -84.44 | -78.59 | -70.36 | -59.66 |
| YBADJ | STCK6 | -48.69 | -36.24 | -22.69 | -8.44 | 6.06 | 20.37 |
| YBADJ | STCK6 | 34.07 | 46.73 | 58.46 | 70.25 | 79.90 | 86.25 |

```
   YBADJ    STCK6           88.33    87.71    84.44    78.59    70.36    59.66

   URBANSRC ALL
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED "190th Street Warehouse 2025-39.rou"
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE "E:\New MET data\KHHR_V9_ADJU\KHHR_v9.SFC"
   PROFFILE "E:\New MET data\KHHR_V9_ADJU\KHHR_v9.PFL"
   SURFDATA 3167 2012
   UAIRDATA 3190 2012
   PROFBASE 19.0 METERS
ME FINISHED
**
**************************************
** AERMOD Output Pathway
**************************************
**
**
OU STARTING
** Auto-Generated Plotfiles
   PLOTFILE PERIOD ALL "190TH STREET WAREHOUSE 2025-39.AD\PE00GALL.PLT" 31
   SUMMFILE "190th Street Warehouse 2025-39.sum"
OU FINISHED


  *** Message Summary For AERMOD Model Setup ***

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

 A Total of            0 Fatal Error Message(s)
 A Total of            8 Warning Message(s)
 A Total of            0 Informational Message(s)


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

```
   ********   WARNING MESSAGES   ********
SO W320     872        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320     873        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320     874        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320     875        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320     876        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320     877        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
ME W186    1862       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used          0.50
ME W187    1862       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

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


*** AERMOD - VERSION  19191 ***   *** 190th St Warehouse 2025-2039                                  ***        05/15/20
*** AERMET - VERSION  16216 ***   *** DPM concentrations first 14YR Exposure                        ***        07:52:35
                                                                                                              PAGE   1
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                          ***     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   744 Source(s),
  for Total of    1 Urban Area(s):
  Urban Population =   9818605.0 ;  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.
       6. Urban Roughness Length of 1.0 Meter Assumed.

**Other Options Specified:
       ADJ_U*   - Use ADJ_U* option for SBL in AERMET
       CCVR_Sub - Meteorological data includes CCVR substitutions
       TEMP_Sub - Meteorological data includes TEMP substitutions

**Model Assumes No FLAGPOLE Receptor Heights.
```

```
**The User Specified a Pollutant Type of:  DPM

**Model Calculates PERIOD Averages Only

**This Run Includes:    744 Source(s);       1 Source Group(s); and     449 Receptor(s)

               with:      6 POINT(s), including
                          0 POINTCAP(s) and      0 POINTHOR(s)
                and:    738 VOLUME source(s)
                and:      0 AREA type source(s)
                and:      0 LINE source(s)
                and:      0 RLINE/RLINEXT source(s)
                and:      0 OPENPIT source(s)
                and:      0 BUOYANT LINE source(s) with      0 line(s)


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

**The AERMET Input Meteorological Data Version Date:  16216

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

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

**Misc. Inputs:  Base Elev. for Pot. Temp. Profile (m MSL) =    19.00 ;  Decay Coef. =    0.000     ;  Rot. Angle =     0.0
                 Emission Units = GRAMS/SEC                           ;  Emission Rate Unit Factor =   0.10000E+07
                 Output Units   = MICROGRAMS/M**3

**Approximate Storage Requirements of Model =      4.9 MB of RAM.

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

**Detailed Error/Message File:   190th Street Warehouse 2025-39.err
**File for Summary of Results:   190th Street Warehouse 2025-39.sum

*** AERMOD - VERSION  19191 ***   *** 190th St Warehouse 2025-2039                                        ***        05/15/20
*** AERMET - VERSION  16216 ***   *** DPM concentrations first 14YR Exposure                              ***        07:52:35
                                                                                                                    PAGE   2
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                          *** POINT SOURCE DATA ***

             NUMBER EMISSION RATE                  BASE     STACK   STACK    STACK     STACK    BLDG   URBAN  CAP/  EMIS RATE
```

| SOURCE ID | PART. CATS. | (GRAMS/SEC) | X (METERS) | Y (METERS) | ELEV. (METERS) | HEIGHT (METERS) | TEMP. (DEG.K) | EXIT VEL. (M/SEC) | DIAMETER (METERS) | EXISTS | SOURCE VARY BY | HOR | SCALAR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STCK1 | 0 | 0.13200E-04 | 377375.1 | 3747396.4 | 19.2 | 3.66 | 366.00 | 51.90 | 0.09 | YES | YES | NO | |
| STCK2 | 0 | 0.13200E-04 | 377406.0 | 3747397.4 | 19.4 | 3.66 | 366.00 | 51.90 | 0.09 | YES | YES | NO | |
| STCK3 | 0 | 0.13200E-04 | 377432.7 | 3747397.7 | 19.6 | 3.66 | 366.00 | 51.90 | 0.09 | YES | YES | NO | |
| STCK4 | 0 | 0.13200E-04 | 377463.5 | 3747397.7 | 19.8 | 3.66 | 366.00 | 51.90 | 0.09 | YES | YES | NO | |
| STCK5 | 0 | 0.13200E-04 | 377492.1 | 3747397.7 | 20.1 | 3.66 | 366.00 | 51.90 | 0.09 | YES | YES | NO | |
| STCK6 | 0 | 0.13200E-04 | 377521.4 | 3747398.1 | 20.6 | 3.66 | 366.00 | 51.90 | 0.09 | YES | YES | NO | |



*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| L0001748 | 0 | 0.33920E-07 | 377311.4 | 3747422.7 | 19.0 | 0.00 | 1.70 | 5.10 | YES | |
| L0001749 | 0 | 0.33920E-07 | 377315.0 | 3747422.7 | 19.0 | 0.00 | 1.70 | 5.10 | YES | |
| L0001750 | 0 | 0.33920E-07 | 377318.7 | 3747422.7 | 19.0 | 0.00 | 1.70 | 5.10 | YES | |
| L0001751 | 0 | 0.33920E-07 | 377322.3 | 3747422.7 | 19.0 | 0.00 | 1.70 | 5.10 | YES | |
| L0001752 | 0 | 0.33920E-07 | 377326.0 | 3747422.7 | 19.0 | 0.00 | 1.70 | 5.10 | YES | |
| L0001753 | 0 | 0.33920E-07 | 377329.7 | 3747422.8 | 19.1 | 0.00 | 1.70 | 5.10 | YES | |
| L0001754 | 0 | 0.33920E-07 | 377333.3 | 3747422.8 | 19.1 | 0.00 | 1.70 | 5.10 | YES | |
| L0001755 | 0 | 0.33920E-07 | 377337.0 | 3747422.8 | 19.1 | 0.00 | 1.70 | 5.10 | YES | |
| L0001756 | 0 | 0.33920E-07 | 377340.6 | 3747422.8 | 19.1 | 0.00 | 1.70 | 5.10 | YES | |
| L0001757 | 0 | 0.33920E-07 | 377344.3 | 3747422.8 | 19.1 | 0.00 | 1.70 | 5.10 | YES | |
| L0001758 | 0 | 0.33920E-07 | 377347.9 | 3747422.8 | 19.1 | 0.00 | 1.70 | 5.10 | YES | |
| L0001759 | 0 | 0.33920E-07 | 377351.6 | 3747422.9 | 19.2 | 0.00 | 1.70 | 5.10 | YES | |
| L0001760 | 0 | 0.33920E-07 | 377355.3 | 3747422.9 | 19.2 | 0.00 | 1.70 | 5.10 | YES | |
| L0001761 | 0 | 0.33920E-07 | 377358.9 | 3747422.9 | 19.2 | 0.00 | 1.70 | 5.10 | YES | |
| L0001762 | 0 | 0.33920E-07 | 377362.6 | 3747422.9 | 19.3 | 0.00 | 1.70 | 5.10 | YES | |
| L0001763 | 0 | 0.33920E-07 | 377366.2 | 3747422.9 | 19.3 | 0.00 | 1.70 | 5.10 | YES | |
| L0001764 | 0 | 0.33920E-07 | 377369.9 | 3747423.0 | 19.3 | 0.00 | 1.70 | 5.10 | YES | |
| L0001765 | 0 | 0.33920E-07 | 377373.5 | 3747423.0 | 19.4 | 0.00 | 1.70 | 5.10 | YES | |
| L0001766 | 0 | 0.33920E-07 | 377377.2 | 3747423.0 | 19.4 | 0.00 | 1.70 | 5.10 | YES | |
| L0001767 | 0 | 0.33920E-07 | 377380.9 | 3747423.0 | 19.4 | 0.00 | 1.70 | 5.10 | YES | |
| L0001768 | 0 | 0.33920E-07 | 377384.5 | 3747423.0 | 19.4 | 0.00 | 1.70 | 5.10 | YES | |
| L0001769 | 0 | 0.33920E-07 | 377388.2 | 3747423.0 | 19.4 | 0.00 | 1.70 | 5.10 | YES | |
| L0001770 | 0 | 0.33920E-07 | 377391.8 | 3747423.1 | 19.5 | 0.00 | 1.70 | 5.10 | YES | |
| L0001771 | 0 | 0.33920E-07 | 377395.5 | 3747423.1 | 19.5 | 0.00 | 1.70 | 5.10 | YES | |
| L0001772 | 0 | 0.33920E-07 | 377399.2 | 3747423.1 | 19.5 | 0.00 | 1.70 | 5.10 | YES | |
| L0001773 | 0 | 0.33920E-07 | 377402.8 | 3747423.1 | 19.6 | 0.00 | 1.70 | 5.10 | YES | |
| L0001774 | 0 | 0.33920E-07 | 377406.5 | 3747423.1 | 19.6 | 0.00 | 1.70 | 5.10 | YES | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| L0001775 | 0 | 0.33920E-07 | 377410.1 | 3747423.1 | 19.6 | 0.00 | 1.70 | 5.10 | YES |
| L0001776 | 0 | 0.33920E-07 | 377413.8 | 3747423.2 | 19.6 | 0.00 | 1.70 | 5.10 | YES |
| L0001777 | 0 | 0.33920E-07 | 377417.4 | 3747423.2 | 19.6 | 0.00 | 1.70 | 5.10 | YES |
| L0001778 | 0 | 0.33920E-07 | 377421.1 | 3747423.2 | 19.7 | 0.00 | 1.70 | 5.10 | YES |
| L0001779 | 0 | 0.33920E-07 | 377424.8 | 3747423.2 | 19.7 | 0.00 | 1.70 | 5.10 | YES |
| L0001780 | 0 | 0.33920E-07 | 377428.4 | 3747423.2 | 19.7 | 0.00 | 1.70 | 5.10 | YES |
| L0001781 | 0 | 0.33920E-07 | 377432.1 | 3747423.2 | 19.8 | 0.00 | 1.70 | 5.10 | YES |
| L0001782 | 0 | 0.33920E-07 | 377435.7 | 3747423.3 | 19.8 | 0.00 | 1.70 | 5.10 | YES |
| L0001783 | 0 | 0.33920E-07 | 377439.4 | 3747423.3 | 19.8 | 0.00 | 1.70 | 5.10 | YES |
| L0001784 | 0 | 0.33920E-07 | 377443.0 | 3747423.3 | 19.8 | 0.00 | 1.70 | 5.10 | YES |
| L0001785 | 0 | 0.33920E-07 | 377446.7 | 3747423.3 | 19.9 | 0.00 | 1.70 | 5.10 | YES |
| L0001786 | 0 | 0.33920E-07 | 377450.4 | 3747423.3 | 19.9 | 0.00 | 1.70 | 5.10 | YES |
| L0001787 | 0 | 0.33920E-07 | 377454.0 | 3747423.3 | 19.9 | 0.00 | 1.70 | 5.10 | YES |



*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| L0001788 | 0 | 0.33920E-07 | 377457.7 | 3747423.4 | 19.9 | 0.00 | 1.70 | 5.10 | YES | |
| L0001789 | 0 | 0.33920E-07 | 377461.3 | 3747423.4 | 19.9 | 0.00 | 1.70 | 5.10 | YES | |
| L0001790 | 0 | 0.33920E-07 | 377465.0 | 3747423.4 | 20.0 | 0.00 | 1.70 | 5.10 | YES | |
| L0001791 | 0 | 0.33920E-07 | 377468.6 | 3747423.4 | 20.0 | 0.00 | 1.70 | 5.10 | YES | |
| L0001792 | 0 | 0.33920E-07 | 377472.3 | 3747423.4 | 20.0 | 0.00 | 1.70 | 5.10 | YES | |
| L0001793 | 0 | 0.33920E-07 | 377476.0 | 3747423.4 | 20.0 | 0.00 | 1.70 | 5.10 | YES | |
| L0001794 | 0 | 0.33920E-07 | 377479.6 | 3747423.5 | 20.1 | 0.00 | 1.70 | 5.10 | YES | |
| L0001795 | 0 | 0.33920E-07 | 377483.3 | 3747423.5 | 20.1 | 0.00 | 1.70 | 5.10 | YES | |
| L0001796 | 0 | 0.33920E-07 | 377486.9 | 3747423.5 | 20.1 | 0.00 | 1.70 | 5.10 | YES | |
| L0001797 | 0 | 0.33920E-07 | 377490.6 | 3747423.5 | 20.1 | 0.00 | 1.70 | 5.10 | YES | |
| L0001798 | 0 | 0.33920E-07 | 377494.2 | 3747423.5 | 20.2 | 0.00 | 1.70 | 5.10 | YES | |
| L0001799 | 0 | 0.33920E-07 | 377497.9 | 3747423.6 | 20.2 | 0.00 | 1.70 | 5.10 | YES | |
| L0001800 | 0 | 0.33920E-07 | 377501.6 | 3747423.6 | 20.2 | 0.00 | 1.70 | 5.10 | YES | |
| L0001801 | 0 | 0.33920E-07 | 377505.2 | 3747423.6 | 20.2 | 0.00 | 1.70 | 5.10 | YES | |
| L0001802 | 0 | 0.33920E-07 | 377508.9 | 3747423.6 | 20.2 | 0.00 | 1.70 | 5.10 | YES | |
| L0001803 | 0 | 0.33920E-07 | 377512.5 | 3747423.6 | 20.2 | 0.00 | 1.70 | 5.10 | YES | |
| L0001804 | 0 | 0.33920E-07 | 377516.2 | 3747423.6 | 20.2 | 0.00 | 1.70 | 5.10 | YES | |
| L0001805 | 0 | 0.33920E-07 | 377519.9 | 3747423.7 | 20.2 | 0.00 | 1.70 | 5.10 | YES | |
| L0001806 | 0 | 0.33920E-07 | 377523.5 | 3747423.7 | 20.2 | 0.00 | 1.70 | 5.10 | YES | |
| L0001807 | 0 | 0.33920E-07 | 377527.2 | 3747423.7 | 20.3 | 0.00 | 1.70 | 5.10 | YES | |
| L0001808 | 0 | 0.33920E-07 | 377530.8 | 3747423.7 | 20.3 | 0.00 | 1.70 | 5.10 | YES | |
| L0001809 | 0 | 0.33920E-07 | 377534.5 | 3747423.7 | 20.4 | 0.00 | 1.70 | 5.10 | YES | |
| L0001810 | 0 | 0.33920E-07 | 377538.1 | 3747423.7 | 20.4 | 0.00 | 1.70 | 5.10 | YES | |
| L0001811 | 0 | 0.33920E-07 | 377541.8 | 3747423.8 | 20.5 | 0.00 | 1.70 | 5.10 | YES | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| L0001812 | 0 | 0.33920E-07 | 377545.5 | 3747423.8 | 20.5 | 0.00 | 1.70 | 5.10 | YES |
| L0001813 | 0 | 0.33920E-07 | 377549.1 | 3747423.8 | 20.6 | 0.00 | 1.70 | 5.10 | YES |
| L0001814 | 0 | 0.33920E-07 | 377552.8 | 3747423.8 | 20.6 | 0.00 | 1.70 | 5.10 | YES |
| L0001815 | 0 | 0.33920E-07 | 377556.4 | 3747423.8 | 20.6 | 0.00 | 1.70 | 5.10 | YES |
| L0001816 | 0 | 0.33920E-07 | 377560.1 | 3747423.8 | 20.6 | 0.00 | 1.70 | 5.10 | YES |
| L0001817 | 0 | 0.33920E-07 | 377563.7 | 3747423.9 | 20.5 | 0.00 | 1.70 | 5.10 | YES |
| L0001818 | 0 | 0.33920E-07 | 377567.4 | 3747423.9 | 20.5 | 0.00 | 1.70 | 5.10 | YES |
| L0001819 | 0 | 0.33920E-07 | 377571.1 | 3747423.9 | 20.5 | 0.00 | 1.70 | 5.10 | YES |
| L0001820 | 0 | 0.33920E-07 | 377574.7 | 3747423.9 | 20.5 | 0.00 | 1.70 | 5.10 | YES |
| L0001821 | 0 | 0.33920E-07 | 377578.4 | 3747423.9 | 20.5 | 0.00 | 1.70 | 5.10 | YES |
| L0001822 | 0 | 0.33920E-07 | 377582.0 | 3747423.9 | 20.4 | 0.00 | 1.70 | 5.10 | YES |
| L0001823 | 0 | 0.33920E-07 | 377585.7 | 3747424.0 | 20.4 | 0.00 | 1.70 | 5.10 | YES |
| L0001824 | 0 | 0.33920E-07 | 377589.3 | 3747424.0 | 20.3 | 0.00 | 1.70 | 5.10 | YES |
| L0001825 | 0 | 0.33920E-07 | 377593.0 | 3747424.0 | 20.3 | 0.00 | 1.70 | 5.10 | YES |
| L0001826 | 0 | 0.33920E-07 | 377596.7 | 3747424.0 | 20.2 | 0.00 | 1.70 | 5.10 | YES |
| L0001827 | 0 | 0.34040E-07 | 377606.9 | 3747421.7 | 20.1 | 0.00 | 1.70 | 5.10 | YES |



*** MODELOPTs:  RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

*** 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| L0001828 | 0 | 0.34040E-07 | 377606.9 | 3747418.1 | 20.2 | 0.00 | 1.70 | 5.10 | YES | |
| L0001829 | 0 | 0.34040E-07 | 377606.9 | 3747414.4 | 20.2 | 0.00 | 1.70 | 5.10 | YES | |
| L0001830 | 0 | 0.34040E-07 | 377606.9 | 3747410.8 | 20.3 | 0.00 | 1.70 | 5.10 | YES | |
| L0001831 | 0 | 0.34040E-07 | 377606.9 | 3747407.1 | 20.3 | 0.00 | 1.70 | 5.10 | YES | |
| L0001832 | 0 | 0.34040E-07 | 377606.9 | 3747403.5 | 20.3 | 0.00 | 1.70 | 5.10 | YES | |
| L0001833 | 0 | 0.34040E-07 | 377606.9 | 3747399.8 | 20.3 | 0.00 | 1.70 | 5.10 | YES | |
| L0001834 | 0 | 0.34040E-07 | 377606.9 | 3747396.1 | 20.3 | 0.00 | 1.70 | 5.10 | YES | |
| L0001835 | 0 | 0.34040E-07 | 377607.0 | 3747392.5 | 20.3 | 0.00 | 1.70 | 5.10 | YES | |
| L0001836 | 0 | 0.34040E-07 | 377607.0 | 3747388.8 | 20.3 | 0.00 | 1.70 | 5.10 | YES | |
| L0001837 | 0 | 0.34040E-07 | 377607.0 | 3747385.2 | 20.3 | 0.00 | 1.70 | 5.10 | YES | |
| L0001838 | 0 | 0.34040E-07 | 377607.0 | 3747381.5 | 20.3 | 0.00 | 1.70 | 5.10 | YES | |
| L0001839 | 0 | 0.34040E-07 | 377607.0 | 3747377.8 | 20.3 | 0.00 | 1.70 | 5.10 | YES | |
| L0001840 | 0 | 0.34040E-07 | 377607.0 | 3747374.2 | 20.3 | 0.00 | 1.70 | 5.10 | YES | |
| L0001841 | 0 | 0.34040E-07 | 377607.0 | 3747370.5 | 20.3 | 0.00 | 1.70 | 5.10 | YES | |
| L0001842 | 0 | 0.34040E-07 | 377607.0 | 3747366.9 | 20.2 | 0.00 | 1.70 | 5.10 | YES | |
| L0001843 | 0 | 0.34040E-07 | 377607.0 | 3747363.2 | 20.1 | 0.00 | 1.70 | 5.10 | YES | |
| L0001844 | 0 | 0.34040E-07 | 377607.0 | 3747359.6 | 20.1 | 0.00 | 1.70 | 5.10 | YES | |
| L0001845 | 0 | 0.34040E-07 | 377607.1 | 3747355.9 | 20.0 | 0.00 | 1.70 | 5.10 | YES | |
| L0001846 | 0 | 0.34040E-07 | 377607.1 | 3747352.2 | 20.0 | 0.00 | 1.70 | 5.10 | YES | |
| L0001847 | 0 | 0.34040E-07 | 377607.1 | 3747348.6 | 19.9 | 0.00 | 1.70 | 5.10 | YES | |
| L0001848 | 0 | 0.34040E-07 | 377607.1 | 3747344.9 | 19.9 | 0.00 | 1.70 | 5.10 | YES | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| L0001849 | 0 | 0.34040E-07 | 377607.1 | 3747341.3 | 19.8 | 0.00 | 1.70 | 5.10 | YES |
| L0001850 | 0 | 0.34040E-07 | 377607.1 | 3747337.6 | 19.8 | 0.00 | 1.70 | 5.10 | YES |
| L0001851 | 0 | 0.34040E-07 | 377607.1 | 3747334.0 | 19.8 | 0.00 | 1.70 | 5.10 | YES |
| L0001852 | 0 | 0.34040E-07 | 377607.1 | 3747330.3 | 19.7 | 0.00 | 1.70 | 5.10 | YES |
| L0001853 | 0 | 0.34040E-07 | 377607.1 | 3747326.6 | 19.7 | 0.00 | 1.70 | 5.10 | YES |
| L0001854 | 0 | 0.34040E-07 | 377607.1 | 3747323.0 | 19.7 | 0.00 | 1.70 | 5.10 | YES |
| L0001855 | 0 | 0.34040E-07 | 377607.1 | 3747319.3 | 19.6 | 0.00 | 1.70 | 5.10 | YES |
| L0001856 | 0 | 0.34040E-07 | 377607.2 | 3747315.7 | 19.6 | 0.00 | 1.70 | 5.10 | YES |
| L0001857 | 0 | 0.34040E-07 | 377607.2 | 3747312.0 | 19.6 | 0.00 | 1.70 | 5.10 | YES |
| L0001858 | 0 | 0.34040E-07 | 377607.2 | 3747308.4 | 19.6 | 0.00 | 1.70 | 5.10 | YES |
| L0001859 | 0 | 0.34040E-07 | 377607.2 | 3747304.7 | 19.6 | 0.00 | 1.70 | 5.10 | YES |
| L0001860 | 0 | 0.34040E-07 | 377607.2 | 3747301.0 | 19.7 | 0.00 | 1.70 | 5.10 | YES |
| L0001861 | 0 | 0.34040E-07 | 377607.2 | 3747297.4 | 19.7 | 0.00 | 1.70 | 5.10 | YES |
| L0001862 | 0 | 0.34040E-07 | 377607.2 | 3747293.7 | 19.7 | 0.00 | 1.70 | 5.10 | YES |
| L0001863 | 0 | 0.34040E-07 | 377607.2 | 3747290.1 | 19.7 | 0.00 | 1.70 | 5.10 | YES |
| L0001864 | 0 | 0.34040E-07 | 377607.2 | 3747286.4 | 19.7 | 0.00 | 1.70 | 5.10 | YES |
| L0001865 | 0 | 0.34040E-07 | 377607.2 | 3747282.8 | 19.8 | 0.00 | 1.70 | 5.10 | YES |
| L0001866 | 0 | 0.34040E-07 | 377607.3 | 3747279.1 | 19.7 | 0.00 | 1.70 | 5.10 | YES |
| L0001867 | 0 | 0.34040E-07 | 377607.3 | 3747275.4 | 19.6 | 0.00 | 1.70 | 5.10 | YES |



*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

*** 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| L0001868 | 0 | 0.34040E-07 | 377607.3 | 3747271.8 | 19.6 | 0.00 | 1.70 | 5.10 | YES | |
| L0001869 | 0 | 0.34040E-07 | 377607.3 | 3747268.1 | 19.5 | 0.00 | 1.70 | 5.10 | YES | |
| L0001870 | 0 | 0.34040E-07 | 377607.3 | 3747264.5 | 19.4 | 0.00 | 1.70 | 5.10 | YES | |
| L0001871 | 0 | 0.34040E-07 | 377607.3 | 3747260.8 | 19.4 | 0.00 | 1.70 | 5.10 | YES | |
| L0001872 | 0 | 0.34040E-07 | 377607.3 | 3747257.1 | 19.3 | 0.00 | 1.70 | 5.10 | YES | |
| L0001873 | 0 | 0.34040E-07 | 377607.3 | 3747253.5 | 19.2 | 0.00 | 1.70 | 5.10 | YES | |
| L0001874 | 0 | 0.39310E-07 | 377299.8 | 3747423.8 | 18.9 | 0.00 | 1.70 | 0.85 | YES | |
| L0001875 | 0 | 0.39310E-07 | 377299.8 | 3747427.5 | 18.9 | 0.00 | 1.70 | 0.85 | YES | |
| L0001876 | 0 | 0.39310E-07 | 377299.8 | 3747431.1 | 19.0 | 0.00 | 1.70 | 0.85 | YES | |
| L0001877 | 0 | 0.39310E-07 | 377299.8 | 3747434.8 | 19.0 | 0.00 | 1.70 | 0.85 | YES | |
| L0001878 | 0 | 0.39310E-07 | 377299.8 | 3747438.5 | 19.1 | 0.00 | 1.70 | 0.85 | YES | |
| L0001879 | 0 | 0.39310E-07 | 377299.7 | 3747442.1 | 19.1 | 0.00 | 1.70 | 0.85 | YES | |
| L0001880 | 0 | 0.39310E-07 | 377299.7 | 3747445.8 | 19.1 | 0.00 | 1.70 | 0.85 | YES | |
| L0001881 | 0 | 0.39310E-07 | 377299.7 | 3747449.4 | 19.1 | 0.00 | 1.70 | 0.85 | YES | |
| L0001882 | 0 | 0.39310E-07 | 377299.7 | 3747453.1 | 19.0 | 0.00 | 1.70 | 0.85 | YES | |
| L0001883 | 0 | 0.39310E-07 | 377299.7 | 3747456.7 | 19.0 | 0.00 | 1.70 | 0.85 | YES | |
| L0001884 | 0 | 0.39310E-07 | 377299.7 | 3747460.4 | 19.0 | 0.00 | 1.70 | 0.85 | YES | |
| L0001885 | 0 | 0.39310E-07 | 377299.6 | 3747464.1 | 19.0 | 0.00 | 1.70 | 0.85 | YES | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| L0001886 | 0 | 0.39310E-07 | 377299.6 | 3747467.7 | 19.0 | 0.00 | 1.70 | 0.85 | YES |
| L0001887 | 0 | 0.39310E-07 | 377299.6 | 3747471.4 | 19.0 | 0.00 | 1.70 | 0.85 | YES |
| L0001888 | 0 | 0.39310E-07 | 377299.6 | 3747475.0 | 19.0 | 0.00 | 1.70 | 0.85 | YES |
| L0001889 | 0 | 0.39310E-07 | 377299.6 | 3747478.7 | 19.0 | 0.00 | 1.70 | 0.85 | YES |
| L0001890 | 0 | 0.39310E-07 | 377299.5 | 3747482.3 | 19.1 | 0.00 | 1.70 | 0.85 | YES |
| L0001891 | 0 | 0.39310E-07 | 377299.5 | 3747486.0 | 19.1 | 0.00 | 1.70 | 0.85 | YES |
| L0001892 | 0 | 0.39310E-07 | 377299.5 | 3747489.7 | 19.1 | 0.00 | 1.70 | 0.85 | YES |
| L0001893 | 0 | 0.39310E-07 | 377299.5 | 3747493.3 | 19.2 | 0.00 | 1.70 | 0.85 | YES |
| L0001894 | 0 | 0.39310E-07 | 377299.5 | 3747497.0 | 19.2 | 0.00 | 1.70 | 0.85 | YES |
| L0001895 | 0 | 0.39310E-07 | 377299.4 | 3747500.6 | 19.2 | 0.00 | 1.70 | 0.85 | YES |
| L0001896 | 0 | 0.39310E-07 | 377299.4 | 3747504.3 | 19.2 | 0.00 | 1.70 | 0.85 | YES |
| L0001897 | 0 | 0.39310E-07 | 377299.4 | 3747508.0 | 19.2 | 0.00 | 1.70 | 0.85 | YES |
| L0001898 | 0 | 0.39310E-07 | 377299.4 | 3747511.6 | 19.2 | 0.00 | 1.70 | 0.85 | YES |
| L0001899 | 0 | 0.39310E-07 | 377299.4 | 3747515.3 | 19.2 | 0.00 | 1.70 | 0.85 | YES |
| L0001900 | 0 | 0.39310E-07 | 377299.4 | 3747518.9 | 19.2 | 0.00 | 1.70 | 0.85 | YES |
| L0001901 | 0 | 0.39310E-07 | 377299.3 | 3747522.6 | 19.2 | 0.00 | 1.70 | 0.85 | YES |
| L0001902 | 0 | 0.39310E-07 | 377299.3 | 3747526.2 | 19.2 | 0.00 | 1.70 | 0.85 | YES |
| L0001903 | 0 | 0.39310E-07 | 377299.3 | 3747529.9 | 19.2 | 0.00 | 1.70 | 0.85 | YES |
| L0001904 | 0 | 0.39310E-07 | 377299.3 | 3747533.6 | 19.2 | 0.00 | 1.70 | 0.85 | YES |
| L0001905 | 0 | 0.39310E-07 | 377299.3 | 3747537.2 | 19.2 | 0.00 | 1.70 | 0.85 | YES |
| L0001906 | 0 | 0.39310E-07 | 377299.2 | 3747540.9 | 19.2 | 0.00 | 1.70 | 0.85 | YES |
| L0001907 | 0 | 0.39310E-07 | 377299.2 | 3747544.5 | 19.2 | 0.00 | 1.70 | 0.85 | YES |



*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| L0001908 | 0 | 0.39310E-07 | 377299.2 | 3747548.2 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0001909 | 0 | 0.39310E-07 | 377299.2 | 3747551.8 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0001910 | 0 | 0.39310E-07 | 377299.2 | 3747555.5 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0001911 | 0 | 0.39310E-07 | 377299.2 | 3747559.2 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0001912 | 0 | 0.39310E-07 | 377299.1 | 3747562.8 | 19.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0001913 | 0 | 0.39310E-07 | 377299.1 | 3747566.5 | 19.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0001914 | 0 | 0.39310E-07 | 377299.1 | 3747570.1 | 19.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0001915 | 0 | 0.39310E-07 | 377299.1 | 3747573.8 | 19.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0001916 | 0 | 0.39310E-07 | 377299.1 | 3747577.4 | 19.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0001917 | 0 | 0.39310E-07 | 377299.0 | 3747581.1 | 19.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0001918 | 0 | 0.39310E-07 | 377299.0 | 3747584.8 | 19.5 | 0.00 | 1.70 | 0.85 | YES | |
| L0001919 | 0 | 0.39310E-07 | 377299.0 | 3747588.4 | 19.5 | 0.00 | 1.70 | 0.85 | YES | |
| L0001920 | 0 | 0.39310E-07 | 377299.0 | 3747592.1 | 19.6 | 0.00 | 1.70 | 0.85 | YES | |
| L0001921 | 0 | 0.39310E-07 | 377299.0 | 3747595.7 | 19.6 | 0.00 | 1.70 | 0.85 | YES | |
| L0001922 | 0 | 0.39310E-07 | 377299.0 | 3747599.4 | 19.6 | 0.00 | 1.70 | 0.85 | YES | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| L0001923 | 0 | 0.39310E-07 | 377298.9 | 3747603.0 | 19.7 | 0.00 | 1.70 | 0.85 | YES |
| L0001924 | 0 | 0.39310E-07 | 377298.9 | 3747606.7 | 19.7 | 0.00 | 1.70 | 0.85 | YES |
| L0001925 | 0 | 0.39310E-07 | 377298.9 | 3747610.4 | 19.7 | 0.00 | 1.70 | 0.85 | YES |
| L0001926 | 0 | 0.39310E-07 | 377298.9 | 3747614.0 | 19.8 | 0.00 | 1.70 | 0.85 | YES |
| L0001927 | 0 | 0.39310E-07 | 377298.9 | 3747617.7 | 19.8 | 0.00 | 1.70 | 0.85 | YES |
| L0001928 | 0 | 0.39310E-07 | 377298.8 | 3747621.3 | 19.8 | 0.00 | 1.70 | 0.85 | YES |
| L0001929 | 0 | 0.39310E-07 | 377298.8 | 3747625.0 | 19.9 | 0.00 | 1.70 | 0.85 | YES |
| L0001930 | 0 | 0.39310E-07 | 377298.8 | 3747628.7 | 19.9 | 0.00 | 1.70 | 0.85 | YES |
| L0001931 | 0 | 0.39310E-07 | 377298.8 | 3747632.3 | 19.9 | 0.00 | 1.70 | 0.85 | YES |
| L0001932 | 0 | 0.39310E-07 | 377298.8 | 3747636.0 | 19.9 | 0.00 | 1.70 | 0.85 | YES |
| L0001933 | 0 | 0.39310E-07 | 377298.7 | 3747639.6 | 19.9 | 0.00 | 1.70 | 0.85 | YES |
| L0001934 | 0 | 0.39310E-07 | 377298.7 | 3747643.3 | 20.0 | 0.00 | 1.70 | 0.85 | YES |
| L0001935 | 0 | 0.39310E-07 | 377298.7 | 3747646.9 | 20.0 | 0.00 | 1.70 | 0.85 | YES |
| L0001936 | 0 | 0.39310E-07 | 377298.7 | 3747650.6 | 20.0 | 0.00 | 1.70 | 0.85 | YES |
| L0001937 | 0 | 0.39310E-07 | 377298.7 | 3747654.3 | 20.1 | 0.00 | 1.70 | 0.85 | YES |
| L0001938 | 0 | 0.39310E-07 | 377298.7 | 3747657.9 | 20.1 | 0.00 | 1.70 | 0.85 | YES |
| L0001939 | 0 | 0.39310E-07 | 377298.6 | 3747661.6 | 20.1 | 0.00 | 1.70 | 0.85 | YES |
| L0001940 | 0 | 0.39310E-07 | 377298.6 | 3747665.2 | 20.1 | 0.00 | 1.70 | 0.85 | YES |
| L0001941 | 0 | 0.39310E-07 | 377298.6 | 3747668.9 | 20.2 | 0.00 | 1.70 | 0.85 | YES |
| L0001942 | 0 | 0.39310E-07 | 377298.6 | 3747672.5 | 20.2 | 0.00 | 1.70 | 0.85 | YES |
| L0001943 | 0 | 0.39310E-07 | 377298.6 | 3747676.2 | 20.2 | 0.00 | 1.70 | 0.85 | YES |
| L0001944 | 0 | 0.39310E-07 | 377298.5 | 3747679.9 | 20.2 | 0.00 | 1.70 | 0.85 | YES |
| L0001945 | 0 | 0.39310E-07 | 377298.5 | 3747683.5 | 20.3 | 0.00 | 1.70 | 0.85 | YES |
| L0001946 | 0 | 0.39310E-07 | 377298.5 | 3747687.2 | 20.3 | 0.00 | 1.70 | 0.85 | YES |
| L0001947 | 0 | 0.39310E-07 | 377298.5 | 3747690.8 | 20.3 | 0.00 | 1.70 | 0.85 | YES |



*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

*** 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| L0001948 | 0 | 0.39310E-07 | 377298.5 | 3747694.5 | 20.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0001949 | 0 | 0.39310E-07 | 377298.5 | 3747698.1 | 20.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0001950 | 0 | 0.39310E-07 | 377298.4 | 3747701.8 | 20.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0001951 | 0 | 0.39310E-07 | 377298.4 | 3747705.5 | 20.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0001952 | 0 | 0.39310E-07 | 377298.4 | 3747709.1 | 20.5 | 0.00 | 1.70 | 0.85 | YES | |
| L0001953 | 0 | 0.39310E-07 | 377298.4 | 3747712.8 | 20.5 | 0.00 | 1.70 | 0.85 | YES | |
| L0001954 | 0 | 0.39310E-07 | 377298.4 | 3747716.4 | 20.5 | 0.00 | 1.70 | 0.85 | YES | |
| L0001955 | 0 | 0.39310E-07 | 377298.3 | 3747720.1 | 20.6 | 0.00 | 1.70 | 0.85 | YES | |
| L0001956 | 0 | 0.39310E-07 | 377298.3 | 3747723.7 | 20.6 | 0.00 | 1.70 | 0.85 | YES | |
| L0001957 | 0 | 0.39310E-07 | 377298.3 | 3747727.4 | 20.6 | 0.00 | 1.70 | 0.85 | YES | |
| L0001958 | 0 | 0.39310E-07 | 377298.3 | 3747731.1 | 20.6 | 0.00 | 1.70 | 0.85 | YES | |
| L0001959 | 0 | 0.39310E-07 | 377298.3 | 3747734.7 | 20.6 | 0.00 | 1.70 | 0.85 | YES | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| L0001960 | 0 | 0.39310E-07 | 377298.3 | 3747738.4 | 20.6 | 0.00 | 1.70 | 0.85 | YES |
| L0001961 | 0 | 0.39310E-07 | 377298.2 | 3747742.0 | 20.7 | 0.00 | 1.70 | 0.85 | YES |
| L0001962 | 0 | 0.39310E-07 | 377298.2 | 3747745.7 | 20.7 | 0.00 | 1.70 | 0.85 | YES |
| L0001963 | 0 | 0.39310E-07 | 377298.2 | 3747749.4 | 20.7 | 0.00 | 1.70 | 0.85 | YES |
| L0001964 | 0 | 0.39310E-07 | 377298.2 | 3747753.0 | 20.7 | 0.00 | 1.70 | 0.85 | YES |
| L0001965 | 0 | 0.39310E-07 | 377298.2 | 3747756.7 | 20.7 | 0.00 | 1.70 | 0.85 | YES |
| L0001966 | 0 | 0.39310E-07 | 377298.1 | 3747760.3 | 20.7 | 0.00 | 1.70 | 0.85 | YES |
| L0001967 | 0 | 0.39310E-07 | 377298.1 | 3747764.0 | 20.7 | 0.00 | 1.70 | 0.85 | YES |
| L0001968 | 0 | 0.39310E-07 | 377298.1 | 3747767.6 | 20.7 | 0.00 | 1.70 | 0.85 | YES |
| L0001969 | 0 | 0.39310E-07 | 377298.1 | 3747771.3 | 20.7 | 0.00 | 1.70 | 0.85 | YES |
| L0001970 | 0 | 0.39310E-07 | 377298.1 | 3747775.0 | 20.7 | 0.00 | 1.70 | 0.85 | YES |
| L0001971 | 0 | 0.39310E-07 | 377298.0 | 3747778.6 | 20.7 | 0.00 | 1.70 | 0.85 | YES |
| L0001972 | 0 | 0.39310E-07 | 377298.0 | 3747782.3 | 20.7 | 0.00 | 1.70 | 0.85 | YES |
| L0001973 | 0 | 0.39310E-07 | 377298.0 | 3747785.9 | 20.7 | 0.00 | 1.70 | 0.85 | YES |
| L0001974 | 0 | 0.39310E-07 | 377298.0 | 3747789.6 | 20.7 | 0.00 | 1.70 | 0.85 | YES |
| L0001975 | 0 | 0.39310E-07 | 377298.0 | 3747793.2 | 20.6 | 0.00 | 1.70 | 0.85 | YES |
| L0001976 | 0 | 0.39310E-07 | 377298.0 | 3747796.9 | 20.6 | 0.00 | 1.70 | 0.85 | YES |
| L0001977 | 0 | 0.39310E-07 | 377297.9 | 3747800.6 | 20.6 | 0.00 | 1.70 | 0.85 | YES |
| L0001978 | 0 | 0.39310E-07 | 377297.9 | 3747804.2 | 20.6 | 0.00 | 1.70 | 0.85 | YES |
| L0001979 | 0 | 0.39310E-07 | 377297.9 | 3747807.9 | 20.6 | 0.00 | 1.70 | 0.85 | YES |
| L0001980 | 0 | 0.39310E-07 | 377297.9 | 3747811.5 | 20.6 | 0.00 | 1.70 | 0.85 | YES |
| L0001981 | 0 | 0.39310E-07 | 377297.9 | 3747815.2 | 20.5 | 0.00 | 1.70 | 0.85 | YES |
| L0001982 | 0 | 0.39310E-07 | 377297.8 | 3747818.8 | 20.5 | 0.00 | 1.70 | 0.85 | YES |
| L0001983 | 0 | 0.39310E-07 | 377297.8 | 3747822.5 | 20.5 | 0.00 | 1.70 | 0.85 | YES |
| L0001984 | 0 | 0.39310E-07 | 377297.8 | 3747826.2 | 20.5 | 0.00 | 1.70 | 0.85 | YES |
| L0001985 | 0 | 0.39310E-07 | 377297.8 | 3747829.8 | 20.5 | 0.00 | 1.70 | 0.85 | YES |
| L0001986 | 0 | 0.39310E-07 | 377297.8 | 3747833.5 | 20.4 | 0.00 | 1.70 | 0.85 | YES |
| L0001987 | 0 | 0.39310E-07 | 377297.8 | 3747837.1 | 20.4 | 0.00 | 1.70 | 0.85 | YES |



*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

*** 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| L0001988 | 0 | 0.39310E-07 | 377297.7 | 3747840.8 | 20.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0001989 | 0 | 0.39310E-07 | 377297.7 | 3747844.4 | 20.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0002561 | 0 | 0.17330E-07 | 377157.2 | 3747245.3 | 18.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0002562 | 0 | 0.17330E-07 | 377159.0 | 3747248.5 | 18.1 | 0.00 | 1.70 | 0.85 | YES | |
| L0002563 | 0 | 0.17330E-07 | 377160.9 | 3747251.7 | 18.1 | 0.00 | 1.70 | 0.85 | YES | |
| L0002564 | 0 | 0.17330E-07 | 377162.7 | 3747254.9 | 18.1 | 0.00 | 1.70 | 0.85 | YES | |
| L0002565 | 0 | 0.17330E-07 | 377164.5 | 3747258.0 | 18.1 | 0.00 | 1.70 | 0.85 | YES | |
| L0002566 | 0 | 0.17330E-07 | 377166.3 | 3747261.2 | 18.1 | 0.00 | 1.70 | 0.85 | YES | |
| L0002567 | 0 | 0.17330E-07 | 377168.1 | 3747264.4 | 18.0 | 0.00 | 1.70 | 0.85 | YES | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| L0002568 | 0 | 0.17330E-07 | 377169.9 | 3747267.6 | 18.0 | 0.00 | 1.70 | 0.85 | YES |
| L0002569 | 0 | 0.17330E-07 | 377171.7 | 3747270.8 | 18.0 | 0.00 | 1.70 | 0.85 | YES |
| L0002570 | 0 | 0.17330E-07 | 377173.5 | 3747273.9 | 18.0 | 0.00 | 1.70 | 0.85 | YES |
| L0002571 | 0 | 0.17330E-07 | 377175.3 | 3747277.1 | 18.0 | 0.00 | 1.70 | 0.85 | YES |
| L0002572 | 0 | 0.17330E-07 | 377177.1 | 3747280.3 | 18.1 | 0.00 | 1.70 | 0.85 | YES |
| L0002573 | 0 | 0.17330E-07 | 377178.9 | 3747283.5 | 18.1 | 0.00 | 1.70 | 0.85 | YES |
| L0002574 | 0 | 0.17330E-07 | 377180.7 | 3747286.7 | 18.1 | 0.00 | 1.70 | 0.85 | YES |
| L0002575 | 0 | 0.17330E-07 | 377182.5 | 3747289.8 | 18.1 | 0.00 | 1.70 | 0.85 | YES |
| L0002576 | 0 | 0.17330E-07 | 377184.3 | 3747293.0 | 18.2 | 0.00 | 1.70 | 0.85 | YES |
| L0002577 | 0 | 0.17330E-07 | 377186.2 | 3747296.2 | 18.2 | 0.00 | 1.70 | 0.85 | YES |
| L0002578 | 0 | 0.17330E-07 | 377188.0 | 3747299.4 | 18.2 | 0.00 | 1.70 | 0.85 | YES |
| L0002579 | 0 | 0.17330E-07 | 377189.8 | 3747302.6 | 18.2 | 0.00 | 1.70 | 0.85 | YES |
| L0002580 | 0 | 0.17330E-07 | 377191.6 | 3747305.7 | 18.2 | 0.00 | 1.70 | 0.85 | YES |
| L0002581 | 0 | 0.17330E-07 | 377193.4 | 3747308.9 | 18.2 | 0.00 | 1.70 | 0.85 | YES |
| L0002582 | 0 | 0.17330E-07 | 377195.2 | 3747312.1 | 18.2 | 0.00 | 1.70 | 0.85 | YES |
| L0002583 | 0 | 0.17330E-07 | 377197.0 | 3747315.3 | 18.2 | 0.00 | 1.70 | 0.85 | YES |
| L0002584 | 0 | 0.17330E-07 | 377198.8 | 3747318.5 | 18.2 | 0.00 | 1.70 | 0.85 | YES |
| L0002585 | 0 | 0.17330E-07 | 377200.6 | 3747321.6 | 18.1 | 0.00 | 1.70 | 0.85 | YES |
| L0002586 | 0 | 0.17330E-07 | 377202.4 | 3747324.8 | 18.1 | 0.00 | 1.70 | 0.85 | YES |
| L0002587 | 0 | 0.17330E-07 | 377204.2 | 3747328.0 | 18.1 | 0.00 | 1.70 | 0.85 | YES |
| L0002588 | 0 | 0.17330E-07 | 377206.0 | 3747331.2 | 18.2 | 0.00 | 1.70 | 0.85 | YES |
| L0002589 | 0 | 0.17330E-07 | 377207.8 | 3747334.4 | 18.2 | 0.00 | 1.70 | 0.85 | YES |
| L0002590 | 0 | 0.17330E-07 | 377209.6 | 3747337.5 | 18.2 | 0.00 | 1.70 | 0.85 | YES |
| L0002591 | 0 | 0.17330E-07 | 377211.4 | 3747340.7 | 18.2 | 0.00 | 1.70 | 0.85 | YES |
| L0002592 | 0 | 0.17330E-07 | 377213.3 | 3747343.9 | 18.3 | 0.00 | 1.70 | 0.85 | YES |
| L0002593 | 0 | 0.17330E-07 | 377215.1 | 3747347.1 | 18.3 | 0.00 | 1.70 | 0.85 | YES |
| L0002594 | 0 | 0.17330E-07 | 377216.9 | 3747350.3 | 18.3 | 0.00 | 1.70 | 0.85 | YES |
| L0002595 | 0 | 0.17330E-07 | 377218.7 | 3747353.4 | 18.3 | 0.00 | 1.70 | 0.85 | YES |
| L0002596 | 0 | 0.17330E-07 | 377220.5 | 3747356.6 | 18.3 | 0.00 | 1.70 | 0.85 | YES |
| L0002597 | 0 | 0.17330E-07 | 377222.3 | 3747359.8 | 18.3 | 0.00 | 1.70 | 0.85 | YES |
| L0002598 | 0 | 0.17330E-07 | 377224.1 | 3747363.0 | 18.3 | 0.00 | 1.70 | 0.85 | YES |



*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| L0002599 | 0 | 0.17330E-07 | 377225.9 | 3747366.2 | 18.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0002600 | 0 | 0.17330E-07 | 377227.7 | 3747369.3 | 18.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0002601 | 0 | 0.17330E-07 | 377229.5 | 3747372.5 | 18.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0002602 | 0 | 0.17330E-07 | 377231.3 | 3747375.7 | 18.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0002603 | 0 | 0.17330E-07 | 377233.1 | 3747378.9 | 18.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0002604 | 0 | 0.17330E-07 | 377234.9 | 3747382.1 | 18.4 | 0.00 | 1.70 | 0.85 | YES | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| L0002605 | 0 | 0.17330E-07 | 377236.6 | 3747385.3 | 18.4 | 0.00 | 1.70 | 0.85 | YES |
| L0002606 | 0 | 0.17330E-07 | 377238.4 | 3747388.5 | 18.4 | 0.00 | 1.70 | 0.85 | YES |
| L0002607 | 0 | 0.17330E-07 | 377240.1 | 3747391.8 | 18.4 | 0.00 | 1.70 | 0.85 | YES |
| L0002608 | 0 | 0.17330E-07 | 377241.8 | 3747395.0 | 18.4 | 0.00 | 1.70 | 0.85 | YES |
| L0002609 | 0 | 0.17330E-07 | 377243.6 | 3747398.2 | 18.4 | 0.00 | 1.70 | 0.85 | YES |
| L0002610 | 0 | 0.17330E-07 | 377245.3 | 3747401.4 | 18.4 | 0.00 | 1.70 | 0.85 | YES |
| L0002611 | 0 | 0.17330E-07 | 377247.0 | 3747404.6 | 18.4 | 0.00 | 1.70 | 0.85 | YES |
| L0002612 | 0 | 0.17330E-07 | 377248.8 | 3747407.9 | 18.4 | 0.00 | 1.70 | 0.85 | YES |
| L0002613 | 0 | 0.17330E-07 | 377250.5 | 3747411.1 | 18.4 | 0.00 | 1.70 | 0.85 | YES |
| L0002614 | 0 | 0.17330E-07 | 377252.2 | 3747414.3 | 18.4 | 0.00 | 1.70 | 0.85 | YES |
| L0002615 | 0 | 0.17330E-07 | 377254.0 | 3747417.5 | 18.4 | 0.00 | 1.70 | 0.85 | YES |
| L0002616 | 0 | 0.17330E-07 | 377255.7 | 3747420.7 | 18.5 | 0.00 | 1.70 | 0.85 | YES |
| L0002617 | 0 | 0.17330E-07 | 377257.5 | 3747423.9 | 18.5 | 0.00 | 1.70 | 0.85 | YES |
| L0002618 | 0 | 0.17330E-07 | 377259.3 | 3747427.1 | 18.5 | 0.00 | 1.70 | 0.85 | YES |
| L0002619 | 0 | 0.17330E-07 | 377261.2 | 3747430.3 | 18.6 | 0.00 | 1.70 | 0.85 | YES |
| L0002620 | 0 | 0.17330E-07 | 377263.0 | 3747433.4 | 18.6 | 0.00 | 1.70 | 0.85 | YES |
| L0002621 | 0 | 0.17330E-07 | 377264.8 | 3747436.6 | 18.6 | 0.00 | 1.70 | 0.85 | YES |
| L0002622 | 0 | 0.17330E-07 | 377266.6 | 3747439.8 | 18.7 | 0.00 | 1.70 | 0.85 | YES |
| L0002623 | 0 | 0.17330E-07 | 377268.4 | 3747443.0 | 18.7 | 0.00 | 1.70 | 0.85 | YES |
| L0002624 | 0 | 0.17330E-07 | 377270.2 | 3747446.1 | 18.7 | 0.00 | 1.70 | 0.85 | YES |
| L0002625 | 0 | 0.17330E-07 | 377272.0 | 3747449.3 | 18.7 | 0.00 | 1.70 | 0.85 | YES |
| L0002626 | 0 | 0.17330E-07 | 377273.9 | 3747452.5 | 18.7 | 0.00 | 1.70 | 0.85 | YES |
| L0002627 | 0 | 0.17330E-07 | 377275.7 | 3747455.7 | 18.7 | 0.00 | 1.70 | 0.85 | YES |
| L0002628 | 0 | 0.17330E-07 | 377277.5 | 3747458.8 | 18.7 | 0.00 | 1.70 | 0.85 | YES |
| L0002629 | 0 | 0.17330E-07 | 377279.3 | 3747462.0 | 18.7 | 0.00 | 1.70 | 0.85 | YES |
| L0002630 | 0 | 0.17330E-07 | 377281.0 | 3747465.2 | 18.7 | 0.00 | 1.70 | 0.85 | YES |
| L0002631 | 0 | 0.17330E-07 | 377282.7 | 3747468.5 | 18.7 | 0.00 | 1.70 | 0.85 | YES |
| L0002632 | 0 | 0.17330E-07 | 377284.3 | 3747471.8 | 18.7 | 0.00 | 1.70 | 0.85 | YES |
| L0002633 | 0 | 0.17330E-07 | 377285.9 | 3747475.1 | 18.8 | 0.00 | 1.70 | 0.85 | YES |
| L0002634 | 0 | 0.17330E-07 | 377287.6 | 3747478.3 | 18.8 | 0.00 | 1.70 | 0.85 | YES |
| L0002635 | 0 | 0.17330E-07 | 377289.2 | 3747481.6 | 18.9 | 0.00 | 1.70 | 0.85 | YES |
| L0002140 | 0 | 0.28500E-07 | 377164.3 | 3747238.2 | 18.1 | 0.00 | 1.70 | 0.85 | YES |
| L0002141 | 0 | 0.28500E-07 | 377168.0 | 3747238.2 | 18.1 | 0.00 | 1.70 | 0.85 | YES |
| L0002142 | 0 | 0.28500E-07 | 377171.6 | 3747238.2 | 18.0 | 0.00 | 1.70 | 0.85 | YES |



*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| L0002143 | 0 | 0.28500E-07 | 377175.3 | 3747238.2 | 18.0 | 0.00 | 1.70 | 0.85 | YES | |
| L0002144 | 0 | 0.28500E-07 | 377179.0 | 3747238.2 | 18.0 | 0.00 | 1.70 | 0.85 | YES | |
| L0002145 | 0 | 0.28500E-07 | 377182.6 | 3747238.2 | 18.0 | 0.00 | 1.70 | 0.85 | YES | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| L0002146 | 0 | 0.28500E-07 | 377186.3 | 3747238.3 | 18.0 | 0.00 | 1.70 | 0.85 | YES |
| L0002147 | 0 | 0.28500E-07 | 377189.9 | 3747238.3 | 18.0 | 0.00 | 1.70 | 0.85 | YES |
| L0002148 | 0 | 0.28500E-07 | 377193.6 | 3747238.3 | 18.0 | 0.00 | 1.70 | 0.85 | YES |
| L0002149 | 0 | 0.28500E-07 | 377197.2 | 3747238.3 | 18.0 | 0.00 | 1.70 | 0.85 | YES |
| L0002150 | 0 | 0.28500E-07 | 377200.9 | 3747238.3 | 18.0 | 0.00 | 1.70 | 0.85 | YES |
| L0002151 | 0 | 0.28500E-07 | 377204.6 | 3747238.3 | 18.0 | 0.00 | 1.70 | 0.85 | YES |
| L0002152 | 0 | 0.28500E-07 | 377208.2 | 3747238.3 | 18.0 | 0.00 | 1.70 | 0.85 | YES |
| L0002153 | 0 | 0.28500E-07 | 377211.9 | 3747238.3 | 18.0 | 0.00 | 1.70 | 0.85 | YES |
| L0002154 | 0 | 0.28500E-07 | 377215.5 | 3747238.4 | 17.9 | 0.00 | 1.70 | 0.85 | YES |
| L0002155 | 0 | 0.28500E-07 | 377219.2 | 3747238.4 | 17.9 | 0.00 | 1.70 | 0.85 | YES |
| L0002156 | 0 | 0.28500E-07 | 377222.8 | 3747238.4 | 17.9 | 0.00 | 1.70 | 0.85 | YES |
| L0002157 | 0 | 0.28500E-07 | 377226.5 | 3747238.4 | 17.8 | 0.00 | 1.70 | 0.85 | YES |
| L0002158 | 0 | 0.28500E-07 | 377230.2 | 3747238.4 | 17.8 | 0.00 | 1.70 | 0.85 | YES |
| L0002159 | 0 | 0.28500E-07 | 377233.8 | 3747238.4 | 17.7 | 0.00 | 1.70 | 0.85 | YES |
| L0002160 | 0 | 0.28500E-07 | 377237.5 | 3747238.4 | 17.7 | 0.00 | 1.70 | 0.85 | YES |
| L0002161 | 0 | 0.28500E-07 | 377241.1 | 3747238.5 | 17.7 | 0.00 | 1.70 | 0.85 | YES |
| L0002162 | 0 | 0.28500E-07 | 377244.8 | 3747238.5 | 17.7 | 0.00 | 1.70 | 0.85 | YES |
| L0002163 | 0 | 0.28500E-07 | 377248.4 | 3747238.5 | 17.7 | 0.00 | 1.70 | 0.85 | YES |
| L0002164 | 0 | 0.28500E-07 | 377252.1 | 3747238.5 | 17.7 | 0.00 | 1.70 | 0.85 | YES |
| L0002165 | 0 | 0.28500E-07 | 377255.8 | 3747238.5 | 17.7 | 0.00 | 1.70 | 0.85 | YES |
| L0002166 | 0 | 0.28500E-07 | 377259.4 | 3747238.5 | 17.7 | 0.00 | 1.70 | 0.85 | YES |
| L0002167 | 0 | 0.28500E-07 | 377263.1 | 3747238.5 | 17.8 | 0.00 | 1.70 | 0.85 | YES |
| L0002168 | 0 | 0.28500E-07 | 377266.7 | 3747238.6 | 17.8 | 0.00 | 1.70 | 0.85 | YES |
| L0002169 | 0 | 0.28500E-07 | 377270.4 | 3747238.6 | 17.8 | 0.00 | 1.70 | 0.85 | YES |
| L0002170 | 0 | 0.28500E-07 | 377274.0 | 3747238.6 | 17.8 | 0.00 | 1.70 | 0.85 | YES |
| L0002171 | 0 | 0.28500E-07 | 377277.7 | 3747238.6 | 17.8 | 0.00 | 1.70 | 0.85 | YES |
| L0002172 | 0 | 0.28500E-07 | 377281.4 | 3747238.6 | 17.8 | 0.00 | 1.70 | 0.85 | YES |
| L0002173 | 0 | 0.28500E-07 | 377285.0 | 3747238.6 | 17.8 | 0.00 | 1.70 | 0.85 | YES |
| L0002174 | 0 | 0.28500E-07 | 377288.7 | 3747238.6 | 17.8 | 0.00 | 1.70 | 0.85 | YES |
| L0002175 | 0 | 0.28500E-07 | 377292.3 | 3747238.6 | 17.9 | 0.00 | 1.70 | 0.85 | YES |
| L0002176 | 0 | 0.28500E-07 | 377296.0 | 3747238.7 | 17.9 | 0.00 | 1.70 | 0.85 | YES |
| L0002177 | 0 | 0.28500E-07 | 377299.6 | 3747238.7 | 17.9 | 0.00 | 1.70 | 0.85 | YES |
| L0002178 | 0 | 0.28500E-07 | 377303.3 | 3747238.7 | 18.0 | 0.00 | 1.70 | 0.85 | YES |
| L0002179 | 0 | 0.28500E-07 | 377307.0 | 3747238.7 | 18.0 | 0.00 | 1.70 | 0.85 | YES |
| L0002180 | 0 | 0.28500E-07 | 377310.6 | 3747238.7 | 18.1 | 0.00 | 1.70 | 0.85 | YES |
| L0002181 | 0 | 0.28500E-07 | 377314.3 | 3747238.7 | 18.1 | 0.00 | 1.70 | 0.85 | YES |
| L0002182 | 0 | 0.28500E-07 | 377317.9 | 3747238.7 | 18.1 | 0.00 | 1.70 | 0.85 | YES |



*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** 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 |
|---|---|---|---|---|---|---|---|---|---|---|

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| L0002183 | 0 | 0.28500E-07 | 377321.6 | 3747238.8 | 18.2 | 0.00 | 1.70 | 0.85 | YES |
| L0002184 | 0 | 0.28500E-07 | 377325.3 | 3747238.8 | 18.2 | 0.00 | 1.70 | 0.85 | YES |
| L0002185 | 0 | 0.28500E-07 | 377328.9 | 3747238.8 | 18.3 | 0.00 | 1.70 | 0.85 | YES |
| L0002186 | 0 | 0.28500E-07 | 377332.6 | 3747238.8 | 18.3 | 0.00 | 1.70 | 0.85 | YES |
| L0002187 | 0 | 0.28500E-07 | 377336.2 | 3747238.8 | 18.4 | 0.00 | 1.70 | 0.85 | YES |
| L0002188 | 0 | 0.28500E-07 | 377339.9 | 3747238.8 | 18.4 | 0.00 | 1.70 | 0.85 | YES |
| L0002189 | 0 | 0.28500E-07 | 377343.5 | 3747238.8 | 18.4 | 0.00 | 1.70 | 0.85 | YES |
| L0002190 | 0 | 0.28500E-07 | 377347.2 | 3747238.9 | 18.5 | 0.00 | 1.70 | 0.85 | YES |
| L0002191 | 0 | 0.28500E-07 | 377350.9 | 3747238.9 | 18.5 | 0.00 | 1.70 | 0.85 | YES |
| L0002192 | 0 | 0.28500E-07 | 377354.5 | 3747238.9 | 18.6 | 0.00 | 1.70 | 0.85 | YES |
| L0002193 | 0 | 0.28500E-07 | 377358.2 | 3747238.9 | 18.6 | 0.00 | 1.70 | 0.85 | YES |
| L0002194 | 0 | 0.28500E-07 | 377361.8 | 3747238.9 | 18.6 | 0.00 | 1.70 | 0.85 | YES |
| L0002195 | 0 | 0.28500E-07 | 377365.5 | 3747238.9 | 18.7 | 0.00 | 1.70 | 0.85 | YES |
| L0002196 | 0 | 0.28500E-07 | 377369.1 | 3747238.9 | 18.7 | 0.00 | 1.70 | 0.85 | YES |
| L0002197 | 0 | 0.28500E-07 | 377372.8 | 3747238.9 | 18.8 | 0.00 | 1.70 | 0.85 | YES |
| L0002198 | 0 | 0.28500E-07 | 377376.5 | 3747239.0 | 18.8 | 0.00 | 1.70 | 0.85 | YES |
| L0002199 | 0 | 0.28500E-07 | 377380.1 | 3747239.0 | 18.8 | 0.00 | 1.70 | 0.85 | YES |
| L0002200 | 0 | 0.28500E-07 | 377383.8 | 3747239.0 | 18.8 | 0.00 | 1.70 | 0.85 | YES |
| L0002201 | 0 | 0.28500E-07 | 377387.4 | 3747239.0 | 18.9 | 0.00 | 1.70 | 0.85 | YES |
| L0002202 | 0 | 0.28500E-07 | 377391.1 | 3747239.0 | 18.9 | 0.00 | 1.70 | 0.85 | YES |
| L0002203 | 0 | 0.28500E-07 | 377394.7 | 3747239.0 | 18.9 | 0.00 | 1.70 | 0.85 | YES |
| L0002204 | 0 | 0.28500E-07 | 377398.4 | 3747239.0 | 19.0 | 0.00 | 1.70 | 0.85 | YES |
| L0002205 | 0 | 0.28500E-07 | 377402.1 | 3747239.1 | 19.0 | 0.00 | 1.70 | 0.85 | YES |
| L0002206 | 0 | 0.28500E-07 | 377405.7 | 3747239.1 | 19.1 | 0.00 | 1.70 | 0.85 | YES |
| L0002207 | 0 | 0.28500E-07 | 377409.4 | 3747239.1 | 19.2 | 0.00 | 1.70 | 0.85 | YES |
| L0002208 | 0 | 0.28500E-07 | 377413.0 | 3747239.1 | 19.2 | 0.00 | 1.70 | 0.85 | YES |
| L0002209 | 0 | 0.28500E-07 | 377416.7 | 3747239.1 | 19.3 | 0.00 | 1.70 | 0.85 | YES |
| L0002210 | 0 | 0.28500E-07 | 377420.3 | 3747239.1 | 19.3 | 0.00 | 1.70 | 0.85 | YES |
| L0002211 | 0 | 0.28500E-07 | 377424.0 | 3747239.1 | 19.4 | 0.00 | 1.70 | 0.85 | YES |
| L0002212 | 0 | 0.28500E-07 | 377427.7 | 3747239.2 | 19.4 | 0.00 | 1.70 | 0.85 | YES |
| L0002213 | 0 | 0.28500E-07 | 377431.3 | 3747239.2 | 19.4 | 0.00 | 1.70 | 0.85 | YES |
| L0002214 | 0 | 0.28500E-07 | 377435.0 | 3747239.2 | 19.5 | 0.00 | 1.70 | 0.85 | YES |
| L0002215 | 0 | 0.28500E-07 | 377438.6 | 3747239.2 | 19.5 | 0.00 | 1.70 | 0.85 | YES |
| L0002216 | 0 | 0.28500E-07 | 377442.3 | 3747239.2 | 19.5 | 0.00 | 1.70 | 0.85 | YES |
| L0002217 | 0 | 0.28500E-07 | 377446.0 | 3747239.2 | 19.6 | 0.00 | 1.70 | 0.85 | YES |
| L0002218 | 0 | 0.28500E-07 | 377449.6 | 3747239.2 | 19.6 | 0.00 | 1.70 | 0.85 | YES |
| L0002219 | 0 | 0.28500E-07 | 377453.3 | 3747239.3 | 19.7 | 0.00 | 1.70 | 0.85 | YES |
| L0002220 | 0 | 0.28500E-07 | 377456.9 | 3747239.3 | 19.7 | 0.00 | 1.70 | 0.85 | YES |
| L0002221 | 0 | 0.28500E-07 | 377460.6 | 3747239.3 | 19.7 | 0.00 | 1.70 | 0.85 | YES |
| L0002222 | 0 | 0.28500E-07 | 377464.2 | 3747239.3 | 19.7 | 0.00 | 1.70 | 0.85 | YES |



*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

| SOURCE | NUMBER PART. | EMISSION RATE (GRAMS/SEC) | X | Y | BASE ELEV. | RELEASE HEIGHT | INIT. SY | INIT. SZ | URBAN SOURCE | EMISSION RATE SCALAR VARY |
|---|---|---|---|---|---|---|---|---|---|---|

| ID | CATS. | | (METERS) | (METERS) | (METERS) | (METERS) | (METERS) | (METERS) | BY |
|---|---|---|---|---|---|---|---|---|---|
| L0002223 | 0 | 0.28500E-07 | 377467.9 | 3747239.3 | 19.8 | 0.00 | 1.70 | 0.85 | YES |
| L0002224 | 0 | 0.28500E-07 | 377471.6 | 3747239.3 | 19.8 | 0.00 | 1.70 | 0.85 | YES |
| L0002225 | 0 | 0.28500E-07 | 377475.2 | 3747239.3 | 19.8 | 0.00 | 1.70 | 0.85 | YES |
| L0002226 | 0 | 0.28500E-07 | 377478.9 | 3747239.3 | 19.8 | 0.00 | 1.70 | 0.85 | YES |
| L0002227 | 0 | 0.28500E-07 | 377482.5 | 3747239.4 | 19.8 | 0.00 | 1.70 | 0.85 | YES |
| L0002228 | 0 | 0.28500E-07 | 377486.2 | 3747239.4 | 19.8 | 0.00 | 1.70 | 0.85 | YES |
| L0002229 | 0 | 0.28500E-07 | 377489.8 | 3747239.4 | 19.8 | 0.00 | 1.70 | 0.85 | YES |
| L0002230 | 0 | 0.28500E-07 | 377493.5 | 3747239.4 | 19.8 | 0.00 | 1.70 | 0.85 | YES |
| L0002231 | 0 | 0.28500E-07 | 377497.2 | 3747239.4 | 19.8 | 0.00 | 1.70 | 0.85 | YES |
| L0002232 | 0 | 0.28500E-07 | 377500.8 | 3747239.4 | 19.8 | 0.00 | 1.70 | 0.85 | YES |
| L0002233 | 0 | 0.28500E-07 | 377504.5 | 3747239.4 | 19.7 | 0.00 | 1.70 | 0.85 | YES |
| L0002234 | 0 | 0.28500E-07 | 377508.1 | 3747239.5 | 19.7 | 0.00 | 1.70 | 0.85 | YES |
| L0002235 | 0 | 0.28500E-07 | 377511.8 | 3747239.5 | 19.7 | 0.00 | 1.70 | 0.85 | YES |
| L0002236 | 0 | 0.28500E-07 | 377515.4 | 3747239.5 | 19.7 | 0.00 | 1.70 | 0.85 | YES |
| L0002237 | 0 | 0.28500E-07 | 377519.1 | 3747239.5 | 19.7 | 0.00 | 1.70 | 0.85 | YES |
| L0002238 | 0 | 0.28500E-07 | 377522.8 | 3747239.5 | 19.6 | 0.00 | 1.70 | 0.85 | YES |
| L0002239 | 0 | 0.28500E-07 | 377526.4 | 3747239.5 | 19.6 | 0.00 | 1.70 | 0.85 | YES |
| L0002240 | 0 | 0.28500E-07 | 377530.1 | 3747239.5 | 19.6 | 0.00 | 1.70 | 0.85 | YES |
| L0002241 | 0 | 0.28500E-07 | 377533.7 | 3747239.6 | 19.6 | 0.00 | 1.70 | 0.85 | YES |
| L0002242 | 0 | 0.28500E-07 | 377537.4 | 3747239.6 | 19.6 | 0.00 | 1.70 | 0.85 | YES |
| L0002243 | 0 | 0.28500E-07 | 377541.0 | 3747239.6 | 19.5 | 0.00 | 1.70 | 0.85 | YES |
| L0002244 | 0 | 0.28500E-07 | 377544.7 | 3747239.6 | 19.5 | 0.00 | 1.70 | 0.85 | YES |
| L0002245 | 0 | 0.28500E-07 | 377548.4 | 3747239.6 | 19.5 | 0.00 | 1.70 | 0.85 | YES |
| L0002246 | 0 | 0.28500E-07 | 377552.0 | 3747239.6 | 19.5 | 0.00 | 1.70 | 0.85 | YES |
| L0002247 | 0 | 0.28500E-07 | 377555.7 | 3747239.6 | 19.5 | 0.00 | 1.70 | 0.85 | YES |
| L0002248 | 0 | 0.28500E-07 | 377559.3 | 3747239.6 | 19.5 | 0.00 | 1.70 | 0.85 | YES |
| L0002249 | 0 | 0.28500E-07 | 377563.0 | 3747239.7 | 19.5 | 0.00 | 1.70 | 0.85 | YES |
| L0002250 | 0 | 0.28500E-07 | 377566.7 | 3747239.7 | 19.4 | 0.00 | 1.70 | 0.85 | YES |
| L0002251 | 0 | 0.28500E-07 | 377570.3 | 3747239.7 | 19.4 | 0.00 | 1.70 | 0.85 | YES |
| L0002252 | 0 | 0.28500E-07 | 377574.0 | 3747239.7 | 19.4 | 0.00 | 1.70 | 0.85 | YES |
| L0002253 | 0 | 0.28500E-07 | 377577.6 | 3747239.7 | 19.4 | 0.00 | 1.70 | 0.85 | YES |
| L0002254 | 0 | 0.28500E-07 | 377581.3 | 3747239.7 | 19.4 | 0.00 | 1.70 | 0.85 | YES |
| L0002255 | 0 | 0.28500E-07 | 377584.9 | 3747239.7 | 19.3 | 0.00 | 1.70 | 0.85 | YES |
| L0002256 | 0 | 0.28500E-07 | 377588.6 | 3747239.8 | 19.3 | 0.00 | 1.70 | 0.85 | YES |
| L0002257 | 0 | 0.28500E-07 | 377592.3 | 3747239.8 | 19.3 | 0.00 | 1.70 | 0.85 | YES |
| L0002258 | 0 | 0.28500E-07 | 377595.9 | 3747239.8 | 19.2 | 0.00 | 1.70 | 0.85 | YES |
| L0002259 | 0 | 0.28500E-07 | 377599.6 | 3747239.8 | 19.2 | 0.00 | 1.70 | 0.85 | YES |
| L0002260 | 0 | 0.28500E-07 | 377603.2 | 3747239.8 | 19.2 | 0.00 | 1.70 | 0.85 | YES |
| L0002261 | 0 | 0.28500E-07 | 377606.9 | 3747239.8 | 19.2 | 0.00 | 1.70 | 0.85 | YES |
| L0002262 | 0 | 0.28500E-07 | 377610.5 | 3747239.8 | 19.2 | 0.00 | 1.70 | 0.85 | YES |



*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| L0002263 | 0 | 0.28500E-07 | 377614.2 | 3747239.9 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0002264 | 0 | 0.28500E-07 | 377617.9 | 3747239.9 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0002265 | 0 | 0.28500E-07 | 377621.5 | 3747239.9 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0002266 | 0 | 0.28500E-07 | 377625.2 | 3747239.9 | 19.1 | 0.00 | 1.70 | 0.85 | YES | |
| L0002267 | 0 | 0.28500E-07 | 377628.8 | 3747239.9 | 19.1 | 0.00 | 1.70 | 0.85 | YES | |
| L0002268 | 0 | 0.28500E-07 | 377632.5 | 3747239.9 | 19.1 | 0.00 | 1.70 | 0.85 | YES | |
| L0002269 | 0 | 0.28500E-07 | 377636.1 | 3747239.9 | 19.1 | 0.00 | 1.70 | 0.85 | YES | |
| L0002270 | 0 | 0.28500E-07 | 377639.8 | 3747239.9 | 19.1 | 0.00 | 1.70 | 0.85 | YES | |
| L0002271 | 0 | 0.28500E-07 | 377643.5 | 3747240.0 | 19.0 | 0.00 | 1.70 | 0.85 | YES | |
| L0002272 | 0 | 0.28500E-07 | 377647.1 | 3747240.0 | 19.0 | 0.00 | 1.70 | 0.85 | YES | |
| L0002273 | 0 | 0.28500E-07 | 377650.8 | 3747240.0 | 19.0 | 0.00 | 1.70 | 0.85 | YES | |
| L0002274 | 0 | 0.28500E-07 | 377654.4 | 3747240.0 | 19.0 | 0.00 | 1.70 | 0.85 | YES | |
| L0002275 | 0 | 0.28500E-07 | 377658.1 | 3747240.0 | 18.9 | 0.00 | 1.70 | 0.85 | YES | |
| L0002276 | 0 | 0.28500E-07 | 377661.7 | 3747240.0 | 18.9 | 0.00 | 1.70 | 0.85 | YES | |
| L0002277 | 0 | 0.28500E-07 | 377665.4 | 3747240.0 | 18.9 | 0.00 | 1.70 | 0.85 | YES | |
| L0002278 | 0 | 0.28500E-07 | 377669.1 | 3747240.1 | 18.9 | 0.00 | 1.70 | 0.85 | YES | |
| L0002279 | 0 | 0.28500E-07 | 377672.7 | 3747240.1 | 18.8 | 0.00 | 1.70 | 0.85 | YES | |
| L0002280 | 0 | 0.28500E-07 | 377676.4 | 3747240.1 | 18.8 | 0.00 | 1.70 | 0.85 | YES | |
| L0002281 | 0 | 0.28500E-07 | 377680.0 | 3747240.1 | 18.8 | 0.00 | 1.70 | 0.85 | YES | |
| L0002282 | 0 | 0.28500E-07 | 377683.7 | 3747240.1 | 18.8 | 0.00 | 1.70 | 0.85 | YES | |
| L0002283 | 0 | 0.28500E-07 | 377687.4 | 3747240.1 | 18.8 | 0.00 | 1.70 | 0.85 | YES | |
| L0002284 | 0 | 0.28500E-07 | 377691.0 | 3747240.1 | 18.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0002285 | 0 | 0.28500E-07 | 377694.7 | 3747240.2 | 18.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0002286 | 0 | 0.28500E-07 | 377698.3 | 3747240.2 | 18.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0002287 | 0 | 0.28500E-07 | 377702.0 | 3747240.2 | 18.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0002288 | 0 | 0.28500E-07 | 377705.6 | 3747240.2 | 18.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0002289 | 0 | 0.28500E-07 | 377709.3 | 3747240.2 | 18.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0002290 | 0 | 0.28500E-07 | 377713.0 | 3747240.2 | 18.6 | 0.00 | 1.70 | 0.85 | YES | |
| L0002291 | 0 | 0.28500E-07 | 377716.6 | 3747240.2 | 18.6 | 0.00 | 1.70 | 0.85 | YES | |
| L0002292 | 0 | 0.28500E-07 | 377720.3 | 3747240.2 | 18.6 | 0.00 | 1.70 | 0.85 | YES | |
| L0002293 | 0 | 0.28500E-07 | 377723.9 | 3747240.3 | 18.6 | 0.00 | 1.70 | 0.85 | YES | |
| L0002294 | 0 | 0.28500E-07 | 377727.6 | 3747240.3 | 18.5 | 0.00 | 1.70 | 0.85 | YES | |
| L0002295 | 0 | 0.28500E-07 | 377731.2 | 3747240.3 | 18.5 | 0.00 | 1.70 | 0.85 | YES | |
| L0002296 | 0 | 0.28500E-07 | 377734.9 | 3747240.3 | 18.5 | 0.00 | 1.70 | 0.85 | YES | |
| L0002297 | 0 | 0.28500E-07 | 377738.6 | 3747240.3 | 18.5 | 0.00 | 1.70 | 0.85 | YES | |
| L0002298 | 0 | 0.28500E-07 | 377742.2 | 3747240.3 | 18.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0002299 | 0 | 0.28500E-07 | 377745.9 | 3747240.3 | 18.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0002300 | 0 | 0.28500E-07 | 377749.5 | 3747240.4 | 18.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0002301 | 0 | 0.28500E-07 | 377753.2 | 3747240.4 | 18.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0002302 | 0 | 0.28500E-07 | 377756.8 | 3747240.4 | 18.3 | 0.00 | 1.70 | 0.85 | YES | |



*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| L0002303 | 0 | 0.28500E-07 | 377760.5 | 3747240.4 | 18.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0002304 | 0 | 0.28500E-07 | 377764.2 | 3747240.4 | 18.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0002305 | 0 | 0.28500E-07 | 377767.8 | 3747240.4 | 18.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0002306 | 0 | 0.28500E-07 | 377771.5 | 3747240.4 | 18.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0002307 | 0 | 0.28500E-07 | 377775.1 | 3747240.5 | 18.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0002308 | 0 | 0.28500E-07 | 377778.8 | 3747240.5 | 18.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0002309 | 0 | 0.28500E-07 | 377782.4 | 3747240.5 | 18.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0002310 | 0 | 0.28500E-07 | 377786.1 | 3747240.5 | 18.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0002311 | 0 | 0.28500E-07 | 377789.8 | 3747240.5 | 18.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0002312 | 0 | 0.28500E-07 | 377793.4 | 3747240.5 | 18.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0002313 | 0 | 0.28500E-07 | 377797.1 | 3747240.5 | 18.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0002314 | 0 | 0.28500E-07 | 377800.7 | 3747240.5 | 18.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0002315 | 0 | 0.28500E-07 | 377804.4 | 3747240.6 | 18.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0002316 | 0 | 0.28500E-07 | 377808.1 | 3747240.6 | 18.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0002317 | 0 | 0.28500E-07 | 377811.7 | 3747240.6 | 18.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0002318 | 0 | 0.28500E-07 | 377815.4 | 3747240.6 | 18.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0002319 | 0 | 0.28500E-07 | 377819.0 | 3747240.6 | 18.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0002320 | 0 | 0.28500E-07 | 377822.7 | 3747240.6 | 18.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0002321 | 0 | 0.28500E-07 | 377826.3 | 3747240.6 | 18.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0002322 | 0 | 0.28500E-07 | 377830.0 | 3747240.7 | 18.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0002323 | 0 | 0.28500E-07 | 377833.7 | 3747240.7 | 18.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0002324 | 0 | 0.28500E-07 | 377837.3 | 3747240.7 | 18.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0002325 | 0 | 0.28500E-07 | 377841.0 | 3747240.7 | 18.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0002326 | 0 | 0.28500E-07 | 377844.6 | 3747240.7 | 18.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0002327 | 0 | 0.28500E-07 | 377848.3 | 3747240.7 | 18.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0002328 | 0 | 0.28500E-07 | 377851.9 | 3747240.7 | 18.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0002329 | 0 | 0.28500E-07 | 377855.6 | 3747240.8 | 18.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0002330 | 0 | 0.28500E-07 | 377859.3 | 3747240.8 | 18.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0002331 | 0 | 0.28500E-07 | 377862.9 | 3747240.8 | 18.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0002332 | 0 | 0.28500E-07 | 377866.6 | 3747240.8 | 18.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0002333 | 0 | 0.28500E-07 | 377870.2 | 3747240.8 | 18.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0002334 | 0 | 0.28500E-07 | 377873.9 | 3747240.8 | 18.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0002335 | 0 | 0.28500E-07 | 377877.5 | 3747240.8 | 18.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0002336 | 0 | 0.28500E-07 | 377881.2 | 3747240.9 | 18.5 | 0.00 | 1.70 | 0.85 | YES | |
| L0002337 | 0 | 0.28500E-07 | 377884.9 | 3747240.9 | 18.5 | 0.00 | 1.70 | 0.85 | YES | |
| L0002338 | 0 | 0.28500E-07 | 377888.5 | 3747240.9 | 18.5 | 0.00 | 1.70 | 0.85 | YES | |
| L0002339 | 0 | 0.28500E-07 | 377892.2 | 3747240.9 | 18.5 | 0.00 | 1.70 | 0.85 | YES | |
| L0002340 | 0 | 0.28500E-07 | 377895.8 | 3747240.9 | 18.6 | 0.00 | 1.70 | 0.85 | YES | |
| L0002341 | 0 | 0.28500E-07 | 377899.5 | 3747240.9 | 18.6 | 0.00 | 1.70 | 0.85 | YES | |
| L0002342 | 0 | 0.28500E-07 | 377903.1 | 3747240.9 | 18.6 | 0.00 | 1.70 | 0.85 | YES | |

*** 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| L0002343 | 0 | 0.28500E-07 | 377906.8 | 3747240.9 | 18.6 | 0.00 | 1.70 | 0.85 | YES | |
| L0002344 | 0 | 0.28500E-07 | 377910.5 | 3747241.0 | 18.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0002345 | 0 | 0.28500E-07 | 377914.1 | 3747241.0 | 18.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0002346 | 0 | 0.28500E-07 | 377917.8 | 3747241.0 | 18.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0002347 | 0 | 0.28500E-07 | 377921.4 | 3747241.0 | 18.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0002348 | 0 | 0.28500E-07 | 377925.1 | 3747241.0 | 18.8 | 0.00 | 1.70 | 0.85 | YES | |
| L0002349 | 0 | 0.28500E-07 | 377928.8 | 3747241.0 | 18.8 | 0.00 | 1.70 | 0.85 | YES | |
| L0002350 | 0 | 0.28500E-07 | 377932.4 | 3747241.0 | 18.8 | 0.00 | 1.70 | 0.85 | YES | |
| L0002351 | 0 | 0.28500E-07 | 377936.1 | 3747241.1 | 18.9 | 0.00 | 1.70 | 0.85 | YES | |
| L0002352 | 0 | 0.28500E-07 | 377939.7 | 3747241.1 | 18.9 | 0.00 | 1.70 | 0.85 | YES | |
| L0002353 | 0 | 0.28500E-07 | 377943.4 | 3747241.1 | 18.9 | 0.00 | 1.70 | 0.85 | YES | |
| L0002354 | 0 | 0.28500E-07 | 377947.0 | 3747241.1 | 19.0 | 0.00 | 1.70 | 0.85 | YES | |
| L0002355 | 0 | 0.28500E-07 | 377950.7 | 3747241.1 | 19.1 | 0.00 | 1.70 | 0.85 | YES | |
| L0002356 | 0 | 0.28500E-07 | 377954.4 | 3747241.1 | 19.1 | 0.00 | 1.70 | 0.85 | YES | |
| L0002357 | 0 | 0.28500E-07 | 377958.0 | 3747241.1 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0002358 | 0 | 0.28500E-07 | 377961.7 | 3747241.2 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0002359 | 0 | 0.28500E-07 | 377965.3 | 3747241.2 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0002360 | 0 | 0.28500E-07 | 377969.0 | 3747241.2 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0002361 | 0 | 0.28500E-07 | 377972.6 | 3747241.2 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0002362 | 0 | 0.28500E-07 | 377976.3 | 3747241.2 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0002363 | 0 | 0.28500E-07 | 377980.0 | 3747241.2 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0002364 | 0 | 0.28500E-07 | 377983.6 | 3747241.2 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0002365 | 0 | 0.28500E-07 | 377987.3 | 3747241.2 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0002366 | 0 | 0.28500E-07 | 377990.9 | 3747241.3 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0002367 | 0 | 0.28500E-07 | 377994.6 | 3747241.3 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0002368 | 0 | 0.28500E-07 | 377998.2 | 3747241.3 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0002369 | 0 | 0.28500E-07 | 378001.9 | 3747241.3 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0002370 | 0 | 0.28500E-07 | 378005.6 | 3747241.3 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0002371 | 0 | 0.28500E-07 | 378009.2 | 3747241.3 | 19.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0002372 | 0 | 0.28500E-07 | 378012.9 | 3747241.3 | 19.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0002373 | 0 | 0.28500E-07 | 378016.5 | 3747241.4 | 19.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0002374 | 0 | 0.28500E-07 | 378020.2 | 3747241.4 | 19.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0002375 | 0 | 0.28500E-07 | 378023.8 | 3747241.4 | 19.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0002376 | 0 | 0.28500E-07 | 378027.5 | 3747241.4 | 19.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0002377 | 0 | 0.28500E-07 | 378031.2 | 3747241.4 | 19.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0002378 | 0 | 0.28500E-07 | 378034.8 | 3747241.4 | 19.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0002379 | 0 | 0.28500E-07 | 378038.5 | 3747241.4 | 19.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0002380 | 0 | 0.28500E-07 | 378042.1 | 3747241.5 | 19.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0002381 | 0 | 0.28500E-07 | 378045.8 | 3747241.5 | 19.5 | 0.00 | 1.70 | 0.85 | YES | |

*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

*** 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| L0002382 | 0 | 0.28500E-07 | 378049.5 | 3747241.5 | 19.5 | 0.00 | 1.70 | 0.85 | YES | |
| L0002383 | 0 | 0.28500E-07 | 378053.1 | 3747241.5 | 19.6 | 0.00 | 1.70 | 0.85 | YES | |
| L0002384 | 0 | 0.28500E-07 | 378056.8 | 3747241.5 | 19.6 | 0.00 | 1.70 | 0.85 | YES | |
| L0002385 | 0 | 0.28500E-07 | 378060.4 | 3747241.5 | 19.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0002386 | 0 | 0.28500E-07 | 378064.1 | 3747241.5 | 19.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0002387 | 0 | 0.28500E-07 | 378067.7 | 3747241.5 | 19.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0002388 | 0 | 0.28500E-07 | 378071.4 | 3747241.6 | 19.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0002389 | 0 | 0.28500E-07 | 378075.1 | 3747241.6 | 19.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0002390 | 0 | 0.28500E-07 | 378078.7 | 3747241.6 | 19.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0002391 | 0 | 0.28500E-07 | 378082.4 | 3747241.6 | 19.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0002392 | 0 | 0.28500E-07 | 378086.0 | 3747241.6 | 19.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0002393 | 0 | 0.28500E-07 | 378089.7 | 3747241.6 | 19.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0002394 | 0 | 0.28500E-07 | 378093.3 | 3747241.6 | 19.8 | 0.00 | 1.70 | 0.85 | YES | |
| L0002395 | 0 | 0.28500E-07 | 378097.0 | 3747241.7 | 19.8 | 0.00 | 1.70 | 0.85 | YES | |
| L0002396 | 0 | 0.28500E-07 | 378100.7 | 3747241.7 | 19.8 | 0.00 | 1.70 | 0.85 | YES | |
| L0002397 | 0 | 0.28500E-07 | 378104.3 | 3747241.7 | 19.8 | 0.00 | 1.70 | 0.85 | YES | |
| L0002398 | 0 | 0.28500E-07 | 378108.0 | 3747241.7 | 19.9 | 0.00 | 1.70 | 0.85 | YES | |
| L0002399 | 0 | 0.28500E-07 | 378111.6 | 3747241.7 | 19.9 | 0.00 | 1.70 | 0.85 | YES | |
| L0002400 | 0 | 0.28500E-07 | 378115.3 | 3747241.7 | 19.9 | 0.00 | 1.70 | 0.85 | YES | |
| L0002401 | 0 | 0.28500E-07 | 378118.9 | 3747241.7 | 19.9 | 0.00 | 1.70 | 0.85 | YES | |
| L0002402 | 0 | 0.28500E-07 | 378122.6 | 3747241.8 | 19.9 | 0.00 | 1.70 | 0.85 | YES | |
| L0002403 | 0 | 0.28500E-07 | 378126.3 | 3747241.8 | 19.9 | 0.00 | 1.70 | 0.85 | YES | |
| L0002404 | 0 | 0.28500E-07 | 378129.9 | 3747241.8 | 19.9 | 0.00 | 1.70 | 0.85 | YES | |
| L0002405 | 0 | 0.28500E-07 | 378133.6 | 3747241.8 | 19.9 | 0.00 | 1.70 | 0.85 | YES | |
| L0002406 | 0 | 0.28500E-07 | 378137.2 | 3747241.8 | 19.9 | 0.00 | 1.70 | 0.85 | YES | |
| L0002407 | 0 | 0.28500E-07 | 378140.9 | 3747241.8 | 19.9 | 0.00 | 1.70 | 0.85 | YES | |
| L0002408 | 0 | 0.28500E-07 | 378144.5 | 3747241.8 | 19.9 | 0.00 | 1.70 | 0.85 | YES | |
| L0002409 | 0 | 0.28500E-07 | 378148.2 | 3747241.8 | 19.9 | 0.00 | 1.70 | 0.85 | YES | |
| L0002410 | 0 | 0.28500E-07 | 378151.9 | 3747241.9 | 19.9 | 0.00 | 1.70 | 0.85 | YES | |
| L0002411 | 0 | 0.28500E-07 | 378155.5 | 3747241.9 | 19.9 | 0.00 | 1.70 | 0.85 | YES | |
| L0002412 | 0 | 0.28500E-07 | 378159.2 | 3747241.9 | 19.9 | 0.00 | 1.70 | 0.85 | YES | |
| L0002413 | 0 | 0.28500E-07 | 378162.8 | 3747241.9 | 19.9 | 0.00 | 1.70 | 0.85 | YES | |
| L0002414 | 0 | 0.28500E-07 | 378166.5 | 3747241.9 | 19.9 | 0.00 | 1.70 | 0.85 | YES | |
| L0002415 | 0 | 0.28500E-07 | 378170.2 | 3747241.9 | 19.8 | 0.00 | 1.70 | 0.85 | YES | |
| L0002416 | 0 | 0.28500E-07 | 378173.8 | 3747241.9 | 19.8 | 0.00 | 1.70 | 0.85 | YES | |
| L0002417 | 0 | 0.28500E-07 | 378177.5 | 3747242.0 | 19.8 | 0.00 | 1.70 | 0.85 | YES | |
| L0002418 | 0 | 0.28500E-07 | 378181.1 | 3747242.0 | 19.7 | 0.00 | 1.70 | 0.85 | YES | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| L0002419 | 0 | 0.28500E-07 | 378184.8 | 3747242.0 | 19.7 | 0.00 | 1.70 | 0.85 | YES |
| L0002420 | 0 | 0.28500E-07 | 378188.4 | 3747242.0 | 19.7 | 0.00 | 1.70 | 0.85 | YES |
| L0002421 | 0 | 0.28500E-07 | 378192.1 | 3747242.0 | 19.6 | 0.00 | 1.70 | 0.85 | YES |
| L0002422 | 0 | 0.28500E-07 | 378195.8 | 3747242.0 | 19.7 | 0.00 | 1.70 | 0.85 | YES |



*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| L0002423 | 0 | 0.28500E-07 | 378199.4 | 3747242.0 | 19.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0002424 | 0 | 0.28500E-07 | 378203.1 | 3747242.1 | 19.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0002425 | 0 | 0.28500E-07 | 378206.7 | 3747242.1 | 19.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0002426 | 0 | 0.28500E-07 | 378210.4 | 3747242.1 | 19.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0002427 | 0 | 0.28500E-07 | 378214.0 | 3747242.1 | 19.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0002428 | 0 | 0.28500E-07 | 378217.7 | 3747242.1 | 19.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0002429 | 0 | 0.28500E-07 | 378221.4 | 3747242.1 | 19.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0002430 | 0 | 0.28500E-07 | 378225.0 | 3747242.1 | 19.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0002431 | 0 | 0.28500E-07 | 378228.7 | 3747242.1 | 19.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0002432 | 0 | 0.28500E-07 | 378232.3 | 3747242.2 | 19.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0002433 | 0 | 0.28500E-07 | 378236.0 | 3747242.2 | 19.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0002434 | 0 | 0.28500E-07 | 378239.6 | 3747242.2 | 19.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0002435 | 0 | 0.28500E-07 | 378243.3 | 3747242.2 | 19.6 | 0.00 | 1.70 | 0.85 | YES | |
| L0002436 | 0 | 0.28500E-07 | 378247.0 | 3747242.2 | 19.6 | 0.00 | 1.70 | 0.85 | YES | |
| L0002437 | 0 | 0.28500E-07 | 378250.6 | 3747242.2 | 19.5 | 0.00 | 1.70 | 0.85 | YES | |
| L0002438 | 0 | 0.28500E-07 | 378254.3 | 3747242.2 | 19.5 | 0.00 | 1.70 | 0.85 | YES | |
| L0002439 | 0 | 0.28500E-07 | 378257.9 | 3747242.3 | 19.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0002440 | 0 | 0.28500E-07 | 378261.6 | 3747242.3 | 19.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0002441 | 0 | 0.28500E-07 | 378265.2 | 3747242.3 | 19.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0002442 | 0 | 0.28500E-07 | 378268.9 | 3747242.3 | 19.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0002443 | 0 | 0.28500E-07 | 378272.6 | 3747242.3 | 19.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0002444 | 0 | 0.28500E-07 | 378276.2 | 3747242.3 | 19.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0002445 | 0 | 0.28500E-07 | 378279.9 | 3747242.3 | 19.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0002446 | 0 | 0.28500E-07 | 378283.5 | 3747242.4 | 19.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0002447 | 0 | 0.28500E-07 | 378287.2 | 3747242.4 | 19.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0002448 | 0 | 0.28500E-07 | 378290.9 | 3747242.4 | 19.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0002449 | 0 | 0.28500E-07 | 378294.5 | 3747242.4 | 19.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0002450 | 0 | 0.28500E-07 | 378298.2 | 3747242.4 | 19.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0002451 | 0 | 0.28500E-07 | 378301.8 | 3747242.4 | 19.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0002452 | 0 | 0.28500E-07 | 378305.5 | 3747242.4 | 19.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0002453 | 0 | 0.28500E-07 | 378309.1 | 3747242.5 | 19.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0002454 | 0 | 0.28500E-07 | 378312.8 | 3747242.5 | 19.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0002455 | 0 | 0.28500E-07 | 378316.5 | 3747242.5 | 19.4 | 0.00 | 1.70 | 0.85 | YES | |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| L0002456 | 0 | 0.28500E-07 | 378320.1 | 3747242.5 | 19.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0002457 | 0 | 0.28500E-07 | 378323.8 | 3747242.5 | 19.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0002458 | 0 | 0.28500E-07 | 378327.4 | 3747242.5 | 19.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0002459 | 0 | 0.28500E-07 | 378331.1 | 3747242.5 | 19.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0002460 | 0 | 0.28500E-07 | 378334.7 | 3747242.5 | 19.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0002461 | 0 | 0.28500E-07 | 378338.4 | 3747242.6 | 19.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0002462 | 0 | 0.28500E-07 | 378342.1 | 3747242.6 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |



*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| L0002463 | 0 | 0.28500E-07 | 378345.7 | 3747242.6 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0002464 | 0 | 0.28500E-07 | 378349.4 | 3747242.6 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0002465 | 0 | 0.28500E-07 | 378353.0 | 3747242.6 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0002466 | 0 | 0.28500E-07 | 378356.7 | 3747242.6 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0002467 | 0 | 0.28500E-07 | 378360.3 | 3747242.6 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0002468 | 0 | 0.28500E-07 | 378364.0 | 3747242.7 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0002469 | 0 | 0.28500E-07 | 378367.7 | 3747242.7 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0002470 | 0 | 0.28500E-07 | 378371.3 | 3747242.7 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0002471 | 0 | 0.28500E-07 | 378375.0 | 3747242.7 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0002472 | 0 | 0.28500E-07 | 378378.6 | 3747242.7 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0002473 | 0 | 0.28500E-07 | 378382.3 | 3747242.7 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0002474 | 0 | 0.28500E-07 | 378385.9 | 3747242.7 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0002475 | 0 | 0.28500E-07 | 378389.6 | 3747242.8 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0002476 | 0 | 0.28500E-07 | 378393.3 | 3747242.8 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0002477 | 0 | 0.28500E-07 | 378396.9 | 3747242.8 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0002478 | 0 | 0.28500E-07 | 378400.6 | 3747242.8 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0002479 | 0 | 0.28500E-07 | 378404.2 | 3747242.8 | 19.1 | 0.00 | 1.70 | 0.85 | YES | |
| L0002480 | 0 | 0.28500E-07 | 378407.9 | 3747242.8 | 19.1 | 0.00 | 1.70 | 0.85 | YES | |
| L0002481 | 0 | 0.28500E-07 | 378411.6 | 3747242.8 | 19.1 | 0.00 | 1.70 | 0.85 | YES | |
| L0002482 | 0 | 0.28500E-07 | 378415.2 | 3747242.8 | 19.0 | 0.00 | 1.70 | 0.85 | YES | |
| L0002483 | 0 | 0.28500E-07 | 378418.9 | 3747242.9 | 19.0 | 0.00 | 1.70 | 0.85 | YES | |
| L0002484 | 0 | 0.28500E-07 | 378422.5 | 3747242.9 | 19.0 | 0.00 | 1.70 | 0.85 | YES | |
| L0002485 | 0 | 0.28500E-07 | 378426.2 | 3747242.9 | 19.0 | 0.00 | 1.70 | 0.85 | YES | |
| L0002486 | 0 | 0.28500E-07 | 378429.8 | 3747242.9 | 19.0 | 0.00 | 1.70 | 0.85 | YES | |
| L0002487 | 0 | 0.28500E-07 | 378433.5 | 3747242.9 | 19.1 | 0.00 | 1.70 | 0.85 | YES | |
| L0002488 | 0 | 0.28500E-07 | 378437.2 | 3747242.9 | 19.1 | 0.00 | 1.70 | 0.85 | YES | |
| L0002489 | 0 | 0.28500E-07 | 378440.8 | 3747242.9 | 19.1 | 0.00 | 1.70 | 0.85 | YES | |
| L0002490 | 0 | 0.28500E-07 | 378444.5 | 3747243.0 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0002491 | 0 | 0.28500E-07 | 378448.1 | 3747243.0 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0002492 | 0 | 0.28500E-07 | 378451.8 | 3747243.0 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| L0002493 | 0 | 0.28500E-07 | 378455.4 | 3747243.0 | 19.2 | 0.00 | 1.70 | 0.85 | YES |
| L0002494 | 0 | 0.28500E-07 | 378459.1 | 3747243.0 | 19.2 | 0.00 | 1.70 | 0.85 | YES |
| L0002495 | 0 | 0.28500E-07 | 378462.8 | 3747243.0 | 19.2 | 0.00 | 1.70 | 0.85 | YES |
| L0002496 | 0 | 0.28500E-07 | 378466.4 | 3747243.0 | 19.2 | 0.00 | 1.70 | 0.85 | YES |
| L0002497 | 0 | 0.28500E-07 | 378470.1 | 3747243.1 | 19.2 | 0.00 | 1.70 | 0.85 | YES |
| L0002498 | 0 | 0.28500E-07 | 378473.7 | 3747243.1 | 19.2 | 0.00 | 1.70 | 0.85 | YES |
| L0002499 | 0 | 0.28500E-07 | 378477.4 | 3747243.1 | 19.1 | 0.00 | 1.70 | 0.85 | YES |
| L0002500 | 0 | 0.28500E-07 | 378481.0 | 3747243.1 | 19.1 | 0.00 | 1.70 | 0.85 | YES |
| L0002501 | 0 | 0.28500E-07 | 378484.7 | 3747243.1 | 19.1 | 0.00 | 1.70 | 0.85 | YES |
| L0002502 | 0 | 0.28500E-07 | 378488.4 | 3747243.1 | 19.1 | 0.00 | 1.70 | 0.85 | YES |



*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| L0002503 | 0 | 0.28500E-07 | 378492.0 | 3747243.1 | 19.0 | 0.00 | 1.70 | 0.85 | YES | |
| L0002504 | 0 | 0.28500E-07 | 378495.7 | 3747243.1 | 19.0 | 0.00 | 1.70 | 0.85 | YES | |
| L0002505 | 0 | 0.28500E-07 | 378499.3 | 3747243.2 | 19.0 | 0.00 | 1.70 | 0.85 | YES | |
| L0002506 | 0 | 0.28500E-07 | 378503.0 | 3747243.2 | 19.0 | 0.00 | 1.70 | 0.85 | YES | |
| L0002507 | 0 | 0.28500E-07 | 378506.6 | 3747243.2 | 18.9 | 0.00 | 1.70 | 0.85 | YES | |
| L0002508 | 0 | 0.28500E-07 | 378510.3 | 3747243.2 | 18.9 | 0.00 | 1.70 | 0.85 | YES | |
| L0002509 | 0 | 0.28500E-07 | 378514.0 | 3747243.2 | 18.9 | 0.00 | 1.70 | 0.85 | YES | |
| L0002510 | 0 | 0.28500E-07 | 378517.6 | 3747243.2 | 18.9 | 0.00 | 1.70 | 0.85 | YES | |
| L0002511 | 0 | 0.28500E-07 | 378521.3 | 3747243.2 | 18.9 | 0.00 | 1.70 | 0.85 | YES | |
| L0002512 | 0 | 0.28500E-07 | 378524.9 | 3747243.3 | 18.9 | 0.00 | 1.70 | 0.85 | YES | |
| L0002513 | 0 | 0.28500E-07 | 378528.6 | 3747243.3 | 18.8 | 0.00 | 1.70 | 0.85 | YES | |
| L0002514 | 0 | 0.28500E-07 | 378532.3 | 3747243.3 | 18.8 | 0.00 | 1.70 | 0.85 | YES | |
| L0002515 | 0 | 0.28500E-07 | 378535.9 | 3747243.3 | 18.8 | 0.00 | 1.70 | 0.85 | YES | |
| L0002516 | 0 | 0.28500E-07 | 378539.6 | 3747243.3 | 18.8 | 0.00 | 1.70 | 0.85 | YES | |
| L0002517 | 0 | 0.28500E-07 | 378543.2 | 3747243.3 | 18.8 | 0.00 | 1.70 | 0.85 | YES | |
| L0002518 | 0 | 0.28500E-07 | 378546.9 | 3747243.3 | 18.8 | 0.00 | 1.70 | 0.85 | YES | |
| L0002519 | 0 | 0.28500E-07 | 378550.5 | 3747243.4 | 18.8 | 0.00 | 1.70 | 0.85 | YES | |
| L0002520 | 0 | 0.28500E-07 | 378554.2 | 3747243.4 | 18.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0002521 | 0 | 0.28500E-07 | 378557.9 | 3747243.4 | 18.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0002522 | 0 | 0.28500E-07 | 378561.5 | 3747243.4 | 18.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0002523 | 0 | 0.28500E-07 | 378565.2 | 3747243.4 | 18.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0002524 | 0 | 0.28500E-07 | 378568.8 | 3747243.4 | 18.6 | 0.00 | 1.70 | 0.85 | YES | |
| L0002525 | 0 | 0.28500E-07 | 378572.5 | 3747243.4 | 18.6 | 0.00 | 1.70 | 0.85 | YES | |
| L0002526 | 0 | 0.28500E-07 | 378576.1 | 3747243.4 | 18.6 | 0.00 | 1.70 | 0.85 | YES | |
| L0002527 | 0 | 0.28500E-07 | 378579.8 | 3747243.5 | 18.6 | 0.00 | 1.70 | 0.85 | YES | |
| L0002528 | 0 | 0.28500E-07 | 378583.5 | 3747243.5 | 18.6 | 0.00 | 1.70 | 0.85 | YES | |
| L0002529 | 0 | 0.28500E-07 | 378587.1 | 3747243.5 | 18.6 | 0.00 | 1.70 | 0.85 | YES | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| L0002530 | 0 | 0.28500E-07 | 378590.8 | 3747243.5 | 18.6 | 0.00 | 1.70 | 0.85 | YES |
| L0002531 | 0 | 0.28500E-07 | 378594.4 | 3747243.5 | 18.7 | 0.00 | 1.70 | 0.85 | YES |
| L0002532 | 0 | 0.28500E-07 | 378598.1 | 3747243.5 | 18.7 | 0.00 | 1.70 | 0.85 | YES |
| L0002533 | 0 | 0.28500E-07 | 378601.7 | 3747243.5 | 18.7 | 0.00 | 1.70 | 0.85 | YES |
| L0002534 | 0 | 0.28500E-07 | 378605.4 | 3747243.6 | 18.7 | 0.00 | 1.70 | 0.85 | YES |
| L0002535 | 0 | 0.28500E-07 | 378609.1 | 3747243.6 | 18.7 | 0.00 | 1.70 | 0.85 | YES |
| L0002536 | 0 | 0.28500E-07 | 378612.7 | 3747243.6 | 18.7 | 0.00 | 1.70 | 0.85 | YES |
| L0002537 | 0 | 0.28500E-07 | 378616.4 | 3747243.6 | 18.7 | 0.00 | 1.70 | 0.85 | YES |
| L0002538 | 0 | 0.28500E-07 | 378620.0 | 3747243.6 | 18.7 | 0.00 | 1.70 | 0.85 | YES |
| L0002539 | 0 | 0.28500E-07 | 378623.7 | 3747243.6 | 18.7 | 0.00 | 1.70 | 0.85 | YES |
| L0002540 | 0 | 0.28500E-07 | 378627.3 | 3747243.6 | 18.7 | 0.00 | 1.70 | 0.85 | YES |
| L0002541 | 0 | 0.28500E-07 | 378631.0 | 3747243.7 | 18.7 | 0.00 | 1.70 | 0.85 | YES |
| L0002542 | 0 | 0.28500E-07 | 378634.7 | 3747243.7 | 18.7 | 0.00 | 1.70 | 0.85 | YES |



*** 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| L0002543 | 0 | 0.28500E-07 | 378638.3 | 3747243.7 | 18.6 | 0.00 | 1.70 | 0.85 | YES | |
| L0002544 | 0 | 0.28500E-07 | 378642.0 | 3747243.7 | 18.6 | 0.00 | 1.70 | 0.85 | YES | |
| L0002545 | 0 | 0.28500E-07 | 378645.6 | 3747243.7 | 18.6 | 0.00 | 1.70 | 0.85 | YES | |
| L0002546 | 0 | 0.28500E-07 | 378649.3 | 3747243.7 | 18.6 | 0.00 | 1.70 | 0.85 | YES | |
| L0002547 | 0 | 0.28500E-07 | 378653.0 | 3747243.7 | 18.5 | 0.00 | 1.70 | 0.85 | YES | |
| L0002548 | 0 | 0.28500E-07 | 378656.6 | 3747243.8 | 18.5 | 0.00 | 1.70 | 0.85 | YES | |
| L0002549 | 0 | 0.28500E-07 | 378660.3 | 3747243.8 | 18.5 | 0.00 | 1.70 | 0.85 | YES | |
| L0002550 | 0 | 0.28500E-07 | 378663.9 | 3747243.8 | 18.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0002551 | 0 | 0.28500E-07 | 378667.6 | 3747243.8 | 18.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0002552 | 0 | 0.28500E-07 | 378671.2 | 3747243.8 | 18.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0002553 | 0 | 0.28500E-07 | 378674.9 | 3747243.8 | 18.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0002554 | 0 | 0.28500E-07 | 378678.6 | 3747243.8 | 18.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0002555 | 0 | 0.28500E-07 | 378682.2 | 3747243.8 | 18.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0002556 | 0 | 0.28500E-07 | 378685.9 | 3747243.9 | 18.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0002557 | 0 | 0.28500E-07 | 378689.5 | 3747243.9 | 18.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0002558 | 0 | 0.28500E-07 | 378693.2 | 3747243.9 | 18.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0002559 | 0 | 0.28500E-07 | 378696.8 | 3747243.9 | 18.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0002560 | 0 | 0.28500E-07 | 378700.5 | 3747243.9 | 18.4 | 0.00 | 1.70 | 0.85 | YES | |

*** SOURCE IDs DEFINING SOURCE GROUPS ***

| SRCGROUP ID | SOURCE IDs |
|---|---|
| ALL | STCK1 , STCK2 , STCK3 , STCK4 , STCK5 , STCK6 , 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 , L0001805 , |
| | L0001806 , L0001807 , L0001808 , L0001809 , L0001810 , L0001811 , L0001812 , L0001813 , |
| | L0001814 , L0001815 , L0001816 , L0001817 , L0001818 , L0001819 , L0001820 , L0001821 , |
| | L0001822 , L0001823 , L0001824 , L0001825 , L0001826 , L0001827 , L0001828 , L0001829 , |
| | L0001830 , L0001831 , L0001832 , L0001833 , L0001834 , L0001835 , L0001836 , L0001837 , |
| | L0001838 , L0001839 , L0001840 , L0001841 , L0001842 , L0001843 , L0001844 , L0001845 , |
| | L0001846 , L0001847 , L0001848 , L0001849 , L0001850 , L0001851 , L0001852 , L0001853 , |
| | L0001854 , L0001855 , L0001856 , L0001857 , L0001858 , L0001859 , L0001860 , L0001861 , |
| | L0001862 , L0001863 , L0001864 , L0001865 , L0001866 , L0001867 , L0001868 , L0001869 , |
| | L0001870 , L0001871 , L0001872 , L0001873 , L0001874 , L0001875 , L0001876 , L0001877 , |
| | L0001878 , L0001879 , L0001880 , L0001881 , L0001882 , L0001883 , L0001884 , L0001885 , |
| | L0001886 , L0001887 , L0001888 , L0001889 , L0001890 , L0001891 , L0001892 , L0001893 , |
| | L0001894 , L0001895 , L0001896 , L0001897 , L0001898 , L0001899 , L0001900 , L0001901 , |



*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

| SRCGROUP ID | SOURCE IDs |
|---|---|
| | L0001902 , L0001903 , L0001904 , L0001905 , L0001906 , L0001907 , L0001908 , L0001909 , |
| | L0001910 , L0001911 , L0001912 , L0001913 , L0001914 , L0001915 , L0001916 , L0001917 , |
| | L0001918 , L0001919 , L0001920 , L0001921 , L0001922 , L0001923 , L0001924 , L0001925 , |
| | L0001926 , L0001927 , L0001928 , L0001929 , L0001930 , L0001931 , L0001932 , L0001933 , |
| | L0001934 , L0001935 , L0001936 , L0001937 , L0001938 , L0001939 , L0001940 , L0001941 , |
| | L0001942 , L0001943 , L0001944 , L0001945 , L0001946 , L0001947 , L0001948 , L0001949 , |
| | L0001950 , L0001951 , L0001952 , L0001953 , L0001954 , L0001955 , L0001956 , L0001957 , |
| | L0001958 , L0001959 , L0001960 , L0001961 , L0001962 , L0001963 , L0001964 , L0001965 , |
| | L0001966 , L0001967 , L0001968 , L0001969 , L0001970 , L0001971 , L0001972 , L0001973 , |
| | L0001974 , L0001975 , L0001976 , L0001977 , L0001978 , L0001979 , L0001980 , L0001981 , |
| | L0001982 , L0001983 , L0001984 , L0001985 , L0001986 , L0001987 , L0001988 , L0001989 , |
| | L0002561 , L0002562 , L0002563 , L0002564 , L0002565 , L0002566 , L0002567 , L0002568 , |
| | L0002569 , L0002570 , L0002571 , L0002572 , L0002573 , L0002574 , L0002575 , L0002576 , |
| | L0002577 , L0002578 , L0002579 , L0002580 , L0002581 , L0002582 , L0002583 , L0002584 , |
| | L0002585 , L0002586 , L0002587 , L0002588 , L0002589 , L0002590 , L0002591 , L0002592 , |
| | L0002593 , L0002594 , L0002595 , L0002596 , L0002597 , L0002598 , L0002599 , L0002600 , |
| | L0002601 , L0002602 , L0002603 , L0002604 , L0002605 , L0002606 , L0002607 , L0002608 , |
| | L0002609 , L0002610 , L0002611 , L0002612 , L0002613 , L0002614 , L0002615 , L0002616 , |
| | L0002617 , L0002618 , L0002619 , L0002620 , L0002621 , L0002622 , L0002623 , L0002624 , |
| | L0002625 , L0002626 , L0002627 , L0002628 , L0002629 , L0002630 , L0002631 , L0002632 , |

*** MODELOPTs:  RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

| SRCGROUP ID | SOURCE IDs |
|---|---|
| | L0002633 , L0002634 , L0002635 , L0002140 , L0002141 , L0002142 , L0002143 , L0002144 , |
| | L0002145 , L0002146 , L0002147 , L0002148 , L0002149 , L0002150 , L0002151 , L0002152 , |
| | L0002153 , L0002154 , L0002155 , L0002156 , L0002157 , L0002158 , L0002159 , L0002160 , |
| | L0002161 , L0002162 , L0002163 , L0002164 , L0002165 , L0002166 , L0002167 , L0002168 , |
| | L0002169 , L0002170 , L0002171 , L0002172 , L0002173 , L0002174 , L0002175 , L0002176 , |
| | L0002177 , L0002178 , L0002179 , L0002180 , L0002181 , L0002182 , L0002183 , L0002184 , |
| | L0002185 , L0002186 , L0002187 , L0002188 , L0002189 , L0002190 , L0002191 , L0002192 , |
| | L0002193 , L0002194 , L0002195 , L0002196 , L0002197 , L0002198 , L0002199 , L0002200 , |
| | L0002201 , L0002202 , L0002203 , L0002204 , L0002205 , L0002206 , L0002207 , L0002208 , |
| | L0002209 , L0002210 , L0002211 , L0002212 , L0002213 , L0002214 , L0002215 , L0002216 , |
| | L0002217 , L0002218 , L0002219 , L0002220 , L0002221 , L0002222 , L0002223 , L0002224 , |
| | L0002225 , L0002226 , L0002227 , L0002228 , L0002229 , L0002230 , L0002231 , L0002232 , |
| | L0002233 , L0002234 , L0002235 , L0002236 , L0002237 , L0002238 , L0002239 , L0002240 , |
| | L0002241 , L0002242 , L0002243 , L0002244 , L0002245 , L0002246 , L0002247 , L0002248 , |
| | L0002249 , L0002250 , L0002251 , L0002252 , L0002253 , L0002254 , L0002255 , L0002256 , |
| | L0002257 , L0002258 , L0002259 , L0002260 , L0002261 , L0002262 , L0002263 , L0002264 , |
| | L0002265 , L0002266 , L0002267 , L0002268 , L0002269 , L0002270 , L0002271 , L0002272 , |
| | L0002273 , L0002274 , L0002275 , L0002276 , L0002277 , L0002278 , L0002279 , L0002280 , |
| | L0002281 , L0002282 , L0002283 , L0002284 , L0002285 , L0002286 , L0002287 , L0002288 , |
| | L0002289 , L0002290 , L0002291 , L0002292 , L0002293 , L0002294 , L0002295 , L0002296 , |

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

| SRCGROUP ID | SOURCE IDs |
|---|---|
| | L0002297 , L0002298 , L0002299 , L0002300 , L0002301 , L0002302 , L0002303 , L0002304 , |
| | L0002305 , L0002306 , L0002307 , L0002308 , L0002309 , L0002310 , L0002311 , L0002312 , |
| | L0002313 , L0002314 , L0002315 , L0002316 , L0002317 , L0002318 , L0002319 , L0002320 , |
| | L0002321 , L0002322 , L0002323 , L0002324 , L0002325 , L0002326 , L0002327 , L0002328 , |
| | L0002329 , L0002330 , L0002331 , L0002332 , L0002333 , L0002334 , L0002335 , L0002336 , |
| | L0002337 , L0002338 , L0002339 , L0002340 , L0002341 , L0002342 , L0002343 , L0002344 , |
| | L0002345 , L0002346 , L0002347 , L0002348 , L0002349 , L0002350 , L0002351 , L0002352 , |
| | L0002353 , L0002354 , L0002355 , L0002356 , L0002357 , L0002358 , L0002359 , L0002360 , |
| | L0002361 , L0002362 , L0002363 , L0002364 , L0002365 , L0002366 , L0002367 , L0002368 , |
| | L0002369 , L0002370 , L0002371 , L0002372 , L0002373 , L0002374 , L0002375 , L0002376 , |
| | L0002377 , L0002378 , L0002379 , L0002380 , L0002381 , L0002382 , L0002383 , L0002384 , |
| | L0002385 , L0002386 , L0002387 , L0002388 , L0002389 , L0002390 , L0002391 , L0002392 , |
| | L0002393 , L0002394 , L0002395 , L0002396 , L0002397 , L0002398 , L0002399 , L0002400 , |
| | L0002401 , L0002402 , L0002403 , L0002404 , L0002405 , L0002406 , L0002407 , L0002408 , |
| | L0002409 , L0002410 , L0002411 , L0002412 , L0002413 , L0002414 , L0002415 , L0002416 , |
| | L0002417 , L0002418 , L0002419 , L0002420 , L0002421 , L0002422 , L0002423 , L0002424 , |
| | L0002425 , L0002426 , L0002427 , L0002428 , L0002429 , L0002430 , L0002431 , L0002432 , |
| | L0002433 , L0002434 , L0002435 , L0002436 , L0002437 , L0002438 , L0002439 , L0002440 , |
| | L0002441 , L0002442 , L0002443 , L0002444 , L0002445 , L0002446 , L0002447 , L0002448 , |
| | L0002449 , L0002450 , L0002451 , L0002452 , L0002453 , L0002454 , L0002455 , L0002456 , |

```
*** AERMET - VERSION  16216 ***   *** DPM concentrations first 14YR Exposure                          ***        07:52:35
                                                                                                                PAGE  26
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                    *** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID                                          SOURCE IDs
-----------                                          ----------

           L0002457    , L0002458    , L0002459    , L0002460    , L0002461    , L0002462    , L0002463    , L0002464    ,

           L0002465    , L0002466    , L0002467    , L0002468    , L0002469    , L0002470    , L0002471    , L0002472    ,

           L0002473    , L0002474    , L0002475    , L0002476    , L0002477    , L0002478    , L0002479    , L0002480    ,

           L0002481    , L0002482    , L0002483    , L0002484    , L0002485    , L0002486    , L0002487    , L0002488    ,

           L0002489    , L0002490    , L0002491    , L0002492    , L0002493    , L0002494    , L0002495    , L0002496    ,

           L0002497    , L0002498    , L0002499    , L0002500    , L0002501    , L0002502    , L0002503    , L0002504    ,

           L0002505    , L0002506    , L0002507    , L0002508    , L0002509    , L0002510    , L0002511    , L0002512    ,

           L0002513    , L0002514    , L0002515    , L0002516    , L0002517    , L0002518    , L0002519    , L0002520    ,

           L0002521    , L0002522    , L0002523    , L0002524    , L0002525    , L0002526    , L0002527    , L0002528    ,

           L0002529    , L0002530    , L0002531    , L0002532    , L0002533    , L0002534    , L0002535    , L0002536    ,

           L0002537    , L0002538    , L0002539    , L0002540    , L0002541    , L0002542    , L0002543    , L0002544    ,

           L0002545    , L0002546    , L0002547    , L0002548    , L0002549    , L0002550    , L0002551    , L0002552    ,

           L0002553    , L0002554    , L0002555    , L0002556    , L0002557    , L0002558    , L0002559    , L0002560    ,

*** AERMOD - VERSION  19191 ***   *** 190th St Warehouse 2025-2039                                    ***        05/15/20
*** AERMET - VERSION  16216 ***   *** DPM concentrations first 14YR Exposure                          ***        07:52:35
                                                                                                                PAGE  27
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                    *** SOURCE IDs DEFINED AS URBAN SOURCES ***

 URBAN ID   URBAN POP                                SOURCE IDs
 --------   ---------                                ----------

            9818605.   STCK1       , STCK2       , STCK3       , STCK4       , STCK5       , STCK6       , 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    , L0001805    ,
           L0001806    , L0001807    , L0001808    , L0001809    , L0001810    , L0001811    , L0001812    , L0001813    ,
           L0001814    , L0001815    , L0001816    , L0001817    , L0001818    , L0001819    , L0001820    , L0001821    ,
           L0001822    , L0001823    , L0001824    , L0001825    , L0001826    , L0001827    , L0001828    , L0001829    ,
           L0001830    , L0001831    , L0001832    , L0001833    , L0001834    , L0001835    , L0001836    , L0001837    ,
           L0001838    , L0001839    , L0001840    , L0001841    , L0001842    , L0001843    , L0001844    , L0001845    ,
           L0001846    , L0001847    , L0001848    , L0001849    , L0001850    , L0001851    , L0001852    , L0001853    ,
           L0001854    , L0001855    , L0001856    , L0001857    , L0001858    , L0001859    , L0001860    , L0001861    ,
           L0001862    , L0001863    , L0001864    , L0001865    , L0001866    , L0001867    , L0001868    , L0001869    ,
           L0001870    , L0001871    , L0001872    , L0001873    , L0001874    , L0001875    , L0001876    , L0001877    ,
           L0001878    , L0001879    , L0001880    , L0001881    , L0001882    , L0001883    , L0001884    , L0001885    ,
           L0001886    , L0001887    , L0001888    , L0001889    , L0001890    , L0001891    , L0001892    , L0001893    ,
           L0001894    , L0001895    , L0001896    , L0001897    , L0001898    , L0001899    , L0001900    , L0001901    ,
```



*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

| URBAN ID | URBAN POP | SOURCE IDs |
|---|---|---|

```
           L0001902    , L0001903    , L0001904    , L0001905    , L0001906    , L0001907    , L0001908    , L0001909    ,
           L0001910    , L0001911    , L0001912    , L0001913    , L0001914    , L0001915    , L0001916    , L0001917    ,
           L0001918    , L0001919    , L0001920    , L0001921    , L0001922    , L0001923    , L0001924    , L0001925    ,
           L0001926    , L0001927    , L0001928    , L0001929    , L0001930    , L0001931    , L0001932    , L0001933    ,
           L0001934    , L0001935    , L0001936    , L0001937    , L0001938    , L0001939    , L0001940    , L0001941    ,
           L0001942    , L0001943    , L0001944    , L0001945    , L0001946    , L0001947    , L0001948    , L0001949    ,
           L0001950    , L0001951    , L0001952    , L0001953    , L0001954    , L0001955    , L0001956    , L0001957    ,
           L0001958    , L0001959    , L0001960    , L0001961    , L0001962    , L0001963    , L0001964    , L0001965    ,
           L0001966    , L0001967    , L0001968    , L0001969    , L0001970    , L0001971    , L0001972    , L0001973    ,
           L0001974    , L0001975    , L0001976    , L0001977    , L0001978    , L0001979    , L0001980    , L0001981    ,
           L0001982    , L0001983    , L0001984    , L0001985    , L0001986    , L0001987    , L0001988    , L0001989    ,
           L0002561    , L0002562    , L0002563    , L0002564    , L0002565    , L0002566    , L0002567    , L0002568    ,
           L0002569    , L0002570    , L0002571    , L0002572    , L0002573    , L0002574    , L0002575    , L0002576    ,
           L0002577    , L0002578    , L0002579    , L0002580    , L0002581    , L0002582    , L0002583    , L0002584    ,
           L0002585    , L0002586    , L0002587    , L0002588    , L0002589    , L0002590    , L0002591    , L0002592    ,
           L0002593    , L0002594    , L0002595    , L0002596    , L0002597    , L0002598    , L0002599    , L0002600    ,
           L0002601    , L0002602    , L0002603    , L0002604    , L0002605    , L0002606    , L0002607    , L0002608    ,
           L0002609    , L0002610    , L0002611    , L0002612    , L0002613    , L0002614    , L0002615    , L0002616    ,
           L0002617    , L0002618    , L0002619    , L0002620    , L0002621    , L0002622    , L0002623    , L0002624    ,
           L0002625    , L0002626    , L0002627    , L0002628    , L0002629    , L0002630    , L0002631    , L0002632    ,
```



*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

| URBAN ID | URBAN POP | SOURCE IDs |
|---|---|---|

```
           L0002633    , L0002634    , L0002635    , L0002140    , L0002141    , L0002142    , L0002143    , L0002144    ,
           L0002145    , L0002146    , L0002147    , L0002148    , L0002149    , L0002150    , L0002151    , L0002152    ,
           L0002153    , L0002154    , L0002155    , L0002156    , L0002157    , L0002158    , L0002159    , L0002160    ,
           L0002161    , L0002162    , L0002163    , L0002164    , L0002165    , L0002166    , L0002167    , L0002168    ,
           L0002169    , L0002170    , L0002171    , L0002172    , L0002173    , L0002174    , L0002175    , L0002176    ,
           L0002177    , L0002178    , L0002179    , L0002180    , L0002181    , L0002182    , L0002183    , L0002184    ,
           L0002185    , L0002186    , L0002187    , L0002188    , L0002189    , L0002190    , L0002191    , L0002192    ,
           L0002193    , L0002194    , L0002195    , L0002196    , L0002197    , L0002198    , L0002199    , L0002200    ,
           L0002201    , L0002202    , L0002203    , L0002204    , L0002205    , L0002206    , L0002207    , L0002208    ,
           L0002209    , L0002210    , L0002211    , L0002212    , L0002213    , L0002214    , L0002215    , L0002216    ,
           L0002217    , L0002218    , L0002219    , L0002220    , L0002221    , L0002222    , L0002223    , L0002224    ,
           L0002225    , L0002226    , L0002227    , L0002228    , L0002229    , L0002230    , L0002231    , L0002232    ,
           L0002233    , L0002234    , L0002235    , L0002236    , L0002237    , L0002238    , L0002239    , L0002240    ,
           L0002241    , L0002242    , L0002243    , L0002244    , L0002245    , L0002246    , L0002247    , L0002248    ,
           L0002249    , L0002250    , L0002251    , L0002252    , L0002253    , L0002254    , L0002255    , L0002256    ,
           L0002257    , L0002258    , L0002259    , L0002260    , L0002261    , L0002262    , L0002263    , L0002264    ,
           L0002265    , L0002266    , L0002267    , L0002268    , L0002269    , L0002270    , L0002271    , L0002272    ,
           L0002273    , L0002274    , L0002275    , L0002276    , L0002277    , L0002278    , L0002279    , L0002280    ,
           L0002281    , L0002282    , L0002283    , L0002284    , L0002285    , L0002286    , L0002287    , L0002288    ,
           L0002289    , L0002290    , L0002291    , L0002292    , L0002293    , L0002294    , L0002295    , L0002296    ,
```



*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

| URBAN ID | URBAN POP | SOURCE IDs |
|---|---|---|

L0002297 , L0002298 , L0002299 , L0002300 , L0002301 , L0002302 , L0002303 , L0002304 ,
L0002305 , L0002306 , L0002307 , L0002308 , L0002309 , L0002310 , L0002311 , L0002312 ,
L0002313 , L0002314 , L0002315 , L0002316 , L0002317 , L0002318 , L0002319 , L0002320 ,
L0002321 , L0002322 , L0002323 , L0002324 , L0002325 , L0002326 , L0002327 , L0002328 ,
L0002329 , L0002330 , L0002331 , L0002332 , L0002333 , L0002334 , L0002335 , L0002336 ,
L0002337 , L0002338 , L0002339 , L0002340 , L0002341 , L0002342 , L0002343 , L0002344 ,
L0002345 , L0002346 , L0002347 , L0002348 , L0002349 , L0002350 , L0002351 , L0002352 ,
L0002353 , L0002354 , L0002355 , L0002356 , L0002357 , L0002358 , L0002359 , L0002360 ,
L0002361 , L0002362 , L0002363 , L0002364 , L0002365 , L0002366 , L0002367 , L0002368 ,
L0002369 , L0002370 , L0002371 , L0002372 , L0002373 , L0002374 , L0002375 , L0002376 ,
L0002377 , L0002378 , L0002379 , L0002380 , L0002381 , L0002382 , L0002383 , L0002384 ,
L0002385 , L0002386 , L0002387 , L0002388 , L0002389 , L0002390 , L0002391 , L0002392 ,
L0002393 , L0002394 , L0002395 , L0002396 , L0002397 , L0002398 , L0002399 , L0002400 ,
L0002401 , L0002402 , L0002403 , L0002404 , L0002405 , L0002406 , L0002407 , L0002408 ,
L0002409 , L0002410 , L0002411 , L0002412 , L0002413 , L0002414 , L0002415 , L0002416 ,
L0002417 , L0002418 , L0002419 , L0002420 , L0002421 , L0002422 , L0002423 , L0002424 ,
L0002425 , L0002426 , L0002427 , L0002428 , L0002429 , L0002430 , L0002431 , L0002432 ,
L0002433 , L0002434 , L0002435 , L0002436 , L0002437 , L0002438 , L0002439 , L0002440 ,
L0002441 , L0002442 , L0002443 , L0002444 , L0002445 , L0002446 , L0002447 , L0002448 ,
L0002449 , L0002450 , L0002451 , L0002452 , L0002453 , L0002454 , L0002455 , L0002456 ,



*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID URBAN POP SOURCE IDs

```
--------   ---------                                  ----------

           L0002457    , L0002458    , L0002459    , L0002460    , L0002461    , L0002462    , L0002463    , L0002464    ,

           L0002465    , L0002466    , L0002467    , L0002468    , L0002469    , L0002470    , L0002471    , L0002472    ,

           L0002473    , L0002474    , L0002475    , L0002476    , L0002477    , L0002478    , L0002479    , L0002480    ,

           L0002481    , L0002482    , L0002483    , L0002484    , L0002485    , L0002486    , L0002487    , L0002488    ,

           L0002489    , L0002490    , L0002491    , L0002492    , L0002493    , L0002494    , L0002495    , L0002496    ,

           L0002497    , L0002498    , L0002499    , L0002500    , L0002501    , L0002502    , L0002503    , L0002504    ,

           L0002505    , L0002506    , L0002507    , L0002508    , L0002509    , L0002510    , L0002511    , L0002512    ,

           L0002513    , L0002514    , L0002515    , L0002516    , L0002517    , L0002518    , L0002519    , L0002520    ,

           L0002521    , L0002522    , L0002523    , L0002524    , L0002525    , L0002526    , L0002527    , L0002528    ,

           L0002529    , L0002530    , L0002531    , L0002532    , L0002533    , L0002534    , L0002535    , L0002536    ,

           L0002537    , L0002538    , L0002539    , L0002540    , L0002541    , L0002542    , L0002543    , L0002544    ,

           L0002545    , L0002546    , L0002547    , L0002548    , L0002549    , L0002550    , L0002551    , L0002552    ,

           L0002553    , L0002554    , L0002555    , L0002556    , L0002557    , L0002558    , L0002559    , L0002560    ,
```



```
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                    *** DIRECTION SPECIFIC BUILDING DIMENSIONS ***


SOURCE ID: STCK1
 IFV    BH      BW      BL     XADJ    YADJ     IFV    BH      BW      BL     XADJ    YADJ
   1   11.0,  264.0,  144.2, -115.4,  -95.0,      2   11.0,  270.4,  176.8, -116.8, -100.6,
   3   11.0,  268.6,  205.8, -114.6, -103.1,      4   11.0,  258.7,  231.8, -109.0, -102.5,
   5   11.0,  240.8,  250.8, -100.0,  -98.8,      6   11.0,  215.7,  262.1,  -88.0,  -92.1,
   7   11.0,  184.0,  265.5,  -73.4,  -82.6,      8   11.0,  146.7,  260.9,  -56.5,  -70.5,
   9   11.0,  107.2,  249.6,  -38.2,  -56.8,     10   11.0,  144.2,  264.0,  -37.0,  -43.3,
  11   11.0,  176.8,  270.4,  -34.6,  -28.4,     12   11.0,  205.8,  268.6,  -31.2,  -11.7,
  13   11.0,  231.8,  258.7,  -26.8,    6.9,     14   11.0,  250.8,  240.8,  -21.6,   25.4,
  15   11.0,  262.1,  215.7,  -15.8,   43.0,     16   11.0,  265.5,  184.0,   -9.4,   59.4,
  17   11.0,  260.9,  146.7,   -2.8,   73.9,     18   11.0,  249.6,  107.2,    3.2,   86.6,
  19   11.0,  264.0,  144.2,  -28.9,   95.0,     20   11.0,  270.4,  176.8,  -60.0,  100.6,
  21   11.0,  268.6,  205.8,  -91.1,  103.1,     22   11.0,  258.7,  231.8, -122.8,  102.5,
  23   11.0,  240.8,  250.8, -150.7,   98.8,     24   11.0,  215.7,  262.1, -174.1,   92.1,
```

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 25 | 11.0, | 184.0, | 265.5, | -192.2, | 82.6, | 26 | 11.0, | 146.7, | 260.9, | -204.4, | 70.5, |
| 27 | 11.0, | 107.2, | 249.6, | -211.4, | 56.8, | 28 | 11.0, | 144.2, | 264.0, | -227.1, | 43.3, |
| 29 | 11.0, | 176.8, | 270.4, | -235.8, | 28.4, | 30 | 11.0, | 205.8, | 268.6, | -237.5, | 11.7, |
| 31 | 11.0, | 231.8, | 258.7, | -231.9, | -6.9, | 32 | 11.0, | 250.8, | 240.8, | -219.2, | -25.4, |
| 33 | 11.0, | 262.1, | 215.7, | -199.9, | -43.0, | 34 | 11.0, | 265.5, | 184.0, | -174.6, | -59.4, |
| 35 | 11.0, | 260.9, | 146.7, | -143.9, | -73.9, | 36 | 11.0, | 249.6, | 107.2, | -110.5, | -86.6, |

SOURCE ID: STCK2

| IFV | BH | BW | BL | XADJ | YADJ | IFV | BH | BW | BL | XADJ | YADJ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 11.0, | 264.0, | 144.2, | -121.7, | -64.8, | 2 | 11.0, | 270.4, | 176.8, | -128.2, | -72.0, |
| 3 | 11.0, | 268.6, | 205.8, | -130.9, | -76.9, | 4 | 11.0, | 258.7, | 231.8, | -129.6, | -79.5, |
| 5 | 11.0, | 240.8, | 250.8, | -124.3, | -79.7, | 6 | 11.0, | 215.7, | 262.1, | -115.3, | -77.5, |
| 7 | 11.0, | 184.0, | 265.5, | -102.7, | -72.9, | 8 | 11.0, | 146.7, | 260.9, | -87.1, | -66.1, |
| 9 | 11.0, | 107.2, | 249.6, | -69.1, | -57.8, | 10 | 11.0, | 144.2, | 264.0, | -67.2, | -49.6, |
| 11 | 11.0, | 176.8, | 270.4, | -63.3, | -39.8, | 12 | 11.0, | 205.8, | 268.6, | -57.4, | -28.0, |
| 13 | 11.0, | 231.8, | 258.7, | -49.8, | -13.7, | 14 | 11.0, | 250.8, | 240.8, | -40.7, | 1.1, |
| 15 | 11.0, | 262.1, | 215.7, | -30.4, | 15.8, | 16 | 11.0, | 265.5, | 184.0, | -19.1, | 30.0, |
| 17 | 11.0, | 260.9, | 146.7, | -7.2, | 43.4, | 18 | 11.0, | 249.6, | 107.2, | 4.2, | 55.7, |
| 19 | 11.0, | 264.0, | 144.2, | -22.5, | 64.8, | 20 | 11.0, | 270.4, | 176.8, | -48.6, | 72.0, |
| 21 | 11.0, | 268.6, | 205.8, | -74.9, | 76.9, | 22 | 11.0, | 258.7, | 231.8, | -102.2, | 79.5, |
| 23 | 11.0, | 240.8, | 250.8, | -126.5, | 79.7, | 24 | 11.0, | 215.7, | 262.1, | -146.9, | 77.5, |
| 25 | 11.0, | 184.0, | 265.5, | -162.8, | 72.9, | 26 | 11.0, | 146.7, | 260.9, | -173.8, | 66.1, |
| 27 | 11.0, | 107.2, | 249.6, | -180.5, | 57.8, | 28 | 11.0, | 144.2, | 264.0, | -196.8, | 49.6, |
| 29 | 11.0, | 176.8, | 270.4, | -207.2, | 39.8, | 30 | 11.0, | 205.8, | 268.6, | -211.2, | 28.0, |
| 31 | 11.0, | 231.8, | 258.7, | -208.8, | 13.7, | 32 | 11.0, | 250.8, | 240.8, | -200.1, | -1.1, |
| 33 | 11.0, | 262.1, | 215.7, | -185.3, | -15.8, | 34 | 11.0, | 265.5, | 184.0, | -164.9, | -30.0, |
| 35 | 11.0, | 260.9, | 146.7, | -139.5, | -43.4, | 36 | 11.0, | 249.6, | 107.2, | -111.4, | -55.7, |

SOURCE ID: STCK3

| IFV | BH | BW | BL | XADJ | YADJ | IFV | BH | BW | BL | XADJ | YADJ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 11.0, | 264.0, | 144.2, | -126.6, | -38.6, | 2 | 11.0, | 270.4, | 176.8, | -137.7, | -47.0, |
| 3 | 11.0, | 268.6, | 205.8, | -144.5, | -54.0, | 4 | 11.0, | 258.7, | 231.8, | -146.9, | -59.3, |
| 5 | 11.0, | 240.8, | 250.8, | -144.9, | -62.8, | 6 | 11.0, | 215.7, | 262.1, | -138.5, | -64.5, |
| 7 | 11.0, | 184.0, | 265.5, | -127.9, | -64.1, | 8 | 11.0, | 146.7, | 260.9, | -113.4, | -61.8, |
| 9 | 11.0, | 107.2, | 249.6, | -95.7, | -58.1, | 10 | 11.0, | 144.2, | 264.0, | -93.4, | -54.5, |
| 11 | 11.0, | 176.8, | 270.4, | -88.2, | -49.2, | 12 | 11.0, | 205.8, | 268.6, | -80.3, | -41.6, |
| 13 | 11.0, | 231.8, | 258.7, | -70.0, | -31.1, | 14 | 11.0, | 250.8, | 240.8, | -57.6, | -19.6, |
| 15 | 11.0, | 262.1, | 215.7, | -43.4, | -7.4, | 16 | 11.0, | 265.5, | 184.0, | -27.9, | 4.9, |
| 17 | 11.0, | 260.9, | 146.7, | -11.5, | 17.1, | 18 | 11.0, | 249.6, | 107.2, | 4.5, | 29.1, |
| 19 | 11.0, | 264.0, | 144.2, | -17.6, | 38.6, | 20 | 11.0, | 270.4, | 176.8, | -39.1, | 47.0, |
| 21 | 11.0, | 268.6, | 205.8, | -61.3, | 54.0, | 22 | 11.0, | 258.7, | 231.8, | -84.8, | 59.3, |
| 23 | 11.0, | 240.8, | 250.8, | -105.8, | 62.8, | 24 | 11.0, | 215.7, | 262.1, | -123.6, | 64.5, |
| 25 | 11.0, | 184.0, | 265.5, | -137.7, | 64.1, | 26 | 11.0, | 146.7, | 260.9, | -147.5, | 61.8, |
| 27 | 11.0, | 107.2, | 249.6, | -153.8, | 58.1, | 28 | 11.0, | 144.2, | 264.0, | -170.6, | 54.5, |
| 29 | 11.0, | 176.8, | 270.4, | -182.2, | 49.2, | 30 | 11.0, | 205.8, | 268.6, | -188.3, | 41.6, |
| 31 | 11.0, | 231.8, | 258.7, | -188.6, | 31.1, | 32 | 11.0, | 250.8, | 240.8, | -183.2, | 19.6, |
| 33 | 11.0, | 262.1, | 215.7, | -172.3, | 7.4, | 34 | 11.0, | 265.5, | 184.0, | -156.1, | -4.9, |
| 35 | 11.0, | 260.9, | 146.7, | -135.2, | -17.1, | 36 | 11.0, | 249.6, | 107.2, | -111.8, | -29.1, |

SOURCE ID: STCK4

| IFV | BH | BW | BL | XADJ | YADJ | IFV | BH | BW | BL | XADJ | YADJ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 11.0, | 264.0, | 144.2, | -132.0, | -8.2, | 2 | 11.0, | 270.4, | 176.8, | -148.2, | -18.0, |
| 3 | 11.0, | 268.6, | 205.8, | -159.9, | -27.2, | 4 | 11.0, | 258.7, | 231.8, | -166.8, | -35.7, |
| 5 | 11.0, | 240.8, | 250.8, | -168.6, | -43.0, | 6 | 11.0, | 215.7, | 262.1, | -165.2, | -49.0, |
| 7 | 11.0, | 184.0, | 265.5, | -156.9, | -53.5, | 8 | 11.0, | 146.7, | 260.9, | -143.8, | -56.5, |
| 9 | 11.0, | 107.2, | 249.6, | -126.6, | -58.1, | 10 | 11.0, | 144.2, | 264.0, | -123.8, | -59.9, |
| 11 | 11.0, | 176.8, | 270.4, | -117.2, | -59.8, | 12 | 11.0, | 205.8, | 268.6, | -107.0, | -57.0, |
| 13 | 11.0, | 231.8, | 258.7, | -93.7, | -50.9, | 14 | 11.0, | 250.8, | 240.8, | -77.4, | -43.2, |
| 15 | 11.0, | 262.1, | 215.7, | -58.8, | -34.2, | 16 | 11.0, | 265.5, | 184.0, | -38.4, | -24.1, |
| 17 | 11.0, | 260.9, | 146.7, | -16.9, | -13.3, | 18 | 11.0, | 249.6, | 107.2, | 4.5, | -1.8, |
| 19 | 11.0, | 264.0, | 144.2, | -12.2, | 8.2, | 20 | 11.0, | 270.4, | 176.8, | -28.6, | 18.0, |
| 21 | 11.0, | 268.6, | 205.8, | -45.8, | 27.2, | 22 | 11.0, | 258.7, | 231.8, | -65.0, | 35.7, |
| 23 | 11.0, | 240.8, | 250.8, | -82.2, | 43.0, | 24 | 11.0, | 215.7, | 262.1, | -96.9, | 49.0, |
| 25 | 11.0, | 184.0, | 265.5, | -108.6, | 53.5, | 26 | 11.0, | 146.7, | 260.9, | -117.1, | 56.5, |
| 27 | 11.0, | 107.2, | 249.6, | -123.0, | 58.1, | 28 | 11.0, | 144.2, | 264.0, | -140.2, | 59.9, |
| 29 | 11.0, | 176.8, | 270.4, | -153.2, | 59.8, | 30 | 11.0, | 205.8, | 268.6, | -161.6, | 57.0, |
| 31 | 11.0, | 231.8, | 258.7, | -165.0, | 50.9, | 32 | 11.0, | 250.8, | 240.8, | -163.4, | 43.2, |
| 33 | 11.0, | 262.1, | 215.7, | -156.9, | 34.2, | 34 | 11.0, | 265.5, | 184.0, | -145.6, | 24.1, |
| 35 | 11.0, | 260.9, | 146.7, | -129.8, | 13.3, | 36 | 11.0, | 249.6, | 107.2, | -111.8, | 1.8, |



*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: STCK5

| IFV | BH | BW | BL | XADJ | YADJ | IFV | BH | BW | BL | XADJ | YADJ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 11.0, | 264.0, | 144.2, | -137.0, | 19.9, | 2 | 11.0, | 270.4, | 176.8, | -158.0, | 8.9, |
| 3 | 11.0, | 268.6, | 205.8, | -174.2, | -2.5, | 4 | 11.0, | 258.7, | 231.8, | -185.2, | -13.8, |
| 5 | 11.0, | 240.8, | 250.8, | -190.5, | -24.6, | 6 | 11.0, | 215.7, | 262.1, | -190.0, | -34.7, |
| 7 | 11.0, | 184.0, | 265.5, | -183.8, | -43.8, | 8 | 11.0, | 146.7, | 260.9, | -171.9, | -51.5, |
| 9 | 11.0, | 107.2, | 249.6, | -155.2, | -58.1, | 10 | 11.0, | 144.2, | 264.0, | -151.9, | -64.8, |
| 11 | 11.0, | 176.8, | 270.4, | -144.1, | -69.6, | 12 | 11.0, | 205.8, | 268.6, | -131.8, | -71.3, |
| 13 | 11.0, | 231.8, | 258.7, | -115.6, | -69.3, | 14 | 11.0, | 250.8, | 240.8, | -95.8, | -65.1, |
| 15 | 11.0, | 262.1, | 215.7, | -73.1, | -58.9, | 16 | 11.0, | 265.5, | 184.0, | -48.2, | -51.0, |
| 17 | 11.0, | 260.9, | 146.7, | -21.9, | -41.5, | 18 | 11.0, | 249.6, | 107.2, | 4.5, | -30.4, |
| 19 | 11.0, | 264.0, | 144.2, | -7.2, | -19.9, | 20 | 11.0, | 270.4, | 176.8, | -18.8, | -8.9, |
| 21 | 11.0, | 268.6, | 205.8, | -31.5, | 2.5, | 22 | 11.0, | 258.7, | 231.8, | -46.6, | 13.8, |
| 23 | 11.0, | 240.8, | 250.8, | -60.3, | 24.6, | 24 | 11.0, | 215.7, | 262.1, | -72.1, | 34.7, |
| 25 | 11.0, | 184.0, | 265.5, | -81.8, | 43.8, | 26 | 11.0, | 146.7, | 260.9, | -88.9, | 51.5, |
| 27 | 11.0, | 107.2, | 249.6, | -94.4, | 58.1, | 28 | 11.0, | 144.2, | 264.0, | -112.1, | 64.8, |
| 29 | 11.0, | 176.8, | 270.4, | -126.3, | 69.6, | 30 | 11.0, | 205.8, | 268.6, | -136.8, | 71.3, |
| 31 | 11.0, | 231.8, | 258.7, | -143.1, | 69.3, | 32 | 11.0, | 250.8, | 240.8, | -145.0, | 65.1, |
| 33 | 11.0, | 262.1, | 215.7, | -142.6, | 58.9, | 34 | 11.0, | 265.5, | 184.0, | -135.8, | 51.0, |
| 35 | 11.0, | 260.9, | 146.7, | -124.8, | 41.5, | 36 | 11.0, | 249.6, | 107.2, | -111.8, | 30.4, |

SOURCE ID: STCK6

| IFV | BH | BW | BL | XADJ | YADJ | IFV | BH | BW | BL | XADJ | YADJ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 11.0, | 264.0, | 144.2, | -142.4, | 48.7, | 2 | 11.0, | 270.4, | 176.8, | -168.3, | 36.2, |
| 3 | 11.0, | 268.6, | 205.8, | -189.1, | 22.7, | 4 | 11.0, | 258.7, | 231.8, | -204.2, | 8.4, |
| 5 | 11.0, | 240.8, | 250.8, | -213.1, | -6.1, | 6 | 11.0, | 215.7, | 262.1, | -215.5, | -20.4, |
| 7 | 11.0, | 184.0, | 265.5, | -211.4, | -34.1, | 8 | 11.0, | 146.7, | 260.9, | -200.8, | -46.7, |
| 9 | 11.0, | 107.2, | 249.6, | -184.5, | -58.5, | 10 | 11.0, | 144.2, | 264.0, | -180.7, | -70.2, |
| 11 | 11.0, | 176.8, | 270.4, | -171.5, | -79.9, | 12 | 11.0, | 205.8, | 268.6, | -157.0, | -86.2, |
| 13 | 11.0, | 231.8, | 258.7, | -137.8, | -88.3, | 14 | 11.0, | 250.8, | 240.8, | -114.4, | -87.7, |
| 15 | 11.0, | 262.1, | 215.7, | -87.5, | -84.4, | 16 | 11.0, | 265.5, | 184.0, | -57.9, | -78.6, |
| 17 | 11.0, | 260.9, | 146.7, | -26.6, | -70.4, | 18 | 11.0, | 249.6, | 107.2, | 4.8, | -59.7, |
| 19 | 11.0, | 264.0, | 144.2, | -1.9, | -48.7, | 20 | 11.0, | 270.4, | 176.8, | -8.5, | -36.2, |
| 21 | 11.0, | 268.6, | 205.8, | -16.6, | -22.7, | 22 | 11.0, | 258.7, | 231.8, | -27.6, | -8.4, |
| 23 | 11.0, | 240.8, | 250.8, | -37.7, | 6.1, | 24 | 11.0, | 215.7, | 262.1, | -46.6, | 20.4, |
| 25 | 11.0, | 184.0, | 265.5, | -54.2, | 34.1, | 26 | 11.0, | 146.7, | 260.9, | -60.1, | 46.7, |
| 27 | 11.0, | 107.2, | 249.6, | -65.1, | 58.5, | 28 | 11.0, | 144.2, | 264.0, | -83.3, | 70.2, |
| 29 | 11.0, | 176.8, | 270.4, | -99.0, | 79.9, | 30 | 11.0, | 205.8, | 268.6, | -111.6, | 86.2, |
| 31 | 11.0, | 231.8, | 258.7, | -120.9, | 88.3, | 32 | 11.0, | 250.8, | 240.8, | -126.5, | 87.7, |
| 33 | 11.0, | 262.1, | 215.7, | -128.2, | 84.4, | 34 | 11.0, | 265.5, | 184.0, | -126.1, | 78.6, |
| 35 | 11.0, | 260.9, | 146.7, | -120.1, | 70.4, | 36 | 11.0, | 249.6, | 107.2, | -112.1, | 59.7, |



*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** GRIDDED RECEPTOR NETWORK SUMMARY ***

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

*** X-COORDINATES OF GRID ***
(METERS)

376999.0, 377086.3, 377173.6, 377260.9, 377348.2, 377435.5, 377522.8, 377610.1, 377697.4, 377784.7,
377872.0, 377959.3, 378046.6, 378133.9, 378221.2, 378308.5, 378395.8, 378483.1, 378570.4, 378657.7,
378745.0,

*** Y-COORDINATES OF GRID ***
(METERS)

3746986.6, 3747043.0, 3747099.4, 3747155.8, 3747212.2, 3747268.5, 3747324.9, 3747381.3, 3747437.7, 3747494.1,
3747550.4, 3747606.8, 3747663.2, 3747719.6, 3747776.0, 3747832.3, 3747888.7, 3747945.1, 3748001.5, 3748057.9,
3748114.2,



*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

* ELEVATION HEIGHTS IN METERS *

| Y-COORD (METERS) | X-COORD (METERS) 376998.97 | 377086.27 | 377173.57 | 377260.87 | 377348.17 | 377435.47 | 377522.77 | 377610.07 | 377697.37 |
|---|---|---|---|---|---|---|---|---|---|
| 3748114.24 | 18.30 | 18.50 | 19.10 | 19.90 | 20.30 | 20.10 | 19.80 | 19.60 | 19.40 |
| 3748057.86 | 25.50 | 18.60 | 18.90 | 19.10 | 19.50 | 19.60 | 19.70 | 19.70 | 19.60 |
| 3748001.48 | 19.20 | 25.90 | 25.00 | 19.80 | 20.00 | 20.80 | 20.10 | 19.90 | 20.10 |
| 3747945.10 | 18.10 | 19.60 | 25.20 | 26.60 | 23.40 | 22.60 | 20.00 | 20.10 | 20.10 |
| 3747888.72 | 18.30 | 18.60 | 21.80 | 20.80 | 23.70 | 25.60 | 21.70 | 19.80 | 19.80 |
| 3747832.34 | 18.40 | 18.70 | 20.00 | 20.80 | 20.80 | 20.60 | 23.60 | 23.50 | 19.90 |
| 3747775.96 | 18.40 | 18.70 | 19.50 | 21.00 | 20.70 | 19.90 | 19.90 | 19.80 | 22.80 |
| 3747719.58 | 18.60 | 19.10 | 19.80 | 20.70 | 20.80 | 20.50 | 20.30 | 19.90 | 19.20 |
| 3747663.20 | 18.50 | 18.80 | 19.20 | 20.20 | 20.50 | 20.70 | 19.80 | 19.70 | 19.20 |
| 3747606.82 | 18.50 | 18.70 | 19.10 | 19.40 | 20.00 | 20.40 | 19.70 | 19.60 | 19.30 |
| 3747550.44 | 18.40 | 18.50 | 18.60 | 18.50 | 19.80 | 20.20 | 19.70 | 19.70 | 19.60 |
| 3747494.06 | 18.40 | 18.40 | 18.30 | 18.20 | 19.90 | 20.20 | 19.60 | 19.80 | 19.80 |
| 3747437.68 | 18.70 | 18.60 | 18.40 | 18.50 | 19.20 | 19.90 | 19.90 | 20.00 | 19.80 |
| 3747381.30 | 18.90 | 18.50 | 18.20 | 18.60 | 19.00 | 19.60 | 20.40 | 20.20 | 19.60 |
| 3747324.92 | 19.30 | 18.60 | 18.00 | 18.30 | 18.90 | 19.30 | 20.40 | 19.70 | 19.60 |
| 3747268.54 | 18.90 | 18.50 | 18.00 | 17.80 | 18.50 | 19.30 | 19.60 | 19.50 | 19.20 |
| 3747212.16 | 19.20 | 19.10 | 18.40 | 18.20 | 19.50 | 20.00 | 20.00 | 19.20 | 18.50 |
| 3747155.78 | 19.50 | 19.50 | 19.60 | 19.70 | 22.00 | 21.80 | 21.10 | 21.90 | 19.80 |
| 3747099.40 | 18.90 | 18.80 | 19.90 | 20.20 | 21.90 | 21.80 | 21.40 | 21.90 | 21.30 |
| 3747043.02 | 18.60 | 18.40 | 20.30 | 20.10 | 20.70 | 20.70 | 20.90 | 20.80 | 21.30 |
| 3746986.64 | 19.40 | 18.30 | 20.10 | 19.90 | 13.80 | 13.50 | 20.90 | 20.60 | 20.70 |



*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

* ELEVATION HEIGHTS IN METERS *

| Y-COORD (METERS) | X-COORD (METERS) 377784.67 | 377871.97 | 377959.27 | 378046.57 | 378133.87 | 378221.17 | 378308.47 | 378395.77 | 378483.07 |
|---|---|---|---|---|---|---|---|---|---|
| 3748114.24 | 19.20 | 19.10 | 18.90 | 18.80 | 18.70 | 18.70 | 18.20 | 17.60 | 17.60 |
| 3748057.86 | 19.60 | 19.50 | 19.40 | 19.20 | 18.90 | 18.60 | 18.30 | 18.00 | 17.80 |
| 3748001.48 | 19.90 | 19.50 | 19.50 | 19.80 | 19.20 | 18.80 | 18.70 | 18.30 | 18.00 |
| 3747945.10 | 19.60 | 19.20 | 19.40 | 20.10 | 19.10 | 19.00 | 18.90 | 18.50 | 18.10 |
| 3747888.72 | 19.20 | 19.10 | 19.20 | 20.10 | 19.60 | 19.40 | 19.00 | 18.60 | 18.30 |
| 3747832.34 | 19.10 | 19.00 | 19.60 | 19.90 | 19.90 | 19.30 | 19.30 | 19.20 | 18.90 |
| 3747775.96 | 22.70 | 19.10 | 19.40 | 19.60 | 20.10 | 19.50 | 19.20 | 18.80 | 18.60 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 3747719.58 | 19.90 | 24.00 | 23.10 | 20.00 | 20.10 | 19.50 | 19.30 | 19.00 | 18.60 |
| 3747663.20 | 19.10 | 19.40 | 22.60 | 25.80 | 21.30 | 19.40 | 19.20 | 18.80 | 18.50 |
| 3747606.82 | 19.60 | 19.30 | 19.50 | 20.30 | 23.70 | 25.00 | 19.90 | 18.80 | 18.80 |
| 3747550.44 | 19.70 | 19.30 | 19.20 | 19.50 | 19.90 | 19.90 | 24.50 | 22.10 | 18.80 |
| 3747494.06 | 19.50 | 19.30 | 19.10 | 19.50 | 20.00 | 19.20 | 20.00 | 20.60 | 22.40 |
| 3747437.68 | 19.50 | 18.90 | 18.60 | 19.30 | 19.90 | 20.00 | 20.10 | 20.00 | 20.10 |
| 3747381.30 | 19.40 | 19.00 | 18.80 | 19.10 | 20.10 | 20.10 | 20.10 | 19.70 | 19.90 |
| 3747324.92 | 19.40 | 19.30 | 19.50 | 19.70 | 20.00 | 20.10 | 19.90 | 19.60 | 19.70 |
| 3747268.54 | 19.10 | 18.90 | 19.60 | 19.70 | 20.00 | 20.10 | 19.80 | 19.40 | 19.60 |
| 3747212.16 | 18.10 | 18.70 | 19.30 | 19.70 | 20.20 | 20.10 | 19.80 | 19.50 | 19.10 |
| 3747155.78 | 17.40 | 22.30 | 22.60 | 23.40 | 20.30 | 20.40 | 20.40 | 20.90 | 20.10 |
| 3747099.40 | 17.60 | 20.00 | 20.30 | 23.20 | 20.10 | 20.50 | 20.60 | 20.10 | 20.00 |
| 3747043.02 | 17.70 | 17.40 | 18.60 | 23.30 | 19.60 | 20.00 | 19.80 | 20.30 | 20.40 |
| 3746986.64 | 17.60 | 16.20 | 19.00 | 22.70 | 19.60 | 19.70 | 20.00 | 19.90 | 20.50 |



*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

* ELEVATION HEIGHTS IN METERS *

| Y-COORD (METERS) | X-COORD (METERS) 378570.37 | 378657.67 | 378744.97 |
|---|---|---|---|
| 3748114.24 | 16.40 | 16.00 | 16.70 |
| 3748057.86 | 17.10 | 17.30 | 17.10 |
| 3748001.48 | 17.70 | 17.20 | 17.20 |
| 3747945.10 | 17.60 | 17.40 | 17.40 |
| 3747888.72 | 18.10 | 17.40 | 17.50 |
| 3747832.34 | 17.90 | 17.50 | 17.40 |
| 3747775.96 | 17.90 | 17.60 | 17.30 |
| 3747719.58 | 18.00 | 17.70 | 17.50 |
| 3747663.20 | 18.10 | 17.70 | 17.80 |
| 3747606.82 | 18.20 | 17.80 | 17.90 |
| 3747550.44 | 18.20 | 18.00 | 17.90 |
| 3747494.06 | 19.90 | 18.50 | 18.30 |
| 3747437.68 | 21.40 | 22.40 | 20.70 |
| 3747381.30 | 20.10 | 21.00 | 22.10 |
| 3747324.92 | 19.80 | 19.20 | 18.50 |
| 3747268.54 | 19.20 | 19.00 | 18.70 |
| 3747212.16 | 18.80 | 18.60 | 18.40 |
| 3747155.78 | 19.20 | 19.40 | 19.10 |
| 3747099.40 | 18.90 | 19.30 | 19.00 |
| 3747043.02 | 19.20 | 19.20 | 18.60 |
| 3746986.64 | 20.00 | 20.00 | 18.90 |

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

* HILL HEIGHT SCALES IN METERS *

| Y-COORD (METERS) | X-COORD (METERS) 376998.97 | 377086.27 | 377173.57 | 377260.87 | 377348.17 | 377435.47 | 377522.77 | 377610.07 | 377697.37 |
|---|---|---|---|---|---|---|---|---|---|
| 3748114.24 | 25.50 | 18.50 | 19.10 | 19.90 | 20.30 | 20.10 | 19.80 | 19.60 | 19.40 |
| 3748057.86 | 25.50 | 26.00 | 26.20 | 19.10 | 19.50 | 19.60 | 19.70 | 19.70 | 19.60 |
| 3748001.48 | 25.70 | 25.90 | 26.20 | 26.60 | 20.00 | 20.80 | 20.10 | 19.90 | 20.10 |
| 3747945.10 | 25.50 | 26.20 | 25.20 | 26.60 | 26.50 | 22.60 | 20.00 | 20.10 | 20.10 |
| 3747888.72 | 18.30 | 24.40 | 21.80 | 26.60 | 26.50 | 25.60 | 24.80 | 19.80 | 19.80 |
| 3747832.34 | 18.40 | 18.70 | 20.00 | 20.80 | 20.80 | 25.50 | 23.60 | 23.50 | 19.90 |
| 3747775.96 | 18.40 | 18.70 | 19.50 | 21.00 | 20.70 | 19.90 | 19.90 | 23.50 | 22.80 |
| 3747719.58 | 18.60 | 19.10 | 19.80 | 20.70 | 20.80 | 20.50 | 20.30 | 19.90 | 19.20 |
| 3747663.20 | 18.50 | 18.80 | 19.20 | 20.20 | 20.50 | 20.70 | 19.80 | 19.70 | 19.20 |
| 3747606.82 | 18.50 | 18.70 | 19.10 | 19.40 | 20.00 | 20.40 | 19.70 | 19.60 | 19.30 |
| 3747550.44 | 18.40 | 18.50 | 18.60 | 18.50 | 19.80 | 20.20 | 19.70 | 19.70 | 19.60 |
| 3747494.06 | 18.40 | 18.40 | 18.30 | 18.20 | 19.90 | 20.20 | 19.60 | 19.80 | 19.80 |
| 3747437.68 | 18.70 | 18.60 | 18.40 | 18.50 | 19.20 | 19.90 | 19.90 | 20.00 | 19.80 |
| 3747381.30 | 18.90 | 18.50 | 18.20 | 18.60 | 19.00 | 19.60 | 20.40 | 20.20 | 19.60 |
| 3747324.92 | 19.30 | 18.60 | 18.00 | 18.30 | 18.90 | 19.30 | 20.40 | 19.70 | 19.60 |
| 3747268.54 | 18.90 | 18.50 | 18.00 | 17.80 | 18.50 | 19.30 | 19.60 | 19.50 | 19.20 |
| 3747212.16 | 19.20 | 19.10 | 18.40 | 18.20 | 19.50 | 20.00 | 20.00 | 19.20 | 18.50 |
| 3747155.78 | 19.50 | 19.50 | 19.60 | 19.70 | 22.00 | 21.80 | 21.10 | 21.90 | 19.80 |
| 3747099.40 | 18.90 | 18.80 | 19.90 | 20.20 | 21.90 | 21.80 | 21.40 | 21.90 | 21.30 |
| 3747043.02 | 18.60 | 18.40 | 20.30 | 20.10 | 20.70 | 20.70 | 20.90 | 20.80 | 21.30 |
| 3746986.64 | 19.40 | 18.30 | 20.10 | 19.90 | 20.60 | 21.70 | 20.90 | 20.60 | 20.70 |



*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

* HILL HEIGHT SCALES IN METERS *

| Y-COORD (METERS) | X-COORD (METERS) 377784.67 | 377871.97 | 377959.27 | 378046.57 | 378133.87 | 378221.17 | 378308.47 | 378395.77 | 378483.07 |
|---|---|---|---|---|---|---|---|---|---|
| 3748114.24 | 19.20 | 19.10 | 18.90 | 18.80 | 18.70 | 18.70 | 18.20 | 17.60 | 17.60 |
| 3748057.86 | 19.60 | 19.50 | 19.40 | 19.20 | 18.90 | 18.60 | 18.30 | 18.00 | 17.80 |
| 3748001.48 | 19.90 | 19.50 | 19.50 | 19.80 | 19.20 | 18.80 | 18.70 | 18.30 | 18.00 |
| 3747945.10 | 19.60 | 19.20 | 19.40 | 20.10 | 19.10 | 19.00 | 18.90 | 18.50 | 18.10 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 3747888.72 | 19.20 | 19.10 | 19.20 | 20.10 | 19.60 | 19.40 | 19.00 | 18.60 | 18.30 |
| 3747832.34 | 19.10 | 19.00 | 19.60 | 19.90 | 19.90 | 19.30 | 19.30 | 19.20 | 18.90 |
| 3747775.96 | 23.10 | 24.00 | 19.40 | 19.60 | 20.10 | 19.50 | 19.20 | 18.80 | 18.60 |
| 3747719.58 | 23.40 | 24.00 | 24.90 | 26.00 | 20.10 | 19.50 | 19.30 | 19.00 | 18.60 |
| 3747663.20 | 19.10 | 24.50 | 25.30 | 25.80 | 24.70 | 25.90 | 19.20 | 18.80 | 18.50 |
| 3747606.82 | 19.60 | 19.30 | 19.50 | 26.20 | 26.20 | 25.00 | 25.10 | 18.80 | 18.80 |
| 3747550.44 | 19.70 | 19.30 | 19.20 | 19.50 | 25.50 | 25.80 | 24.50 | 22.10 | 22.20 |
| 3747494.06 | 19.50 | 19.30 | 19.10 | 19.50 | 20.00 | 19.20 | 20.00 | 23.90 | 22.40 |
| 3747437.68 | 19.50 | 18.90 | 18.60 | 19.30 | 19.90 | 20.00 | 20.10 | 20.00 | 20.10 |
| 3747381.30 | 19.40 | 19.00 | 18.80 | 19.10 | 20.10 | 20.10 | 20.10 | 19.70 | 19.90 |
| 3747324.92 | 19.40 | 19.30 | 19.50 | 19.70 | 20.00 | 20.10 | 19.90 | 19.60 | 19.70 |
| 3747268.54 | 19.10 | 18.90 | 19.60 | 19.70 | 20.00 | 20.10 | 19.80 | 19.40 | 19.60 |
| 3747212.16 | 18.10 | 24.50 | 19.30 | 22.80 | 20.20 | 20.10 | 19.80 | 19.50 | 19.10 |
| 3747155.78 | 24.30 | 24.50 | 22.60 | 23.40 | 20.30 | 20.40 | 20.40 | 20.90 | 20.10 |
| 3747099.40 | 24.30 | 24.30 | 20.30 | 23.20 | 20.10 | 20.50 | 20.60 | 20.10 | 20.00 |
| 3747043.02 | 24.30 | 17.40 | 18.60 | 23.30 | 19.60 | 20.00 | 19.80 | 20.30 | 20.40 |
| 3746986.64 | 22.90 | 21.40 | 19.00 | 22.70 | 19.60 | 19.70 | 20.00 | 19.90 | 20.50 |



*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

* HILL HEIGHT SCALES IN METERS *

| Y-COORD (METERS) | X-COORD (METERS) 378570.37 | 378657.67 | 378744.97 |
|---|---|---|---|
| 3748114.24 | 16.40 | 16.00 | 16.70 |
| 3748057.86 | 17.10 | 17.30 | 17.10 |
| 3748001.48 | 17.70 | 17.20 | 17.20 |
| 3747945.10 | 17.60 | 17.40 | 17.40 |
| 3747888.72 | 18.10 | 17.40 | 17.50 |
| 3747832.34 | 17.90 | 17.50 | 17.40 |
| 3747775.96 | 17.90 | 17.60 | 17.30 |
| 3747719.58 | 18.00 | 17.70 | 17.50 |
| 3747663.20 | 18.10 | 17.70 | 17.80 |
| 3747606.82 | 18.20 | 17.80 | 17.90 |
| 3747550.44 | 18.20 | 18.00 | 17.90 |
| 3747494.06 | 19.90 | 18.50 | 18.30 |
| 3747437.68 | 21.40 | 22.40 | 23.30 |
| 3747381.30 | 20.10 | 21.00 | 24.00 |
| 3747324.92 | 19.80 | 19.20 | 18.50 |
| 3747268.54 | 19.20 | 19.00 | 18.70 |
| 3747212.16 | 18.80 | 18.60 | 18.40 |
| 3747155.78 | 19.20 | 19.40 | 19.10 |
| 3747099.40 | 18.90 | 19.30 | 19.00 |
| 3747043.02 | 19.20 | 19.20 | 18.60 |

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

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| ( 377146.6, 3747291.4, | 18.2, | 18.2, | 0.0); | ( 377230.5, 3747442.5, | 18.1, | 18.1, | 0.0); |
| ( 377253.4, 3747498.1, | 18.2, | 18.2, | 0.0); | ( 377259.3, 3747543.7, | 18.5, | 18.5, | 0.0); |
| ( 377259.3, 3747621.9, | 19.6, | 19.6, | 0.0); | ( 377260.6, 3747704.7, | 20.6, | 20.6, | 0.0); |
| ( 378132.2, 3747267.4, | 20.0, | 20.0, | 0.0); | ( 378294.5, 3747265.7, | 19.8, | 19.8, | 0.0); |



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

| SOURCE ID | - - RECEPTOR LOCATION - - XR (METERS) | YR (METERS) | DISTANCE (METERS) |
|---|---|---|---|
| L0001838 | 377610.1 | 3747381.3 | -0.57 |
| L0001839 | 377610.1 | 3747381.3 | 0.97 |
| L0001853 | 377610.1 | 3747324.9 | -0.25 |
| L0001854 | 377610.1 | 3747324.9 | -0.14 |
| L0001868 | 377610.1 | 3747268.5 | 0.62 |
| L0001869 | 377610.1 | 3747268.5 | -0.84 |
| L0002568 | 377173.6 | 3747268.5 | 0.15 |
| L0002569 | 377173.6 | 3747268.5 | -0.75 |
| L0002621 | 377260.9 | 3747437.7 | 0.40 |



*** 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
```

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,



*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

Surface file: E:\New MET data\KHHR_V9_ADJU\KHHR_v9.SFC Met Version: 16216
Profile file: E:\New MET data\KHHR_V9_ADJU\KHHR_v9.PFL
Surface format: FREE
Profile format: FREE
Surface station no.: 3167 Upper air station no.: 3190
Name: UNKNOWN Name: UNKNOWN
Year: 2012 Year: 2012

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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12 | 01 | 01 | 1 | 01 | -999.0 | -9.000 | -9.000 | -9.000 | -999. | -999. | -99999.0 | 0.24 | 2.79 | 1.00 | 0.00 | 0. | 7.9 | 283.8 | 2.0 |
| 12 | 01 | 01 | 1 | 02 | -2.1 | 0.068 | -9.000 | -9.000 | -999. | 43. | 13.3 | 0.24 | 2.79 | 1.00 | 0.53 | 305. | 7.9 | 283.1 | 2.0 |
| 12 | 01 | 01 | 1 | 03 | -9.0 | 0.127 | -9.000 | -9.000 | -999. | 109. | 20.8 | 0.24 | 2.79 | 1.00 | 1.18 | 323. | 7.9 | 282.5 | 2.0 |
| 12 | 01 | 01 | 1 | 04 | -2.2 | 0.068 | -9.000 | -9.000 | -999. | 43. | 13.3 | 0.24 | 2.79 | 1.00 | 0.53 | 296. | 7.9 | 282.0 | 2.0 |
| 12 | 01 | 01 | 1 | 05 | -999.0 | -9.000 | -9.000 | -9.000 | -999. | -999. | -99999.0 | 0.24 | 2.79 | 1.00 | 0.00 | 0. | 7.9 | 281.4 | 2.0 |
| 12 | 01 | 01 | 1 | 06 | -6.0 | 0.103 | -9.000 | -9.000 | -999. | 80. | 16.7 | 0.24 | 2.79 | 1.00 | 0.97 | 321. | 7.9 | 281.4 | 2.0 |
| 12 | 01 | 01 | 1 | 07 | -4.3 | 0.088 | -9.000 | -9.000 | -999. | 63. | 14.4 | 0.24 | 2.79 | 1.00 | 0.82 | 313. | 7.9 | 280.4 | 2.0 |
| 12 | 01 | 01 | 1 | 08 | 15.7 | -9.000 | -9.000 | -9.000 | -999. | -999. | -99999.0 | 0.24 | 2.79 | 0.55 | 0.00 | 0. | 7.9 | 281.4 | 2.0 |
| 12 | 01 | 01 | 1 | 09 | 35.7 | 0.115 | 0.353 | 0.013 | 45. | 93. | -3.8 | 0.24 | 2.79 | 0.32 | 0.63 | 179. | 7.9 | 285.4 | 2.0 |
| 12 | 01 | 01 | 1 | 10 | 109.0 | 0.141 | 0.727 | 0.009 | 128. | 127. | -2.3 | 0.24 | 2.79 | 0.24 | 0.70 | 170. | 7.9 | 289.2 | 2.0 |
| 12 | 01 | 01 | 1 | 11 | 164.4 | 0.149 | 1.186 | 0.005 | 370. | 138. | -1.8 | 0.24 | 2.79 | 0.21 | 0.70 | 222. | 7.9 | 297.0 | 2.0 |
| 12 | 01 | 01 | 1 | 12 | 191.7 | 0.163 | 1.525 | 0.005 | 672. | 158. | -2.1 | 0.24 | 2.79 | 0.20 | 0.79 | 12. | 7.9 | 299.9 | 2.0 |
| 12 | 01 | 01 | 1 | 13 | 191.3 | 0.170 | 1.819 | 0.005 | 1144. | 168. | -2.3 | 0.24 | 2.79 | 0.20 | 0.84 | 260. | 7.9 | 300.9 | 2.0 |
| 12 | 01 | 01 | 1 | 14 | 161.6 | 0.344 | 1.852 | 0.005 | 1428. | 483. | -22.7 | 0.24 | 2.79 | 0.21 | 2.49 | 260. | 7.9 | 298.8 | 2.0 |
| 12 | 01 | 01 | 1 | 15 | 105.0 | 0.367 | 1.638 | 0.005 | 1521. | 534. | -42.8 | 0.24 | 2.79 | 0.24 | 2.84 | 292. | 7.9 | 293.8 | 2.0 |
| 12 | 01 | 01 | 1 | 16 | 29.7 | 0.383 | 1.079 | 0.005 | 1539. | 570. | -172.5 | 0.24 | 2.79 | 0.33 | 3.22 | 276. | 7.9 | 290.4 | 2.0 |
| 12 | 01 | 01 | 1 | 17 | -24.8 | 0.287 | -9.000 | -9.000 | -999. | 374. | 90.3 | 0.24 | 2.79 | 0.59 | 2.52 | 284. | 7.9 | 289.2 | 2.0 |
| 12 | 01 | 01 | 1 | 18 | -26.7 | 0.269 | -9.000 | -9.000 | -999. | 336. | 79.8 | 0.24 | 2.79 | 1.00 | 2.38 | 285. | 7.9 | 287.5 | 2.0 |
| 12 | 01 | 01 | 1 | 19 | -10.2 | 0.137 | -9.000 | -9.000 | -999. | 133. | 22.7 | 0.24 | 2.79 | 1.00 | 1.26 | 287. | 7.9 | 287.5 | 2.0 |

```
12 01 01   1 20   -6.2  0.106 -9.000 -9.000 -999.   83.     17.2  0.24   2.79   1.00    0.99  303.    7.9  287.0    2.0
12 01 01   1 21   -7.6  0.117 -9.000 -9.000 -999.   96.     19.1  0.24   2.79   1.00    1.09  326.    7.9  286.4    2.0
12 01 01   1 22   -6.8  0.110 -9.000 -9.000 -999.   88.     18.0  0.24   2.79   1.00    1.03  297.    7.9  285.9    2.0
12 01 01   1 23  -19.9  0.200 -9.000 -9.000 -999.  214.     43.9  0.24   2.79   1.00    1.79  290.    7.9  285.9    2.0
12 01 01   1 24  -19.6  0.196 -9.000 -9.000 -999.  209.     42.3  0.24   2.79   1.00    1.76  282.    7.9  285.9    2.0


First hour of profile data
YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
12 01 01 01    7.9 1 -999.  -99.00   283.8   99.0  -99.00  -99.00

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

*** AERMOD - VERSION  19191 ***   *** 190th St Warehouse 2025-2039                                        ***        05/15/20
*** AERMET - VERSION  16216 ***   *** DPM concentrations first 14YR Exposure                              ***        07:52:35
                                                                                                                  PAGE  45
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                          *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: ALL      ***
                              INCLUDING SOURCE(S):     STCK1       , STCK2       , STCK3       , STCK4       , STCK5       ,
               STCK6       , L0001748    , L0001749    , L0001750    , L0001751    , L0001752    , L0001753    , L0001754    ,
               L0001755    , L0001756    , L0001757    , L0001758    , L0001759    , L0001760    , L0001761    , L0001762    ,
               L0001763    , L0001764    , L0001765    , L0001766    , L0001767    , L0001768    , L0001769    ,  . . .      ,

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

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

   Y-COORD  |                                                 X-COORD (METERS)
   (METERS) |     376998.97    377086.27    377173.57    377260.87    377348.17    377435.47    377522.77    377610.07    377697.37
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 3748114.24 |       0.00016      0.00018      0.00019      0.00020      0.00021      0.00021      0.00021      0.00020      0.00020
 3748057.86 |       0.00015      0.00020      0.00022      0.00024      0.00024      0.00024      0.00024      0.00023      0.00023
 3748001.48 |       0.00021      0.00019      0.00022      0.00028      0.00029      0.00028      0.00028      0.00028      0.00026
 3747945.10 |       0.00023      0.00027      0.00026      0.00028      0.00031      0.00031      0.00034      0.00033      0.00031
 3747888.72 |       0.00027      0.00032      0.00036      0.00046      0.00042      0.00035      0.00038      0.00039      0.00037
 3747832.34 |       0.00030      0.00037      0.00046      0.00072      0.00070      0.00053      0.00043      0.00042      0.00045
 3747775.96 |       0.00034      0.00043      0.00056      0.00092      0.00089      0.00066      0.00061      0.00058      0.00051
 3747719.58 |       0.00039      0.00050      0.00066      0.00107      0.00105      0.00080      0.00075      0.00073      0.00069
 3747663.20 |       0.00043      0.00057      0.00077      0.00125      0.00127      0.00101      0.00097      0.00093      0.00088
 3747606.82 |       0.00048      0.00064      0.00090      0.00146      0.00158      0.00135      0.00129      0.00125      0.00118
 3747550.44 |       0.00052      0.00071      0.00103      0.00171      0.00204      0.00193      0.00185      0.00180      0.00163
 3747494.06 |       0.00055      0.00077      0.00115      0.00209      0.00289      0.00313      0.00329      0.00281      0.00215
 3747437.68 |       0.00059      0.00083      0.00127      0.00331      0.00452      0.00500      0.00537      0.00531      0.00246
 3747381.30 |       0.00061      0.00087      0.00137      0.00253      0.00211      0.00472      0.00430      0.00506      0.00243
 3747324.92 |       0.00062      0.00089      0.00155      0.00233      0.00226      0.00402      0.00342      0.00351      0.00219
 3747268.54 |       0.00061      0.00089      0.00234      0.00220      0.00285      0.00320      0.00302      0.00367      0.00207
 3747212.16 |       0.00058      0.00084      0.00142      0.00191      0.00260      0.00300      0.00283      0.00221      0.00170
 3747155.78 |       0.00055      0.00075      0.00103      0.00134      0.00167      0.00208      0.00198      0.00152      0.00121
 3747099.40 |       0.00050      0.00066      0.00086      0.00109      0.00133      0.00157      0.00154      0.00126      0.00100
```

```
 3747043.02 |       0.00044      0.00057      0.00073      0.00092      0.00113      0.00130      0.00127      0.00109      0.00087
 3746986.64 |       0.00039      0.00050      0.00062      0.00078      0.00091      0.00103      0.00104      0.00092      0.00076

*** AERMOD - VERSION  19191 ***   *** 190th St Warehouse 2025-2039                                          ***        05/15/20
*** AERMET - VERSION  16216 ***   *** DPM concentrations first 14YR Exposure                                 ***        07:52:35
                                                                                                                      PAGE  46
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                           *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: ALL      ***
                               INCLUDING SOURCE(S):     STCK1       , STCK2       , STCK3       , STCK4       , STCK5       ,
                 STCK6       , L0001748    , L0001749    , L0001750    , L0001751    , L0001752    , L0001753    , L0001754    ,
                 L0001755    , L0001756    , L0001757    , L0001758    , L0001759    , L0001760    , L0001761    , L0001762    ,
                 L0001763    , L0001764    , L0001765    , L0001766    , L0001767    , L0001768    , L0001769    ,  . . .      ,

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

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

   Y-COORD  |                                          X-COORD (METERS)
   (METERS) |     377784.67    377871.97    377959.27    378046.57    378133.87    378221.17    378308.47    378395.77    378483.07
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 3748114.24 |       0.00019      0.00017      0.00016      0.00015      0.00014      0.00013      0.00012      0.00011      0.00011
 3748057.86 |       0.00021      0.00020      0.00019      0.00017      0.00016      0.00015      0.00013      0.00012      0.00012
 3748001.48 |       0.00025      0.00023      0.00021      0.00019      0.00018      0.00016      0.00015      0.00014      0.00012
 3747945.10 |       0.00029      0.00027      0.00024      0.00022      0.00020      0.00018      0.00016      0.00015      0.00013
 3747888.72 |       0.00035      0.00032      0.00028      0.00025      0.00023      0.00020      0.00018      0.00016      0.00015
 3747832.34 |       0.00042      0.00038      0.00034      0.00030      0.00026      0.00022      0.00020      0.00017      0.00016
 3747775.96 |       0.00048      0.00046      0.00040      0.00035      0.00030      0.00025      0.00022      0.00019      0.00017
 3747719.58 |       0.00063      0.00054      0.00048      0.00040      0.00034      0.00028      0.00024      0.00020      0.00018
 3747663.20 |       0.00081      0.00070      0.00058      0.00048      0.00038      0.00031      0.00026      0.00022      0.00019
 3747606.82 |       0.00104      0.00086      0.00068      0.00053      0.00043      0.00035      0.00027      0.00023      0.00020
 3747550.44 |       0.00133      0.00100      0.00075      0.00057      0.00044      0.00035      0.00031      0.00026      0.00021
 3747494.06 |       0.00152      0.00109      0.00080      0.00060      0.00047      0.00037      0.00031      0.00026      0.00024
 3747437.68 |       0.00161      0.00113      0.00083      0.00063      0.00049      0.00040      0.00033      0.00028      0.00025
 3747381.30 |       0.00162      0.00117      0.00088      0.00067      0.00054      0.00044      0.00037      0.00032      0.00028
 3747324.92 |       0.00161      0.00123      0.00095      0.00076      0.00062      0.00052      0.00045      0.00040      0.00036
 3747268.54 |       0.00172      0.00148      0.00127      0.00110      0.00098      0.00089      0.00083      0.00079      0.00075
 3747212.16 |       0.00144      0.00127      0.00112      0.00097      0.00086      0.00077      0.00070      0.00066      0.00062
 3747155.78 |       0.00096      0.00080      0.00069      0.00059      0.00051      0.00044      0.00039      0.00035      0.00031
 3747099.40 |       0.00080      0.00065      0.00055      0.00046      0.00039      0.00034      0.00030      0.00026      0.00023
 3747043.02 |       0.00070      0.00055      0.00045      0.00038      0.00032      0.00028      0.00024      0.00022      0.00019
 3746986.64 |       0.00061      0.00048      0.00039      0.00032      0.00028      0.00024      0.00021      0.00019      0.00017

*** AERMOD - VERSION  19191 ***   *** 190th St Warehouse 2025-2039                                          ***        05/15/20
*** AERMET - VERSION  16216 ***   *** DPM concentrations first 14YR Exposure                                 ***        07:52:35
                                                                                                                      PAGE  47
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                           *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: ALL      ***
                               INCLUDING SOURCE(S):     STCK1       , STCK2       , STCK3       , STCK4       , STCK5       ,
```

```
                STCK6       , L0001748    , L0001749    , L0001750    , L0001751    , L0001752    , L0001753    , L0001754    ,
                L0001755    , L0001756    , L0001757    , L0001758    , L0001759    , L0001760    , L0001761    , L0001762    ,
                L0001763    , L0001764    , L0001765    , L0001766    , L0001767    , L0001768    , L0001769    ,  . . .      ,

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

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

   Y-COORD  |                                              X-COORD (METERS)
   (METERS) |     378570.37    378657.67    378744.97
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 3748114.24 |       0.00010      0.00009      0.00009
 3748057.86 |       0.00011      0.00010      0.00009
 3748001.48 |       0.00012      0.00011      0.00010
 3747945.10 |       0.00012      0.00011      0.00010
 3747888.72 |       0.00013      0.00012      0.00011
 3747832.34 |       0.00014      0.00013      0.00012
 3747775.96 |       0.00015      0.00013      0.00012
 3747719.58 |       0.00016      0.00014      0.00013
 3747663.20 |       0.00017      0.00015      0.00013
 3747606.82 |       0.00017      0.00015      0.00014
 3747550.44 |       0.00018      0.00016      0.00014
 3747494.06 |       0.00020      0.00017      0.00015
 3747437.68 |       0.00022      0.00020      0.00016
 3747381.30 |       0.00025      0.00022      0.00019
 3747324.92 |       0.00033      0.00028      0.00021
 3747268.54 |       0.00072      0.00065      0.00027
 3747212.16 |       0.00057      0.00050      0.00023
 3747155.78 |       0.00028      0.00024      0.00018
 3747099.40 |       0.00021      0.00018      0.00015
 3747043.02 |       0.00017      0.00015      0.00013
 3746986.64 |       0.00015      0.00013      0.00012

*** AERMOD - VERSION  19191 ***   *** 190th St Warehouse 2025-2039                                   ***        05/15/20
*** AERMET - VERSION  16216 ***   *** DPM concentrations first 14YR Exposure                         ***        07:52:35
                                                                                                              PAGE  48
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                            *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: ALL      ***
                                INCLUDING SOURCE(S):     STCK1       , STCK2       , STCK3       , STCK4       , STCK5       ,
                STCK6       , L0001748    , L0001749    , L0001750    , L0001751    , L0001752    , L0001753    , L0001754    ,
                L0001755    , L0001756    , L0001757    , L0001758    , L0001759    , L0001760    , L0001761    , L0001762    ,
                L0001763    , L0001764    , L0001765    , L0001766    , L0001767    , L0001768    , L0001769    ,  . . .      ,
```

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

| X-COORD (M) | Y-COORD (M) | CONC | X-COORD (M) | Y-COORD (M) | CONC |
|---|---|---|---|---|---|
| 377146.65 | 3747291.37 | 0.00132 | 377230.47 | 3747442.55 | 0.00188 |
| 377253.39 | 3747498.09 | 0.00191 | 377259.26 | 3747543.71 | 0.00172 |
| 377259.26 | 3747621.90 | 0.00138 | 377260.56 | 3747704.66 | 0.00111 |
| 378132.19 | 3747267.37 | 0.00100 | 378294.52 | 3747265.66 | 0.00090 |



*** THE SUMMARY OF MAXIMUM PERIOD ( 43848 HRS) RESULTS ***

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

| GROUP ID | AVERAGE CONC | RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG) | OF TYPE | NETWORK GRID-ID |
|---|---|---|---|---|
| ALL | 1ST HIGHEST VALUE IS | 0.00537 AT ( 377522.77, 3747437.68, 19.90, 19.90, 0.00) | GC | UCART1 |
| | 2ND HIGHEST VALUE IS | 0.00531 AT ( 377610.07, 3747437.68, 20.00, 20.00, 0.00) | GC | UCART1 |
| | 3RD HIGHEST VALUE IS | 0.00506 AT ( 377610.07, 3747381.30, 20.20, 20.20, 0.00) | GC | UCART1 |
| | 4TH HIGHEST VALUE IS | 0.00500 AT ( 377435.47, 3747437.68, 19.90, 19.90, 0.00) | GC | UCART1 |
| | 5TH HIGHEST VALUE IS | 0.00472 AT ( 377435.47, 3747381.30, 19.60, 19.60, 0.00) | GC | UCART1 |
| | 6TH HIGHEST VALUE IS | 0.00452 AT ( 377348.17, 3747437.68, 19.20, 19.20, 0.00) | GC | UCART1 |
| | 7TH HIGHEST VALUE IS | 0.00430 AT ( 377522.77, 3747381.30, 20.40, 20.40, 0.00) | GC | UCART1 |
| | 8TH HIGHEST VALUE IS | 0.00402 AT ( 377435.47, 3747324.92, 19.30, 19.30, 0.00) | GC | UCART1 |
| | 9TH HIGHEST VALUE IS | 0.00367 AT ( 377610.07, 3747268.54, 19.50, 19.50, 0.00) | GC | UCART1 |
| | 10TH HIGHEST VALUE IS | 0.00351 AT ( 377610.07, 3747324.92, 19.70, 19.70, 0.00) | GC | UCART1 |

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



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

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

```
A Total of            0 Fatal Error Message(s)
A Total of            8 Warning Message(s)
A Total of         1474 Informational Message(s)

A Total of        43848 Hours Were Processed

A Total of         1223 Calm Hours Identified

A Total of          251 Missing Hours Identified (  0.57 Percent)


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


   ********   WARNING MESSAGES   ********
SO W320     872        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320     873        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320     874        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320     875        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320     876        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320     877        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
ME W186    1862       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used          0.50
ME W187    1862       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

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

```
** Lakes Environmental AERMOD MPI
**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 9.9.0
** Lakes Environmental Software Inc.
** Date: 5/15/2020
** File: C:\Lakes\AERMOD View\190th Street Warehouse 2040-2053\190th Street Warehouse 2040-2053.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE 190th St Warehouse 2040-2053
   TITLETWO DPM concentrations second 14YR Exposure
   MODELOPT DFAULT CONC
   AVERTIME PERIOD
   URBANOPT 9818605 Los_Angeles_County_Population
   POLLUTID DPM
   RUNORNOT RUN
   ERRORFIL "190th Street Warehouse 2040-2053.err"
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION STCK1        POINT      377375.140  3747396.430       19.240
** DESCRSRC Idling location
   LOCATION STCK2        POINT      377406.010  3747397.404       19.450
** DESCRSRC Idling location
   LOCATION STCK3        POINT      377432.659  3747397.729       19.590
** DESCRSRC Idling location
   LOCATION STCK4        POINT      377463.533  3747397.729       19.800
** DESCRSRC Idling location
   LOCATION STCK5        POINT      377492.132  3747397.729       20.080
** DESCRSRC Idling location
   LOCATION STCK6        POINT      377521.381  3747398.054       20.590
** DESCRSRC Idling location
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
```

```
** LINE VOLUME Source ID = SLINE1
** DESCRSRC Onsite travel to driveway 3
** PREFIX
** Length of Side = 3.66
** Configuration = Adjacent
** Emission Rate = 2.3E-06
** Elevated
** Building Height = 10.97
** SZINIT = 5.10
** Nodes = 2
** 377309.543, 3747422.669, 18.82, 0.00, 1.70
** 377597.430, 3747424.019, 20.83, 0.00, 1.70
** ----------------------------------------------------------------------
   LOCATION L0002636     VOLUME   377311.371 3747422.678 18.96
   LOCATION L0002637     VOLUME   377315.029 3747422.695 18.99
   LOCATION L0002638     VOLUME   377318.687 3747422.712 19.02
   LOCATION L0002639     VOLUME   377322.344 3747422.729 19.03
   LOCATION L0002640     VOLUME   377326.002 3747422.746 19.04
   LOCATION L0002641     VOLUME   377329.659 3747422.763 19.06
   LOCATION L0002642     VOLUME   377333.317 3747422.781 19.07
   LOCATION L0002643     VOLUME   377336.974 3747422.798 19.08
   LOCATION L0002644     VOLUME   377340.632 3747422.815 19.09
   LOCATION L0002645     VOLUME   377344.289 3747422.832 19.10
   LOCATION L0002646     VOLUME   377347.947 3747422.849 19.13
   LOCATION L0002647     VOLUME   377351.605 3747422.866 19.17
   LOCATION L0002648     VOLUME   377355.262 3747422.883 19.20
   LOCATION L0002649     VOLUME   377358.920 3747422.901 19.23
   LOCATION L0002650     VOLUME   377362.577 3747422.918 19.26
   LOCATION L0002651     VOLUME   377366.235 3747422.935 19.30
   LOCATION L0002652     VOLUME   377369.892 3747422.952 19.33
   LOCATION L0002653     VOLUME   377373.550 3747422.969 19.35
   LOCATION L0002654     VOLUME   377377.208 3747422.986 19.38
   LOCATION L0002655     VOLUME   377380.865 3747423.003 19.40
   LOCATION L0002656     VOLUME   377384.523 3747423.021 19.42
   LOCATION L0002657     VOLUME   377388.180 3747423.038 19.45
   LOCATION L0002658     VOLUME   377391.838 3747423.055 19.47
   LOCATION L0002659     VOLUME   377395.495 3747423.072 19.50
   LOCATION L0002660     VOLUME   377399.153 3747423.089 19.52
   LOCATION L0002661     VOLUME   377402.810 3747423.106 19.55
   LOCATION L0002662     VOLUME   377406.468 3747423.123 19.57
   LOCATION L0002663     VOLUME   377410.126 3747423.141 19.59
   LOCATION L0002664     VOLUME   377413.783 3747423.158 19.62
   LOCATION L0002665     VOLUME   377417.441 3747423.175 19.64
   LOCATION L0002666     VOLUME   377421.098 3747423.192 19.67
   LOCATION L0002667     VOLUME   377424.756 3747423.209 19.70
   LOCATION L0002668     VOLUME   377428.413 3747423.226 19.72
   LOCATION L0002669     VOLUME   377432.071 3747423.243 19.75
   LOCATION L0002670     VOLUME   377435.728 3747423.261 19.78
   LOCATION L0002671     VOLUME   377439.386 3747423.278 19.80
   LOCATION L0002672     VOLUME   377443.044 3747423.295 19.83
   LOCATION L0002673     VOLUME   377446.701 3747423.312 19.86
```

```
   LOCATION L0002674     VOLUME   377450.359 3747423.329 19.88
   LOCATION L0002675     VOLUME   377454.016 3747423.346 19.90
   LOCATION L0002676     VOLUME   377457.674 3747423.363 19.92
   LOCATION L0002677     VOLUME   377461.331 3747423.381 19.94
   LOCATION L0002678     VOLUME   377464.989 3747423.398 19.96
   LOCATION L0002679     VOLUME   377468.647 3747423.415 19.98
   LOCATION L0002680     VOLUME   377472.304 3747423.432 20.00
   LOCATION L0002681     VOLUME   377475.962 3747423.449 20.03
   LOCATION L0002682     VOLUME   377479.619 3747423.466 20.06
   LOCATION L0002683     VOLUME   377483.277 3747423.483 20.08
   LOCATION L0002684     VOLUME   377486.934 3747423.501 20.11
   LOCATION L0002685     VOLUME   377490.592 3747423.518 20.14
   LOCATION L0002686     VOLUME   377494.249 3747423.535 20.16
   LOCATION L0002687     VOLUME   377497.907 3747423.552 20.19
   LOCATION L0002688     VOLUME   377501.565 3747423.569 20.20
   LOCATION L0002689     VOLUME   377505.222 3747423.586 20.21
   LOCATION L0002690     VOLUME   377508.880 3747423.604 20.22
   LOCATION L0002691     VOLUME   377512.537 3747423.621 20.23
   LOCATION L0002692     VOLUME   377516.195 3747423.638 20.23
   LOCATION L0002693     VOLUME   377519.852 3747423.655 20.24
   LOCATION L0002694     VOLUME   377523.510 3747423.672 20.24
   LOCATION L0002695     VOLUME   377527.167 3747423.689 20.28
   LOCATION L0002696     VOLUME   377530.825 3747423.706 20.33
   LOCATION L0002697     VOLUME   377534.483 3747423.724 20.38
   LOCATION L0002698     VOLUME   377538.140 3747423.741 20.43
   LOCATION L0002699     VOLUME   377541.798 3747423.758 20.48
   LOCATION L0002700     VOLUME   377545.455 3747423.775 20.53
   LOCATION L0002701     VOLUME   377549.113 3747423.792 20.58
   LOCATION L0002702     VOLUME   377552.770 3747423.809 20.59
   LOCATION L0002703     VOLUME   377556.428 3747423.826 20.57
   LOCATION L0002704     VOLUME   377560.085 3747423.844 20.56
   LOCATION L0002705     VOLUME   377563.743 3747423.861 20.54
   LOCATION L0002706     VOLUME   377567.401 3747423.878 20.53
   LOCATION L0002707     VOLUME   377571.058 3747423.895 20.52
   LOCATION L0002708     VOLUME   377574.716 3747423.912 20.50
   LOCATION L0002709     VOLUME   377578.373 3747423.929 20.46
   LOCATION L0002710     VOLUME   377582.031 3747423.946 20.42
   LOCATION L0002711     VOLUME   377585.688 3747423.964 20.37
   LOCATION L0002712     VOLUME   377589.346 3747423.981 20.32
   LOCATION L0002713     VOLUME   377593.004 3747423.998 20.27
   LOCATION L0002714     VOLUME   377596.661 3747424.015 20.23
** End of LINE VOLUME Source ID = SLINE1
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE2
** DESCRSRC Onsite travel from driveway 2
** PREFIX
** Length of Side = 3.66
** Configuration = Adjacent
** Emission Rate = 1.37E-06
** Elevated
```

```
** Building Height = 10.97
** SZINIT = 5.10
** Nodes = 2
** 377606.877, 3747423.569, 20.16, 0.00, 1.70
** 377607.327, 3747251.736, 19.20, 0.00, 1.70
** ------------------------------------------------------------------
   LOCATION L0002715     VOLUME   377606.881 3747421.740 20.14
   LOCATION L0002716     VOLUME   377606.891 3747418.082 20.19
   LOCATION L0002717     VOLUME   377606.901 3747414.425 20.23
   LOCATION L0002718     VOLUME   377606.910 3747410.767 20.28
   LOCATION L0002719     VOLUME   377606.920 3747407.110 20.32
   LOCATION L0002720     VOLUME   377606.929 3747403.452 20.34
   LOCATION L0002721     VOLUME   377606.939 3747399.794 20.34
   LOCATION L0002722     VOLUME   377606.948 3747396.137 20.33
   LOCATION L0002723     VOLUME   377606.958 3747392.479 20.33
   LOCATION L0002724     VOLUME   377606.968 3747388.822 20.33
   LOCATION L0002725     VOLUME   377606.977 3747385.164 20.33
   LOCATION L0002726     VOLUME   377606.987 3747381.507 20.33
   LOCATION L0002727     VOLUME   377606.996 3747377.849 20.32
   LOCATION L0002728     VOLUME   377607.006 3747374.191 20.32
   LOCATION L0002729     VOLUME   377607.016 3747370.534 20.26
   LOCATION L0002730     VOLUME   377607.025 3747366.876 20.20
   LOCATION L0002731     VOLUME   377607.035 3747363.219 20.14
   LOCATION L0002732     VOLUME   377607.044 3747359.561 20.08
   LOCATION L0002733     VOLUME   377607.054 3747355.903 20.03
   LOCATION L0002734     VOLUME   377607.063 3747352.246 19.97
   LOCATION L0002735     VOLUME   377607.073 3747348.588 19.91
   LOCATION L0002736     VOLUME   377607.083 3747344.931 19.86
   LOCATION L0002737     VOLUME   377607.092 3747341.273 19.82
   LOCATION L0002738     VOLUME   377607.102 3747337.615 19.78
   LOCATION L0002739     VOLUME   377607.111 3747333.958 19.75
   LOCATION L0002740     VOLUME   377607.121 3747330.300 19.72
   LOCATION L0002741     VOLUME   377607.130 3747326.643 19.69
   LOCATION L0002742     VOLUME   377607.140 3747322.985 19.66
   LOCATION L0002743     VOLUME   377607.150 3747319.328 19.63
   LOCATION L0002744     VOLUME   377607.159 3747315.670 19.60
   LOCATION L0002745     VOLUME   377607.169 3747312.012 19.58
   LOCATION L0002746     VOLUME   377607.178 3747308.355 19.60
   LOCATION L0002747     VOLUME   377607.188 3747304.697 19.63
   LOCATION L0002748     VOLUME   377607.197 3747301.040 19.65
   LOCATION L0002749     VOLUME   377607.207 3747297.382 19.67
   LOCATION L0002750     VOLUME   377607.217 3747293.724 19.69
   LOCATION L0002751     VOLUME   377607.226 3747290.067 19.71
   LOCATION L0002752     VOLUME   377607.236 3747286.409 19.73
   LOCATION L0002753     VOLUME   377607.245 3747282.752 19.75
   LOCATION L0002754     VOLUME   377607.255 3747279.094 19.70
   LOCATION L0002755     VOLUME   377607.264 3747275.436 19.64
   LOCATION L0002756     VOLUME   377607.274 3747271.779 19.57
   LOCATION L0002757     VOLUME   377607.284 3747268.121 19.50
   LOCATION L0002758     VOLUME   377607.293 3747264.464 19.43
   LOCATION L0002759     VOLUME   377607.303 3747260.806 19.37
```

```
   LOCATION L0002760     VOLUME   377607.312 3747257.149 19.30
   LOCATION L0002761     VOLUME   377607.322 3747253.491 19.23
** End of LINE VOLUME Source ID = SLINE2
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE3
** DESCRSRC Crenshaw Blvd NB n/o Project Driveway 3
** PREFIX
** Length of Side = 3.66
** Configuration = Adjacent
** Emission Rate = 4.25E-06
** Elevated
** Vertical Dimension = 3.66
** SZINIT = 0.85
** Nodes = 2
** 377299.844, 3747422.000, 18.66, 0.00, 1.70
** 377297.707, 3747846.534, 20.45, 0.00, 1.70
** ----------------------------------------------------------------------
   LOCATION L0002762     VOLUME   377299.835 3747423.829 18.87
   LOCATION L0002763     VOLUME   377299.816 3747427.486 18.92
   LOCATION L0002764     VOLUME   377299.798 3747431.144 18.98
   LOCATION L0002765     VOLUME   377299.780 3747434.801 19.03
   LOCATION L0002766     VOLUME   377299.761 3747438.459 19.08
   LOCATION L0002767     VOLUME   377299.743 3747442.117 19.09
   LOCATION L0002768     VOLUME   377299.724 3747445.774 19.08
   LOCATION L0002769     VOLUME   377299.706 3747449.432 19.06
   LOCATION L0002770     VOLUME   377299.688 3747453.089 19.04
   LOCATION L0002771     VOLUME   377299.669 3747456.747 19.03
   LOCATION L0002772     VOLUME   377299.651 3747460.404 19.01
   LOCATION L0002773     VOLUME   377299.632 3747464.062 19.00
   LOCATION L0002774     VOLUME   377299.614 3747467.719 18.98
   LOCATION L0002775     VOLUME   377299.595 3747471.377 18.97
   LOCATION L0002776     VOLUME   377299.577 3747475.035 19.00
   LOCATION L0002777     VOLUME   377299.559 3747478.692 19.04
   LOCATION L0002778     VOLUME   377299.540 3747482.350 19.07
   LOCATION L0002779     VOLUME   377299.522 3747486.007 19.11
   LOCATION L0002780     VOLUME   377299.503 3747489.665 19.14
   LOCATION L0002781     VOLUME   377299.485 3747493.322 19.17
   LOCATION L0002782     VOLUME   377299.467 3747496.980 19.21
   LOCATION L0002783     VOLUME   377299.448 3747500.637 19.24
   LOCATION L0002784     VOLUME   377299.430 3747504.295 19.25
   LOCATION L0002785     VOLUME   377299.411 3747507.953 19.24
   LOCATION L0002786     VOLUME   377299.393 3747511.610 19.24
   LOCATION L0002787     VOLUME   377299.375 3747515.268 19.23
   LOCATION L0002788     VOLUME   377299.356 3747518.925 19.22
   LOCATION L0002789     VOLUME   377299.338 3747522.583 19.22
   LOCATION L0002790     VOLUME   377299.319 3747526.240 19.21
   LOCATION L0002791     VOLUME   377299.301 3747529.898 19.20
   LOCATION L0002792     VOLUME   377299.283 3747533.555 19.20
   LOCATION L0002793     VOLUME   377299.264 3747537.213 19.21
   LOCATION L0002794     VOLUME   377299.246 3747540.870 19.21
```

```
LOCATION L0002795     VOLUME   377299.227 3747544.528 19.22
LOCATION L0002796     VOLUME   377299.209 3747548.186 19.23
LOCATION L0002797     VOLUME   377299.190 3747551.843 19.24
LOCATION L0002798     VOLUME   377299.172 3747555.501 19.24
LOCATION L0002799     VOLUME   377299.154 3747559.158 19.25
LOCATION L0002800     VOLUME   377299.135 3747562.816 19.26
LOCATION L0002801     VOLUME   377299.117 3747566.473 19.29
LOCATION L0002802     VOLUME   377299.098 3747570.131 19.33
LOCATION L0002803     VOLUME   377299.080 3747573.788 19.37
LOCATION L0002804     VOLUME   377299.062 3747577.446 19.41
LOCATION L0002805     VOLUME   377299.043 3747581.104 19.45
LOCATION L0002806     VOLUME   377299.025 3747584.761 19.49
LOCATION L0002807     VOLUME   377299.006 3747588.419 19.53
LOCATION L0002808     VOLUME   377298.988 3747592.076 19.57
LOCATION L0002809     VOLUME   377298.970 3747595.734 19.60
LOCATION L0002810     VOLUME   377298.951 3747599.391 19.63
LOCATION L0002811     VOLUME   377298.933 3747603.049 19.67
LOCATION L0002812     VOLUME   377298.914 3747606.706 19.70
LOCATION L0002813     VOLUME   377298.896 3747610.364 19.73
LOCATION L0002814     VOLUME   377298.878 3747614.022 19.76
LOCATION L0002815     VOLUME   377298.859 3747617.679 19.79
LOCATION L0002816     VOLUME   377298.841 3747621.337 19.82
LOCATION L0002817     VOLUME   377298.822 3747624.994 19.85
LOCATION L0002818     VOLUME   377298.804 3747628.652 19.88
LOCATION L0002819     VOLUME   377298.785 3747632.309 19.90
LOCATION L0002820     VOLUME   377298.767 3747635.967 19.92
LOCATION L0002821     VOLUME   377298.749 3747639.624 19.95
LOCATION L0002822     VOLUME   377298.730 3747643.282 19.97
LOCATION L0002823     VOLUME   377298.712 3747646.940 20.00
LOCATION L0002824     VOLUME   377298.693 3747650.597 20.02
LOCATION L0002825     VOLUME   377298.675 3747654.255 20.05
LOCATION L0002826     VOLUME   377298.657 3747657.912 20.07
LOCATION L0002827     VOLUME   377298.638 3747661.570 20.10
LOCATION L0002828     VOLUME   377298.620 3747665.227 20.12
LOCATION L0002829     VOLUME   377298.601 3747668.885 20.15
LOCATION L0002830     VOLUME   377298.583 3747672.542 20.18
LOCATION L0002831     VOLUME   377298.565 3747676.200 20.20
LOCATION L0002832     VOLUME   377298.546 3747679.858 20.23
LOCATION L0002833     VOLUME   377298.528 3747683.515 20.26
LOCATION L0002834     VOLUME   377298.509 3747687.173 20.28
LOCATION L0002835     VOLUME   377298.491 3747690.830 20.31
LOCATION L0002836     VOLUME   377298.473 3747694.488 20.34
LOCATION L0002837     VOLUME   377298.454 3747698.145 20.38
LOCATION L0002838     VOLUME   377298.436 3747701.803 20.41
LOCATION L0002839     VOLUME   377298.417 3747705.460 20.44
LOCATION L0002840     VOLUME   377298.399 3747709.118 20.47
LOCATION L0002841     VOLUME   377298.380 3747712.776 20.50
LOCATION L0002842     VOLUME   377298.362 3747716.433 20.53
LOCATION L0002843     VOLUME   377298.344 3747720.091 20.55
LOCATION L0002844     VOLUME   377298.325 3747723.748 20.57
LOCATION L0002845     VOLUME   377298.307 3747727.406 20.59
```

```
   LOCATION L0002846     VOLUME   377298.288 3747731.063 20.61
   LOCATION L0002847     VOLUME   377298.270 3747734.721 20.62
   LOCATION L0002848     VOLUME   377298.252 3747738.378 20.64
   LOCATION L0002849     VOLUME   377298.233 3747742.036 20.66
   LOCATION L0002850     VOLUME   377298.215 3747745.693 20.68
   LOCATION L0002851     VOLUME   377298.196 3747749.351 20.69
   LOCATION L0002852     VOLUME   377298.178 3747753.009 20.69
   LOCATION L0002853     VOLUME   377298.160 3747756.666 20.69
   LOCATION L0002854     VOLUME   377298.141 3747760.324 20.70
   LOCATION L0002855     VOLUME   377298.123 3747763.981 20.70
   LOCATION L0002856     VOLUME   377298.104 3747767.639 20.70
   LOCATION L0002857     VOLUME   377298.086 3747771.296 20.70
   LOCATION L0002858     VOLUME   377298.068 3747774.954 20.70
   LOCATION L0002859     VOLUME   377298.049 3747778.611 20.70
   LOCATION L0002860     VOLUME   377298.031 3747782.269 20.69
   LOCATION L0002861     VOLUME   377298.012 3747785.927 20.67
   LOCATION L0002862     VOLUME   377297.994 3747789.584 20.65
   LOCATION L0002863     VOLUME   377297.975 3747793.242 20.63
   LOCATION L0002864     VOLUME   377297.957 3747796.899 20.61
   LOCATION L0002865     VOLUME   377297.939 3747800.557 20.60
   LOCATION L0002866     VOLUME   377297.920 3747804.214 20.58
   LOCATION L0002867     VOLUME   377297.902 3747807.872 20.56
   LOCATION L0002868     VOLUME   377297.883 3747811.529 20.55
   LOCATION L0002869     VOLUME   377297.865 3747815.187 20.53
   LOCATION L0002870     VOLUME   377297.847 3747818.845 20.52
   LOCATION L0002871     VOLUME   377297.828 3747822.502 20.50
   LOCATION L0002872     VOLUME   377297.810 3747826.160 20.48
   LOCATION L0002873     VOLUME   377297.791 3747829.817 20.47
   LOCATION L0002874     VOLUME   377297.773 3747833.475 20.45
   LOCATION L0002875     VOLUME   377297.755 3747837.132 20.44
   LOCATION L0002876     VOLUME   377297.736 3747840.790 20.42
   LOCATION L0002877     VOLUME   377297.718 3747844.447 20.40
** End of LINE VOLUME Source ID = SLINE3
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE4
** DESCRSRC Crenshaw Blvd n/o 190th St
** PREFIX
** Length of Side = 3.66
** Configuration = Adjacent
** Emission Rate = 1.22E-06
** Elevated
** Vertical Dimension = 3.66
** SZINIT = 0.85
** Nodes = 6
** 377156.337, 3747243.729, 18.13, 0.00, 1.70
** 377233.697, 3747379.881, 18.46, 0.00, 1.70
** 377255.357, 3747420.108, 18.51, 0.00, 1.70
** 377271.860, 3747448.989, 18.72, 0.00, 1.70
** 377280.112, 3747463.429, 18.72, 0.00, 1.70
** 377289.395, 3747481.996, 19.00, 0.00, 1.70
```

```
** ----------------------------------------------------------------------
   LOCATION L0002878     VOLUME   377157.241 3747245.319 18.15
   LOCATION L0002879     VOLUME   377159.048 3747248.499 18.13
   LOCATION L0002880     VOLUME   377160.854 3747251.679 18.12
   LOCATION L0002881     VOLUME   377162.661 3747254.859 18.10
   LOCATION L0002882     VOLUME   377164.468 3747258.039 18.08
   LOCATION L0002883     VOLUME   377166.275 3747261.220 18.06
   LOCATION L0002884     VOLUME   377168.082 3747264.400 18.04
   LOCATION L0002885     VOLUME   377169.889 3747267.580 18.03
   LOCATION L0002886     VOLUME   377171.696 3747270.760 18.03
   LOCATION L0002887     VOLUME   377173.503 3747273.940 18.03
   LOCATION L0002888     VOLUME   377175.310 3747277.120 18.04
   LOCATION L0002889     VOLUME   377177.116 3747280.300 18.06
   LOCATION L0002890     VOLUME   377178.923 3747283.480 18.09
   LOCATION L0002891     VOLUME   377180.730 3747286.661 18.12
   LOCATION L0002892     VOLUME   377182.537 3747289.841 18.14
   LOCATION L0002893     VOLUME   377184.344 3747293.021 18.15
   LOCATION L0002894     VOLUME   377186.151 3747296.201 18.17
   LOCATION L0002895     VOLUME   377187.958 3747299.381 18.18
   LOCATION L0002896     VOLUME   377189.765 3747302.561 18.19
   LOCATION L0002897     VOLUME   377191.572 3747305.741 18.19
   LOCATION L0002898     VOLUME   377193.378 3747308.921 18.18
   LOCATION L0002899     VOLUME   377195.185 3747312.102 18.18
   LOCATION L0002900     VOLUME   377196.992 3747315.282 18.17
   LOCATION L0002901     VOLUME   377198.799 3747318.462 18.16
   LOCATION L0002902     VOLUME   377200.606 3747321.642 18.14
   LOCATION L0002903     VOLUME   377202.413 3747324.822 18.14
   LOCATION L0002904     VOLUME   377204.220 3747328.002 18.14
   LOCATION L0002905     VOLUME   377206.027 3747331.182 18.15
   LOCATION L0002906     VOLUME   377207.834 3747334.362 18.17
   LOCATION L0002907     VOLUME   377209.640 3747337.543 18.20
   LOCATION L0002908     VOLUME   377211.447 3747340.723 18.24
   LOCATION L0002909     VOLUME   377213.254 3747343.903 18.28
   LOCATION L0002910     VOLUME   377215.061 3747347.083 18.33
   LOCATION L0002911     VOLUME   377216.868 3747350.263 18.34
   LOCATION L0002912     VOLUME   377218.675 3747353.443 18.31
   LOCATION L0002913     VOLUME   377220.482 3747356.623 18.29
   LOCATION L0002914     VOLUME   377222.289 3747359.803 18.28
   LOCATION L0002915     VOLUME   377224.096 3747362.984 18.27
   LOCATION L0002916     VOLUME   377225.902 3747366.164 18.27
   LOCATION L0002917     VOLUME   377227.709 3747369.344 18.28
   LOCATION L0002918     VOLUME   377229.516 3747372.524 18.29
   LOCATION L0002919     VOLUME   377231.323 3747375.704 18.32
   LOCATION L0002920     VOLUME   377233.130 3747378.884 18.34
   LOCATION L0002921     VOLUME   377234.887 3747382.092 18.38
   LOCATION L0002922     VOLUME   377236.621 3747385.312 18.40
   LOCATION L0002923     VOLUME   377238.355 3747388.533 18.43
   LOCATION L0002924     VOLUME   377240.089 3747391.753 18.44
   LOCATION L0002925     VOLUME   377241.823 3747394.974 18.45
   LOCATION L0002926     VOLUME   377243.557 3747398.194 18.44
   LOCATION L0002927     VOLUME   377245.291 3747401.414 18.43
```

```
   LOCATION L0002928     VOLUME   377247.025 3747404.635 18.43
   LOCATION L0002929     VOLUME   377248.759 3747407.855 18.43
   LOCATION L0002930     VOLUME   377250.493 3747411.076 18.43
   LOCATION L0002931     VOLUME   377252.228 3747414.296 18.43
   LOCATION L0002932     VOLUME   377253.962 3747417.517 18.44
   LOCATION L0002933     VOLUME   377255.711 3747420.728 18.46
   LOCATION L0002934     VOLUME   377257.526 3747423.904 18.48
   LOCATION L0002935     VOLUME   377259.341 3747427.080 18.51
   LOCATION L0002936     VOLUME   377261.155 3747430.255 18.55
   LOCATION L0002937     VOLUME   377262.970 3747433.431 18.59
   LOCATION L0002938     VOLUME   377264.785 3747436.607 18.64
   LOCATION L0002939     VOLUME   377266.599 3747439.782 18.70
   LOCATION L0002940     VOLUME   377268.414 3747442.958 18.72
   LOCATION L0002941     VOLUME   377270.229 3747446.134 18.72
   LOCATION L0002942     VOLUME   377272.044 3747449.309 18.71
   LOCATION L0002943     VOLUME   377273.858 3747452.485 18.71
   LOCATION L0002944     VOLUME   377275.673 3747455.661 18.70
   LOCATION L0002945     VOLUME   377277.488 3747458.836 18.71
   LOCATION L0002946     VOLUME   377279.302 3747462.012 18.71
   LOCATION L0002947     VOLUME   377281.018 3747465.241 18.71
   LOCATION L0002948     VOLUME   377282.654 3747468.512 18.71
   LOCATION L0002949     VOLUME   377284.289 3747471.784 18.73
   LOCATION L0002950     VOLUME   377285.925 3747475.055 18.77
   LOCATION L0002951     VOLUME   377287.561 3747478.327 18.82
   LOCATION L0002952     VOLUME   377289.196 3747481.598 18.88
** End of LINE VOLUME Source ID = SLINE4
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE5
** DESCRSRC 190th St west of 405 fwy SB ramps
** PREFIX
** Length of Side = 3.66
** Configuration = Adjacent
** Emission Rate = 0.0000111
** Elevated
** Vertical Dimension = 3.66
** SZINIT = 0.85
** Nodes = 2
** 377162.491, 3747238.163, 18.10, 0.00, 1.70
** 378701.707, 3747243.918, 18.18, 0.00, 1.70
** ----------------------------------------------------------------------
   LOCATION L0002953     VOLUME   377164.319 3747238.170 18.07
   LOCATION L0002954     VOLUME   377167.977 3747238.184 18.06
   LOCATION L0002955     VOLUME   377171.634 3747238.198 18.04
   LOCATION L0002956     VOLUME   377175.292 3747238.211 18.03
   LOCATION L0002957     VOLUME   377178.950 3747238.225 18.01
   LOCATION L0002958     VOLUME   377182.607 3747238.239 18.00
   LOCATION L0002959     VOLUME   377186.265 3747238.252 17.98
   LOCATION L0002960     VOLUME   377189.922 3747238.266 17.97
   LOCATION L0002961     VOLUME   377193.580 3747238.280 17.97
   LOCATION L0002962     VOLUME   377197.237 3747238.293 17.97
```

```
LOCATION L0002963     VOLUME   377200.895 3747238.307 17.97
LOCATION L0002964     VOLUME   377204.553 3747238.321 17.96
LOCATION L0002965     VOLUME   377208.210 3747238.334 17.96
LOCATION L0002966     VOLUME   377211.868 3747238.348 17.96
LOCATION L0002967     VOLUME   377215.525 3747238.362 17.94
LOCATION L0002968     VOLUME   377219.183 3747238.375 17.89
LOCATION L0002969     VOLUME   377222.840 3747238.389 17.85
LOCATION L0002970     VOLUME   377226.498 3747238.403 17.81
LOCATION L0002971     VOLUME   377230.156 3747238.416 17.77
LOCATION L0002972     VOLUME   377233.813 3747238.430 17.73
LOCATION L0002973     VOLUME   377237.471 3747238.444 17.68
LOCATION L0002974     VOLUME   377241.128 3747238.457 17.67
LOCATION L0002975     VOLUME   377244.786 3747238.471 17.68
LOCATION L0002976     VOLUME   377248.444 3747238.485 17.70
LOCATION L0002977     VOLUME   377252.101 3747238.499 17.71
LOCATION L0002978     VOLUME   377255.759 3747238.512 17.73
LOCATION L0002979     VOLUME   377259.416 3747238.526 17.74
LOCATION L0002980     VOLUME   377263.074 3747238.540 17.76
LOCATION L0002981     VOLUME   377266.731 3747238.553 17.77
LOCATION L0002982     VOLUME   377270.389 3747238.567 17.78
LOCATION L0002983     VOLUME   377274.047 3747238.581 17.79
LOCATION L0002984     VOLUME   377277.704 3747238.594 17.81
LOCATION L0002985     VOLUME   377281.362 3747238.608 17.82
LOCATION L0002986     VOLUME   377285.019 3747238.622 17.83
LOCATION L0002987     VOLUME   377288.677 3747238.635 17.84
LOCATION L0002988     VOLUME   377292.334 3747238.649 17.86
LOCATION L0002989     VOLUME   377295.992 3747238.663 17.90
LOCATION L0002990     VOLUME   377299.650 3747238.676 17.93
LOCATION L0002991     VOLUME   377303.307 3747238.690 17.97
LOCATION L0002992     VOLUME   377306.965 3747238.704 18.01
LOCATION L0002993     VOLUME   377310.622 3747238.717 18.05
LOCATION L0002994     VOLUME   377314.280 3747238.731 18.09
LOCATION L0002995     VOLUME   377317.937 3747238.745 18.13
LOCATION L0002996     VOLUME   377321.595 3747238.758 18.17
LOCATION L0002997     VOLUME   377325.253 3747238.772 18.22
LOCATION L0002998     VOLUME   377328.910 3747238.786 18.26
LOCATION L0002999     VOLUME   377332.568 3747238.799 18.31
LOCATION L0003000     VOLUME   377336.225 3747238.813 18.36
LOCATION L0003001     VOLUME   377339.883 3747238.827 18.40
LOCATION L0003002     VOLUME   377343.540 3747238.840 18.44
LOCATION L0003003     VOLUME   377347.198 3747238.854 18.48
LOCATION L0003004     VOLUME   377350.856 3747238.868 18.52
LOCATION L0003005     VOLUME   377354.513 3747238.881 18.56
LOCATION L0003006     VOLUME   377358.171 3747238.895 18.60
LOCATION L0003007     VOLUME   377361.828 3747238.909 18.64
LOCATION L0003008     VOLUME   377365.486 3747238.922 18.68
LOCATION L0003009     VOLUME   377369.143 3747238.936 18.72
LOCATION L0003010     VOLUME   377372.801 3747238.950 18.75
LOCATION L0003011     VOLUME   377376.459 3747238.963 18.78
LOCATION L0003012     VOLUME   377380.116 3747238.977 18.80
LOCATION L0003013     VOLUME   377383.774 3747238.991 18.83
```

```
LOCATION L0003014     VOLUME   377387.431 3747239.004 18.86
LOCATION L0003015     VOLUME   377391.089 3747239.018 18.89
LOCATION L0003016     VOLUME   377394.746 3747239.032 18.93
LOCATION L0003017     VOLUME   377398.404 3747239.045 18.98
LOCATION L0003018     VOLUME   377402.062 3747239.059 19.04
LOCATION L0003019     VOLUME   377405.719 3747239.073 19.09
LOCATION L0003020     VOLUME   377409.377 3747239.087 19.15
LOCATION L0003021     VOLUME   377413.034 3747239.100 19.20
LOCATION L0003022     VOLUME   377416.692 3747239.114 19.26
LOCATION L0003023     VOLUME   377420.350 3747239.128 19.31
LOCATION L0003024     VOLUME   377424.007 3747239.141 19.35
LOCATION L0003025     VOLUME   377427.665 3747239.155 19.39
LOCATION L0003026     VOLUME   377431.322 3747239.169 19.43
LOCATION L0003027     VOLUME   377434.980 3747239.182 19.46
LOCATION L0003028     VOLUME   377438.637 3747239.196 19.50
LOCATION L0003029     VOLUME   377442.295 3747239.210 19.54
LOCATION L0003030     VOLUME   377445.953 3747239.223 19.58
LOCATION L0003031     VOLUME   377449.610 3747239.237 19.61
LOCATION L0003032     VOLUME   377453.268 3747239.251 19.65
LOCATION L0003033     VOLUME   377456.925 3747239.264 19.68
LOCATION L0003034     VOLUME   377460.583 3747239.278 19.71
LOCATION L0003035     VOLUME   377464.240 3747239.292 19.74
LOCATION L0003036     VOLUME   377467.898 3747239.305 19.78
LOCATION L0003037     VOLUME   377471.556 3747239.319 19.80
LOCATION L0003038     VOLUME   377475.213 3747239.333 19.80
LOCATION L0003039     VOLUME   377478.871 3747239.346 19.80
LOCATION L0003040     VOLUME   377482.528 3747239.360 19.80
LOCATION L0003041     VOLUME   377486.186 3747239.374 19.79
LOCATION L0003042     VOLUME   377489.843 3747239.387 19.79
LOCATION L0003043     VOLUME   377493.501 3747239.401 19.79
LOCATION L0003044     VOLUME   377497.159 3747239.415 19.78
LOCATION L0003045     VOLUME   377500.816 3747239.428 19.76
LOCATION L0003046     VOLUME   377504.474 3747239.442 19.74
LOCATION L0003047     VOLUME   377508.131 3747239.456 19.72
LOCATION L0003048     VOLUME   377511.789 3747239.469 19.70
LOCATION L0003049     VOLUME   377515.446 3747239.483 19.68
LOCATION L0003050     VOLUME   377519.104 3747239.497 19.66
LOCATION L0003051     VOLUME   377522.762 3747239.510 19.64
LOCATION L0003052     VOLUME   377526.419 3747239.524 19.62
LOCATION L0003053     VOLUME   377530.077 3747239.538 19.60
LOCATION L0003054     VOLUME   377533.734 3747239.551 19.58
LOCATION L0003055     VOLUME   377537.392 3747239.565 19.56
LOCATION L0003056     VOLUME   377541.049 3747239.579 19.54
LOCATION L0003057     VOLUME   377544.707 3747239.592 19.53
LOCATION L0003058     VOLUME   377548.365 3747239.606 19.51
LOCATION L0003059     VOLUME   377552.022 3747239.620 19.50
LOCATION L0003060     VOLUME   377555.680 3747239.634 19.49
LOCATION L0003061     VOLUME   377559.337 3747239.647 19.47
LOCATION L0003062     VOLUME   377562.995 3747239.661 19.46
LOCATION L0003063     VOLUME   377566.652 3747239.675 19.45
LOCATION L0003064     VOLUME   377570.310 3747239.688 19.44
```

```
LOCATION L0003065     VOLUME   377573.968 3747239.702 19.43
LOCATION L0003066     VOLUME   377577.625 3747239.716 19.40
LOCATION L0003067     VOLUME   377581.283 3747239.729 19.37
LOCATION L0003068     VOLUME   377584.940 3747239.743 19.34
LOCATION L0003069     VOLUME   377588.598 3747239.757 19.31
LOCATION L0003070     VOLUME   377592.256 3747239.770 19.28
LOCATION L0003071     VOLUME   377595.913 3747239.784 19.25
LOCATION L0003072     VOLUME   377599.571 3747239.798 19.23
LOCATION L0003073     VOLUME   377603.228 3747239.811 19.21
LOCATION L0003074     VOLUME   377606.886 3747239.825 19.20
LOCATION L0003075     VOLUME   377610.543 3747239.839 19.19
LOCATION L0003076     VOLUME   377614.201 3747239.852 19.18
LOCATION L0003077     VOLUME   377617.859 3747239.866 19.16
LOCATION L0003078     VOLUME   377621.516 3747239.880 19.15
LOCATION L0003079     VOLUME   377625.174 3747239.893 19.14
LOCATION L0003080     VOLUME   377628.831 3747239.907 19.12
LOCATION L0003081     VOLUME   377632.489 3747239.921 19.09
LOCATION L0003082     VOLUME   377636.146 3747239.934 19.07
LOCATION L0003083     VOLUME   377639.804 3747239.948 19.05
LOCATION L0003084     VOLUME   377643.462 3747239.962 19.03
LOCATION L0003085     VOLUME   377647.119 3747239.975 19.01
LOCATION L0003086     VOLUME   377650.777 3747239.989 18.99
LOCATION L0003087     VOLUME   377654.434 3747240.003 18.96
LOCATION L0003088     VOLUME   377658.092 3747240.016 18.94
LOCATION L0003089     VOLUME   377661.749 3747240.030 18.91
LOCATION L0003090     VOLUME   377665.407 3747240.044 18.89
LOCATION L0003091     VOLUME   377669.065 3747240.057 18.86
LOCATION L0003092     VOLUME   377672.722 3747240.071 18.84
LOCATION L0003093     VOLUME   377676.380 3747240.085 18.81
LOCATION L0003094     VOLUME   377680.037 3747240.098 18.79
LOCATION L0003095     VOLUME   377683.695 3747240.112 18.78
LOCATION L0003096     VOLUME   377687.352 3747240.126 18.76
LOCATION L0003097     VOLUME   377691.010 3747240.139 18.74
LOCATION L0003098     VOLUME   377694.668 3747240.153 18.73
LOCATION L0003099     VOLUME   377698.325 3747240.167 18.71
LOCATION L0003100     VOLUME   377701.983 3747240.181 18.69
LOCATION L0003101     VOLUME   377705.640 3747240.194 18.67
LOCATION L0003102     VOLUME   377709.298 3747240.208 18.65
LOCATION L0003103     VOLUME   377712.955 3747240.222 18.63
LOCATION L0003104     VOLUME   377716.613 3747240.235 18.61
LOCATION L0003105     VOLUME   377720.271 3747240.249 18.59
LOCATION L0003106     VOLUME   377723.928 3747240.263 18.56
LOCATION L0003107     VOLUME   377727.586 3747240.276 18.54
LOCATION L0003108     VOLUME   377731.243 3747240.290 18.52
LOCATION L0003109     VOLUME   377734.901 3747240.304 18.49
LOCATION L0003110     VOLUME   377738.558 3747240.317 18.47
LOCATION L0003111     VOLUME   377742.216 3747240.331 18.44
LOCATION L0003112     VOLUME   377745.874 3747240.345 18.42
LOCATION L0003113     VOLUME   377749.531 3747240.358 18.40
LOCATION L0003114     VOLUME   377753.189 3747240.372 18.37
LOCATION L0003115     VOLUME   377756.846 3747240.386 18.34
```

```
LOCATION L0003116     VOLUME   377760.504 3747240.399 18.31
LOCATION L0003117     VOLUME   377764.162 3747240.413 18.29
LOCATION L0003118     VOLUME   377767.819 3747240.427 18.26
LOCATION L0003119     VOLUME   377771.477 3747240.440 18.23
LOCATION L0003120     VOLUME   377775.134 3747240.454 18.20
LOCATION L0003121     VOLUME   377778.792 3747240.468 18.17
LOCATION L0003122     VOLUME   377782.449 3747240.481 18.18
LOCATION L0003123     VOLUME   377786.107 3747240.495 18.19
LOCATION L0003124     VOLUME   377789.765 3747240.509 18.19
LOCATION L0003125     VOLUME   377793.422 3747240.522 18.20
LOCATION L0003126     VOLUME   377797.080 3747240.536 18.21
LOCATION L0003127     VOLUME   377800.737 3747240.550 18.22
LOCATION L0003128     VOLUME   377804.395 3747240.563 18.23
LOCATION L0003129     VOLUME   377808.052 3747240.577 18.23
LOCATION L0003130     VOLUME   377811.710 3747240.591 18.24
LOCATION L0003131     VOLUME   377815.368 3747240.604 18.25
LOCATION L0003132     VOLUME   377819.025 3747240.618 18.26
LOCATION L0003133     VOLUME   377822.683 3747240.632 18.26
LOCATION L0003134     VOLUME   377826.340 3747240.645 18.27
LOCATION L0003135     VOLUME   377829.998 3747240.659 18.28
LOCATION L0003136     VOLUME   377833.655 3747240.673 18.28
LOCATION L0003137     VOLUME   377837.313 3747240.686 18.29
LOCATION L0003138     VOLUME   377840.971 3747240.700 18.29
LOCATION L0003139     VOLUME   377844.628 3747240.714 18.29
LOCATION L0003140     VOLUME   377848.286 3747240.728 18.29
LOCATION L0003141     VOLUME   377851.943 3747240.741 18.29
LOCATION L0003142     VOLUME   377855.601 3747240.755 18.30
LOCATION L0003143     VOLUME   377859.258 3747240.769 18.32
LOCATION L0003144     VOLUME   377862.916 3747240.782 18.34
LOCATION L0003145     VOLUME   377866.574 3747240.796 18.36
LOCATION L0003146     VOLUME   377870.231 3747240.810 18.39
LOCATION L0003147     VOLUME   377873.889 3747240.823 18.41
LOCATION L0003148     VOLUME   377877.546 3747240.837 18.44
LOCATION L0003149     VOLUME   377881.204 3747240.851 18.46
LOCATION L0003150     VOLUME   377884.861 3747240.864 18.49
LOCATION L0003151     VOLUME   377888.519 3747240.878 18.51
LOCATION L0003152     VOLUME   377892.177 3747240.892 18.54
LOCATION L0003153     VOLUME   377895.834 3747240.905 18.56
LOCATION L0003154     VOLUME   377899.492 3747240.919 18.59
LOCATION L0003155     VOLUME   377903.149 3747240.933 18.61
LOCATION L0003156     VOLUME   377906.807 3747240.946 18.64
LOCATION L0003157     VOLUME   377910.464 3747240.960 18.66
LOCATION L0003158     VOLUME   377914.122 3747240.974 18.68
LOCATION L0003159     VOLUME   377917.780 3747240.987 18.71
LOCATION L0003160     VOLUME   377921.437 3747241.001 18.73
LOCATION L0003161     VOLUME   377925.095 3747241.015 18.76
LOCATION L0003162     VOLUME   377928.752 3747241.028 18.78
LOCATION L0003163     VOLUME   377932.410 3747241.042 18.81
LOCATION L0003164     VOLUME   377936.068 3747241.056 18.85
LOCATION L0003165     VOLUME   377939.725 3747241.069 18.90
LOCATION L0003166     VOLUME   377943.383 3747241.083 18.95
```

```
LOCATION L0003167     VOLUME   377947.040 3747241.097 19.00
LOCATION L0003168     VOLUME   377950.698 3747241.110 19.05
LOCATION L0003169     VOLUME   377954.355 3747241.124 19.10
LOCATION L0003170     VOLUME   377958.013 3747241.138 19.15
LOCATION L0003171     VOLUME   377961.671 3747241.151 19.17
LOCATION L0003172     VOLUME   377965.328 3747241.165 19.17
LOCATION L0003173     VOLUME   377968.986 3747241.179 19.17
LOCATION L0003174     VOLUME   377972.643 3747241.192 19.17
LOCATION L0003175     VOLUME   377976.301 3747241.206 19.16
LOCATION L0003176     VOLUME   377979.958 3747241.220 19.16
LOCATION L0003177     VOLUME   377983.616 3747241.233 19.16
LOCATION L0003178     VOLUME   377987.274 3747241.247 19.17
LOCATION L0003179     VOLUME   377990.931 3747241.261 19.19
LOCATION L0003180     VOLUME   377994.589 3747241.274 19.20
LOCATION L0003181     VOLUME   377998.246 3747241.288 19.22
LOCATION L0003182     VOLUME   378001.904 3747241.302 19.24
LOCATION L0003183     VOLUME   378005.561 3747241.316 19.25
LOCATION L0003184     VOLUME   378009.219 3747241.329 19.27
LOCATION L0003185     VOLUME   378012.877 3747241.343 19.28
LOCATION L0003186     VOLUME   378016.534 3747241.357 19.30
LOCATION L0003187     VOLUME   378020.192 3747241.370 19.31
LOCATION L0003188     VOLUME   378023.849 3747241.384 19.32
LOCATION L0003189     VOLUME   378027.507 3747241.398 19.34
LOCATION L0003190     VOLUME   378031.164 3747241.411 19.35
LOCATION L0003191     VOLUME   378034.822 3747241.425 19.37
LOCATION L0003192     VOLUME   378038.480 3747241.439 19.40
LOCATION L0003193     VOLUME   378042.137 3747241.452 19.44
LOCATION L0003194     VOLUME   378045.795 3747241.466 19.49
LOCATION L0003195     VOLUME   378049.452 3747241.480 19.53
LOCATION L0003196     VOLUME   378053.110 3747241.493 19.57
LOCATION L0003197     VOLUME   378056.767 3747241.507 19.62
LOCATION L0003198     VOLUME   378060.425 3747241.521 19.66
LOCATION L0003199     VOLUME   378064.083 3747241.534 19.68
LOCATION L0003200     VOLUME   378067.740 3747241.548 19.69
LOCATION L0003201     VOLUME   378071.398 3747241.562 19.70
LOCATION L0003202     VOLUME   378075.055 3747241.575 19.70
LOCATION L0003203     VOLUME   378078.713 3747241.589 19.71
LOCATION L0003204     VOLUME   378082.370 3747241.603 19.72
LOCATION L0003205     VOLUME   378086.028 3747241.616 19.72
LOCATION L0003206     VOLUME   378089.686 3747241.630 19.74
LOCATION L0003207     VOLUME   378093.343 3747241.644 19.76
LOCATION L0003208     VOLUME   378097.001 3747241.657 19.78
LOCATION L0003209     VOLUME   378100.658 3747241.671 19.80
LOCATION L0003210     VOLUME   378104.316 3747241.685 19.83
LOCATION L0003211     VOLUME   378107.974 3747241.698 19.85
LOCATION L0003212     VOLUME   378111.631 3747241.712 19.87
LOCATION L0003213     VOLUME   378115.289 3747241.726 19.88
LOCATION L0003214     VOLUME   378118.946 3747241.739 19.89
LOCATION L0003215     VOLUME   378122.604 3747241.753 19.90
LOCATION L0003216     VOLUME   378126.261 3747241.767 19.90
LOCATION L0003217     VOLUME   378129.919 3747241.780 19.91
```

```
LOCATION L0003218     VOLUME   378133.577 3747241.794 19.91
LOCATION L0003219     VOLUME   378137.234 3747241.808 19.92
LOCATION L0003220     VOLUME   378140.892 3747241.821 19.92
LOCATION L0003221     VOLUME   378144.549 3747241.835 19.91
LOCATION L0003222     VOLUME   378148.207 3747241.849 19.91
LOCATION L0003223     VOLUME   378151.864 3747241.863 19.91
LOCATION L0003224     VOLUME   378155.522 3747241.876 19.90
LOCATION L0003225     VOLUME   378159.180 3747241.890 19.90
LOCATION L0003226     VOLUME   378162.837 3747241.904 19.90
LOCATION L0003227     VOLUME   378166.495 3747241.917 19.88
LOCATION L0003228     VOLUME   378170.152 3747241.931 19.84
LOCATION L0003229     VOLUME   378173.810 3747241.945 19.80
LOCATION L0003230     VOLUME   378177.467 3747241.958 19.77
LOCATION L0003231     VOLUME   378181.125 3747241.972 19.73
LOCATION L0003232     VOLUME   378184.783 3747241.986 19.69
LOCATION L0003233     VOLUME   378188.440 3747241.999 19.66
LOCATION L0003234     VOLUME   378192.098 3747242.013 19.64
LOCATION L0003235     VOLUME   378195.755 3747242.027 19.66
LOCATION L0003236     VOLUME   378199.413 3747242.040 19.67
LOCATION L0003237     VOLUME   378203.070 3747242.054 19.68
LOCATION L0003238     VOLUME   378206.728 3747242.068 19.69
LOCATION L0003239     VOLUME   378210.386 3747242.081 19.70
LOCATION L0003240     VOLUME   378214.043 3747242.095 19.71
LOCATION L0003241     VOLUME   378217.701 3747242.109 19.71
LOCATION L0003242     VOLUME   378221.358 3747242.122 19.70
LOCATION L0003243     VOLUME   378225.016 3747242.136 19.70
LOCATION L0003244     VOLUME   378228.673 3747242.150 19.69
LOCATION L0003245     VOLUME   378232.331 3747242.163 19.68
LOCATION L0003246     VOLUME   378235.989 3747242.177 19.67
LOCATION L0003247     VOLUME   378239.646 3747242.191 19.66
LOCATION L0003248     VOLUME   378243.304 3747242.204 19.64
LOCATION L0003249     VOLUME   378246.961 3747242.218 19.59
LOCATION L0003250     VOLUME   378250.619 3747242.232 19.54
LOCATION L0003251     VOLUME   378254.276 3747242.245 19.50
LOCATION L0003252     VOLUME   378257.934 3747242.259 19.45
LOCATION L0003253     VOLUME   378261.592 3747242.273 19.40
LOCATION L0003254     VOLUME   378265.249 3747242.286 19.35
LOCATION L0003255     VOLUME   378268.907 3747242.300 19.33
LOCATION L0003256     VOLUME   378272.564 3747242.314 19.34
LOCATION L0003257     VOLUME   378276.222 3747242.327 19.36
LOCATION L0003258     VOLUME   378279.880 3747242.341 19.37
LOCATION L0003259     VOLUME   378283.537 3747242.355 19.39
LOCATION L0003260     VOLUME   378287.195 3747242.368 19.40
LOCATION L0003261     VOLUME   378290.852 3747242.382 19.42
LOCATION L0003262     VOLUME   378294.510 3747242.396 19.43
LOCATION L0003263     VOLUME   378298.167 3747242.410 19.42
LOCATION L0003264     VOLUME   378301.825 3747242.423 19.42
LOCATION L0003265     VOLUME   378305.483 3747242.437 19.42
LOCATION L0003266     VOLUME   378309.140 3747242.451 19.41
LOCATION L0003267     VOLUME   378312.798 3747242.464 19.41
LOCATION L0003268     VOLUME   378316.455 3747242.478 19.41
```

```
LOCATION L0003269     VOLUME   378320.113 3747242.492 19.40
LOCATION L0003270     VOLUME   378323.770 3747242.505 19.37
LOCATION L0003271     VOLUME   378327.428 3747242.519 19.35
LOCATION L0003272     VOLUME   378331.086 3747242.533 19.32
LOCATION L0003273     VOLUME   378334.743 3747242.546 19.30
LOCATION L0003274     VOLUME   378338.401 3747242.560 19.27
LOCATION L0003275     VOLUME   378342.058 3747242.574 19.25
LOCATION L0003276     VOLUME   378345.716 3747242.587 19.23
LOCATION L0003277     VOLUME   378349.373 3747242.601 19.22
LOCATION L0003278     VOLUME   378353.031 3747242.615 19.22
LOCATION L0003279     VOLUME   378356.689 3747242.628 19.21
LOCATION L0003280     VOLUME   378360.346 3747242.642 19.20
LOCATION L0003281     VOLUME   378364.004 3747242.656 19.20
LOCATION L0003282     VOLUME   378367.661 3747242.669 19.19
LOCATION L0003283     VOLUME   378371.319 3747242.683 19.18
LOCATION L0003284     VOLUME   378374.976 3747242.697 19.19
LOCATION L0003285     VOLUME   378378.634 3747242.710 19.19
LOCATION L0003286     VOLUME   378382.292 3747242.724 19.19
LOCATION L0003287     VOLUME   378385.949 3747242.738 19.19
LOCATION L0003288     VOLUME   378389.607 3747242.751 19.19
LOCATION L0003289     VOLUME   378393.264 3747242.765 19.19
LOCATION L0003290     VOLUME   378396.922 3747242.779 19.18
LOCATION L0003291     VOLUME   378400.579 3747242.792 19.15
LOCATION L0003292     VOLUME   378404.237 3747242.806 19.12
LOCATION L0003293     VOLUME   378407.895 3747242.820 19.09
LOCATION L0003294     VOLUME   378411.552 3747242.833 19.05
LOCATION L0003295     VOLUME   378415.210 3747242.847 19.02
LOCATION L0003296     VOLUME   378418.867 3747242.861 18.99
LOCATION L0003297     VOLUME   378422.525 3747242.874 18.97
LOCATION L0003298     VOLUME   378426.182 3747242.888 19.00
LOCATION L0003299     VOLUME   378429.840 3747242.902 19.03
LOCATION L0003300     VOLUME   378433.498 3747242.915 19.07
LOCATION L0003301     VOLUME   378437.155 3747242.929 19.10
LOCATION L0003302     VOLUME   378440.813 3747242.943 19.13
LOCATION L0003303     VOLUME   378444.470 3747242.957 19.17
LOCATION L0003304     VOLUME   378448.128 3747242.970 19.19
LOCATION L0003305     VOLUME   378451.786 3747242.984 19.19
LOCATION L0003306     VOLUME   378455.443 3747242.998 19.18
LOCATION L0003307     VOLUME   378459.101 3747243.011 19.18
LOCATION L0003308     VOLUME   378462.758 3747243.025 19.17
LOCATION L0003309     VOLUME   378466.416 3747243.039 19.17
LOCATION L0003310     VOLUME   378470.073 3747243.052 19.17
LOCATION L0003311     VOLUME   378473.731 3747243.066 19.16
LOCATION L0003312     VOLUME   378477.389 3747243.080 19.14
LOCATION L0003313     VOLUME   378481.046 3747243.093 19.11
LOCATION L0003314     VOLUME   378484.704 3747243.107 19.08
LOCATION L0003315     VOLUME   378488.361 3747243.121 19.06
LOCATION L0003316     VOLUME   378492.019 3747243.134 19.03
LOCATION L0003317     VOLUME   378495.676 3747243.148 19.01
LOCATION L0003318     VOLUME   378499.334 3747243.162 18.98
LOCATION L0003319     VOLUME   378502.992 3747243.175 18.96
```

```
LOCATION L0003320     VOLUME   378506.649 3747243.189 18.94
LOCATION L0003321     VOLUME   378510.307 3747243.203 18.92
LOCATION L0003322     VOLUME   378513.964 3747243.216 18.90
LOCATION L0003323     VOLUME   378517.622 3747243.230 18.88
LOCATION L0003324     VOLUME   378521.279 3747243.244 18.87
LOCATION L0003325     VOLUME   378524.937 3747243.257 18.85
LOCATION L0003326     VOLUME   378528.595 3747243.271 18.83
LOCATION L0003327     VOLUME   378532.252 3747243.285 18.82
LOCATION L0003328     VOLUME   378535.910 3747243.298 18.81
LOCATION L0003329     VOLUME   378539.567 3747243.312 18.79
LOCATION L0003330     VOLUME   378543.225 3747243.326 18.78
LOCATION L0003331     VOLUME   378546.882 3747243.339 18.76
LOCATION L0003332     VOLUME   378550.540 3747243.353 18.75
LOCATION L0003333     VOLUME   378554.198 3747243.367 18.72
LOCATION L0003334     VOLUME   378557.855 3747243.380 18.70
LOCATION L0003335     VOLUME   378561.513 3747243.394 18.68
LOCATION L0003336     VOLUME   378565.170 3747243.408 18.66
LOCATION L0003337     VOLUME   378568.828 3747243.421 18.63
LOCATION L0003338     VOLUME   378572.485 3747243.435 18.61
LOCATION L0003339     VOLUME   378576.143 3747243.449 18.59
LOCATION L0003340     VOLUME   378579.801 3747243.462 18.60
LOCATION L0003341     VOLUME   378583.458 3747243.476 18.61
LOCATION L0003342     VOLUME   378587.116 3747243.490 18.62
LOCATION L0003343     VOLUME   378590.773 3747243.504 18.63
LOCATION L0003344     VOLUME   378594.431 3747243.517 18.65
LOCATION L0003345     VOLUME   378598.088 3747243.531 18.66
LOCATION L0003346     VOLUME   378601.746 3747243.545 18.67
LOCATION L0003347     VOLUME   378605.404 3747243.558 18.68
LOCATION L0003348     VOLUME   378609.061 3747243.572 18.68
LOCATION L0003349     VOLUME   378612.719 3747243.586 18.69
LOCATION L0003350     VOLUME   378616.376 3747243.599 18.69
LOCATION L0003351     VOLUME   378620.034 3747243.613 18.69
LOCATION L0003352     VOLUME   378623.692 3747243.627 18.70
LOCATION L0003353     VOLUME   378627.349 3747243.640 18.70
LOCATION L0003354     VOLUME   378631.007 3747243.654 18.68
LOCATION L0003355     VOLUME   378634.664 3747243.668 18.65
LOCATION L0003356     VOLUME   378638.322 3747243.681 18.63
LOCATION L0003357     VOLUME   378641.979 3747243.695 18.60
LOCATION L0003358     VOLUME   378645.637 3747243.709 18.57
LOCATION L0003359     VOLUME   378649.295 3747243.722 18.55
LOCATION L0003360     VOLUME   378652.952 3747243.736 18.52
LOCATION L0003361     VOLUME   378656.610 3747243.750 18.49
LOCATION L0003362     VOLUME   378660.267 3747243.763 18.47
LOCATION L0003363     VOLUME   378663.925 3747243.777 18.44
LOCATION L0003364     VOLUME   378667.582 3747243.791 18.41
LOCATION L0003365     VOLUME   378671.240 3747243.804 18.39
LOCATION L0003366     VOLUME   378674.898 3747243.818 18.36
LOCATION L0003367     VOLUME   378678.555 3747243.832 18.33
LOCATION L0003368     VOLUME   378682.213 3747243.845 18.33
LOCATION L0003369     VOLUME   378685.870 3747243.859 18.34
LOCATION L0003370     VOLUME   378689.528 3747243.873 18.35
```

```
   LOCATION L0003371     VOLUME   378693.185 3747243.886 18.35
   LOCATION L0003372     VOLUME   378696.843 3747243.900 18.36
   LOCATION L0003373     VOLUME   378700.501 3747243.914 18.36
** End of LINE VOLUME Source ID = SLINE5
** Source Parameters **
   SRCPARAM STCK1         0.000013     3.658   366.000  51.90000     0.091
   SRCPARAM STCK2         0.000013     3.658   366.000  51.90000     0.091
   SRCPARAM STCK3         0.000013     3.658   366.000  51.90000     0.091
   SRCPARAM STCK4         0.000013     3.658   366.000  51.90000     0.091
   SRCPARAM STCK5         0.000013     3.658   366.000  51.90000     0.091
   SRCPARAM STCK6         0.000013     3.658   366.000  51.90000     0.091
** LINE VOLUME Source ID = SLINE1
   SRCPARAM L0002636     0.00000002911      0.00      1.70      5.10
   SRCPARAM L0002637     0.00000002911      0.00      1.70      5.10
   SRCPARAM L0002638     0.00000002911      0.00      1.70      5.10
   SRCPARAM L0002639     0.00000002911      0.00      1.70      5.10
   SRCPARAM L0002640     0.00000002911      0.00      1.70      5.10
   SRCPARAM L0002641     0.00000002911      0.00      1.70      5.10
   SRCPARAM L0002642     0.00000002911      0.00      1.70      5.10
   SRCPARAM L0002643     0.00000002911      0.00      1.70      5.10
   SRCPARAM L0002644     0.00000002911      0.00      1.70      5.10
   SRCPARAM L0002645     0.00000002911      0.00      1.70      5.10
   SRCPARAM L0002646     0.00000002911      0.00      1.70      5.10
   SRCPARAM L0002647     0.00000002911      0.00      1.70      5.10
   SRCPARAM L0002648     0.00000002911      0.00      1.70      5.10
   SRCPARAM L0002649     0.00000002911      0.00      1.70      5.10
   SRCPARAM L0002650     0.00000002911      0.00      1.70      5.10
   SRCPARAM L0002651     0.00000002911      0.00      1.70      5.10
   SRCPARAM L0002652     0.00000002911      0.00      1.70      5.10
   SRCPARAM L0002653     0.00000002911      0.00      1.70      5.10
   SRCPARAM L0002654     0.00000002911      0.00      1.70      5.10
   SRCPARAM L0002655     0.00000002911      0.00      1.70      5.10
   SRCPARAM L0002656     0.00000002911      0.00      1.70      5.10
   SRCPARAM L0002657     0.00000002911      0.00      1.70      5.10
   SRCPARAM L0002658     0.00000002911      0.00      1.70      5.10
   SRCPARAM L0002659     0.00000002911      0.00      1.70      5.10
   SRCPARAM L0002660     0.00000002911      0.00      1.70      5.10
   SRCPARAM L0002661     0.00000002911      0.00      1.70      5.10
   SRCPARAM L0002662     0.00000002911      0.00      1.70      5.10
   SRCPARAM L0002663     0.00000002911      0.00      1.70      5.10
   SRCPARAM L0002664     0.00000002911      0.00      1.70      5.10
   SRCPARAM L0002665     0.00000002911      0.00      1.70      5.10
   SRCPARAM L0002666     0.00000002911      0.00      1.70      5.10
   SRCPARAM L0002667     0.00000002911      0.00      1.70      5.10
   SRCPARAM L0002668     0.00000002911      0.00      1.70      5.10
   SRCPARAM L0002669     0.00000002911      0.00      1.70      5.10
   SRCPARAM L0002670     0.00000002911      0.00      1.70      5.10
   SRCPARAM L0002671     0.00000002911      0.00      1.70      5.10
   SRCPARAM L0002672     0.00000002911      0.00      1.70      5.10
   SRCPARAM L0002673     0.00000002911      0.00      1.70      5.10
   SRCPARAM L0002674     0.00000002911      0.00      1.70      5.10
```

```
   SRCPARAM L0002675     0.00000002911      0.00      1.70      5.10
   SRCPARAM L0002676     0.00000002911      0.00      1.70      5.10
   SRCPARAM L0002677     0.00000002911      0.00      1.70      5.10
   SRCPARAM L0002678     0.00000002911      0.00      1.70      5.10
   SRCPARAM L0002679     0.00000002911      0.00      1.70      5.10
   SRCPARAM L0002680     0.00000002911      0.00      1.70      5.10
   SRCPARAM L0002681     0.00000002911      0.00      1.70      5.10
   SRCPARAM L0002682     0.00000002911      0.00      1.70      5.10
   SRCPARAM L0002683     0.00000002911      0.00      1.70      5.10
   SRCPARAM L0002684     0.00000002911      0.00      1.70      5.10
   SRCPARAM L0002685     0.00000002911      0.00      1.70      5.10
   SRCPARAM L0002686     0.00000002911      0.00      1.70      5.10
   SRCPARAM L0002687     0.00000002911      0.00      1.70      5.10
   SRCPARAM L0002688     0.00000002911      0.00      1.70      5.10
   SRCPARAM L0002689     0.00000002911      0.00      1.70      5.10
   SRCPARAM L0002690     0.00000002911      0.00      1.70      5.10
   SRCPARAM L0002691     0.00000002911      0.00      1.70      5.10
   SRCPARAM L0002692     0.00000002911      0.00      1.70      5.10
   SRCPARAM L0002693     0.00000002911      0.00      1.70      5.10
   SRCPARAM L0002694     0.00000002911      0.00      1.70      5.10
   SRCPARAM L0002695     0.00000002911      0.00      1.70      5.10
   SRCPARAM L0002696     0.00000002911      0.00      1.70      5.10
   SRCPARAM L0002697     0.00000002911      0.00      1.70      5.10
   SRCPARAM L0002698     0.00000002911      0.00      1.70      5.10
   SRCPARAM L0002699     0.00000002911      0.00      1.70      5.10
   SRCPARAM L0002700     0.00000002911      0.00      1.70      5.10
   SRCPARAM L0002701     0.00000002911      0.00      1.70      5.10
   SRCPARAM L0002702     0.00000002911      0.00      1.70      5.10
   SRCPARAM L0002703     0.00000002911      0.00      1.70      5.10
   SRCPARAM L0002704     0.00000002911      0.00      1.70      5.10
   SRCPARAM L0002705     0.00000002911      0.00      1.70      5.10
   SRCPARAM L0002706     0.00000002911      0.00      1.70      5.10
   SRCPARAM L0002707     0.00000002911      0.00      1.70      5.10
   SRCPARAM L0002708     0.00000002911      0.00      1.70      5.10
   SRCPARAM L0002709     0.00000002911      0.00      1.70      5.10
   SRCPARAM L0002710     0.00000002911      0.00      1.70      5.10
   SRCPARAM L0002711     0.00000002911      0.00      1.70      5.10
   SRCPARAM L0002712     0.00000002911      0.00      1.70      5.10
   SRCPARAM L0002713     0.00000002911      0.00      1.70      5.10
   SRCPARAM L0002714     0.00000002911      0.00      1.70      5.10
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE2
   SRCPARAM L0002715     0.00000002915      0.00      1.70      5.10
   SRCPARAM L0002716     0.00000002915      0.00      1.70      5.10
   SRCPARAM L0002717     0.00000002915      0.00      1.70      5.10
   SRCPARAM L0002718     0.00000002915      0.00      1.70      5.10
   SRCPARAM L0002719     0.00000002915      0.00      1.70      5.10
   SRCPARAM L0002720     0.00000002915      0.00      1.70      5.10
   SRCPARAM L0002721     0.00000002915      0.00      1.70      5.10
   SRCPARAM L0002722     0.00000002915      0.00      1.70      5.10
   SRCPARAM L0002723     0.00000002915      0.00      1.70      5.10
```

```
   SRCPARAM L0002724     0.00000002915      0.00      1.70      5.10
   SRCPARAM L0002725     0.00000002915      0.00      1.70      5.10
   SRCPARAM L0002726     0.00000002915      0.00      1.70      5.10
   SRCPARAM L0002727     0.00000002915      0.00      1.70      5.10
   SRCPARAM L0002728     0.00000002915      0.00      1.70      5.10
   SRCPARAM L0002729     0.00000002915      0.00      1.70      5.10
   SRCPARAM L0002730     0.00000002915      0.00      1.70      5.10
   SRCPARAM L0002731     0.00000002915      0.00      1.70      5.10
   SRCPARAM L0002732     0.00000002915      0.00      1.70      5.10
   SRCPARAM L0002733     0.00000002915      0.00      1.70      5.10
   SRCPARAM L0002734     0.00000002915      0.00      1.70      5.10
   SRCPARAM L0002735     0.00000002915      0.00      1.70      5.10
   SRCPARAM L0002736     0.00000002915      0.00      1.70      5.10
   SRCPARAM L0002737     0.00000002915      0.00      1.70      5.10
   SRCPARAM L0002738     0.00000002915      0.00      1.70      5.10
   SRCPARAM L0002739     0.00000002915      0.00      1.70      5.10
   SRCPARAM L0002740     0.00000002915      0.00      1.70      5.10
   SRCPARAM L0002741     0.00000002915      0.00      1.70      5.10
   SRCPARAM L0002742     0.00000002915      0.00      1.70      5.10
   SRCPARAM L0002743     0.00000002915      0.00      1.70      5.10
   SRCPARAM L0002744     0.00000002915      0.00      1.70      5.10
   SRCPARAM L0002745     0.00000002915      0.00      1.70      5.10
   SRCPARAM L0002746     0.00000002915      0.00      1.70      5.10
   SRCPARAM L0002747     0.00000002915      0.00      1.70      5.10
   SRCPARAM L0002748     0.00000002915      0.00      1.70      5.10
   SRCPARAM L0002749     0.00000002915      0.00      1.70      5.10
   SRCPARAM L0002750     0.00000002915      0.00      1.70      5.10
   SRCPARAM L0002751     0.00000002915      0.00      1.70      5.10
   SRCPARAM L0002752     0.00000002915      0.00      1.70      5.10
   SRCPARAM L0002753     0.00000002915      0.00      1.70      5.10
   SRCPARAM L0002754     0.00000002915      0.00      1.70      5.10
   SRCPARAM L0002755     0.00000002915      0.00      1.70      5.10
   SRCPARAM L0002756     0.00000002915      0.00      1.70      5.10
   SRCPARAM L0002757     0.00000002915      0.00      1.70      5.10
   SRCPARAM L0002758     0.00000002915      0.00      1.70      5.10
   SRCPARAM L0002759     0.00000002915      0.00      1.70      5.10
   SRCPARAM L0002760     0.00000002915      0.00      1.70      5.10
   SRCPARAM L0002761     0.00000002915      0.00      1.70      5.10
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE3
   SRCPARAM L0002762     0.00000003664      0.00      1.70      0.85
   SRCPARAM L0002763     0.00000003664      0.00      1.70      0.85
   SRCPARAM L0002764     0.00000003664      0.00      1.70      0.85
   SRCPARAM L0002765     0.00000003664      0.00      1.70      0.85
   SRCPARAM L0002766     0.00000003664      0.00      1.70      0.85
   SRCPARAM L0002767     0.00000003664      0.00      1.70      0.85
   SRCPARAM L0002768     0.00000003664      0.00      1.70      0.85
   SRCPARAM L0002769     0.00000003664      0.00      1.70      0.85
   SRCPARAM L0002770     0.00000003664      0.00      1.70      0.85
   SRCPARAM L0002771     0.00000003664      0.00      1.70      0.85
   SRCPARAM L0002772     0.00000003664      0.00      1.70      0.85
```

```
SRCPARAM L0002773     0.00000003664      0.00      1.70      0.85
SRCPARAM L0002774     0.00000003664      0.00      1.70      0.85
SRCPARAM L0002775     0.00000003664      0.00      1.70      0.85
SRCPARAM L0002776     0.00000003664      0.00      1.70      0.85
SRCPARAM L0002777     0.00000003664      0.00      1.70      0.85
SRCPARAM L0002778     0.00000003664      0.00      1.70      0.85
SRCPARAM L0002779     0.00000003664      0.00      1.70      0.85
SRCPARAM L0002780     0.00000003664      0.00      1.70      0.85
SRCPARAM L0002781     0.00000003664      0.00      1.70      0.85
SRCPARAM L0002782     0.00000003664      0.00      1.70      0.85
SRCPARAM L0002783     0.00000003664      0.00      1.70      0.85
SRCPARAM L0002784     0.00000003664      0.00      1.70      0.85
SRCPARAM L0002785     0.00000003664      0.00      1.70      0.85
SRCPARAM L0002786     0.00000003664      0.00      1.70      0.85
SRCPARAM L0002787     0.00000003664      0.00      1.70      0.85
SRCPARAM L0002788     0.00000003664      0.00      1.70      0.85
SRCPARAM L0002789     0.00000003664      0.00      1.70      0.85
SRCPARAM L0002790     0.00000003664      0.00      1.70      0.85
SRCPARAM L0002791     0.00000003664      0.00      1.70      0.85
SRCPARAM L0002792     0.00000003664      0.00      1.70      0.85
SRCPARAM L0002793     0.00000003664      0.00      1.70      0.85
SRCPARAM L0002794     0.00000003664      0.00      1.70      0.85
SRCPARAM L0002795     0.00000003664      0.00      1.70      0.85
SRCPARAM L0002796     0.00000003664      0.00      1.70      0.85
SRCPARAM L0002797     0.00000003664      0.00      1.70      0.85
SRCPARAM L0002798     0.00000003664      0.00      1.70      0.85
SRCPARAM L0002799     0.00000003664      0.00      1.70      0.85
SRCPARAM L0002800     0.00000003664      0.00      1.70      0.85
SRCPARAM L0002801     0.00000003664      0.00      1.70      0.85
SRCPARAM L0002802     0.00000003664      0.00      1.70      0.85
SRCPARAM L0002803     0.00000003664      0.00      1.70      0.85
SRCPARAM L0002804     0.00000003664      0.00      1.70      0.85
SRCPARAM L0002805     0.00000003664      0.00      1.70      0.85
SRCPARAM L0002806     0.00000003664      0.00      1.70      0.85
SRCPARAM L0002807     0.00000003664      0.00      1.70      0.85
SRCPARAM L0002808     0.00000003664      0.00      1.70      0.85
SRCPARAM L0002809     0.00000003664      0.00      1.70      0.85
SRCPARAM L0002810     0.00000003664      0.00      1.70      0.85
SRCPARAM L0002811     0.00000003664      0.00      1.70      0.85
SRCPARAM L0002812     0.00000003664      0.00      1.70      0.85
SRCPARAM L0002813     0.00000003664      0.00      1.70      0.85
SRCPARAM L0002814     0.00000003664      0.00      1.70      0.85
SRCPARAM L0002815     0.00000003664      0.00      1.70      0.85
SRCPARAM L0002816     0.00000003664      0.00      1.70      0.85
SRCPARAM L0002817     0.00000003664      0.00      1.70      0.85
SRCPARAM L0002818     0.00000003664      0.00      1.70      0.85
SRCPARAM L0002819     0.00000003664      0.00      1.70      0.85
SRCPARAM L0002820     0.00000003664      0.00      1.70      0.85
SRCPARAM L0002821     0.00000003664      0.00      1.70      0.85
SRCPARAM L0002822     0.00000003664      0.00      1.70      0.85
SRCPARAM L0002823     0.00000003664      0.00      1.70      0.85
```

```
SRCPARAM L0002824     0.00000003664      0.00      1.70      0.85
SRCPARAM L0002825     0.00000003664      0.00      1.70      0.85
SRCPARAM L0002826     0.00000003664      0.00      1.70      0.85
SRCPARAM L0002827     0.00000003664      0.00      1.70      0.85
SRCPARAM L0002828     0.00000003664      0.00      1.70      0.85
SRCPARAM L0002829     0.00000003664      0.00      1.70      0.85
SRCPARAM L0002830     0.00000003664      0.00      1.70      0.85
SRCPARAM L0002831     0.00000003664      0.00      1.70      0.85
SRCPARAM L0002832     0.00000003664      0.00      1.70      0.85
SRCPARAM L0002833     0.00000003664      0.00      1.70      0.85
SRCPARAM L0002834     0.00000003664      0.00      1.70      0.85
SRCPARAM L0002835     0.00000003664      0.00      1.70      0.85
SRCPARAM L0002836     0.00000003664      0.00      1.70      0.85
SRCPARAM L0002837     0.00000003664      0.00      1.70      0.85
SRCPARAM L0002838     0.00000003664      0.00      1.70      0.85
SRCPARAM L0002839     0.00000003664      0.00      1.70      0.85
SRCPARAM L0002840     0.00000003664      0.00      1.70      0.85
SRCPARAM L0002841     0.00000003664      0.00      1.70      0.85
SRCPARAM L0002842     0.00000003664      0.00      1.70      0.85
SRCPARAM L0002843     0.00000003664      0.00      1.70      0.85
SRCPARAM L0002844     0.00000003664      0.00      1.70      0.85
SRCPARAM L0002845     0.00000003664      0.00      1.70      0.85
SRCPARAM L0002846     0.00000003664      0.00      1.70      0.85
SRCPARAM L0002847     0.00000003664      0.00      1.70      0.85
SRCPARAM L0002848     0.00000003664      0.00      1.70      0.85
SRCPARAM L0002849     0.00000003664      0.00      1.70      0.85
SRCPARAM L0002850     0.00000003664      0.00      1.70      0.85
SRCPARAM L0002851     0.00000003664      0.00      1.70      0.85
SRCPARAM L0002852     0.00000003664      0.00      1.70      0.85
SRCPARAM L0002853     0.00000003664      0.00      1.70      0.85
SRCPARAM L0002854     0.00000003664      0.00      1.70      0.85
SRCPARAM L0002855     0.00000003664      0.00      1.70      0.85
SRCPARAM L0002856     0.00000003664      0.00      1.70      0.85
SRCPARAM L0002857     0.00000003664      0.00      1.70      0.85
SRCPARAM L0002858     0.00000003664      0.00      1.70      0.85
SRCPARAM L0002859     0.00000003664      0.00      1.70      0.85
SRCPARAM L0002860     0.00000003664      0.00      1.70      0.85
SRCPARAM L0002861     0.00000003664      0.00      1.70      0.85
SRCPARAM L0002862     0.00000003664      0.00      1.70      0.85
SRCPARAM L0002863     0.00000003664      0.00      1.70      0.85
SRCPARAM L0002864     0.00000003664      0.00      1.70      0.85
SRCPARAM L0002865     0.00000003664      0.00      1.70      0.85
SRCPARAM L0002866     0.00000003664      0.00      1.70      0.85
SRCPARAM L0002867     0.00000003664      0.00      1.70      0.85
SRCPARAM L0002868     0.00000003664      0.00      1.70      0.85
SRCPARAM L0002869     0.00000003664      0.00      1.70      0.85
SRCPARAM L0002870     0.00000003664      0.00      1.70      0.85
SRCPARAM L0002871     0.00000003664      0.00      1.70      0.85
SRCPARAM L0002872     0.00000003664      0.00      1.70      0.85
SRCPARAM L0002873     0.00000003664      0.00      1.70      0.85
SRCPARAM L0002874     0.00000003664      0.00      1.70      0.85
```

```
   SRCPARAM L0002875     0.00000003664      0.00      1.70      0.85
   SRCPARAM L0002876     0.00000003664      0.00      1.70      0.85
   SRCPARAM L0002877     0.00000003664      0.00      1.70      0.85
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE4
   SRCPARAM L0002878     0.00000001627      0.00      1.70      0.85
   SRCPARAM L0002879     0.00000001627      0.00      1.70      0.85
   SRCPARAM L0002880     0.00000001627      0.00      1.70      0.85
   SRCPARAM L0002881     0.00000001627      0.00      1.70      0.85
   SRCPARAM L0002882     0.00000001627      0.00      1.70      0.85
   SRCPARAM L0002883     0.00000001627      0.00      1.70      0.85
   SRCPARAM L0002884     0.00000001627      0.00      1.70      0.85
   SRCPARAM L0002885     0.00000001627      0.00      1.70      0.85
   SRCPARAM L0002886     0.00000001627      0.00      1.70      0.85
   SRCPARAM L0002887     0.00000001627      0.00      1.70      0.85
   SRCPARAM L0002888     0.00000001627      0.00      1.70      0.85
   SRCPARAM L0002889     0.00000001627      0.00      1.70      0.85
   SRCPARAM L0002890     0.00000001627      0.00      1.70      0.85
   SRCPARAM L0002891     0.00000001627      0.00      1.70      0.85
   SRCPARAM L0002892     0.00000001627      0.00      1.70      0.85
   SRCPARAM L0002893     0.00000001627      0.00      1.70      0.85
   SRCPARAM L0002894     0.00000001627      0.00      1.70      0.85
   SRCPARAM L0002895     0.00000001627      0.00      1.70      0.85
   SRCPARAM L0002896     0.00000001627      0.00      1.70      0.85
   SRCPARAM L0002897     0.00000001627      0.00      1.70      0.85
   SRCPARAM L0002898     0.00000001627      0.00      1.70      0.85
   SRCPARAM L0002899     0.00000001627      0.00      1.70      0.85
   SRCPARAM L0002900     0.00000001627      0.00      1.70      0.85
   SRCPARAM L0002901     0.00000001627      0.00      1.70      0.85
   SRCPARAM L0002902     0.00000001627      0.00      1.70      0.85
   SRCPARAM L0002903     0.00000001627      0.00      1.70      0.85
   SRCPARAM L0002904     0.00000001627      0.00      1.70      0.85
   SRCPARAM L0002905     0.00000001627      0.00      1.70      0.85
   SRCPARAM L0002906     0.00000001627      0.00      1.70      0.85
   SRCPARAM L0002907     0.00000001627      0.00      1.70      0.85
   SRCPARAM L0002908     0.00000001627      0.00      1.70      0.85
   SRCPARAM L0002909     0.00000001627      0.00      1.70      0.85
   SRCPARAM L0002910     0.00000001627      0.00      1.70      0.85
   SRCPARAM L0002911     0.00000001627      0.00      1.70      0.85
   SRCPARAM L0002912     0.00000001627      0.00      1.70      0.85
   SRCPARAM L0002913     0.00000001627      0.00      1.70      0.85
   SRCPARAM L0002914     0.00000001627      0.00      1.70      0.85
   SRCPARAM L0002915     0.00000001627      0.00      1.70      0.85
   SRCPARAM L0002916     0.00000001627      0.00      1.70      0.85
   SRCPARAM L0002917     0.00000001627      0.00      1.70      0.85
   SRCPARAM L0002918     0.00000001627      0.00      1.70      0.85
   SRCPARAM L0002919     0.00000001627      0.00      1.70      0.85
   SRCPARAM L0002920     0.00000001627      0.00      1.70      0.85
   SRCPARAM L0002921     0.00000001627      0.00      1.70      0.85
   SRCPARAM L0002922     0.00000001627      0.00      1.70      0.85
   SRCPARAM L0002923     0.00000001627      0.00      1.70      0.85
```

```
   SRCPARAM L0002924     0.00000001627      0.00      1.70      0.85
   SRCPARAM L0002925     0.00000001627      0.00      1.70      0.85
   SRCPARAM L0002926     0.00000001627      0.00      1.70      0.85
   SRCPARAM L0002927     0.00000001627      0.00      1.70      0.85
   SRCPARAM L0002928     0.00000001627      0.00      1.70      0.85
   SRCPARAM L0002929     0.00000001627      0.00      1.70      0.85
   SRCPARAM L0002930     0.00000001627      0.00      1.70      0.85
   SRCPARAM L0002931     0.00000001627      0.00      1.70      0.85
   SRCPARAM L0002932     0.00000001627      0.00      1.70      0.85
   SRCPARAM L0002933     0.00000001627      0.00      1.70      0.85
   SRCPARAM L0002934     0.00000001627      0.00      1.70      0.85
   SRCPARAM L0002935     0.00000001627      0.00      1.70      0.85
   SRCPARAM L0002936     0.00000001627      0.00      1.70      0.85
   SRCPARAM L0002937     0.00000001627      0.00      1.70      0.85
   SRCPARAM L0002938     0.00000001627      0.00      1.70      0.85
   SRCPARAM L0002939     0.00000001627      0.00      1.70      0.85
   SRCPARAM L0002940     0.00000001627      0.00      1.70      0.85
   SRCPARAM L0002941     0.00000001627      0.00      1.70      0.85
   SRCPARAM L0002942     0.00000001627      0.00      1.70      0.85
   SRCPARAM L0002943     0.00000001627      0.00      1.70      0.85
   SRCPARAM L0002944     0.00000001627      0.00      1.70      0.85
   SRCPARAM L0002945     0.00000001627      0.00      1.70      0.85
   SRCPARAM L0002946     0.00000001627      0.00      1.70      0.85
   SRCPARAM L0002947     0.00000001627      0.00      1.70      0.85
   SRCPARAM L0002948     0.00000001627      0.00      1.70      0.85
   SRCPARAM L0002949     0.00000001627      0.00      1.70      0.85
   SRCPARAM L0002950     0.00000001627      0.00      1.70      0.85
   SRCPARAM L0002951     0.00000001627      0.00      1.70      0.85
   SRCPARAM L0002952     0.00000001627      0.00      1.70      0.85
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE5
   SRCPARAM L0002953     0.00000002637      0.00      1.70      0.85
   SRCPARAM L0002954     0.00000002637      0.00      1.70      0.85
   SRCPARAM L0002955     0.00000002637      0.00      1.70      0.85
   SRCPARAM L0002956     0.00000002637      0.00      1.70      0.85
   SRCPARAM L0002957     0.00000002637      0.00      1.70      0.85
   SRCPARAM L0002958     0.00000002637      0.00      1.70      0.85
   SRCPARAM L0002959     0.00000002637      0.00      1.70      0.85
   SRCPARAM L0002960     0.00000002637      0.00      1.70      0.85
   SRCPARAM L0002961     0.00000002637      0.00      1.70      0.85
   SRCPARAM L0002962     0.00000002637      0.00      1.70      0.85
   SRCPARAM L0002963     0.00000002637      0.00      1.70      0.85
   SRCPARAM L0002964     0.00000002637      0.00      1.70      0.85
   SRCPARAM L0002965     0.00000002637      0.00      1.70      0.85
   SRCPARAM L0002966     0.00000002637      0.00      1.70      0.85
   SRCPARAM L0002967     0.00000002637      0.00      1.70      0.85
   SRCPARAM L0002968     0.00000002637      0.00      1.70      0.85
   SRCPARAM L0002969     0.00000002637      0.00      1.70      0.85
   SRCPARAM L0002970     0.00000002637      0.00      1.70      0.85
   SRCPARAM L0002971     0.00000002637      0.00      1.70      0.85
   SRCPARAM L0002972     0.00000002637      0.00      1.70      0.85
```

```
SRCPARAM L0002973     0.00000002637      0.00      1.70      0.85
SRCPARAM L0002974     0.00000002637      0.00      1.70      0.85
SRCPARAM L0002975     0.00000002637      0.00      1.70      0.85
SRCPARAM L0002976     0.00000002637      0.00      1.70      0.85
SRCPARAM L0002977     0.00000002637      0.00      1.70      0.85
SRCPARAM L0002978     0.00000002637      0.00      1.70      0.85
SRCPARAM L0002979     0.00000002637      0.00      1.70      0.85
SRCPARAM L0002980     0.00000002637      0.00      1.70      0.85
SRCPARAM L0002981     0.00000002637      0.00      1.70      0.85
SRCPARAM L0002982     0.00000002637      0.00      1.70      0.85
SRCPARAM L0002983     0.00000002637      0.00      1.70      0.85
SRCPARAM L0002984     0.00000002637      0.00      1.70      0.85
SRCPARAM L0002985     0.00000002637      0.00      1.70      0.85
SRCPARAM L0002986     0.00000002637      0.00      1.70      0.85
SRCPARAM L0002987     0.00000002637      0.00      1.70      0.85
SRCPARAM L0002988     0.00000002637      0.00      1.70      0.85
SRCPARAM L0002989     0.00000002637      0.00      1.70      0.85
SRCPARAM L0002990     0.00000002637      0.00      1.70      0.85
SRCPARAM L0002991     0.00000002637      0.00      1.70      0.85
SRCPARAM L0002992     0.00000002637      0.00      1.70      0.85
SRCPARAM L0002993     0.00000002637      0.00      1.70      0.85
SRCPARAM L0002994     0.00000002637      0.00      1.70      0.85
SRCPARAM L0002995     0.00000002637      0.00      1.70      0.85
SRCPARAM L0002996     0.00000002637      0.00      1.70      0.85
SRCPARAM L0002997     0.00000002637      0.00      1.70      0.85
SRCPARAM L0002998     0.00000002637      0.00      1.70      0.85
SRCPARAM L0002999     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003000     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003001     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003002     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003003     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003004     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003005     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003006     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003007     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003008     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003009     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003010     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003011     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003012     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003013     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003014     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003015     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003016     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003017     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003018     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003019     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003020     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003021     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003022     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003023     0.00000002637      0.00      1.70      0.85
```

```
SRCPARAM L0003024     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003025     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003026     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003027     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003028     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003029     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003030     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003031     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003032     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003033     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003034     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003035     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003036     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003037     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003038     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003039     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003040     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003041     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003042     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003043     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003044     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003045     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003046     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003047     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003048     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003049     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003050     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003051     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003052     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003053     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003054     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003055     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003056     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003057     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003058     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003059     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003060     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003061     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003062     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003063     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003064     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003065     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003066     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003067     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003068     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003069     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003070     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003071     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003072     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003073     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003074     0.00000002637      0.00      1.70      0.85
```

```
SRCPARAM L0003075     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003076     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003077     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003078     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003079     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003080     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003081     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003082     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003083     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003084     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003085     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003086     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003087     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003088     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003089     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003090     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003091     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003092     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003093     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003094     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003095     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003096     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003097     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003098     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003099     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003100     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003101     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003102     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003103     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003104     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003105     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003106     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003107     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003108     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003109     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003110     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003111     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003112     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003113     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003114     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003115     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003116     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003117     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003118     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003119     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003120     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003121     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003122     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003123     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003124     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003125     0.00000002637      0.00      1.70      0.85
```

```
SRCPARAM L0003126     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003127     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003128     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003129     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003130     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003131     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003132     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003133     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003134     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003135     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003136     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003137     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003138     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003139     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003140     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003141     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003142     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003143     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003144     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003145     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003146     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003147     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003148     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003149     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003150     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003151     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003152     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003153     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003154     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003155     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003156     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003157     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003158     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003159     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003160     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003161     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003162     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003163     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003164     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003165     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003166     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003167     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003168     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003169     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003170     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003171     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003172     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003173     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003174     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003175     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003176     0.00000002637      0.00      1.70      0.85
```

```
SRCPARAM L0003177     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003178     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003179     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003180     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003181     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003182     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003183     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003184     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003185     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003186     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003187     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003188     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003189     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003190     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003191     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003192     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003193     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003194     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003195     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003196     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003197     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003198     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003199     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003200     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003201     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003202     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003203     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003204     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003205     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003206     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003207     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003208     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003209     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003210     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003211     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003212     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003213     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003214     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003215     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003216     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003217     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003218     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003219     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003220     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003221     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003222     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003223     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003224     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003225     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003226     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003227     0.00000002637      0.00      1.70      0.85
```

```
SRCPARAM L0003228     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003229     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003230     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003231     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003232     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003233     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003234     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003235     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003236     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003237     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003238     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003239     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003240     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003241     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003242     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003243     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003244     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003245     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003246     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003247     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003248     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003249     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003250     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003251     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003252     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003253     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003254     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003255     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003256     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003257     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003258     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003259     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003260     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003261     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003262     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003263     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003264     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003265     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003266     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003267     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003268     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003269     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003270     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003271     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003272     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003273     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003274     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003275     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003276     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003277     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003278     0.00000002637      0.00      1.70      0.85
```

```
SRCPARAM L0003279     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003280     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003281     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003282     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003283     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003284     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003285     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003286     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003287     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003288     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003289     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003290     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003291     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003292     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003293     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003294     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003295     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003296     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003297     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003298     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003299     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003300     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003301     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003302     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003303     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003304     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003305     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003306     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003307     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003308     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003309     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003310     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003311     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003312     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003313     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003314     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003315     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003316     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003317     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003318     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003319     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003320     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003321     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003322     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003323     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003324     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003325     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003326     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003327     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003328     0.00000002637      0.00      1.70      0.85
SRCPARAM L0003329     0.00000002637      0.00      1.70      0.85
```

```
   SRCPARAM L0003330     0.00000002637      0.00      1.70      0.85
   SRCPARAM L0003331     0.00000002637      0.00      1.70      0.85
   SRCPARAM L0003332     0.00000002637      0.00      1.70      0.85
   SRCPARAM L0003333     0.00000002637      0.00      1.70      0.85
   SRCPARAM L0003334     0.00000002637      0.00      1.70      0.85
   SRCPARAM L0003335     0.00000002637      0.00      1.70      0.85
   SRCPARAM L0003336     0.00000002637      0.00      1.70      0.85
   SRCPARAM L0003337     0.00000002637      0.00      1.70      0.85
   SRCPARAM L0003338     0.00000002637      0.00      1.70      0.85
   SRCPARAM L0003339     0.00000002637      0.00      1.70      0.85
   SRCPARAM L0003340     0.00000002637      0.00      1.70      0.85
   SRCPARAM L0003341     0.00000002637      0.00      1.70      0.85
   SRCPARAM L0003342     0.00000002637      0.00      1.70      0.85
   SRCPARAM L0003343     0.00000002637      0.00      1.70      0.85
   SRCPARAM L0003344     0.00000002637      0.00      1.70      0.85
   SRCPARAM L0003345     0.00000002637      0.00      1.70      0.85
   SRCPARAM L0003346     0.00000002637      0.00      1.70      0.85
   SRCPARAM L0003347     0.00000002637      0.00      1.70      0.85
   SRCPARAM L0003348     0.00000002637      0.00      1.70      0.85
   SRCPARAM L0003349     0.00000002637      0.00      1.70      0.85
   SRCPARAM L0003350     0.00000002637      0.00      1.70      0.85
   SRCPARAM L0003351     0.00000002637      0.00      1.70      0.85
   SRCPARAM L0003352     0.00000002637      0.00      1.70      0.85
   SRCPARAM L0003353     0.00000002637      0.00      1.70      0.85
   SRCPARAM L0003354     0.00000002637      0.00      1.70      0.85
   SRCPARAM L0003355     0.00000002637      0.00      1.70      0.85
   SRCPARAM L0003356     0.00000002637      0.00      1.70      0.85
   SRCPARAM L0003357     0.00000002637      0.00      1.70      0.85
   SRCPARAM L0003358     0.00000002637      0.00      1.70      0.85
   SRCPARAM L0003359     0.00000002637      0.00      1.70      0.85
   SRCPARAM L0003360     0.00000002637      0.00      1.70      0.85
   SRCPARAM L0003361     0.00000002637      0.00      1.70      0.85
   SRCPARAM L0003362     0.00000002637      0.00      1.70      0.85
   SRCPARAM L0003363     0.00000002637      0.00      1.70      0.85
   SRCPARAM L0003364     0.00000002637      0.00      1.70      0.85
   SRCPARAM L0003365     0.00000002637      0.00      1.70      0.85
   SRCPARAM L0003366     0.00000002637      0.00      1.70      0.85
   SRCPARAM L0003367     0.00000002637      0.00      1.70      0.85
   SRCPARAM L0003368     0.00000002637      0.00      1.70      0.85
   SRCPARAM L0003369     0.00000002637      0.00      1.70      0.85
   SRCPARAM L0003370     0.00000002637      0.00      1.70      0.85
   SRCPARAM L0003371     0.00000002637      0.00      1.70      0.85
   SRCPARAM L0003372     0.00000002637      0.00      1.70      0.85
   SRCPARAM L0003373     0.00000002637      0.00      1.70      0.85
** ------------------------------------------------------------------

** Building Downwash **
   BUILDHGT STCK1          10.97    10.97    10.97    10.97    10.97    10.97
   BUILDHGT STCK1          10.97    10.97    10.97    10.97    10.97    10.97
   BUILDHGT STCK1          10.97    10.97    10.97    10.97    10.97    10.97
   BUILDHGT STCK1          10.97    10.97    10.97    10.97    10.97    10.97
```

| | | | | | | |
|---|---|---|---|---|---|---|
| BUILDHGT STCK1 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 |
| BUILDHGT STCK1 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 |
| BUILDHGT STCK2 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 |
| BUILDHGT STCK2 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 |
| BUILDHGT STCK2 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 |
| BUILDHGT STCK2 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 |
| BUILDHGT STCK2 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 |
| BUILDHGT STCK2 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 |
| BUILDHGT STCK3 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 |
| BUILDHGT STCK3 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 |
| BUILDHGT STCK3 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 |
| BUILDHGT STCK3 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 |
| BUILDHGT STCK3 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 |
| BUILDHGT STCK3 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 |
| BUILDHGT STCK4 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 |
| BUILDHGT STCK4 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 |
| BUILDHGT STCK4 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 |
| BUILDHGT STCK4 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 |
| BUILDHGT STCK4 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 |
| BUILDHGT STCK4 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 |
| BUILDHGT STCK5 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 |
| BUILDHGT STCK5 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 |
| BUILDHGT STCK5 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 |
| BUILDHGT STCK5 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 |
| BUILDHGT STCK5 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 |
| BUILDHGT STCK5 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 |
| BUILDHGT STCK6 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 |
| BUILDHGT STCK6 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 |
| BUILDHGT STCK6 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 |
| BUILDHGT STCK6 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 |
| BUILDHGT STCK6 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 |
| BUILDHGT STCK6 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 | 10.97 |
| BUILDWID STCK1 | 264.00 | 270.42 | 268.61 | 258.65 | 240.82 | 215.68 |
| BUILDWID STCK1 | 183.99 | 146.70 | 107.24 | 144.21 | 176.80 | 205.75 |
| BUILDWID STCK1 | 231.78 | 250.76 | 262.13 | 265.53 | 260.86 | 249.57 |
| BUILDWID STCK1 | 264.00 | 270.42 | 268.61 | 258.65 | 240.82 | 215.68 |
| BUILDWID STCK1 | 183.99 | 146.70 | 107.24 | 144.21 | 176.80 | 205.75 |
| BUILDWID STCK1 | 231.78 | 250.76 | 262.13 | 265.53 | 260.86 | 249.57 |
| BUILDWID STCK2 | 264.00 | 270.42 | 268.61 | 258.65 | 240.82 | 215.68 |
| BUILDWID STCK2 | 183.99 | 146.70 | 107.24 | 144.21 | 176.80 | 205.75 |
| BUILDWID STCK2 | 231.78 | 250.76 | 262.13 | 265.53 | 260.86 | 249.57 |
| BUILDWID STCK2 | 264.00 | 270.42 | 268.61 | 258.65 | 240.82 | 215.68 |
| BUILDWID STCK2 | 183.99 | 146.70 | 107.24 | 144.21 | 176.80 | 205.75 |
| BUILDWID STCK2 | 231.78 | 250.76 | 262.13 | 265.53 | 260.86 | 249.57 |

```
BUILDWID STCK3          264.00   270.42   268.61   258.65   240.82   215.68
BUILDWID STCK3          183.99   146.70   107.24   144.21   176.80   205.75
BUILDWID STCK3          231.78   250.76   262.13   265.53   260.86   249.57
BUILDWID STCK3          264.00   270.42   268.61   258.65   240.82   215.68
BUILDWID STCK3          183.99   146.70   107.24   144.21   176.80   205.75
BUILDWID STCK3          231.78   250.76   262.13   265.53   260.86   249.57

BUILDWID STCK4          264.00   270.42   268.61   258.65   240.82   215.68
BUILDWID STCK4          183.99   146.70   107.24   144.21   176.80   205.75
BUILDWID STCK4          231.78   250.76   262.13   265.53   260.86   249.57
BUILDWID STCK4          264.00   270.42   268.61   258.65   240.82   215.68
BUILDWID STCK4          183.99   146.70   107.24   144.21   176.80   205.75
BUILDWID STCK4          231.78   250.76   262.13   265.53   260.86   249.57

BUILDWID STCK5          264.00   270.42   268.61   258.65   240.82   215.68
BUILDWID STCK5          183.99   146.70   107.24   144.21   176.80   205.75
BUILDWID STCK5          231.78   250.76   262.13   265.53   260.86   249.57
BUILDWID STCK5          264.00   270.42   268.61   258.65   240.82   215.68
BUILDWID STCK5          183.99   146.70   107.24   144.21   176.80   205.75
BUILDWID STCK5          231.78   250.76   262.13   265.53   260.86   249.57

BUILDWID STCK6          264.00   270.42   268.61   258.65   240.82   215.68
BUILDWID STCK6          183.99   146.70   107.24   144.21   176.80   205.75
BUILDWID STCK6          231.78   250.76   262.13   265.53   260.86   249.57
BUILDWID STCK6          264.00   270.42   268.61   258.65   240.82   215.68
BUILDWID STCK6          183.99   146.70   107.24   144.21   176.80   205.75
BUILDWID STCK6          231.78   250.76   262.13   265.53   260.86   249.57

BUILDLEN STCK1          144.21   176.80   205.75   231.78   250.76   262.13
BUILDLEN STCK1          265.53   260.86   249.57   264.00   270.42   268.61
BUILDLEN STCK1          258.65   240.82   215.68   183.99   146.70   107.24
BUILDLEN STCK1          144.21   176.80   205.75   231.78   250.76   262.13
BUILDLEN STCK1          265.53   260.86   249.57   264.00   270.42   268.61
BUILDLEN STCK1          258.65   240.82   215.68   183.99   146.70   107.24

BUILDLEN STCK2          144.21   176.80   205.75   231.78   250.76   262.13
BUILDLEN STCK2          265.53   260.86   249.57   264.00   270.42   268.61
BUILDLEN STCK2          258.65   240.82   215.68   183.99   146.70   107.24
BUILDLEN STCK2          144.21   176.80   205.75   231.78   250.76   262.13
BUILDLEN STCK2          265.53   260.86   249.57   264.00   270.42   268.61
BUILDLEN STCK2          258.65   240.82   215.68   183.99   146.70   107.24

BUILDLEN STCK3          144.21   176.80   205.75   231.78   250.76   262.13
BUILDLEN STCK3          265.53   260.86   249.57   264.00   270.42   268.61
BUILDLEN STCK3          258.65   240.82   215.68   183.99   146.70   107.24
BUILDLEN STCK3          144.21   176.80   205.75   231.78   250.76   262.13
BUILDLEN STCK3          265.53   260.86   249.57   264.00   270.42   268.61
BUILDLEN STCK3          258.65   240.82   215.68   183.99   146.70   107.24

BUILDLEN STCK4          144.21   176.80   205.75   231.78   250.76   262.13
```

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| BUILDLEN | STCK4 | 265.53 | 260.86 | 249.57 | 264.00 | 270.42 | 268.61 |
| BUILDLEN | STCK4 | 258.65 | 240.82 | 215.68 | 183.99 | 146.70 | 107.24 |
| BUILDLEN | STCK4 | 144.21 | 176.80 | 205.75 | 231.78 | 250.76 | 262.13 |
| BUILDLEN | STCK4 | 265.53 | 260.86 | 249.57 | 264.00 | 270.42 | 268.61 |
| BUILDLEN | STCK4 | 258.65 | 240.82 | 215.68 | 183.99 | 146.70 | 107.24 |
| BUILDLEN | STCK5 | 144.21 | 176.80 | 205.75 | 231.78 | 250.76 | 262.13 |
| BUILDLEN | STCK5 | 265.53 | 260.86 | 249.57 | 264.00 | 270.42 | 268.61 |
| BUILDLEN | STCK5 | 258.65 | 240.82 | 215.68 | 183.99 | 146.70 | 107.24 |
| BUILDLEN | STCK5 | 144.21 | 176.80 | 205.75 | 231.78 | 250.76 | 262.13 |
| BUILDLEN | STCK5 | 265.53 | 260.86 | 249.57 | 264.00 | 270.42 | 268.61 |
| BUILDLEN | STCK5 | 258.65 | 240.82 | 215.68 | 183.99 | 146.70 | 107.24 |
| BUILDLEN | STCK6 | 144.21 | 176.80 | 205.75 | 231.78 | 250.76 | 262.13 |
| BUILDLEN | STCK6 | 265.53 | 260.86 | 249.57 | 264.00 | 270.42 | 268.61 |
| BUILDLEN | STCK6 | 258.65 | 240.82 | 215.68 | 183.99 | 146.70 | 107.24 |
| BUILDLEN | STCK6 | 144.21 | 176.80 | 205.75 | 231.78 | 250.76 | 262.13 |
| BUILDLEN | STCK6 | 265.53 | 260.86 | 249.57 | 264.00 | 270.42 | 268.61 |
| BUILDLEN | STCK6 | 258.65 | 240.82 | 215.68 | 183.99 | 146.70 | 107.24 |
| XBADJ | STCK1 | -115.36 | -116.76 | -114.61 | -108.97 | -100.03 | -88.04 |
| XBADJ | STCK1 | -73.38 | -56.50 | -38.21 | -36.96 | -34.58 | -31.16 |
| XBADJ | STCK1 | -26.78 | -21.60 | -15.75 | -9.43 | -2.82 | 3.22 |
| XBADJ | STCK1 | -28.85 | -60.04 | -91.14 | -122.80 | -150.73 | -174.08 |
| XBADJ | STCK1 | -192.15 | -204.37 | -211.36 | -227.05 | -235.84 | -237.46 |
| XBADJ | STCK1 | -231.87 | -219.23 | -199.93 | -174.56 | -143.88 | -110.46 |
| XBADJ | STCK2 | -121.68 | -128.23 | -130.88 | -129.56 | -124.30 | -115.26 |
| XBADJ | STCK2 | -102.72 | -87.06 | -69.08 | -67.19 | -63.26 | -57.41 |
| XBADJ | STCK2 | -49.81 | -40.70 | -30.35 | -19.08 | -7.23 | 4.19 |
| XBADJ | STCK2 | -22.53 | -48.57 | -74.87 | -102.22 | -126.46 | -146.87 |
| XBADJ | STCK2 | -162.80 | -173.80 | -180.49 | -196.81 | -207.16 | -211.21 |
| XBADJ | STCK2 | -208.84 | -200.13 | -185.33 | -164.91 | -139.47 | -111.43 |
| XBADJ | STCK3 | -126.63 | -137.65 | -144.49 | -146.94 | -144.93 | -138.51 |
| XBADJ | STCK3 | -127.88 | -113.37 | -95.73 | -93.38 | -88.19 | -80.32 |
| XBADJ | STCK3 | -70.01 | -57.57 | -43.39 | -27.88 | -11.53 | 4.52 |
| XBADJ | STCK3 | -17.58 | -39.14 | -61.26 | -84.84 | -105.84 | -123.62 |
| XBADJ | STCK3 | -137.65 | -147.50 | -153.84 | -170.63 | -182.23 | -188.29 |
| XBADJ | STCK3 | -188.64 | -183.25 | -172.30 | -156.10 | -135.17 | -111.76 |
| XBADJ | STCK4 | -131.99 | -148.21 | -159.93 | -166.78 | -168.57 | -165.24 |
| XBADJ | STCK4 | -156.89 | -143.77 | -126.60 | -123.78 | -117.20 | -107.05 |
| XBADJ | STCK4 | -93.66 | -77.42 | -58.82 | -38.44 | -16.89 | 4.52 |
| XBADJ | STCK4 | -12.22 | -28.59 | -45.82 | -64.99 | -82.19 | -96.89 |
| XBADJ | STCK4 | -108.64 | -117.09 | -122.97 | -140.23 | -153.22 | -161.56 |
| XBADJ | STCK4 | -164.99 | -163.41 | -156.86 | -145.55 | -129.81 | -111.76 |
| XBADJ | STCK5 | -136.96 | -157.99 | -174.23 | -185.17 | -190.48 | -190.01 |
| XBADJ | STCK5 | -183.76 | -171.93 | -155.20 | -151.94 | -144.07 | -131.82 |
| XBADJ | STCK5 | -115.57 | -95.80 | -73.12 | -48.22 | -21.86 | 4.52 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| XBADJ | STCK5 | -7.25 | -18.80 | -31.52 | -46.61 | -60.28 | -72.12 |
| XBADJ | STCK5 | -81.77 | -88.93 | -94.37 | -112.06 | -126.35 | -136.79 |
| XBADJ | STCK5 | -143.08 | -145.02 | -142.56 | -135.76 | -124.84 | -111.76 |
| XBADJ | STCK6 | -142.35 | -168.30 | -189.13 | -204.21 | -213.10 | -215.50 |
| XBADJ | STCK6 | -211.36 | -200.80 | -184.45 | -180.69 | -171.45 | -156.99 |
| XBADJ | STCK6 | -137.77 | -114.36 | -87.47 | -57.93 | -26.62 | 4.84 |
| XBADJ | STCK6 | -1.86 | -8.50 | -16.62 | -27.56 | -37.67 | -46.63 |
| XBADJ | STCK6 | -54.17 | -60.07 | -65.12 | -83.31 | -98.97 | -111.62 |
| XBADJ | STCK6 | -120.88 | -126.47 | -128.21 | -126.06 | -120.08 | -112.08 |
| YBADJ | STCK1 | -95.04 | -100.63 | -103.15 | -102.54 | -98.82 | -92.09 |
| YBADJ | STCK1 | -82.56 | -70.53 | -56.84 | -43.26 | -28.36 | -11.73 |
| YBADJ | STCK1 | 6.92 | 25.35 | 43.02 | 59.38 | 73.94 | 86.58 |
| YBADJ | STCK1 | 95.04 | 100.63 | 103.15 | 102.54 | 98.82 | 92.09 |
| YBADJ | STCK1 | 82.56 | 70.53 | 56.84 | 43.26 | 28.36 | 11.73 |
| YBADJ | STCK1 | -6.92 | -25.35 | -43.02 | -59.38 | -73.94 | -86.58 |
| YBADJ | STCK2 | -64.81 | -71.95 | -76.90 | -79.52 | -79.72 | -77.49 |
| YBADJ | STCK2 | -72.92 | -66.12 | -57.81 | -49.57 | -39.83 | -28.01 |
| YBADJ | STCK2 | -13.67 | 1.08 | 15.80 | 30.04 | 43.37 | 55.71 |
| YBADJ | STCK2 | 64.81 | 71.95 | 76.90 | 79.52 | 79.72 | 77.49 |
| YBADJ | STCK2 | 72.92 | 66.12 | 57.81 | 49.57 | 39.83 | 28.01 |
| YBADJ | STCK2 | 13.67 | -1.08 | -15.80 | -30.04 | -43.37 | -55.71 |
| YBADJ | STCK3 | -38.62 | -47.02 | -53.99 | -59.31 | -62.84 | -64.45 |
| YBADJ | STCK3 | -64.11 | -61.82 | -58.14 | -54.53 | -49.25 | -41.62 |
| YBADJ | STCK3 | -31.05 | -19.55 | -7.44 | 4.88 | 17.06 | 29.06 |
| YBADJ | STCK3 | 38.62 | 47.02 | 53.99 | 59.31 | 62.84 | 64.45 |
| YBADJ | STCK3 | 64.11 | 61.82 | 58.14 | 54.53 | 49.25 | 41.62 |
| YBADJ | STCK3 | 31.05 | 19.55 | 7.44 | -4.88 | -17.06 | -29.06 |
| YBADJ | STCK4 | -8.22 | -18.01 | -27.25 | -35.67 | -43.00 | -49.02 |
| YBADJ | STCK4 | -53.55 | -56.46 | -58.14 | -59.89 | -59.81 | -57.05 |
| YBADJ | STCK4 | -50.90 | -43.19 | -34.18 | -24.12 | -13.34 | -1.81 |
| YBADJ | STCK4 | 8.22 | 18.01 | 27.25 | 35.67 | 43.00 | 49.02 |
| YBADJ | STCK4 | 53.55 | 56.46 | 58.14 | 59.89 | 59.81 | 57.05 |
| YBADJ | STCK4 | 50.90 | 43.19 | 34.18 | 24.12 | 13.34 | 1.81 |
| YBADJ | STCK5 | 19.94 | 8.86 | -2.48 | -13.76 | -24.61 | -34.72 |
| YBADJ | STCK5 | -43.77 | -51.49 | -58.14 | -64.85 | -69.59 | -71.35 |
| YBADJ | STCK5 | -69.28 | -65.10 | -58.95 | -51.00 | -41.50 | -30.41 |
| YBADJ | STCK5 | -19.94 | -8.86 | 2.48 | 13.76 | 24.61 | 34.72 |
| YBADJ | STCK5 | 43.77 | 51.49 | 58.14 | 64.85 | 69.59 | 71.35 |
| YBADJ | STCK5 | 69.28 | 65.10 | 58.95 | 51.00 | 41.50 | 30.41 |
| YBADJ | STCK6 | 48.69 | 36.24 | 22.69 | 8.44 | -6.06 | -20.37 |
| YBADJ | STCK6 | -34.07 | -46.73 | -58.46 | -70.25 | -79.90 | -86.25 |
| YBADJ | STCK6 | -88.33 | -87.71 | -84.44 | -78.59 | -70.36 | -59.66 |
| YBADJ | STCK6 | -48.69 | -36.24 | -22.69 | -8.44 | 6.06 | 20.37 |
| YBADJ | STCK6 | 34.07 | 46.73 | 58.46 | 70.25 | 79.90 | 86.25 |

```
   YBADJ    STCK6           88.33    87.71    84.44    78.59    70.36    59.66

   URBANSRC ALL
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED "190th Street Warehouse 2040-2053.rou"
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE "E:\New MET data\KHHR_V9_ADJU\KHHR_v9.SFC"
   PROFFILE "E:\New MET data\KHHR_V9_ADJU\KHHR_v9.PFL"
   SURFDATA 3167 2012
   UAIRDATA 3190 2012
   PROFBASE 19.0 METERS
ME FINISHED
**
**************************************
** AERMOD Output Pathway
**************************************
**
**
OU STARTING
** Auto-Generated Plotfiles
   PLOTFILE PERIOD ALL "190TH STREET WAREHOUSE 2040-2053.AD\PE00GALL.PLT" 31
   SUMMFILE "190th Street Warehouse 2040-2053.sum"
OU FINISHED


  *** Message Summary For AERMOD Model Setup ***

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

 A Total of            0 Fatal Error Message(s)
 A Total of            8 Warning Message(s)
 A Total of            0 Informational Message(s)


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

```
   ********   WARNING MESSAGES   ********
SO W320     872        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320     873        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320     874        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320     875        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320     876        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320     877        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
ME W186    1862       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used          0.50
ME W187    1862       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

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


*** AERMOD - VERSION  19191 ***   *** 190th St Warehouse 2040-2053                                  ***        05/15/20
*** AERMET - VERSION  16216 ***   *** DPM concentrations second 14YR Exposure                       ***        08:46:26
                                                                                                              PAGE   1
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                          ***     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   744 Source(s),
  for Total of    1 Urban Area(s):
  Urban Population =   9818605.0 ;  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.
       6. Urban Roughness Length of 1.0 Meter Assumed.

**Other Options Specified:
       ADJ_U*   - Use ADJ_U* option for SBL in AERMET
       CCVR_Sub - Meteorological data includes CCVR substitutions
       TEMP_Sub - Meteorological data includes TEMP substitutions

**Model Assumes No FLAGPOLE Receptor Heights.
```

```
**The User Specified a Pollutant Type of:  DPM

**Model Calculates PERIOD Averages Only

**This Run Includes:    744 Source(s);       1 Source Group(s); and     449 Receptor(s)

               with:      6 POINT(s), including
                          0 POINTCAP(s) and      0 POINTHOR(s)
                and:    738 VOLUME source(s)
                and:      0 AREA type source(s)
                and:      0 LINE source(s)
                and:      0 RLINE/RLINEXT source(s)
                and:      0 OPENPIT source(s)
                and:      0 BUOYANT LINE source(s) with      0 line(s)


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

**The AERMET Input Meteorological Data Version Date:  16216

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

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

**Misc. Inputs:  Base Elev. for Pot. Temp. Profile (m MSL) =    19.00 ;  Decay Coef. =    0.000     ;  Rot. Angle =     0.0
                 Emission Units = GRAMS/SEC                           ;  Emission Rate Unit Factor =   0.10000E+07
                 Output Units   = MICROGRAMS/M**3

**Approximate Storage Requirements of Model =      4.9 MB of RAM.

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

**Detailed Error/Message File:   190th Street Warehouse 2040-2053.err
**File for Summary of Results:   190th Street Warehouse 2040-2053.sum

*** AERMOD - VERSION  19191 ***   *** 190th St Warehouse 2040-2053                                          ***        05/15/20
*** AERMET - VERSION  16216 ***   *** DPM concentrations second 14YR Exposure                               ***        08:46:26
                                                                                                                      PAGE   2
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                          *** POINT SOURCE DATA ***

             NUMBER EMISSION RATE                  BASE     STACK   STACK    STACK     STACK    BLDG   URBAN  CAP/  EMIS RATE
```

| SOURCE ID | PART. CATS. | (GRAMS/SEC) | X (METERS) | Y (METERS) | ELEV. (METERS) | HEIGHT (METERS) | TEMP. (DEG.K) | EXIT VEL. (M/SEC) | DIAMETER (METERS) | EXISTS | SOURCE VARY | HOR BY | SCALAR VARY BY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STCK1 | 0 | 0.13000E-04 | 377375.1 | 3747396.4 | 19.2 | 3.66 | 366.00 | 51.90 | 0.09 | YES | YES | NO | |
| STCK2 | 0 | 0.13000E-04 | 377406.0 | 3747397.4 | 19.4 | 3.66 | 366.00 | 51.90 | 0.09 | YES | YES | NO | |
| STCK3 | 0 | 0.13000E-04 | 377432.7 | 3747397.7 | 19.6 | 3.66 | 366.00 | 51.90 | 0.09 | YES | YES | NO | |
| STCK4 | 0 | 0.13000E-04 | 377463.5 | 3747397.7 | 19.8 | 3.66 | 366.00 | 51.90 | 0.09 | YES | YES | NO | |
| STCK5 | 0 | 0.13000E-04 | 377492.1 | 3747397.7 | 20.1 | 3.66 | 366.00 | 51.90 | 0.09 | YES | YES | NO | |
| STCK6 | 0 | 0.13000E-04 | 377521.4 | 3747398.1 | 20.6 | 3.66 | 366.00 | 51.90 | 0.09 | YES | YES | NO | |



*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| L0002636 | 0 | 0.29110E-07 | 377311.4 | 3747422.7 | 19.0 | 0.00 | 1.70 | 5.10 | YES | |
| L0002637 | 0 | 0.29110E-07 | 377315.0 | 3747422.7 | 19.0 | 0.00 | 1.70 | 5.10 | YES | |
| L0002638 | 0 | 0.29110E-07 | 377318.7 | 3747422.7 | 19.0 | 0.00 | 1.70 | 5.10 | YES | |
| L0002639 | 0 | 0.29110E-07 | 377322.3 | 3747422.7 | 19.0 | 0.00 | 1.70 | 5.10 | YES | |
| L0002640 | 0 | 0.29110E-07 | 377326.0 | 3747422.7 | 19.0 | 0.00 | 1.70 | 5.10 | YES | |
| L0002641 | 0 | 0.29110E-07 | 377329.7 | 3747422.8 | 19.1 | 0.00 | 1.70 | 5.10 | YES | |
| L0002642 | 0 | 0.29110E-07 | 377333.3 | 3747422.8 | 19.1 | 0.00 | 1.70 | 5.10 | YES | |
| L0002643 | 0 | 0.29110E-07 | 377337.0 | 3747422.8 | 19.1 | 0.00 | 1.70 | 5.10 | YES | |
| L0002644 | 0 | 0.29110E-07 | 377340.6 | 3747422.8 | 19.1 | 0.00 | 1.70 | 5.10 | YES | |
| L0002645 | 0 | 0.29110E-07 | 377344.3 | 3747422.8 | 19.1 | 0.00 | 1.70 | 5.10 | YES | |
| L0002646 | 0 | 0.29110E-07 | 377347.9 | 3747422.8 | 19.1 | 0.00 | 1.70 | 5.10 | YES | |
| L0002647 | 0 | 0.29110E-07 | 377351.6 | 3747422.9 | 19.2 | 0.00 | 1.70 | 5.10 | YES | |
| L0002648 | 0 | 0.29110E-07 | 377355.3 | 3747422.9 | 19.2 | 0.00 | 1.70 | 5.10 | YES | |
| L0002649 | 0 | 0.29110E-07 | 377358.9 | 3747422.9 | 19.2 | 0.00 | 1.70 | 5.10 | YES | |
| L0002650 | 0 | 0.29110E-07 | 377362.6 | 3747422.9 | 19.3 | 0.00 | 1.70 | 5.10 | YES | |
| L0002651 | 0 | 0.29110E-07 | 377366.2 | 3747422.9 | 19.3 | 0.00 | 1.70 | 5.10 | YES | |
| L0002652 | 0 | 0.29110E-07 | 377369.9 | 3747423.0 | 19.3 | 0.00 | 1.70 | 5.10 | YES | |
| L0002653 | 0 | 0.29110E-07 | 377373.5 | 3747423.0 | 19.4 | 0.00 | 1.70 | 5.10 | YES | |
| L0002654 | 0 | 0.29110E-07 | 377377.2 | 3747423.0 | 19.4 | 0.00 | 1.70 | 5.10 | YES | |
| L0002655 | 0 | 0.29110E-07 | 377380.9 | 3747423.0 | 19.4 | 0.00 | 1.70 | 5.10 | YES | |
| L0002656 | 0 | 0.29110E-07 | 377384.5 | 3747423.0 | 19.4 | 0.00 | 1.70 | 5.10 | YES | |
| L0002657 | 0 | 0.29110E-07 | 377388.2 | 3747423.0 | 19.4 | 0.00 | 1.70 | 5.10 | YES | |
| L0002658 | 0 | 0.29110E-07 | 377391.8 | 3747423.1 | 19.5 | 0.00 | 1.70 | 5.10 | YES | |
| L0002659 | 0 | 0.29110E-07 | 377395.5 | 3747423.1 | 19.5 | 0.00 | 1.70 | 5.10 | YES | |
| L0002660 | 0 | 0.29110E-07 | 377399.2 | 3747423.1 | 19.5 | 0.00 | 1.70 | 5.10 | YES | |
| L0002661 | 0 | 0.29110E-07 | 377402.8 | 3747423.1 | 19.6 | 0.00 | 1.70 | 5.10 | YES | |
| L0002662 | 0 | 0.29110E-07 | 377406.5 | 3747423.1 | 19.6 | 0.00 | 1.70 | 5.10 | YES | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| L0002663 | 0 | 0.29110E-07 | 377410.1 | 3747423.1 | 19.6 | 0.00 | 1.70 | 5.10 | YES |
| L0002664 | 0 | 0.29110E-07 | 377413.8 | 3747423.2 | 19.6 | 0.00 | 1.70 | 5.10 | YES |
| L0002665 | 0 | 0.29110E-07 | 377417.4 | 3747423.2 | 19.6 | 0.00 | 1.70 | 5.10 | YES |
| L0002666 | 0 | 0.29110E-07 | 377421.1 | 3747423.2 | 19.7 | 0.00 | 1.70 | 5.10 | YES |
| L0002667 | 0 | 0.29110E-07 | 377424.8 | 3747423.2 | 19.7 | 0.00 | 1.70 | 5.10 | YES |
| L0002668 | 0 | 0.29110E-07 | 377428.4 | 3747423.2 | 19.7 | 0.00 | 1.70 | 5.10 | YES |
| L0002669 | 0 | 0.29110E-07 | 377432.1 | 3747423.2 | 19.8 | 0.00 | 1.70 | 5.10 | YES |
| L0002670 | 0 | 0.29110E-07 | 377435.7 | 3747423.3 | 19.8 | 0.00 | 1.70 | 5.10 | YES |
| L0002671 | 0 | 0.29110E-07 | 377439.4 | 3747423.3 | 19.8 | 0.00 | 1.70 | 5.10 | YES |
| L0002672 | 0 | 0.29110E-07 | 377443.0 | 3747423.3 | 19.8 | 0.00 | 1.70 | 5.10 | YES |
| L0002673 | 0 | 0.29110E-07 | 377446.7 | 3747423.3 | 19.9 | 0.00 | 1.70 | 5.10 | YES |
| L0002674 | 0 | 0.29110E-07 | 377450.4 | 3747423.3 | 19.9 | 0.00 | 1.70 | 5.10 | YES |
| L0002675 | 0 | 0.29110E-07 | 377454.0 | 3747423.3 | 19.9 | 0.00 | 1.70 | 5.10 | YES |



*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| L0002676 | 0 | 0.29110E-07 | 377457.7 | 3747423.4 | 19.9 | 0.00 | 1.70 | 5.10 | YES | |
| L0002677 | 0 | 0.29110E-07 | 377461.3 | 3747423.4 | 19.9 | 0.00 | 1.70 | 5.10 | YES | |
| L0002678 | 0 | 0.29110E-07 | 377465.0 | 3747423.4 | 20.0 | 0.00 | 1.70 | 5.10 | YES | |
| L0002679 | 0 | 0.29110E-07 | 377468.6 | 3747423.4 | 20.0 | 0.00 | 1.70 | 5.10 | YES | |
| L0002680 | 0 | 0.29110E-07 | 377472.3 | 3747423.4 | 20.0 | 0.00 | 1.70 | 5.10 | YES | |
| L0002681 | 0 | 0.29110E-07 | 377476.0 | 3747423.4 | 20.0 | 0.00 | 1.70 | 5.10 | YES | |
| L0002682 | 0 | 0.29110E-07 | 377479.6 | 3747423.5 | 20.1 | 0.00 | 1.70 | 5.10 | YES | |
| L0002683 | 0 | 0.29110E-07 | 377483.3 | 3747423.5 | 20.1 | 0.00 | 1.70 | 5.10 | YES | |
| L0002684 | 0 | 0.29110E-07 | 377486.9 | 3747423.5 | 20.1 | 0.00 | 1.70 | 5.10 | YES | |
| L0002685 | 0 | 0.29110E-07 | 377490.6 | 3747423.5 | 20.1 | 0.00 | 1.70 | 5.10 | YES | |
| L0002686 | 0 | 0.29110E-07 | 377494.2 | 3747423.5 | 20.2 | 0.00 | 1.70 | 5.10 | YES | |
| L0002687 | 0 | 0.29110E-07 | 377497.9 | 3747423.6 | 20.2 | 0.00 | 1.70 | 5.10 | YES | |
| L0002688 | 0 | 0.29110E-07 | 377501.6 | 3747423.6 | 20.2 | 0.00 | 1.70 | 5.10 | YES | |
| L0002689 | 0 | 0.29110E-07 | 377505.2 | 3747423.6 | 20.2 | 0.00 | 1.70 | 5.10 | YES | |
| L0002690 | 0 | 0.29110E-07 | 377508.9 | 3747423.6 | 20.2 | 0.00 | 1.70 | 5.10 | YES | |
| L0002691 | 0 | 0.29110E-07 | 377512.5 | 3747423.6 | 20.2 | 0.00 | 1.70 | 5.10 | YES | |
| L0002692 | 0 | 0.29110E-07 | 377516.2 | 3747423.6 | 20.2 | 0.00 | 1.70 | 5.10 | YES | |
| L0002693 | 0 | 0.29110E-07 | 377519.9 | 3747423.7 | 20.2 | 0.00 | 1.70 | 5.10 | YES | |
| L0002694 | 0 | 0.29110E-07 | 377523.5 | 3747423.7 | 20.2 | 0.00 | 1.70 | 5.10 | YES | |
| L0002695 | 0 | 0.29110E-07 | 377527.2 | 3747423.7 | 20.3 | 0.00 | 1.70 | 5.10 | YES | |
| L0002696 | 0 | 0.29110E-07 | 377530.8 | 3747423.7 | 20.3 | 0.00 | 1.70 | 5.10 | YES | |
| L0002697 | 0 | 0.29110E-07 | 377534.5 | 3747423.7 | 20.4 | 0.00 | 1.70 | 5.10 | YES | |
| L0002698 | 0 | 0.29110E-07 | 377538.1 | 3747423.7 | 20.4 | 0.00 | 1.70 | 5.10 | YES | |
| L0002699 | 0 | 0.29110E-07 | 377541.8 | 3747423.8 | 20.5 | 0.00 | 1.70 | 5.10 | YES | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| L0002700 | 0 | 0.29110E-07 | 377545.5 | 3747423.8 | 20.5 | 0.00 | 1.70 | 5.10 | YES |
| L0002701 | 0 | 0.29110E-07 | 377549.1 | 3747423.8 | 20.6 | 0.00 | 1.70 | 5.10 | YES |
| L0002702 | 0 | 0.29110E-07 | 377552.8 | 3747423.8 | 20.6 | 0.00 | 1.70 | 5.10 | YES |
| L0002703 | 0 | 0.29110E-07 | 377556.4 | 3747423.8 | 20.6 | 0.00 | 1.70 | 5.10 | YES |
| L0002704 | 0 | 0.29110E-07 | 377560.1 | 3747423.8 | 20.6 | 0.00 | 1.70 | 5.10 | YES |
| L0002705 | 0 | 0.29110E-07 | 377563.7 | 3747423.9 | 20.5 | 0.00 | 1.70 | 5.10 | YES |
| L0002706 | 0 | 0.29110E-07 | 377567.4 | 3747423.9 | 20.5 | 0.00 | 1.70 | 5.10 | YES |
| L0002707 | 0 | 0.29110E-07 | 377571.1 | 3747423.9 | 20.5 | 0.00 | 1.70 | 5.10 | YES |
| L0002708 | 0 | 0.29110E-07 | 377574.7 | 3747423.9 | 20.5 | 0.00 | 1.70 | 5.10 | YES |
| L0002709 | 0 | 0.29110E-07 | 377578.4 | 3747423.9 | 20.5 | 0.00 | 1.70 | 5.10 | YES |
| L0002710 | 0 | 0.29110E-07 | 377582.0 | 3747423.9 | 20.4 | 0.00 | 1.70 | 5.10 | YES |
| L0002711 | 0 | 0.29110E-07 | 377585.7 | 3747424.0 | 20.4 | 0.00 | 1.70 | 5.10 | YES |
| L0002712 | 0 | 0.29110E-07 | 377589.3 | 3747424.0 | 20.3 | 0.00 | 1.70 | 5.10 | YES |
| L0002713 | 0 | 0.29110E-07 | 377593.0 | 3747424.0 | 20.3 | 0.00 | 1.70 | 5.10 | YES |
| L0002714 | 0 | 0.29110E-07 | 377596.7 | 3747424.0 | 20.2 | 0.00 | 1.70 | 5.10 | YES |
| L0002715 | 0 | 0.29150E-07 | 377606.9 | 3747421.7 | 20.1 | 0.00 | 1.70 | 5.10 | YES |



*** MODELOPTs:  RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

*** 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| L0002716 | 0 | 0.29150E-07 | 377606.9 | 3747418.1 | 20.2 | 0.00 | 1.70 | 5.10 | YES | |
| L0002717 | 0 | 0.29150E-07 | 377606.9 | 3747414.4 | 20.2 | 0.00 | 1.70 | 5.10 | YES | |
| L0002718 | 0 | 0.29150E-07 | 377606.9 | 3747410.8 | 20.3 | 0.00 | 1.70 | 5.10 | YES | |
| L0002719 | 0 | 0.29150E-07 | 377606.9 | 3747407.1 | 20.3 | 0.00 | 1.70 | 5.10 | YES | |
| L0002720 | 0 | 0.29150E-07 | 377606.9 | 3747403.5 | 20.3 | 0.00 | 1.70 | 5.10 | YES | |
| L0002721 | 0 | 0.29150E-07 | 377606.9 | 3747399.8 | 20.3 | 0.00 | 1.70 | 5.10 | YES | |
| L0002722 | 0 | 0.29150E-07 | 377606.9 | 3747396.1 | 20.3 | 0.00 | 1.70 | 5.10 | YES | |
| L0002723 | 0 | 0.29150E-07 | 377607.0 | 3747392.5 | 20.3 | 0.00 | 1.70 | 5.10 | YES | |
| L0002724 | 0 | 0.29150E-07 | 377607.0 | 3747388.8 | 20.3 | 0.00 | 1.70 | 5.10 | YES | |
| L0002725 | 0 | 0.29150E-07 | 377607.0 | 3747385.2 | 20.3 | 0.00 | 1.70 | 5.10 | YES | |
| L0002726 | 0 | 0.29150E-07 | 377607.0 | 3747381.5 | 20.3 | 0.00 | 1.70 | 5.10 | YES | |
| L0002727 | 0 | 0.29150E-07 | 377607.0 | 3747377.8 | 20.3 | 0.00 | 1.70 | 5.10 | YES | |
| L0002728 | 0 | 0.29150E-07 | 377607.0 | 3747374.2 | 20.3 | 0.00 | 1.70 | 5.10 | YES | |
| L0002729 | 0 | 0.29150E-07 | 377607.0 | 3747370.5 | 20.3 | 0.00 | 1.70 | 5.10 | YES | |
| L0002730 | 0 | 0.29150E-07 | 377607.0 | 3747366.9 | 20.2 | 0.00 | 1.70 | 5.10 | YES | |
| L0002731 | 0 | 0.29150E-07 | 377607.0 | 3747363.2 | 20.1 | 0.00 | 1.70 | 5.10 | YES | |
| L0002732 | 0 | 0.29150E-07 | 377607.0 | 3747359.6 | 20.1 | 0.00 | 1.70 | 5.10 | YES | |
| L0002733 | 0 | 0.29150E-07 | 377607.1 | 3747355.9 | 20.0 | 0.00 | 1.70 | 5.10 | YES | |
| L0002734 | 0 | 0.29150E-07 | 377607.1 | 3747352.2 | 20.0 | 0.00 | 1.70 | 5.10 | YES | |
| L0002735 | 0 | 0.29150E-07 | 377607.1 | 3747348.6 | 19.9 | 0.00 | 1.70 | 5.10 | YES | |
| L0002736 | 0 | 0.29150E-07 | 377607.1 | 3747344.9 | 19.9 | 0.00 | 1.70 | 5.10 | YES | |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| L0002737 | 0 | 0.29150E-07 | 377607.1 | 3747341.3 | 19.8 | 0.00 | 1.70 | 5.10 | YES | |
| L0002738 | 0 | 0.29150E-07 | 377607.1 | 3747337.6 | 19.8 | 0.00 | 1.70 | 5.10 | YES | |
| L0002739 | 0 | 0.29150E-07 | 377607.1 | 3747334.0 | 19.8 | 0.00 | 1.70 | 5.10 | YES | |
| L0002740 | 0 | 0.29150E-07 | 377607.1 | 3747330.3 | 19.7 | 0.00 | 1.70 | 5.10 | YES | |
| L0002741 | 0 | 0.29150E-07 | 377607.1 | 3747326.6 | 19.7 | 0.00 | 1.70 | 5.10 | YES | |
| L0002742 | 0 | 0.29150E-07 | 377607.1 | 3747323.0 | 19.7 | 0.00 | 1.70 | 5.10 | YES | |
| L0002743 | 0 | 0.29150E-07 | 377607.1 | 3747319.3 | 19.6 | 0.00 | 1.70 | 5.10 | YES | |
| L0002744 | 0 | 0.29150E-07 | 377607.2 | 3747315.7 | 19.6 | 0.00 | 1.70 | 5.10 | YES | |
| L0002745 | 0 | 0.29150E-07 | 377607.2 | 3747312.0 | 19.6 | 0.00 | 1.70 | 5.10 | YES | |
| L0002746 | 0 | 0.29150E-07 | 377607.2 | 3747308.4 | 19.6 | 0.00 | 1.70 | 5.10 | YES | |
| L0002747 | 0 | 0.29150E-07 | 377607.2 | 3747304.7 | 19.6 | 0.00 | 1.70 | 5.10 | YES | |
| L0002748 | 0 | 0.29150E-07 | 377607.2 | 3747301.0 | 19.7 | 0.00 | 1.70 | 5.10 | YES | |
| L0002749 | 0 | 0.29150E-07 | 377607.2 | 3747297.4 | 19.7 | 0.00 | 1.70 | 5.10 | YES | |
| L0002750 | 0 | 0.29150E-07 | 377607.2 | 3747293.7 | 19.7 | 0.00 | 1.70 | 5.10 | YES | |
| L0002751 | 0 | 0.29150E-07 | 377607.2 | 3747290.1 | 19.7 | 0.00 | 1.70 | 5.10 | YES | |
| L0002752 | 0 | 0.29150E-07 | 377607.2 | 3747286.4 | 19.7 | 0.00 | 1.70 | 5.10 | YES | |
| L0002753 | 0 | 0.29150E-07 | 377607.2 | 3747282.8 | 19.8 | 0.00 | 1.70 | 5.10 | YES | |
| L0002754 | 0 | 0.29150E-07 | 377607.3 | 3747279.1 | 19.7 | 0.00 | 1.70 | 5.10 | YES | |
| L0002755 | 0 | 0.29150E-07 | 377607.3 | 3747275.4 | 19.6 | 0.00 | 1.70 | 5.10 | YES | |



*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

*** 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| L0002756 | 0 | 0.29150E-07 | 377607.3 | 3747271.8 | 19.6 | 0.00 | 1.70 | 5.10 | YES | |
| L0002757 | 0 | 0.29150E-07 | 377607.3 | 3747268.1 | 19.5 | 0.00 | 1.70 | 5.10 | YES | |
| L0002758 | 0 | 0.29150E-07 | 377607.3 | 3747264.5 | 19.4 | 0.00 | 1.70 | 5.10 | YES | |
| L0002759 | 0 | 0.29150E-07 | 377607.3 | 3747260.8 | 19.4 | 0.00 | 1.70 | 5.10 | YES | |
| L0002760 | 0 | 0.29150E-07 | 377607.3 | 3747257.1 | 19.3 | 0.00 | 1.70 | 5.10 | YES | |
| L0002761 | 0 | 0.29150E-07 | 377607.3 | 3747253.5 | 19.2 | 0.00 | 1.70 | 5.10 | YES | |
| L0002762 | 0 | 0.36640E-07 | 377299.8 | 3747423.8 | 18.9 | 0.00 | 1.70 | 0.85 | YES | |
| L0002763 | 0 | 0.36640E-07 | 377299.8 | 3747427.5 | 18.9 | 0.00 | 1.70 | 0.85 | YES | |
| L0002764 | 0 | 0.36640E-07 | 377299.8 | 3747431.1 | 19.0 | 0.00 | 1.70 | 0.85 | YES | |
| L0002765 | 0 | 0.36640E-07 | 377299.8 | 3747434.8 | 19.0 | 0.00 | 1.70 | 0.85 | YES | |
| L0002766 | 0 | 0.36640E-07 | 377299.8 | 3747438.5 | 19.1 | 0.00 | 1.70 | 0.85 | YES | |
| L0002767 | 0 | 0.36640E-07 | 377299.7 | 3747442.1 | 19.1 | 0.00 | 1.70 | 0.85 | YES | |
| L0002768 | 0 | 0.36640E-07 | 377299.7 | 3747445.8 | 19.1 | 0.00 | 1.70 | 0.85 | YES | |
| L0002769 | 0 | 0.36640E-07 | 377299.7 | 3747449.4 | 19.1 | 0.00 | 1.70 | 0.85 | YES | |
| L0002770 | 0 | 0.36640E-07 | 377299.7 | 3747453.1 | 19.0 | 0.00 | 1.70 | 0.85 | YES | |
| L0002771 | 0 | 0.36640E-07 | 377299.7 | 3747456.7 | 19.0 | 0.00 | 1.70 | 0.85 | YES | |
| L0002772 | 0 | 0.36640E-07 | 377299.7 | 3747460.4 | 19.0 | 0.00 | 1.70 | 0.85 | YES | |
| L0002773 | 0 | 0.36640E-07 | 377299.6 | 3747464.1 | 19.0 | 0.00 | 1.70 | 0.85 | YES | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| L0002774 | 0 | 0.36640E-07 | 377299.6 | 3747467.7 | 19.0 | 0.00 | 1.70 | 0.85 | YES |
| L0002775 | 0 | 0.36640E-07 | 377299.6 | 3747471.4 | 19.0 | 0.00 | 1.70 | 0.85 | YES |
| L0002776 | 0 | 0.36640E-07 | 377299.6 | 3747475.0 | 19.0 | 0.00 | 1.70 | 0.85 | YES |
| L0002777 | 0 | 0.36640E-07 | 377299.6 | 3747478.7 | 19.0 | 0.00 | 1.70 | 0.85 | YES |
| L0002778 | 0 | 0.36640E-07 | 377299.5 | 3747482.3 | 19.1 | 0.00 | 1.70 | 0.85 | YES |
| L0002779 | 0 | 0.36640E-07 | 377299.5 | 3747486.0 | 19.1 | 0.00 | 1.70 | 0.85 | YES |
| L0002780 | 0 | 0.36640E-07 | 377299.5 | 3747489.7 | 19.1 | 0.00 | 1.70 | 0.85 | YES |
| L0002781 | 0 | 0.36640E-07 | 377299.5 | 3747493.3 | 19.2 | 0.00 | 1.70 | 0.85 | YES |
| L0002782 | 0 | 0.36640E-07 | 377299.5 | 3747497.0 | 19.2 | 0.00 | 1.70 | 0.85 | YES |
| L0002783 | 0 | 0.36640E-07 | 377299.4 | 3747500.6 | 19.2 | 0.00 | 1.70 | 0.85 | YES |
| L0002784 | 0 | 0.36640E-07 | 377299.4 | 3747504.3 | 19.2 | 0.00 | 1.70 | 0.85 | YES |
| L0002785 | 0 | 0.36640E-07 | 377299.4 | 3747508.0 | 19.2 | 0.00 | 1.70 | 0.85 | YES |
| L0002786 | 0 | 0.36640E-07 | 377299.4 | 3747511.6 | 19.2 | 0.00 | 1.70 | 0.85 | YES |
| L0002787 | 0 | 0.36640E-07 | 377299.4 | 3747515.3 | 19.2 | 0.00 | 1.70 | 0.85 | YES |
| L0002788 | 0 | 0.36640E-07 | 377299.4 | 3747518.9 | 19.2 | 0.00 | 1.70 | 0.85 | YES |
| L0002789 | 0 | 0.36640E-07 | 377299.3 | 3747522.6 | 19.2 | 0.00 | 1.70 | 0.85 | YES |
| L0002790 | 0 | 0.36640E-07 | 377299.3 | 3747526.2 | 19.2 | 0.00 | 1.70 | 0.85 | YES |
| L0002791 | 0 | 0.36640E-07 | 377299.3 | 3747529.9 | 19.2 | 0.00 | 1.70 | 0.85 | YES |
| L0002792 | 0 | 0.36640E-07 | 377299.3 | 3747533.6 | 19.2 | 0.00 | 1.70 | 0.85 | YES |
| L0002793 | 0 | 0.36640E-07 | 377299.3 | 3747537.2 | 19.2 | 0.00 | 1.70 | 0.85 | YES |
| L0002794 | 0 | 0.36640E-07 | 377299.2 | 3747540.9 | 19.2 | 0.00 | 1.70 | 0.85 | YES |
| L0002795 | 0 | 0.36640E-07 | 377299.2 | 3747544.5 | 19.2 | 0.00 | 1.70 | 0.85 | YES |



*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

*** 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| L0002796 | 0 | 0.36640E-07 | 377299.2 | 3747548.2 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0002797 | 0 | 0.36640E-07 | 377299.2 | 3747551.8 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0002798 | 0 | 0.36640E-07 | 377299.2 | 3747555.5 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0002799 | 0 | 0.36640E-07 | 377299.2 | 3747559.2 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0002800 | 0 | 0.36640E-07 | 377299.1 | 3747562.8 | 19.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0002801 | 0 | 0.36640E-07 | 377299.1 | 3747566.5 | 19.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0002802 | 0 | 0.36640E-07 | 377299.1 | 3747570.1 | 19.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0002803 | 0 | 0.36640E-07 | 377299.1 | 3747573.8 | 19.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0002804 | 0 | 0.36640E-07 | 377299.1 | 3747577.4 | 19.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0002805 | 0 | 0.36640E-07 | 377299.0 | 3747581.1 | 19.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0002806 | 0 | 0.36640E-07 | 377299.0 | 3747584.8 | 19.5 | 0.00 | 1.70 | 0.85 | YES | |
| L0002807 | 0 | 0.36640E-07 | 377299.0 | 3747588.4 | 19.5 | 0.00 | 1.70 | 0.85 | YES | |
| L0002808 | 0 | 0.36640E-07 | 377299.0 | 3747592.1 | 19.6 | 0.00 | 1.70 | 0.85 | YES | |
| L0002809 | 0 | 0.36640E-07 | 377299.0 | 3747595.7 | 19.6 | 0.00 | 1.70 | 0.85 | YES | |
| L0002810 | 0 | 0.36640E-07 | 377299.0 | 3747599.4 | 19.6 | 0.00 | 1.70 | 0.85 | YES | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| L0002811 | 0 | 0.36640E-07 | 377298.9 | 3747603.0 | 19.7 | 0.00 | 1.70 | 0.85 | YES |
| L0002812 | 0 | 0.36640E-07 | 377298.9 | 3747606.7 | 19.7 | 0.00 | 1.70 | 0.85 | YES |
| L0002813 | 0 | 0.36640E-07 | 377298.9 | 3747610.4 | 19.7 | 0.00 | 1.70 | 0.85 | YES |
| L0002814 | 0 | 0.36640E-07 | 377298.9 | 3747614.0 | 19.8 | 0.00 | 1.70 | 0.85 | YES |
| L0002815 | 0 | 0.36640E-07 | 377298.9 | 3747617.7 | 19.8 | 0.00 | 1.70 | 0.85 | YES |
| L0002816 | 0 | 0.36640E-07 | 377298.8 | 3747621.3 | 19.8 | 0.00 | 1.70 | 0.85 | YES |
| L0002817 | 0 | 0.36640E-07 | 377298.8 | 3747625.0 | 19.9 | 0.00 | 1.70 | 0.85 | YES |
| L0002818 | 0 | 0.36640E-07 | 377298.8 | 3747628.7 | 19.9 | 0.00 | 1.70 | 0.85 | YES |
| L0002819 | 0 | 0.36640E-07 | 377298.8 | 3747632.3 | 19.9 | 0.00 | 1.70 | 0.85 | YES |
| L0002820 | 0 | 0.36640E-07 | 377298.8 | 3747636.0 | 19.9 | 0.00 | 1.70 | 0.85 | YES |
| L0002821 | 0 | 0.36640E-07 | 377298.7 | 3747639.6 | 19.9 | 0.00 | 1.70 | 0.85 | YES |
| L0002822 | 0 | 0.36640E-07 | 377298.7 | 3747643.3 | 20.0 | 0.00 | 1.70 | 0.85 | YES |
| L0002823 | 0 | 0.36640E-07 | 377298.7 | 3747646.9 | 20.0 | 0.00 | 1.70 | 0.85 | YES |
| L0002824 | 0 | 0.36640E-07 | 377298.7 | 3747650.6 | 20.0 | 0.00 | 1.70 | 0.85 | YES |
| L0002825 | 0 | 0.36640E-07 | 377298.7 | 3747654.3 | 20.1 | 0.00 | 1.70 | 0.85 | YES |
| L0002826 | 0 | 0.36640E-07 | 377298.7 | 3747657.9 | 20.1 | 0.00 | 1.70 | 0.85 | YES |
| L0002827 | 0 | 0.36640E-07 | 377298.6 | 3747661.6 | 20.1 | 0.00 | 1.70 | 0.85 | YES |
| L0002828 | 0 | 0.36640E-07 | 377298.6 | 3747665.2 | 20.1 | 0.00 | 1.70 | 0.85 | YES |
| L0002829 | 0 | 0.36640E-07 | 377298.6 | 3747668.9 | 20.2 | 0.00 | 1.70 | 0.85 | YES |
| L0002830 | 0 | 0.36640E-07 | 377298.6 | 3747672.5 | 20.2 | 0.00 | 1.70 | 0.85 | YES |
| L0002831 | 0 | 0.36640E-07 | 377298.6 | 3747676.2 | 20.2 | 0.00 | 1.70 | 0.85 | YES |
| L0002832 | 0 | 0.36640E-07 | 377298.5 | 3747679.9 | 20.2 | 0.00 | 1.70 | 0.85 | YES |
| L0002833 | 0 | 0.36640E-07 | 377298.5 | 3747683.5 | 20.3 | 0.00 | 1.70 | 0.85 | YES |
| L0002834 | 0 | 0.36640E-07 | 377298.5 | 3747687.2 | 20.3 | 0.00 | 1.70 | 0.85 | YES |
| L0002835 | 0 | 0.36640E-07 | 377298.5 | 3747690.8 | 20.3 | 0.00 | 1.70 | 0.85 | YES |



*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

*** 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| L0002836 | 0 | 0.36640E-07 | 377298.5 | 3747694.5 | 20.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0002837 | 0 | 0.36640E-07 | 377298.5 | 3747698.1 | 20.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0002838 | 0 | 0.36640E-07 | 377298.4 | 3747701.8 | 20.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0002839 | 0 | 0.36640E-07 | 377298.4 | 3747705.5 | 20.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0002840 | 0 | 0.36640E-07 | 377298.4 | 3747709.1 | 20.5 | 0.00 | 1.70 | 0.85 | YES | |
| L0002841 | 0 | 0.36640E-07 | 377298.4 | 3747712.8 | 20.5 | 0.00 | 1.70 | 0.85 | YES | |
| L0002842 | 0 | 0.36640E-07 | 377298.4 | 3747716.4 | 20.5 | 0.00 | 1.70 | 0.85 | YES | |
| L0002843 | 0 | 0.36640E-07 | 377298.3 | 3747720.1 | 20.6 | 0.00 | 1.70 | 0.85 | YES | |
| L0002844 | 0 | 0.36640E-07 | 377298.3 | 3747723.7 | 20.6 | 0.00 | 1.70 | 0.85 | YES | |
| L0002845 | 0 | 0.36640E-07 | 377298.3 | 3747727.4 | 20.6 | 0.00 | 1.70 | 0.85 | YES | |
| L0002846 | 0 | 0.36640E-07 | 377298.3 | 3747731.1 | 20.6 | 0.00 | 1.70 | 0.85 | YES | |
| L0002847 | 0 | 0.36640E-07 | 377298.3 | 3747734.7 | 20.6 | 0.00 | 1.70 | 0.85 | YES | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| L0002848 | 0 | 0.36640E-07 | 377298.3 | 3747738.4 | 20.6 | 0.00 | 1.70 | 0.85 | YES |
| L0002849 | 0 | 0.36640E-07 | 377298.2 | 3747742.0 | 20.7 | 0.00 | 1.70 | 0.85 | YES |
| L0002850 | 0 | 0.36640E-07 | 377298.2 | 3747745.7 | 20.7 | 0.00 | 1.70 | 0.85 | YES |
| L0002851 | 0 | 0.36640E-07 | 377298.2 | 3747749.4 | 20.7 | 0.00 | 1.70 | 0.85 | YES |
| L0002852 | 0 | 0.36640E-07 | 377298.2 | 3747753.0 | 20.7 | 0.00 | 1.70 | 0.85 | YES |
| L0002853 | 0 | 0.36640E-07 | 377298.2 | 3747756.7 | 20.7 | 0.00 | 1.70 | 0.85 | YES |
| L0002854 | 0 | 0.36640E-07 | 377298.1 | 3747760.3 | 20.7 | 0.00 | 1.70 | 0.85 | YES |
| L0002855 | 0 | 0.36640E-07 | 377298.1 | 3747764.0 | 20.7 | 0.00 | 1.70 | 0.85 | YES |
| L0002856 | 0 | 0.36640E-07 | 377298.1 | 3747767.6 | 20.7 | 0.00 | 1.70 | 0.85 | YES |
| L0002857 | 0 | 0.36640E-07 | 377298.1 | 3747771.3 | 20.7 | 0.00 | 1.70 | 0.85 | YES |
| L0002858 | 0 | 0.36640E-07 | 377298.1 | 3747775.0 | 20.7 | 0.00 | 1.70 | 0.85 | YES |
| L0002859 | 0 | 0.36640E-07 | 377298.0 | 3747778.6 | 20.7 | 0.00 | 1.70 | 0.85 | YES |
| L0002860 | 0 | 0.36640E-07 | 377298.0 | 3747782.3 | 20.7 | 0.00 | 1.70 | 0.85 | YES |
| L0002861 | 0 | 0.36640E-07 | 377298.0 | 3747785.9 | 20.7 | 0.00 | 1.70 | 0.85 | YES |
| L0002862 | 0 | 0.36640E-07 | 377298.0 | 3747789.6 | 20.7 | 0.00 | 1.70 | 0.85 | YES |
| L0002863 | 0 | 0.36640E-07 | 377298.0 | 3747793.2 | 20.6 | 0.00 | 1.70 | 0.85 | YES |
| L0002864 | 0 | 0.36640E-07 | 377298.0 | 3747796.9 | 20.6 | 0.00 | 1.70 | 0.85 | YES |
| L0002865 | 0 | 0.36640E-07 | 377297.9 | 3747800.6 | 20.6 | 0.00 | 1.70 | 0.85 | YES |
| L0002866 | 0 | 0.36640E-07 | 377297.9 | 3747804.2 | 20.6 | 0.00 | 1.70 | 0.85 | YES |
| L0002867 | 0 | 0.36640E-07 | 377297.9 | 3747807.9 | 20.6 | 0.00 | 1.70 | 0.85 | YES |
| L0002868 | 0 | 0.36640E-07 | 377297.9 | 3747811.5 | 20.6 | 0.00 | 1.70 | 0.85 | YES |
| L0002869 | 0 | 0.36640E-07 | 377297.9 | 3747815.2 | 20.5 | 0.00 | 1.70 | 0.85 | YES |
| L0002870 | 0 | 0.36640E-07 | 377297.8 | 3747818.8 | 20.5 | 0.00 | 1.70 | 0.85 | YES |
| L0002871 | 0 | 0.36640E-07 | 377297.8 | 3747822.5 | 20.5 | 0.00 | 1.70 | 0.85 | YES |
| L0002872 | 0 | 0.36640E-07 | 377297.8 | 3747826.2 | 20.5 | 0.00 | 1.70 | 0.85 | YES |
| L0002873 | 0 | 0.36640E-07 | 377297.8 | 3747829.8 | 20.5 | 0.00 | 1.70 | 0.85 | YES |
| L0002874 | 0 | 0.36640E-07 | 377297.8 | 3747833.5 | 20.4 | 0.00 | 1.70 | 0.85 | YES |
| L0002875 | 0 | 0.36640E-07 | 377297.8 | 3747837.1 | 20.4 | 0.00 | 1.70 | 0.85 | YES |



*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

*** 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| L0002876 | 0 | 0.36640E-07 | 377297.7 | 3747840.8 | 20.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0002877 | 0 | 0.36640E-07 | 377297.7 | 3747844.4 | 20.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0002878 | 0 | 0.16270E-07 | 377157.2 | 3747245.3 | 18.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0002879 | 0 | 0.16270E-07 | 377159.0 | 3747248.5 | 18.1 | 0.00 | 1.70 | 0.85 | YES | |
| L0002880 | 0 | 0.16270E-07 | 377160.9 | 3747251.7 | 18.1 | 0.00 | 1.70 | 0.85 | YES | |
| L0002881 | 0 | 0.16270E-07 | 377162.7 | 3747254.9 | 18.1 | 0.00 | 1.70 | 0.85 | YES | |
| L0002882 | 0 | 0.16270E-07 | 377164.5 | 3747258.0 | 18.1 | 0.00 | 1.70 | 0.85 | YES | |
| L0002883 | 0 | 0.16270E-07 | 377166.3 | 3747261.2 | 18.1 | 0.00 | 1.70 | 0.85 | YES | |
| L0002884 | 0 | 0.16270E-07 | 377168.1 | 3747264.4 | 18.0 | 0.00 | 1.70 | 0.85 | YES | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| L0002885 | 0 | 0.16270E-07 | 377169.9 | 3747267.6 | 18.0 | 0.00 | 1.70 | 0.85 | YES |
| L0002886 | 0 | 0.16270E-07 | 377171.7 | 3747270.8 | 18.0 | 0.00 | 1.70 | 0.85 | YES |
| L0002887 | 0 | 0.16270E-07 | 377173.5 | 3747273.9 | 18.0 | 0.00 | 1.70 | 0.85 | YES |
| L0002888 | 0 | 0.16270E-07 | 377175.3 | 3747277.1 | 18.0 | 0.00 | 1.70 | 0.85 | YES |
| L0002889 | 0 | 0.16270E-07 | 377177.1 | 3747280.3 | 18.1 | 0.00 | 1.70 | 0.85 | YES |
| L0002890 | 0 | 0.16270E-07 | 377178.9 | 3747283.5 | 18.1 | 0.00 | 1.70 | 0.85 | YES |
| L0002891 | 0 | 0.16270E-07 | 377180.7 | 3747286.7 | 18.1 | 0.00 | 1.70 | 0.85 | YES |
| L0002892 | 0 | 0.16270E-07 | 377182.5 | 3747289.8 | 18.1 | 0.00 | 1.70 | 0.85 | YES |
| L0002893 | 0 | 0.16270E-07 | 377184.3 | 3747293.0 | 18.2 | 0.00 | 1.70 | 0.85 | YES |
| L0002894 | 0 | 0.16270E-07 | 377186.2 | 3747296.2 | 18.2 | 0.00 | 1.70 | 0.85 | YES |
| L0002895 | 0 | 0.16270E-07 | 377188.0 | 3747299.4 | 18.2 | 0.00 | 1.70 | 0.85 | YES |
| L0002896 | 0 | 0.16270E-07 | 377189.8 | 3747302.6 | 18.2 | 0.00 | 1.70 | 0.85 | YES |
| L0002897 | 0 | 0.16270E-07 | 377191.6 | 3747305.7 | 18.2 | 0.00 | 1.70 | 0.85 | YES |
| L0002898 | 0 | 0.16270E-07 | 377193.4 | 3747308.9 | 18.2 | 0.00 | 1.70 | 0.85 | YES |
| L0002899 | 0 | 0.16270E-07 | 377195.2 | 3747312.1 | 18.2 | 0.00 | 1.70 | 0.85 | YES |
| L0002900 | 0 | 0.16270E-07 | 377197.0 | 3747315.3 | 18.2 | 0.00 | 1.70 | 0.85 | YES |
| L0002901 | 0 | 0.16270E-07 | 377198.8 | 3747318.5 | 18.2 | 0.00 | 1.70 | 0.85 | YES |
| L0002902 | 0 | 0.16270E-07 | 377200.6 | 3747321.6 | 18.1 | 0.00 | 1.70 | 0.85 | YES |
| L0002903 | 0 | 0.16270E-07 | 377202.4 | 3747324.8 | 18.1 | 0.00 | 1.70 | 0.85 | YES |
| L0002904 | 0 | 0.16270E-07 | 377204.2 | 3747328.0 | 18.1 | 0.00 | 1.70 | 0.85 | YES |
| L0002905 | 0 | 0.16270E-07 | 377206.0 | 3747331.2 | 18.2 | 0.00 | 1.70 | 0.85 | YES |
| L0002906 | 0 | 0.16270E-07 | 377207.8 | 3747334.4 | 18.2 | 0.00 | 1.70 | 0.85 | YES |
| L0002907 | 0 | 0.16270E-07 | 377209.6 | 3747337.5 | 18.2 | 0.00 | 1.70 | 0.85 | YES |
| L0002908 | 0 | 0.16270E-07 | 377211.4 | 3747340.7 | 18.2 | 0.00 | 1.70 | 0.85 | YES |
| L0002909 | 0 | 0.16270E-07 | 377213.3 | 3747343.9 | 18.3 | 0.00 | 1.70 | 0.85 | YES |
| L0002910 | 0 | 0.16270E-07 | 377215.1 | 3747347.1 | 18.3 | 0.00 | 1.70 | 0.85 | YES |
| L0002911 | 0 | 0.16270E-07 | 377216.9 | 3747350.3 | 18.3 | 0.00 | 1.70 | 0.85 | YES |
| L0002912 | 0 | 0.16270E-07 | 377218.7 | 3747353.4 | 18.3 | 0.00 | 1.70 | 0.85 | YES |
| L0002913 | 0 | 0.16270E-07 | 377220.5 | 3747356.6 | 18.3 | 0.00 | 1.70 | 0.85 | YES |
| L0002914 | 0 | 0.16270E-07 | 377222.3 | 3747359.8 | 18.3 | 0.00 | 1.70 | 0.85 | YES |
| L0002915 | 0 | 0.16270E-07 | 377224.1 | 3747363.0 | 18.3 | 0.00 | 1.70 | 0.85 | YES |



*** MODELOPTs:  RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

*** 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| L0002916 | 0 | 0.16270E-07 | 377225.9 | 3747366.2 | 18.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0002917 | 0 | 0.16270E-07 | 377227.7 | 3747369.3 | 18.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0002918 | 0 | 0.16270E-07 | 377229.5 | 3747372.5 | 18.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0002919 | 0 | 0.16270E-07 | 377231.3 | 3747375.7 | 18.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0002920 | 0 | 0.16270E-07 | 377233.1 | 3747378.9 | 18.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0002921 | 0 | 0.16270E-07 | 377234.9 | 3747382.1 | 18.4 | 0.00 | 1.70 | 0.85 | YES | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| L0002922 | 0 | 0.16270E-07 | 377236.6 | 3747385.3 | 18.4 | 0.00 | 1.70 | 0.85 | YES |
| L0002923 | 0 | 0.16270E-07 | 377238.4 | 3747388.5 | 18.4 | 0.00 | 1.70 | 0.85 | YES |
| L0002924 | 0 | 0.16270E-07 | 377240.1 | 3747391.8 | 18.4 | 0.00 | 1.70 | 0.85 | YES |
| L0002925 | 0 | 0.16270E-07 | 377241.8 | 3747395.0 | 18.4 | 0.00 | 1.70 | 0.85 | YES |
| L0002926 | 0 | 0.16270E-07 | 377243.6 | 3747398.2 | 18.4 | 0.00 | 1.70 | 0.85 | YES |
| L0002927 | 0 | 0.16270E-07 | 377245.3 | 3747401.4 | 18.4 | 0.00 | 1.70 | 0.85 | YES |
| L0002928 | 0 | 0.16270E-07 | 377247.0 | 3747404.6 | 18.4 | 0.00 | 1.70 | 0.85 | YES |
| L0002929 | 0 | 0.16270E-07 | 377248.8 | 3747407.9 | 18.4 | 0.00 | 1.70 | 0.85 | YES |
| L0002930 | 0 | 0.16270E-07 | 377250.5 | 3747411.1 | 18.4 | 0.00 | 1.70 | 0.85 | YES |
| L0002931 | 0 | 0.16270E-07 | 377252.2 | 3747414.3 | 18.4 | 0.00 | 1.70 | 0.85 | YES |
| L0002932 | 0 | 0.16270E-07 | 377254.0 | 3747417.5 | 18.4 | 0.00 | 1.70 | 0.85 | YES |
| L0002933 | 0 | 0.16270E-07 | 377255.7 | 3747420.7 | 18.5 | 0.00 | 1.70 | 0.85 | YES |
| L0002934 | 0 | 0.16270E-07 | 377257.5 | 3747423.9 | 18.5 | 0.00 | 1.70 | 0.85 | YES |
| L0002935 | 0 | 0.16270E-07 | 377259.3 | 3747427.1 | 18.5 | 0.00 | 1.70 | 0.85 | YES |
| L0002936 | 0 | 0.16270E-07 | 377261.2 | 3747430.3 | 18.6 | 0.00 | 1.70 | 0.85 | YES |
| L0002937 | 0 | 0.16270E-07 | 377263.0 | 3747433.4 | 18.6 | 0.00 | 1.70 | 0.85 | YES |
| L0002938 | 0 | 0.16270E-07 | 377264.8 | 3747436.6 | 18.6 | 0.00 | 1.70 | 0.85 | YES |
| L0002939 | 0 | 0.16270E-07 | 377266.6 | 3747439.8 | 18.7 | 0.00 | 1.70 | 0.85 | YES |
| L0002940 | 0 | 0.16270E-07 | 377268.4 | 3747443.0 | 18.7 | 0.00 | 1.70 | 0.85 | YES |
| L0002941 | 0 | 0.16270E-07 | 377270.2 | 3747446.1 | 18.7 | 0.00 | 1.70 | 0.85 | YES |
| L0002942 | 0 | 0.16270E-07 | 377272.0 | 3747449.3 | 18.7 | 0.00 | 1.70 | 0.85 | YES |
| L0002943 | 0 | 0.16270E-07 | 377273.9 | 3747452.5 | 18.7 | 0.00 | 1.70 | 0.85 | YES |
| L0002944 | 0 | 0.16270E-07 | 377275.7 | 3747455.7 | 18.7 | 0.00 | 1.70 | 0.85 | YES |
| L0002945 | 0 | 0.16270E-07 | 377277.5 | 3747458.8 | 18.7 | 0.00 | 1.70 | 0.85 | YES |
| L0002946 | 0 | 0.16270E-07 | 377279.3 | 3747462.0 | 18.7 | 0.00 | 1.70 | 0.85 | YES |
| L0002947 | 0 | 0.16270E-07 | 377281.0 | 3747465.2 | 18.7 | 0.00 | 1.70 | 0.85 | YES |
| L0002948 | 0 | 0.16270E-07 | 377282.7 | 3747468.5 | 18.7 | 0.00 | 1.70 | 0.85 | YES |
| L0002949 | 0 | 0.16270E-07 | 377284.3 | 3747471.8 | 18.7 | 0.00 | 1.70 | 0.85 | YES |
| L0002950 | 0 | 0.16270E-07 | 377285.9 | 3747475.1 | 18.8 | 0.00 | 1.70 | 0.85 | YES |
| L0002951 | 0 | 0.16270E-07 | 377287.6 | 3747478.3 | 18.8 | 0.00 | 1.70 | 0.85 | YES |
| L0002952 | 0 | 0.16270E-07 | 377289.2 | 3747481.6 | 18.9 | 0.00 | 1.70 | 0.85 | YES |
| L0002953 | 0 | 0.26370E-07 | 377164.3 | 3747238.2 | 18.1 | 0.00 | 1.70 | 0.85 | YES |
| L0002954 | 0 | 0.26370E-07 | 377168.0 | 3747238.2 | 18.1 | 0.00 | 1.70 | 0.85 | YES |
| L0002955 | 0 | 0.26370E-07 | 377171.6 | 3747238.2 | 18.0 | 0.00 | 1.70 | 0.85 | YES |



*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

*** 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| L0002956 | 0 | 0.26370E-07 | 377175.3 | 3747238.2 | 18.0 | 0.00 | 1.70 | 0.85 | YES | |
| L0002957 | 0 | 0.26370E-07 | 377179.0 | 3747238.2 | 18.0 | 0.00 | 1.70 | 0.85 | YES | |
| L0002958 | 0 | 0.26370E-07 | 377182.6 | 3747238.2 | 18.0 | 0.00 | 1.70 | 0.85 | YES | |

```
L0002959        0   0.26370E-07  377186.3 3747238.3    18.0     0.00     1.70     0.85     YES
L0002960        0   0.26370E-07  377189.9 3747238.3    18.0     0.00     1.70     0.85     YES
L0002961        0   0.26370E-07  377193.6 3747238.3    18.0     0.00     1.70     0.85     YES
L0002962        0   0.26370E-07  377197.2 3747238.3    18.0     0.00     1.70     0.85     YES
L0002963        0   0.26370E-07  377200.9 3747238.3    18.0     0.00     1.70     0.85     YES
L0002964        0   0.26370E-07  377204.6 3747238.3    18.0     0.00     1.70     0.85     YES
L0002965        0   0.26370E-07  377208.2 3747238.3    18.0     0.00     1.70     0.85     YES
L0002966        0   0.26370E-07  377211.9 3747238.3    18.0     0.00     1.70     0.85     YES
L0002967        0   0.26370E-07  377215.5 3747238.4    17.9     0.00     1.70     0.85     YES
L0002968        0   0.26370E-07  377219.2 3747238.4    17.9     0.00     1.70     0.85     YES
L0002969        0   0.26370E-07  377222.8 3747238.4    17.9     0.00     1.70     0.85     YES
L0002970        0   0.26370E-07  377226.5 3747238.4    17.8     0.00     1.70     0.85     YES
L0002971        0   0.26370E-07  377230.2 3747238.4    17.8     0.00     1.70     0.85     YES
L0002972        0   0.26370E-07  377233.8 3747238.4    17.7     0.00     1.70     0.85     YES
L0002973        0   0.26370E-07  377237.5 3747238.4    17.7     0.00     1.70     0.85     YES
L0002974        0   0.26370E-07  377241.1 3747238.5    17.7     0.00     1.70     0.85     YES
L0002975        0   0.26370E-07  377244.8 3747238.5    17.7     0.00     1.70     0.85     YES
L0002976        0   0.26370E-07  377248.4 3747238.5    17.7     0.00     1.70     0.85     YES
L0002977        0   0.26370E-07  377252.1 3747238.5    17.7     0.00     1.70     0.85     YES
L0002978        0   0.26370E-07  377255.8 3747238.5    17.7     0.00     1.70     0.85     YES
L0002979        0   0.26370E-07  377259.4 3747238.5    17.7     0.00     1.70     0.85     YES
L0002980        0   0.26370E-07  377263.1 3747238.5    17.8     0.00     1.70     0.85     YES
L0002981        0   0.26370E-07  377266.7 3747238.6    17.8     0.00     1.70     0.85     YES
L0002982        0   0.26370E-07  377270.4 3747238.6    17.8     0.00     1.70     0.85     YES
L0002983        0   0.26370E-07  377274.0 3747238.6    17.8     0.00     1.70     0.85     YES
L0002984        0   0.26370E-07  377277.7 3747238.6    17.8     0.00     1.70     0.85     YES
L0002985        0   0.26370E-07  377281.4 3747238.6    17.8     0.00     1.70     0.85     YES
L0002986        0   0.26370E-07  377285.0 3747238.6    17.8     0.00     1.70     0.85     YES
L0002987        0   0.26370E-07  377288.7 3747238.6    17.8     0.00     1.70     0.85     YES
L0002988        0   0.26370E-07  377292.3 3747238.6    17.9     0.00     1.70     0.85     YES
L0002989        0   0.26370E-07  377296.0 3747238.7    17.9     0.00     1.70     0.85     YES
L0002990        0   0.26370E-07  377299.6 3747238.7    17.9     0.00     1.70     0.85     YES
L0002991        0   0.26370E-07  377303.3 3747238.7    18.0     0.00     1.70     0.85     YES
L0002992        0   0.26370E-07  377307.0 3747238.7    18.0     0.00     1.70     0.85     YES
L0002993        0   0.26370E-07  377310.6 3747238.7    18.1     0.00     1.70     0.85     YES
L0002994        0   0.26370E-07  377314.3 3747238.7    18.1     0.00     1.70     0.85     YES
L0002995        0   0.26370E-07  377317.9 3747238.7    18.1     0.00     1.70     0.85     YES
```



*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

*** 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 |
|---|---|---|---|---|---|---|---|---|---|---|

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| L0002996 | 0 | 0.26370E-07 | 377321.6 | 3747238.8 | 18.2 | 0.00 | 1.70 | 0.85 | YES |
| L0002997 | 0 | 0.26370E-07 | 377325.3 | 3747238.8 | 18.2 | 0.00 | 1.70 | 0.85 | YES |
| L0002998 | 0 | 0.26370E-07 | 377328.9 | 3747238.8 | 18.3 | 0.00 | 1.70 | 0.85 | YES |
| L0002999 | 0 | 0.26370E-07 | 377332.6 | 3747238.8 | 18.3 | 0.00 | 1.70 | 0.85 | YES |
| L0003000 | 0 | 0.26370E-07 | 377336.2 | 3747238.8 | 18.4 | 0.00 | 1.70 | 0.85 | YES |
| L0003001 | 0 | 0.26370E-07 | 377339.9 | 3747238.8 | 18.4 | 0.00 | 1.70 | 0.85 | YES |
| L0003002 | 0 | 0.26370E-07 | 377343.5 | 3747238.8 | 18.4 | 0.00 | 1.70 | 0.85 | YES |
| L0003003 | 0 | 0.26370E-07 | 377347.2 | 3747238.9 | 18.5 | 0.00 | 1.70 | 0.85 | YES |
| L0003004 | 0 | 0.26370E-07 | 377350.9 | 3747238.9 | 18.5 | 0.00 | 1.70 | 0.85 | YES |
| L0003005 | 0 | 0.26370E-07 | 377354.5 | 3747238.9 | 18.6 | 0.00 | 1.70 | 0.85 | YES |
| L0003006 | 0 | 0.26370E-07 | 377358.2 | 3747238.9 | 18.6 | 0.00 | 1.70 | 0.85 | YES |
| L0003007 | 0 | 0.26370E-07 | 377361.8 | 3747238.9 | 18.6 | 0.00 | 1.70 | 0.85 | YES |
| L0003008 | 0 | 0.26370E-07 | 377365.5 | 3747238.9 | 18.7 | 0.00 | 1.70 | 0.85 | YES |
| L0003009 | 0 | 0.26370E-07 | 377369.1 | 3747238.9 | 18.7 | 0.00 | 1.70 | 0.85 | YES |
| L0003010 | 0 | 0.26370E-07 | 377372.8 | 3747238.9 | 18.8 | 0.00 | 1.70 | 0.85 | YES |
| L0003011 | 0 | 0.26370E-07 | 377376.5 | 3747239.0 | 18.8 | 0.00 | 1.70 | 0.85 | YES |
| L0003012 | 0 | 0.26370E-07 | 377380.1 | 3747239.0 | 18.8 | 0.00 | 1.70 | 0.85 | YES |
| L0003013 | 0 | 0.26370E-07 | 377383.8 | 3747239.0 | 18.8 | 0.00 | 1.70 | 0.85 | YES |
| L0003014 | 0 | 0.26370E-07 | 377387.4 | 3747239.0 | 18.9 | 0.00 | 1.70 | 0.85 | YES |
| L0003015 | 0 | 0.26370E-07 | 377391.1 | 3747239.0 | 18.9 | 0.00 | 1.70 | 0.85 | YES |
| L0003016 | 0 | 0.26370E-07 | 377394.7 | 3747239.0 | 18.9 | 0.00 | 1.70 | 0.85 | YES |
| L0003017 | 0 | 0.26370E-07 | 377398.4 | 3747239.0 | 19.0 | 0.00 | 1.70 | 0.85 | YES |
| L0003018 | 0 | 0.26370E-07 | 377402.1 | 3747239.1 | 19.0 | 0.00 | 1.70 | 0.85 | YES |
| L0003019 | 0 | 0.26370E-07 | 377405.7 | 3747239.1 | 19.1 | 0.00 | 1.70 | 0.85 | YES |
| L0003020 | 0 | 0.26370E-07 | 377409.4 | 3747239.1 | 19.2 | 0.00 | 1.70 | 0.85 | YES |
| L0003021 | 0 | 0.26370E-07 | 377413.0 | 3747239.1 | 19.2 | 0.00 | 1.70 | 0.85 | YES |
| L0003022 | 0 | 0.26370E-07 | 377416.7 | 3747239.1 | 19.3 | 0.00 | 1.70 | 0.85 | YES |
| L0003023 | 0 | 0.26370E-07 | 377420.3 | 3747239.1 | 19.3 | 0.00 | 1.70 | 0.85 | YES |
| L0003024 | 0 | 0.26370E-07 | 377424.0 | 3747239.1 | 19.4 | 0.00 | 1.70 | 0.85 | YES |
| L0003025 | 0 | 0.26370E-07 | 377427.7 | 3747239.2 | 19.4 | 0.00 | 1.70 | 0.85 | YES |
| L0003026 | 0 | 0.26370E-07 | 377431.3 | 3747239.2 | 19.4 | 0.00 | 1.70 | 0.85 | YES |
| L0003027 | 0 | 0.26370E-07 | 377435.0 | 3747239.2 | 19.5 | 0.00 | 1.70 | 0.85 | YES |
| L0003028 | 0 | 0.26370E-07 | 377438.6 | 3747239.2 | 19.5 | 0.00 | 1.70 | 0.85 | YES |
| L0003029 | 0 | 0.26370E-07 | 377442.3 | 3747239.2 | 19.5 | 0.00 | 1.70 | 0.85 | YES |
| L0003030 | 0 | 0.26370E-07 | 377446.0 | 3747239.2 | 19.6 | 0.00 | 1.70 | 0.85 | YES |
| L0003031 | 0 | 0.26370E-07 | 377449.6 | 3747239.2 | 19.6 | 0.00 | 1.70 | 0.85 | YES |
| L0003032 | 0 | 0.26370E-07 | 377453.3 | 3747239.3 | 19.7 | 0.00 | 1.70 | 0.85 | YES |
| L0003033 | 0 | 0.26370E-07 | 377456.9 | 3747239.3 | 19.7 | 0.00 | 1.70 | 0.85 | YES |
| L0003034 | 0 | 0.26370E-07 | 377460.6 | 3747239.3 | 19.7 | 0.00 | 1.70 | 0.85 | YES |
| L0003035 | 0 | 0.26370E-07 | 377464.2 | 3747239.3 | 19.7 | 0.00 | 1.70 | 0.85 | YES |



*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

*** VOLUME SOURCE DATA ***

| SOURCE | NUMBER PART. | EMISSION RATE (GRAMS/SEC) | X | Y | BASE ELEV. | RELEASE HEIGHT | INIT. SY | INIT. SZ | URBAN SOURCE | EMISSION RATE SCALAR VARY |
|---|---|---|---|---|---|---|---|---|---|---|

| ID | CATS. | | (METERS) | (METERS) | (METERS) | (METERS) | (METERS) | (METERS) | BY |
|---|---|---|---|---|---|---|---|---|---|
| L0003036 | 0 | 0.26370E-07 | 377467.9 | 3747239.3 | 19.8 | 0.00 | 1.70 | 0.85 | YES |
| L0003037 | 0 | 0.26370E-07 | 377471.6 | 3747239.3 | 19.8 | 0.00 | 1.70 | 0.85 | YES |
| L0003038 | 0 | 0.26370E-07 | 377475.2 | 3747239.3 | 19.8 | 0.00 | 1.70 | 0.85 | YES |
| L0003039 | 0 | 0.26370E-07 | 377478.9 | 3747239.3 | 19.8 | 0.00 | 1.70 | 0.85 | YES |
| L0003040 | 0 | 0.26370E-07 | 377482.5 | 3747239.4 | 19.8 | 0.00 | 1.70 | 0.85 | YES |
| L0003041 | 0 | 0.26370E-07 | 377486.2 | 3747239.4 | 19.8 | 0.00 | 1.70 | 0.85 | YES |
| L0003042 | 0 | 0.26370E-07 | 377489.8 | 3747239.4 | 19.8 | 0.00 | 1.70 | 0.85 | YES |
| L0003043 | 0 | 0.26370E-07 | 377493.5 | 3747239.4 | 19.8 | 0.00 | 1.70 | 0.85 | YES |
| L0003044 | 0 | 0.26370E-07 | 377497.2 | 3747239.4 | 19.8 | 0.00 | 1.70 | 0.85 | YES |
| L0003045 | 0 | 0.26370E-07 | 377500.8 | 3747239.4 | 19.8 | 0.00 | 1.70 | 0.85 | YES |
| L0003046 | 0 | 0.26370E-07 | 377504.5 | 3747239.4 | 19.7 | 0.00 | 1.70 | 0.85 | YES |
| L0003047 | 0 | 0.26370E-07 | 377508.1 | 3747239.5 | 19.7 | 0.00 | 1.70 | 0.85 | YES |
| L0003048 | 0 | 0.26370E-07 | 377511.8 | 3747239.5 | 19.7 | 0.00 | 1.70 | 0.85 | YES |
| L0003049 | 0 | 0.26370E-07 | 377515.4 | 3747239.5 | 19.7 | 0.00 | 1.70 | 0.85 | YES |
| L0003050 | 0 | 0.26370E-07 | 377519.1 | 3747239.5 | 19.7 | 0.00 | 1.70 | 0.85 | YES |
| L0003051 | 0 | 0.26370E-07 | 377522.8 | 3747239.5 | 19.6 | 0.00 | 1.70 | 0.85 | YES |
| L0003052 | 0 | 0.26370E-07 | 377526.4 | 3747239.5 | 19.6 | 0.00 | 1.70 | 0.85 | YES |
| L0003053 | 0 | 0.26370E-07 | 377530.1 | 3747239.5 | 19.6 | 0.00 | 1.70 | 0.85 | YES |
| L0003054 | 0 | 0.26370E-07 | 377533.7 | 3747239.6 | 19.6 | 0.00 | 1.70 | 0.85 | YES |
| L0003055 | 0 | 0.26370E-07 | 377537.4 | 3747239.6 | 19.6 | 0.00 | 1.70 | 0.85 | YES |
| L0003056 | 0 | 0.26370E-07 | 377541.0 | 3747239.6 | 19.5 | 0.00 | 1.70 | 0.85 | YES |
| L0003057 | 0 | 0.26370E-07 | 377544.7 | 3747239.6 | 19.5 | 0.00 | 1.70 | 0.85 | YES |
| L0003058 | 0 | 0.26370E-07 | 377548.4 | 3747239.6 | 19.5 | 0.00 | 1.70 | 0.85 | YES |
| L0003059 | 0 | 0.26370E-07 | 377552.0 | 3747239.6 | 19.5 | 0.00 | 1.70 | 0.85 | YES |
| L0003060 | 0 | 0.26370E-07 | 377555.7 | 3747239.6 | 19.5 | 0.00 | 1.70 | 0.85 | YES |
| L0003061 | 0 | 0.26370E-07 | 377559.3 | 3747239.6 | 19.5 | 0.00 | 1.70 | 0.85 | YES |
| L0003062 | 0 | 0.26370E-07 | 377563.0 | 3747239.7 | 19.5 | 0.00 | 1.70 | 0.85 | YES |
| L0003063 | 0 | 0.26370E-07 | 377566.7 | 3747239.7 | 19.4 | 0.00 | 1.70 | 0.85 | YES |
| L0003064 | 0 | 0.26370E-07 | 377570.3 | 3747239.7 | 19.4 | 0.00 | 1.70 | 0.85 | YES |
| L0003065 | 0 | 0.26370E-07 | 377574.0 | 3747239.7 | 19.4 | 0.00 | 1.70 | 0.85 | YES |
| L0003066 | 0 | 0.26370E-07 | 377577.6 | 3747239.7 | 19.4 | 0.00 | 1.70 | 0.85 | YES |
| L0003067 | 0 | 0.26370E-07 | 377581.3 | 3747239.7 | 19.4 | 0.00 | 1.70 | 0.85 | YES |
| L0003068 | 0 | 0.26370E-07 | 377584.9 | 3747239.7 | 19.3 | 0.00 | 1.70 | 0.85 | YES |
| L0003069 | 0 | 0.26370E-07 | 377588.6 | 3747239.8 | 19.3 | 0.00 | 1.70 | 0.85 | YES |
| L0003070 | 0 | 0.26370E-07 | 377592.3 | 3747239.8 | 19.3 | 0.00 | 1.70 | 0.85 | YES |
| L0003071 | 0 | 0.26370E-07 | 377595.9 | 3747239.8 | 19.2 | 0.00 | 1.70 | 0.85 | YES |
| L0003072 | 0 | 0.26370E-07 | 377599.6 | 3747239.8 | 19.2 | 0.00 | 1.70 | 0.85 | YES |
| L0003073 | 0 | 0.26370E-07 | 377603.2 | 3747239.8 | 19.2 | 0.00 | 1.70 | 0.85 | YES |
| L0003074 | 0 | 0.26370E-07 | 377606.9 | 3747239.8 | 19.2 | 0.00 | 1.70 | 0.85 | YES |
| L0003075 | 0 | 0.26370E-07 | 377610.5 | 3747239.8 | 19.2 | 0.00 | 1.70 | 0.85 | YES |



*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| L0003076 | 0 | 0.26370E-07 | 377614.2 | 3747239.9 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0003077 | 0 | 0.26370E-07 | 377617.9 | 3747239.9 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0003078 | 0 | 0.26370E-07 | 377621.5 | 3747239.9 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0003079 | 0 | 0.26370E-07 | 377625.2 | 3747239.9 | 19.1 | 0.00 | 1.70 | 0.85 | YES | |
| L0003080 | 0 | 0.26370E-07 | 377628.8 | 3747239.9 | 19.1 | 0.00 | 1.70 | 0.85 | YES | |
| L0003081 | 0 | 0.26370E-07 | 377632.5 | 3747239.9 | 19.1 | 0.00 | 1.70 | 0.85 | YES | |
| L0003082 | 0 | 0.26370E-07 | 377636.1 | 3747239.9 | 19.1 | 0.00 | 1.70 | 0.85 | YES | |
| L0003083 | 0 | 0.26370E-07 | 377639.8 | 3747239.9 | 19.1 | 0.00 | 1.70 | 0.85 | YES | |
| L0003084 | 0 | 0.26370E-07 | 377643.5 | 3747240.0 | 19.0 | 0.00 | 1.70 | 0.85 | YES | |
| L0003085 | 0 | 0.26370E-07 | 377647.1 | 3747240.0 | 19.0 | 0.00 | 1.70 | 0.85 | YES | |
| L0003086 | 0 | 0.26370E-07 | 377650.8 | 3747240.0 | 19.0 | 0.00 | 1.70 | 0.85 | YES | |
| L0003087 | 0 | 0.26370E-07 | 377654.4 | 3747240.0 | 19.0 | 0.00 | 1.70 | 0.85 | YES | |
| L0003088 | 0 | 0.26370E-07 | 377658.1 | 3747240.0 | 18.9 | 0.00 | 1.70 | 0.85 | YES | |
| L0003089 | 0 | 0.26370E-07 | 377661.7 | 3747240.0 | 18.9 | 0.00 | 1.70 | 0.85 | YES | |
| L0003090 | 0 | 0.26370E-07 | 377665.4 | 3747240.0 | 18.9 | 0.00 | 1.70 | 0.85 | YES | |
| L0003091 | 0 | 0.26370E-07 | 377669.1 | 3747240.1 | 18.9 | 0.00 | 1.70 | 0.85 | YES | |
| L0003092 | 0 | 0.26370E-07 | 377672.7 | 3747240.1 | 18.8 | 0.00 | 1.70 | 0.85 | YES | |
| L0003093 | 0 | 0.26370E-07 | 377676.4 | 3747240.1 | 18.8 | 0.00 | 1.70 | 0.85 | YES | |
| L0003094 | 0 | 0.26370E-07 | 377680.0 | 3747240.1 | 18.8 | 0.00 | 1.70 | 0.85 | YES | |
| L0003095 | 0 | 0.26370E-07 | 377683.7 | 3747240.1 | 18.8 | 0.00 | 1.70 | 0.85 | YES | |
| L0003096 | 0 | 0.26370E-07 | 377687.4 | 3747240.1 | 18.8 | 0.00 | 1.70 | 0.85 | YES | |
| L0003097 | 0 | 0.26370E-07 | 377691.0 | 3747240.1 | 18.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0003098 | 0 | 0.26370E-07 | 377694.7 | 3747240.2 | 18.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0003099 | 0 | 0.26370E-07 | 377698.3 | 3747240.2 | 18.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0003100 | 0 | 0.26370E-07 | 377702.0 | 3747240.2 | 18.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0003101 | 0 | 0.26370E-07 | 377705.6 | 3747240.2 | 18.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0003102 | 0 | 0.26370E-07 | 377709.3 | 3747240.2 | 18.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0003103 | 0 | 0.26370E-07 | 377713.0 | 3747240.2 | 18.6 | 0.00 | 1.70 | 0.85 | YES | |
| L0003104 | 0 | 0.26370E-07 | 377716.6 | 3747240.2 | 18.6 | 0.00 | 1.70 | 0.85 | YES | |
| L0003105 | 0 | 0.26370E-07 | 377720.3 | 3747240.2 | 18.6 | 0.00 | 1.70 | 0.85 | YES | |
| L0003106 | 0 | 0.26370E-07 | 377723.9 | 3747240.3 | 18.6 | 0.00 | 1.70 | 0.85 | YES | |
| L0003107 | 0 | 0.26370E-07 | 377727.6 | 3747240.3 | 18.5 | 0.00 | 1.70 | 0.85 | YES | |
| L0003108 | 0 | 0.26370E-07 | 377731.2 | 3747240.3 | 18.5 | 0.00 | 1.70 | 0.85 | YES | |
| L0003109 | 0 | 0.26370E-07 | 377734.9 | 3747240.3 | 18.5 | 0.00 | 1.70 | 0.85 | YES | |
| L0003110 | 0 | 0.26370E-07 | 377738.6 | 3747240.3 | 18.5 | 0.00 | 1.70 | 0.85 | YES | |
| L0003111 | 0 | 0.26370E-07 | 377742.2 | 3747240.3 | 18.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0003112 | 0 | 0.26370E-07 | 377745.9 | 3747240.3 | 18.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0003113 | 0 | 0.26370E-07 | 377749.5 | 3747240.4 | 18.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0003114 | 0 | 0.26370E-07 | 377753.2 | 3747240.4 | 18.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0003115 | 0 | 0.26370E-07 | 377756.8 | 3747240.4 | 18.3 | 0.00 | 1.70 | 0.85 | YES | |



*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| L0003116 | 0 | 0.26370E-07 | 377760.5 | 3747240.4 | 18.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0003117 | 0 | 0.26370E-07 | 377764.2 | 3747240.4 | 18.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0003118 | 0 | 0.26370E-07 | 377767.8 | 3747240.4 | 18.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0003119 | 0 | 0.26370E-07 | 377771.5 | 3747240.4 | 18.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0003120 | 0 | 0.26370E-07 | 377775.1 | 3747240.5 | 18.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0003121 | 0 | 0.26370E-07 | 377778.8 | 3747240.5 | 18.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0003122 | 0 | 0.26370E-07 | 377782.4 | 3747240.5 | 18.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0003123 | 0 | 0.26370E-07 | 377786.1 | 3747240.5 | 18.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0003124 | 0 | 0.26370E-07 | 377789.8 | 3747240.5 | 18.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0003125 | 0 | 0.26370E-07 | 377793.4 | 3747240.5 | 18.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0003126 | 0 | 0.26370E-07 | 377797.1 | 3747240.5 | 18.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0003127 | 0 | 0.26370E-07 | 377800.7 | 3747240.5 | 18.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0003128 | 0 | 0.26370E-07 | 377804.4 | 3747240.6 | 18.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0003129 | 0 | 0.26370E-07 | 377808.1 | 3747240.6 | 18.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0003130 | 0 | 0.26370E-07 | 377811.7 | 3747240.6 | 18.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0003131 | 0 | 0.26370E-07 | 377815.4 | 3747240.6 | 18.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0003132 | 0 | 0.26370E-07 | 377819.0 | 3747240.6 | 18.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0003133 | 0 | 0.26370E-07 | 377822.7 | 3747240.6 | 18.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0003134 | 0 | 0.26370E-07 | 377826.3 | 3747240.6 | 18.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0003135 | 0 | 0.26370E-07 | 377830.0 | 3747240.7 | 18.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0003136 | 0 | 0.26370E-07 | 377833.7 | 3747240.7 | 18.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0003137 | 0 | 0.26370E-07 | 377837.3 | 3747240.7 | 18.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0003138 | 0 | 0.26370E-07 | 377841.0 | 3747240.7 | 18.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0003139 | 0 | 0.26370E-07 | 377844.6 | 3747240.7 | 18.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0003140 | 0 | 0.26370E-07 | 377848.3 | 3747240.7 | 18.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0003141 | 0 | 0.26370E-07 | 377851.9 | 3747240.7 | 18.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0003142 | 0 | 0.26370E-07 | 377855.6 | 3747240.8 | 18.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0003143 | 0 | 0.26370E-07 | 377859.3 | 3747240.8 | 18.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0003144 | 0 | 0.26370E-07 | 377862.9 | 3747240.8 | 18.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0003145 | 0 | 0.26370E-07 | 377866.6 | 3747240.8 | 18.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0003146 | 0 | 0.26370E-07 | 377870.2 | 3747240.8 | 18.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0003147 | 0 | 0.26370E-07 | 377873.9 | 3747240.8 | 18.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0003148 | 0 | 0.26370E-07 | 377877.5 | 3747240.8 | 18.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0003149 | 0 | 0.26370E-07 | 377881.2 | 3747240.9 | 18.5 | 0.00 | 1.70 | 0.85 | YES | |
| L0003150 | 0 | 0.26370E-07 | 377884.9 | 3747240.9 | 18.5 | 0.00 | 1.70 | 0.85 | YES | |
| L0003151 | 0 | 0.26370E-07 | 377888.5 | 3747240.9 | 18.5 | 0.00 | 1.70 | 0.85 | YES | |
| L0003152 | 0 | 0.26370E-07 | 377892.2 | 3747240.9 | 18.5 | 0.00 | 1.70 | 0.85 | YES | |
| L0003153 | 0 | 0.26370E-07 | 377895.8 | 3747240.9 | 18.6 | 0.00 | 1.70 | 0.85 | YES | |
| L0003154 | 0 | 0.26370E-07 | 377899.5 | 3747240.9 | 18.6 | 0.00 | 1.70 | 0.85 | YES | |
| L0003155 | 0 | 0.26370E-07 | 377903.1 | 3747240.9 | 18.6 | 0.00 | 1.70 | 0.85 | YES | |

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| L0003156 | 0 | 0.26370E-07 | 377906.8 | 3747240.9 | 18.6 | 0.00 | 1.70 | 0.85 | YES | |
| L0003157 | 0 | 0.26370E-07 | 377910.5 | 3747241.0 | 18.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0003158 | 0 | 0.26370E-07 | 377914.1 | 3747241.0 | 18.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0003159 | 0 | 0.26370E-07 | 377917.8 | 3747241.0 | 18.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0003160 | 0 | 0.26370E-07 | 377921.4 | 3747241.0 | 18.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0003161 | 0 | 0.26370E-07 | 377925.1 | 3747241.0 | 18.8 | 0.00 | 1.70 | 0.85 | YES | |
| L0003162 | 0 | 0.26370E-07 | 377928.8 | 3747241.0 | 18.8 | 0.00 | 1.70 | 0.85 | YES | |
| L0003163 | 0 | 0.26370E-07 | 377932.4 | 3747241.0 | 18.8 | 0.00 | 1.70 | 0.85 | YES | |
| L0003164 | 0 | 0.26370E-07 | 377936.1 | 3747241.1 | 18.9 | 0.00 | 1.70 | 0.85 | YES | |
| L0003165 | 0 | 0.26370E-07 | 377939.7 | 3747241.1 | 18.9 | 0.00 | 1.70 | 0.85 | YES | |
| L0003166 | 0 | 0.26370E-07 | 377943.4 | 3747241.1 | 18.9 | 0.00 | 1.70 | 0.85 | YES | |
| L0003167 | 0 | 0.26370E-07 | 377947.0 | 3747241.1 | 19.0 | 0.00 | 1.70 | 0.85 | YES | |
| L0003168 | 0 | 0.26370E-07 | 377950.7 | 3747241.1 | 19.1 | 0.00 | 1.70 | 0.85 | YES | |
| L0003169 | 0 | 0.26370E-07 | 377954.4 | 3747241.1 | 19.1 | 0.00 | 1.70 | 0.85 | YES | |
| L0003170 | 0 | 0.26370E-07 | 377958.0 | 3747241.1 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0003171 | 0 | 0.26370E-07 | 377961.7 | 3747241.2 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0003172 | 0 | 0.26370E-07 | 377965.3 | 3747241.2 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0003173 | 0 | 0.26370E-07 | 377969.0 | 3747241.2 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0003174 | 0 | 0.26370E-07 | 377972.6 | 3747241.2 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0003175 | 0 | 0.26370E-07 | 377976.3 | 3747241.2 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0003176 | 0 | 0.26370E-07 | 377980.0 | 3747241.2 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0003177 | 0 | 0.26370E-07 | 377983.6 | 3747241.2 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0003178 | 0 | 0.26370E-07 | 377987.3 | 3747241.2 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0003179 | 0 | 0.26370E-07 | 377990.9 | 3747241.3 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0003180 | 0 | 0.26370E-07 | 377994.6 | 3747241.3 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0003181 | 0 | 0.26370E-07 | 377998.2 | 3747241.3 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0003182 | 0 | 0.26370E-07 | 378001.9 | 3747241.3 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0003183 | 0 | 0.26370E-07 | 378005.6 | 3747241.3 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0003184 | 0 | 0.26370E-07 | 378009.2 | 3747241.3 | 19.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0003185 | 0 | 0.26370E-07 | 378012.9 | 3747241.3 | 19.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0003186 | 0 | 0.26370E-07 | 378016.5 | 3747241.4 | 19.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0003187 | 0 | 0.26370E-07 | 378020.2 | 3747241.4 | 19.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0003188 | 0 | 0.26370E-07 | 378023.8 | 3747241.4 | 19.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0003189 | 0 | 0.26370E-07 | 378027.5 | 3747241.4 | 19.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0003190 | 0 | 0.26370E-07 | 378031.2 | 3747241.4 | 19.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0003191 | 0 | 0.26370E-07 | 378034.8 | 3747241.4 | 19.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0003192 | 0 | 0.26370E-07 | 378038.5 | 3747241.4 | 19.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0003193 | 0 | 0.26370E-07 | 378042.1 | 3747241.5 | 19.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0003194 | 0 | 0.26370E-07 | 378045.8 | 3747241.5 | 19.5 | 0.00 | 1.70 | 0.85 | YES | |

*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

*** 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| L0003195 | 0 | 0.26370E-07 | 378049.5 | 3747241.5 | 19.5 | 0.00 | 1.70 | 0.85 | YES | |
| L0003196 | 0 | 0.26370E-07 | 378053.1 | 3747241.5 | 19.6 | 0.00 | 1.70 | 0.85 | YES | |
| L0003197 | 0 | 0.26370E-07 | 378056.8 | 3747241.5 | 19.6 | 0.00 | 1.70 | 0.85 | YES | |
| L0003198 | 0 | 0.26370E-07 | 378060.4 | 3747241.5 | 19.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0003199 | 0 | 0.26370E-07 | 378064.1 | 3747241.5 | 19.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0003200 | 0 | 0.26370E-07 | 378067.7 | 3747241.5 | 19.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0003201 | 0 | 0.26370E-07 | 378071.4 | 3747241.6 | 19.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0003202 | 0 | 0.26370E-07 | 378075.1 | 3747241.6 | 19.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0003203 | 0 | 0.26370E-07 | 378078.7 | 3747241.6 | 19.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0003204 | 0 | 0.26370E-07 | 378082.4 | 3747241.6 | 19.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0003205 | 0 | 0.26370E-07 | 378086.0 | 3747241.6 | 19.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0003206 | 0 | 0.26370E-07 | 378089.7 | 3747241.6 | 19.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0003207 | 0 | 0.26370E-07 | 378093.3 | 3747241.6 | 19.8 | 0.00 | 1.70 | 0.85 | YES | |
| L0003208 | 0 | 0.26370E-07 | 378097.0 | 3747241.7 | 19.8 | 0.00 | 1.70 | 0.85 | YES | |
| L0003209 | 0 | 0.26370E-07 | 378100.7 | 3747241.7 | 19.8 | 0.00 | 1.70 | 0.85 | YES | |
| L0003210 | 0 | 0.26370E-07 | 378104.3 | 3747241.7 | 19.8 | 0.00 | 1.70 | 0.85 | YES | |
| L0003211 | 0 | 0.26370E-07 | 378108.0 | 3747241.7 | 19.9 | 0.00 | 1.70 | 0.85 | YES | |
| L0003212 | 0 | 0.26370E-07 | 378111.6 | 3747241.7 | 19.9 | 0.00 | 1.70 | 0.85 | YES | |
| L0003213 | 0 | 0.26370E-07 | 378115.3 | 3747241.7 | 19.9 | 0.00 | 1.70 | 0.85 | YES | |
| L0003214 | 0 | 0.26370E-07 | 378118.9 | 3747241.7 | 19.9 | 0.00 | 1.70 | 0.85 | YES | |
| L0003215 | 0 | 0.26370E-07 | 378122.6 | 3747241.8 | 19.9 | 0.00 | 1.70 | 0.85 | YES | |
| L0003216 | 0 | 0.26370E-07 | 378126.3 | 3747241.8 | 19.9 | 0.00 | 1.70 | 0.85 | YES | |
| L0003217 | 0 | 0.26370E-07 | 378129.9 | 3747241.8 | 19.9 | 0.00 | 1.70 | 0.85 | YES | |
| L0003218 | 0 | 0.26370E-07 | 378133.6 | 3747241.8 | 19.9 | 0.00 | 1.70 | 0.85 | YES | |
| L0003219 | 0 | 0.26370E-07 | 378137.2 | 3747241.8 | 19.9 | 0.00 | 1.70 | 0.85 | YES | |
| L0003220 | 0 | 0.26370E-07 | 378140.9 | 3747241.8 | 19.9 | 0.00 | 1.70 | 0.85 | YES | |
| L0003221 | 0 | 0.26370E-07 | 378144.5 | 3747241.8 | 19.9 | 0.00 | 1.70 | 0.85 | YES | |
| L0003222 | 0 | 0.26370E-07 | 378148.2 | 3747241.8 | 19.9 | 0.00 | 1.70 | 0.85 | YES | |
| L0003223 | 0 | 0.26370E-07 | 378151.9 | 3747241.9 | 19.9 | 0.00 | 1.70 | 0.85 | YES | |
| L0003224 | 0 | 0.26370E-07 | 378155.5 | 3747241.9 | 19.9 | 0.00 | 1.70 | 0.85 | YES | |
| L0003225 | 0 | 0.26370E-07 | 378159.2 | 3747241.9 | 19.9 | 0.00 | 1.70 | 0.85 | YES | |
| L0003226 | 0 | 0.26370E-07 | 378162.8 | 3747241.9 | 19.9 | 0.00 | 1.70 | 0.85 | YES | |
| L0003227 | 0 | 0.26370E-07 | 378166.5 | 3747241.9 | 19.9 | 0.00 | 1.70 | 0.85 | YES | |
| L0003228 | 0 | 0.26370E-07 | 378170.2 | 3747241.9 | 19.8 | 0.00 | 1.70 | 0.85 | YES | |
| L0003229 | 0 | 0.26370E-07 | 378173.8 | 3747241.9 | 19.8 | 0.00 | 1.70 | 0.85 | YES | |
| L0003230 | 0 | 0.26370E-07 | 378177.5 | 3747242.0 | 19.8 | 0.00 | 1.70 | 0.85 | YES | |
| L0003231 | 0 | 0.26370E-07 | 378181.1 | 3747242.0 | 19.7 | 0.00 | 1.70 | 0.85 | YES | |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| L0003232 | 0 | 0.26370E-07 | 378184.8 | 3747242.0 | 19.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0003233 | 0 | 0.26370E-07 | 378188.4 | 3747242.0 | 19.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0003234 | 0 | 0.26370E-07 | 378192.1 | 3747242.0 | 19.6 | 0.00 | 1.70 | 0.85 | YES | |
| L0003235 | 0 | 0.26370E-07 | 378195.8 | 3747242.0 | 19.7 | 0.00 | 1.70 | 0.85 | YES | |



*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| L0003236 | 0 | 0.26370E-07 | 378199.4 | 3747242.0 | 19.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0003237 | 0 | 0.26370E-07 | 378203.1 | 3747242.1 | 19.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0003238 | 0 | 0.26370E-07 | 378206.7 | 3747242.1 | 19.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0003239 | 0 | 0.26370E-07 | 378210.4 | 3747242.1 | 19.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0003240 | 0 | 0.26370E-07 | 378214.0 | 3747242.1 | 19.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0003241 | 0 | 0.26370E-07 | 378217.7 | 3747242.1 | 19.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0003242 | 0 | 0.26370E-07 | 378221.4 | 3747242.1 | 19.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0003243 | 0 | 0.26370E-07 | 378225.0 | 3747242.1 | 19.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0003244 | 0 | 0.26370E-07 | 378228.7 | 3747242.1 | 19.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0003245 | 0 | 0.26370E-07 | 378232.3 | 3747242.2 | 19.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0003246 | 0 | 0.26370E-07 | 378236.0 | 3747242.2 | 19.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0003247 | 0 | 0.26370E-07 | 378239.6 | 3747242.2 | 19.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0003248 | 0 | 0.26370E-07 | 378243.3 | 3747242.2 | 19.6 | 0.00 | 1.70 | 0.85 | YES | |
| L0003249 | 0 | 0.26370E-07 | 378247.0 | 3747242.2 | 19.6 | 0.00 | 1.70 | 0.85 | YES | |
| L0003250 | 0 | 0.26370E-07 | 378250.6 | 3747242.2 | 19.5 | 0.00 | 1.70 | 0.85 | YES | |
| L0003251 | 0 | 0.26370E-07 | 378254.3 | 3747242.2 | 19.5 | 0.00 | 1.70 | 0.85 | YES | |
| L0003252 | 0 | 0.26370E-07 | 378257.9 | 3747242.3 | 19.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0003253 | 0 | 0.26370E-07 | 378261.6 | 3747242.3 | 19.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0003254 | 0 | 0.26370E-07 | 378265.2 | 3747242.3 | 19.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0003255 | 0 | 0.26370E-07 | 378268.9 | 3747242.3 | 19.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0003256 | 0 | 0.26370E-07 | 378272.6 | 3747242.3 | 19.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0003257 | 0 | 0.26370E-07 | 378276.2 | 3747242.3 | 19.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0003258 | 0 | 0.26370E-07 | 378279.9 | 3747242.3 | 19.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0003259 | 0 | 0.26370E-07 | 378283.5 | 3747242.4 | 19.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0003260 | 0 | 0.26370E-07 | 378287.2 | 3747242.4 | 19.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0003261 | 0 | 0.26370E-07 | 378290.9 | 3747242.4 | 19.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0003262 | 0 | 0.26370E-07 | 378294.5 | 3747242.4 | 19.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0003263 | 0 | 0.26370E-07 | 378298.2 | 3747242.4 | 19.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0003264 | 0 | 0.26370E-07 | 378301.8 | 3747242.4 | 19.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0003265 | 0 | 0.26370E-07 | 378305.5 | 3747242.4 | 19.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0003266 | 0 | 0.26370E-07 | 378309.1 | 3747242.5 | 19.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0003267 | 0 | 0.26370E-07 | 378312.8 | 3747242.5 | 19.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0003268 | 0 | 0.26370E-07 | 378316.5 | 3747242.5 | 19.4 | 0.00 | 1.70 | 0.85 | YES | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| L0003269 | 0 | 0.26370E-07 | 378320.1 | 3747242.5 | 19.4 | 0.00 | 1.70 | 0.85 | YES |
| L0003270 | 0 | 0.26370E-07 | 378323.8 | 3747242.5 | 19.4 | 0.00 | 1.70 | 0.85 | YES |
| L0003271 | 0 | 0.26370E-07 | 378327.4 | 3747242.5 | 19.4 | 0.00 | 1.70 | 0.85 | YES |
| L0003272 | 0 | 0.26370E-07 | 378331.1 | 3747242.5 | 19.3 | 0.00 | 1.70 | 0.85 | YES |
| L0003273 | 0 | 0.26370E-07 | 378334.7 | 3747242.5 | 19.3 | 0.00 | 1.70 | 0.85 | YES |
| L0003274 | 0 | 0.26370E-07 | 378338.4 | 3747242.6 | 19.3 | 0.00 | 1.70 | 0.85 | YES |
| L0003275 | 0 | 0.26370E-07 | 378342.1 | 3747242.6 | 19.2 | 0.00 | 1.70 | 0.85 | YES |



*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| L0003276 | 0 | 0.26370E-07 | 378345.7 | 3747242.6 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0003277 | 0 | 0.26370E-07 | 378349.4 | 3747242.6 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0003278 | 0 | 0.26370E-07 | 378353.0 | 3747242.6 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0003279 | 0 | 0.26370E-07 | 378356.7 | 3747242.6 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0003280 | 0 | 0.26370E-07 | 378360.3 | 3747242.6 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0003281 | 0 | 0.26370E-07 | 378364.0 | 3747242.7 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0003282 | 0 | 0.26370E-07 | 378367.7 | 3747242.7 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0003283 | 0 | 0.26370E-07 | 378371.3 | 3747242.7 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0003284 | 0 | 0.26370E-07 | 378375.0 | 3747242.7 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0003285 | 0 | 0.26370E-07 | 378378.6 | 3747242.7 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0003286 | 0 | 0.26370E-07 | 378382.3 | 3747242.7 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0003287 | 0 | 0.26370E-07 | 378385.9 | 3747242.7 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0003288 | 0 | 0.26370E-07 | 378389.6 | 3747242.8 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0003289 | 0 | 0.26370E-07 | 378393.3 | 3747242.8 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0003290 | 0 | 0.26370E-07 | 378396.9 | 3747242.8 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0003291 | 0 | 0.26370E-07 | 378400.6 | 3747242.8 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0003292 | 0 | 0.26370E-07 | 378404.2 | 3747242.8 | 19.1 | 0.00 | 1.70 | 0.85 | YES | |
| L0003293 | 0 | 0.26370E-07 | 378407.9 | 3747242.8 | 19.1 | 0.00 | 1.70 | 0.85 | YES | |
| L0003294 | 0 | 0.26370E-07 | 378411.6 | 3747242.8 | 19.1 | 0.00 | 1.70 | 0.85 | YES | |
| L0003295 | 0 | 0.26370E-07 | 378415.2 | 3747242.8 | 19.0 | 0.00 | 1.70 | 0.85 | YES | |
| L0003296 | 0 | 0.26370E-07 | 378418.9 | 3747242.9 | 19.0 | 0.00 | 1.70 | 0.85 | YES | |
| L0003297 | 0 | 0.26370E-07 | 378422.5 | 3747242.9 | 19.0 | 0.00 | 1.70 | 0.85 | YES | |
| L0003298 | 0 | 0.26370E-07 | 378426.2 | 3747242.9 | 19.0 | 0.00 | 1.70 | 0.85 | YES | |
| L0003299 | 0 | 0.26370E-07 | 378429.8 | 3747242.9 | 19.0 | 0.00 | 1.70 | 0.85 | YES | |
| L0003300 | 0 | 0.26370E-07 | 378433.5 | 3747242.9 | 19.1 | 0.00 | 1.70 | 0.85 | YES | |
| L0003301 | 0 | 0.26370E-07 | 378437.2 | 3747242.9 | 19.1 | 0.00 | 1.70 | 0.85 | YES | |
| L0003302 | 0 | 0.26370E-07 | 378440.8 | 3747242.9 | 19.1 | 0.00 | 1.70 | 0.85 | YES | |
| L0003303 | 0 | 0.26370E-07 | 378444.5 | 3747243.0 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0003304 | 0 | 0.26370E-07 | 378448.1 | 3747243.0 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0003305 | 0 | 0.26370E-07 | 378451.8 | 3747243.0 | 19.2 | 0.00 | 1.70 | 0.85 | YES | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| L0003306 | 0 | 0.26370E-07 | 378455.4 | 3747243.0 | 19.2 | 0.00 | 1.70 | 0.85 | YES |
| L0003307 | 0 | 0.26370E-07 | 378459.1 | 3747243.0 | 19.2 | 0.00 | 1.70 | 0.85 | YES |
| L0003308 | 0 | 0.26370E-07 | 378462.8 | 3747243.0 | 19.2 | 0.00 | 1.70 | 0.85 | YES |
| L0003309 | 0 | 0.26370E-07 | 378466.4 | 3747243.0 | 19.2 | 0.00 | 1.70 | 0.85 | YES |
| L0003310 | 0 | 0.26370E-07 | 378470.1 | 3747243.1 | 19.2 | 0.00 | 1.70 | 0.85 | YES |
| L0003311 | 0 | 0.26370E-07 | 378473.7 | 3747243.1 | 19.2 | 0.00 | 1.70 | 0.85 | YES |
| L0003312 | 0 | 0.26370E-07 | 378477.4 | 3747243.1 | 19.1 | 0.00 | 1.70 | 0.85 | YES |
| L0003313 | 0 | 0.26370E-07 | 378481.0 | 3747243.1 | 19.1 | 0.00 | 1.70 | 0.85 | YES |
| L0003314 | 0 | 0.26370E-07 | 378484.7 | 3747243.1 | 19.1 | 0.00 | 1.70 | 0.85 | YES |
| L0003315 | 0 | 0.26370E-07 | 378488.4 | 3747243.1 | 19.1 | 0.00 | 1.70 | 0.85 | YES |



*** MODELOPTs:  RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

*** 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| L0003316 | 0 | 0.26370E-07 | 378492.0 | 3747243.1 | 19.0 | 0.00 | 1.70 | 0.85 | YES | |
| L0003317 | 0 | 0.26370E-07 | 378495.7 | 3747243.1 | 19.0 | 0.00 | 1.70 | 0.85 | YES | |
| L0003318 | 0 | 0.26370E-07 | 378499.3 | 3747243.2 | 19.0 | 0.00 | 1.70 | 0.85 | YES | |
| L0003319 | 0 | 0.26370E-07 | 378503.0 | 3747243.2 | 19.0 | 0.00 | 1.70 | 0.85 | YES | |
| L0003320 | 0 | 0.26370E-07 | 378506.6 | 3747243.2 | 18.9 | 0.00 | 1.70 | 0.85 | YES | |
| L0003321 | 0 | 0.26370E-07 | 378510.3 | 3747243.2 | 18.9 | 0.00 | 1.70 | 0.85 | YES | |
| L0003322 | 0 | 0.26370E-07 | 378514.0 | 3747243.2 | 18.9 | 0.00 | 1.70 | 0.85 | YES | |
| L0003323 | 0 | 0.26370E-07 | 378517.6 | 3747243.2 | 18.9 | 0.00 | 1.70 | 0.85 | YES | |
| L0003324 | 0 | 0.26370E-07 | 378521.3 | 3747243.2 | 18.9 | 0.00 | 1.70 | 0.85 | YES | |
| L0003325 | 0 | 0.26370E-07 | 378524.9 | 3747243.3 | 18.9 | 0.00 | 1.70 | 0.85 | YES | |
| L0003326 | 0 | 0.26370E-07 | 378528.6 | 3747243.3 | 18.8 | 0.00 | 1.70 | 0.85 | YES | |
| L0003327 | 0 | 0.26370E-07 | 378532.3 | 3747243.3 | 18.8 | 0.00 | 1.70 | 0.85 | YES | |
| L0003328 | 0 | 0.26370E-07 | 378535.9 | 3747243.3 | 18.8 | 0.00 | 1.70 | 0.85 | YES | |
| L0003329 | 0 | 0.26370E-07 | 378539.6 | 3747243.3 | 18.8 | 0.00 | 1.70 | 0.85 | YES | |
| L0003330 | 0 | 0.26370E-07 | 378543.2 | 3747243.3 | 18.8 | 0.00 | 1.70 | 0.85 | YES | |
| L0003331 | 0 | 0.26370E-07 | 378546.9 | 3747243.3 | 18.8 | 0.00 | 1.70 | 0.85 | YES | |
| L0003332 | 0 | 0.26370E-07 | 378550.5 | 3747243.4 | 18.8 | 0.00 | 1.70 | 0.85 | YES | |
| L0003333 | 0 | 0.26370E-07 | 378554.2 | 3747243.4 | 18.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0003334 | 0 | 0.26370E-07 | 378557.9 | 3747243.4 | 18.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0003335 | 0 | 0.26370E-07 | 378561.5 | 3747243.4 | 18.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0003336 | 0 | 0.26370E-07 | 378565.2 | 3747243.4 | 18.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0003337 | 0 | 0.26370E-07 | 378568.8 | 3747243.4 | 18.6 | 0.00 | 1.70 | 0.85 | YES | |
| L0003338 | 0 | 0.26370E-07 | 378572.5 | 3747243.4 | 18.6 | 0.00 | 1.70 | 0.85 | YES | |
| L0003339 | 0 | 0.26370E-07 | 378576.1 | 3747243.4 | 18.6 | 0.00 | 1.70 | 0.85 | YES | |
| L0003340 | 0 | 0.26370E-07 | 378579.8 | 3747243.5 | 18.6 | 0.00 | 1.70 | 0.85 | YES | |
| L0003341 | 0 | 0.26370E-07 | 378583.5 | 3747243.5 | 18.6 | 0.00 | 1.70 | 0.85 | YES | |
| L0003342 | 0 | 0.26370E-07 | 378587.1 | 3747243.5 | 18.6 | 0.00 | 1.70 | 0.85 | YES | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| L0003343 | 0 | 0.26370E-07 | 378590.8 | 3747243.5 | 18.6 | 0.00 | 1.70 | 0.85 | YES |
| L0003344 | 0 | 0.26370E-07 | 378594.4 | 3747243.5 | 18.7 | 0.00 | 1.70 | 0.85 | YES |
| L0003345 | 0 | 0.26370E-07 | 378598.1 | 3747243.5 | 18.7 | 0.00 | 1.70 | 0.85 | YES |
| L0003346 | 0 | 0.26370E-07 | 378601.7 | 3747243.5 | 18.7 | 0.00 | 1.70 | 0.85 | YES |
| L0003347 | 0 | 0.26370E-07 | 378605.4 | 3747243.6 | 18.7 | 0.00 | 1.70 | 0.85 | YES |
| L0003348 | 0 | 0.26370E-07 | 378609.1 | 3747243.6 | 18.7 | 0.00 | 1.70 | 0.85 | YES |
| L0003349 | 0 | 0.26370E-07 | 378612.7 | 3747243.6 | 18.7 | 0.00 | 1.70 | 0.85 | YES |
| L0003350 | 0 | 0.26370E-07 | 378616.4 | 3747243.6 | 18.7 | 0.00 | 1.70 | 0.85 | YES |
| L0003351 | 0 | 0.26370E-07 | 378620.0 | 3747243.6 | 18.7 | 0.00 | 1.70 | 0.85 | YES |
| L0003352 | 0 | 0.26370E-07 | 378623.7 | 3747243.6 | 18.7 | 0.00 | 1.70 | 0.85 | YES |
| L0003353 | 0 | 0.26370E-07 | 378627.3 | 3747243.6 | 18.7 | 0.00 | 1.70 | 0.85 | YES |
| L0003354 | 0 | 0.26370E-07 | 378631.0 | 3747243.7 | 18.7 | 0.00 | 1.70 | 0.85 | YES |
| L0003355 | 0 | 0.26370E-07 | 378634.7 | 3747243.7 | 18.7 | 0.00 | 1.70 | 0.85 | YES |



*** 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| L0003356 | 0 | 0.26370E-07 | 378638.3 | 3747243.7 | 18.6 | 0.00 | 1.70 | 0.85 | YES | |
| L0003357 | 0 | 0.26370E-07 | 378642.0 | 3747243.7 | 18.6 | 0.00 | 1.70 | 0.85 | YES | |
| L0003358 | 0 | 0.26370E-07 | 378645.6 | 3747243.7 | 18.6 | 0.00 | 1.70 | 0.85 | YES | |
| L0003359 | 0 | 0.26370E-07 | 378649.3 | 3747243.7 | 18.6 | 0.00 | 1.70 | 0.85 | YES | |
| L0003360 | 0 | 0.26370E-07 | 378653.0 | 3747243.7 | 18.5 | 0.00 | 1.70 | 0.85 | YES | |
| L0003361 | 0 | 0.26370E-07 | 378656.6 | 3747243.8 | 18.5 | 0.00 | 1.70 | 0.85 | YES | |
| L0003362 | 0 | 0.26370E-07 | 378660.3 | 3747243.8 | 18.5 | 0.00 | 1.70 | 0.85 | YES | |
| L0003363 | 0 | 0.26370E-07 | 378663.9 | 3747243.8 | 18.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0003364 | 0 | 0.26370E-07 | 378667.6 | 3747243.8 | 18.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0003365 | 0 | 0.26370E-07 | 378671.2 | 3747243.8 | 18.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0003366 | 0 | 0.26370E-07 | 378674.9 | 3747243.8 | 18.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0003367 | 0 | 0.26370E-07 | 378678.6 | 3747243.8 | 18.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0003368 | 0 | 0.26370E-07 | 378682.2 | 3747243.8 | 18.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0003369 | 0 | 0.26370E-07 | 378685.9 | 3747243.9 | 18.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0003370 | 0 | 0.26370E-07 | 378689.5 | 3747243.9 | 18.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0003371 | 0 | 0.26370E-07 | 378693.2 | 3747243.9 | 18.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0003372 | 0 | 0.26370E-07 | 378696.8 | 3747243.9 | 18.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0003373 | 0 | 0.26370E-07 | 378700.5 | 3747243.9 | 18.4 | 0.00 | 1.70 | 0.85 | YES | |

*** SOURCE IDs DEFINING SOURCE GROUPS ***

| SRCGROUP ID | SOURCE IDs |
|---|---|
| ALL | STCK1 , STCK2 , STCK3 , STCK4 , STCK5 , STCK6 , L0002636 , L0002637 , |
| | L0002638 , L0002639 , L0002640 , L0002641 , L0002642 , L0002643 , L0002644 , L0002645 , |
| | L0002646 , L0002647 , L0002648 , L0002649 , L0002650 , L0002651 , L0002652 , L0002653 , |
| | L0002654 , L0002655 , L0002656 , L0002657 , L0002658 , L0002659 , L0002660 , L0002661 , |
| | L0002662 , L0002663 , L0002664 , L0002665 , L0002666 , L0002667 , L0002668 , L0002669 , |
| | L0002670 , L0002671 , L0002672 , L0002673 , L0002674 , L0002675 , L0002676 , L0002677 , |
| | L0002678 , L0002679 , L0002680 , L0002681 , L0002682 , L0002683 , L0002684 , L0002685 , |
| | L0002686 , L0002687 , L0002688 , L0002689 , L0002690 , L0002691 , L0002692 , L0002693 , |
| | L0002694 , L0002695 , L0002696 , L0002697 , L0002698 , L0002699 , L0002700 , L0002701 , |
| | L0002702 , L0002703 , L0002704 , L0002705 , L0002706 , L0002707 , L0002708 , L0002709 , |
| | L0002710 , L0002711 , L0002712 , L0002713 , L0002714 , L0002715 , L0002716 , L0002717 , |
| | L0002718 , L0002719 , L0002720 , L0002721 , L0002722 , L0002723 , L0002724 , L0002725 , |
| | L0002726 , L0002727 , L0002728 , L0002729 , L0002730 , L0002731 , L0002732 , L0002733 , |
| | L0002734 , L0002735 , L0002736 , L0002737 , L0002738 , L0002739 , L0002740 , L0002741 , |
| | L0002742 , L0002743 , L0002744 , L0002745 , L0002746 , L0002747 , L0002748 , L0002749 , |
| | L0002750 , L0002751 , L0002752 , L0002753 , L0002754 , L0002755 , L0002756 , L0002757 , |
| | L0002758 , L0002759 , L0002760 , L0002761 , L0002762 , L0002763 , L0002764 , L0002765 , |
| | L0002766 , L0002767 , L0002768 , L0002769 , L0002770 , L0002771 , L0002772 , L0002773 , |
| | L0002774 , L0002775 , L0002776 , L0002777 , L0002778 , L0002779 , L0002780 , L0002781 , |
| | L0002782 , L0002783 , L0002784 , L0002785 , L0002786 , L0002787 , L0002788 , L0002789 , |



*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

| SRCGROUP ID | SOURCE IDs |
|---|---|
| | L0002790 , L0002791 , L0002792 , L0002793 , L0002794 , L0002795 , L0002796 , L0002797 , |
| | L0002798 , L0002799 , L0002800 , L0002801 , L0002802 , L0002803 , L0002804 , L0002805 , |
| | L0002806 , L0002807 , L0002808 , L0002809 , L0002810 , L0002811 , L0002812 , L0002813 , |
| | L0002814 , L0002815 , L0002816 , L0002817 , L0002818 , L0002819 , L0002820 , L0002821 , |
| | L0002822 , L0002823 , L0002824 , L0002825 , L0002826 , L0002827 , L0002828 , L0002829 , |
| | L0002830 , L0002831 , L0002832 , L0002833 , L0002834 , L0002835 , L0002836 , L0002837 , |
| | L0002838 , L0002839 , L0002840 , L0002841 , L0002842 , L0002843 , L0002844 , L0002845 , |
| | L0002846 , L0002847 , L0002848 , L0002849 , L0002850 , L0002851 , L0002852 , L0002853 , |
| | L0002854 , L0002855 , L0002856 , L0002857 , L0002858 , L0002859 , L0002860 , L0002861 , |
| | L0002862 , L0002863 , L0002864 , L0002865 , L0002866 , L0002867 , L0002868 , L0002869 , |
| | L0002870 , L0002871 , L0002872 , L0002873 , L0002874 , L0002875 , L0002876 , L0002877 , |
| | L0002878 , L0002879 , L0002880 , L0002881 , L0002882 , L0002883 , L0002884 , L0002885 , |
| | L0002886 , L0002887 , L0002888 , L0002889 , L0002890 , L0002891 , L0002892 , L0002893 , |
| | L0002894 , L0002895 , L0002896 , L0002897 , L0002898 , L0002899 , L0002900 , L0002901 , |
| | L0002902 , L0002903 , L0002904 , L0002905 , L0002906 , L0002907 , L0002908 , L0002909 , |
| | L0002910 , L0002911 , L0002912 , L0002913 , L0002914 , L0002915 , L0002916 , L0002917 , |
| | L0002918 , L0002919 , L0002920 , L0002921 , L0002922 , L0002923 , L0002924 , L0002925 , |
| | L0002926 , L0002927 , L0002928 , L0002929 , L0002930 , L0002931 , L0002932 , L0002933 , |
| | L0002934 , L0002935 , L0002936 , L0002937 , L0002938 , L0002939 , L0002940 , L0002941 , |
| | L0002942 , L0002943 , L0002944 , L0002945 , L0002946 , L0002947 , L0002948 , L0002949 , |

*** MODELOPTs:  RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

| SRCGROUP ID | SOURCE IDs |
|---|---|
| | L0002950 , L0002951 , L0002952 , L0002953 , L0002954 , L0002955 , L0002956 , L0002957 , |
| | L0002958 , L0002959 , L0002960 , L0002961 , L0002962 , L0002963 , L0002964 , L0002965 , |
| | L0002966 , L0002967 , L0002968 , L0002969 , L0002970 , L0002971 , L0002972 , L0002973 , |
| | L0002974 , L0002975 , L0002976 , L0002977 , L0002978 , L0002979 , L0002980 , L0002981 , |
| | L0002982 , L0002983 , L0002984 , L0002985 , L0002986 , L0002987 , L0002988 , L0002989 , |
| | L0002990 , L0002991 , L0002992 , L0002993 , L0002994 , L0002995 , L0002996 , L0002997 , |
| | L0002998 , L0002999 , L0003000 , L0003001 , L0003002 , L0003003 , L0003004 , L0003005 , |
| | L0003006 , L0003007 , L0003008 , L0003009 , L0003010 , L0003011 , L0003012 , L0003013 , |
| | L0003014 , L0003015 , L0003016 , L0003017 , L0003018 , L0003019 , L0003020 , L0003021 , |
| | L0003022 , L0003023 , L0003024 , L0003025 , L0003026 , L0003027 , L0003028 , L0003029 , |
| | L0003030 , L0003031 , L0003032 , L0003033 , L0003034 , L0003035 , L0003036 , L0003037 , |
| | L0003038 , L0003039 , L0003040 , L0003041 , L0003042 , L0003043 , L0003044 , L0003045 , |
| | L0003046 , L0003047 , L0003048 , L0003049 , L0003050 , L0003051 , L0003052 , L0003053 , |
| | L0003054 , L0003055 , L0003056 , L0003057 , L0003058 , L0003059 , L0003060 , L0003061 , |
| | L0003062 , L0003063 , L0003064 , L0003065 , L0003066 , L0003067 , L0003068 , L0003069 , |
| | L0003070 , L0003071 , L0003072 , L0003073 , L0003074 , L0003075 , L0003076 , L0003077 , |
| | L0003078 , L0003079 , L0003080 , L0003081 , L0003082 , L0003083 , L0003084 , L0003085 , |
| | L0003086 , L0003087 , L0003088 , L0003089 , L0003090 , L0003091 , L0003092 , L0003093 , |
| | L0003094 , L0003095 , L0003096 , L0003097 , L0003098 , L0003099 , L0003100 , L0003101 , |
| | L0003102 , L0003103 , L0003104 , L0003105 , L0003106 , L0003107 , L0003108 , L0003109 , |

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

| SRCGROUP ID | SOURCE IDs |
|---|---|
| | L0003110 , L0003111 , L0003112 , L0003113 , L0003114 , L0003115 , L0003116 , L0003117 , |
| | L0003118 , L0003119 , L0003120 , L0003121 , L0003122 , L0003123 , L0003124 , L0003125 , |
| | L0003126 , L0003127 , L0003128 , L0003129 , L0003130 , L0003131 , L0003132 , L0003133 , |
| | L0003134 , L0003135 , L0003136 , L0003137 , L0003138 , L0003139 , L0003140 , L0003141 , |
| | L0003142 , L0003143 , L0003144 , L0003145 , L0003146 , L0003147 , L0003148 , L0003149 , |
| | L0003150 , L0003151 , L0003152 , L0003153 , L0003154 , L0003155 , L0003156 , L0003157 , |
| | L0003158 , L0003159 , L0003160 , L0003161 , L0003162 , L0003163 , L0003164 , L0003165 , |
| | L0003166 , L0003167 , L0003168 , L0003169 , L0003170 , L0003171 , L0003172 , L0003173 , |
| | L0003174 , L0003175 , L0003176 , L0003177 , L0003178 , L0003179 , L0003180 , L0003181 , |
| | L0003182 , L0003183 , L0003184 , L0003185 , L0003186 , L0003187 , L0003188 , L0003189 , |
| | L0003190 , L0003191 , L0003192 , L0003193 , L0003194 , L0003195 , L0003196 , L0003197 , |
| | L0003198 , L0003199 , L0003200 , L0003201 , L0003202 , L0003203 , L0003204 , L0003205 , |
| | L0003206 , L0003207 , L0003208 , L0003209 , L0003210 , L0003211 , L0003212 , L0003213 , |
| | L0003214 , L0003215 , L0003216 , L0003217 , L0003218 , L0003219 , L0003220 , L0003221 , |
| | L0003222 , L0003223 , L0003224 , L0003225 , L0003226 , L0003227 , L0003228 , L0003229 , |
| | L0003230 , L0003231 , L0003232 , L0003233 , L0003234 , L0003235 , L0003236 , L0003237 , |
| | L0003238 , L0003239 , L0003240 , L0003241 , L0003242 , L0003243 , L0003244 , L0003245 , |
| | L0003246 , L0003247 , L0003248 , L0003249 , L0003250 , L0003251 , L0003252 , L0003253 , |
| | L0003254 , L0003255 , L0003256 , L0003257 , L0003258 , L0003259 , L0003260 , L0003261 , |
| | L0003262 , L0003263 , L0003264 , L0003265 , L0003266 , L0003267 , L0003268 , L0003269 , |

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

| SRCGROUP ID | SOURCE IDs |
|---|---|
| | L0003270 , L0003271 , L0003272 , L0003273 , L0003274 , L0003275 , L0003276 , L0003277 , |
| | L0003278 , L0003279 , L0003280 , L0003281 , L0003282 , L0003283 , L0003284 , L0003285 , |
| | L0003286 , L0003287 , L0003288 , L0003289 , L0003290 , L0003291 , L0003292 , L0003293 , |
| | L0003294 , L0003295 , L0003296 , L0003297 , L0003298 , L0003299 , L0003300 , L0003301 , |
| | L0003302 , L0003303 , L0003304 , L0003305 , L0003306 , L0003307 , L0003308 , L0003309 , |
| | L0003310 , L0003311 , L0003312 , L0003313 , L0003314 , L0003315 , L0003316 , L0003317 , |
| | L0003318 , L0003319 , L0003320 , L0003321 , L0003322 , L0003323 , L0003324 , L0003325 , |
| | L0003326 , L0003327 , L0003328 , L0003329 , L0003330 , L0003331 , L0003332 , L0003333 , |
| | L0003334 , L0003335 , L0003336 , L0003337 , L0003338 , L0003339 , L0003340 , L0003341 , |
| | L0003342 , L0003343 , L0003344 , L0003345 , L0003346 , L0003347 , L0003348 , L0003349 , |
| | L0003350 , L0003351 , L0003352 , L0003353 , L0003354 , L0003355 , L0003356 , L0003357 , |
| | L0003358 , L0003359 , L0003360 , L0003361 , L0003362 , L0003363 , L0003364 , L0003365 , |
| | L0003366 , L0003367 , L0003368 , L0003369 , L0003370 , L0003371 , L0003372 , L0003373 , |



*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

| URBAN ID | URBAN POP | SOURCE IDs |
|---|---|---|
| | 9818605. | STCK1 , STCK2 , STCK3 , STCK4 , STCK5 , STCK6 , L0002636 , L0002637 , |

```
            L0002638    , L0002639    , L0002640    , L0002641    , L0002642    , L0002643    , L0002644    , L0002645    ,
            L0002646    , L0002647    , L0002648    , L0002649    , L0002650    , L0002651    , L0002652    , L0002653    ,
            L0002654    , L0002655    , L0002656    , L0002657    , L0002658    , L0002659    , L0002660    , L0002661    ,
            L0002662    , L0002663    , L0002664    , L0002665    , L0002666    , L0002667    , L0002668    , L0002669    ,
            L0002670    , L0002671    , L0002672    , L0002673    , L0002674    , L0002675    , L0002676    , L0002677    ,
            L0002678    , L0002679    , L0002680    , L0002681    , L0002682    , L0002683    , L0002684    , L0002685    ,
            L0002686    , L0002687    , L0002688    , L0002689    , L0002690    , L0002691    , L0002692    , L0002693    ,
            L0002694    , L0002695    , L0002696    , L0002697    , L0002698    , L0002699    , L0002700    , L0002701    ,
            L0002702    , L0002703    , L0002704    , L0002705    , L0002706    , L0002707    , L0002708    , L0002709    ,
            L0002710    , L0002711    , L0002712    , L0002713    , L0002714    , L0002715    , L0002716    , L0002717    ,
            L0002718    , L0002719    , L0002720    , L0002721    , L0002722    , L0002723    , L0002724    , L0002725    ,
            L0002726    , L0002727    , L0002728    , L0002729    , L0002730    , L0002731    , L0002732    , L0002733    ,
            L0002734    , L0002735    , L0002736    , L0002737    , L0002738    , L0002739    , L0002740    , L0002741    ,
            L0002742    , L0002743    , L0002744    , L0002745    , L0002746    , L0002747    , L0002748    , L0002749    ,
            L0002750    , L0002751    , L0002752    , L0002753    , L0002754    , L0002755    , L0002756    , L0002757    ,
            L0002758    , L0002759    , L0002760    , L0002761    , L0002762    , L0002763    , L0002764    , L0002765    ,
            L0002766    , L0002767    , L0002768    , L0002769    , L0002770    , L0002771    , L0002772    , L0002773    ,
            L0002774    , L0002775    , L0002776    , L0002777    , L0002778    , L0002779    , L0002780    , L0002781    ,
            L0002782    , L0002783    , L0002784    , L0002785    , L0002786    , L0002787    , L0002788    , L0002789    ,
```



*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

| URBAN ID | URBAN POP | SOURCE IDs |
|---|---|---|

L0002790 , L0002791 , L0002792 , L0002793 , L0002794 , L0002795 , L0002796 , L0002797 ,
L0002798 , L0002799 , L0002800 , L0002801 , L0002802 , L0002803 , L0002804 , L0002805 ,
L0002806 , L0002807 , L0002808 , L0002809 , L0002810 , L0002811 , L0002812 , L0002813 ,
L0002814 , L0002815 , L0002816 , L0002817 , L0002818 , L0002819 , L0002820 , L0002821 ,
L0002822 , L0002823 , L0002824 , L0002825 , L0002826 , L0002827 , L0002828 , L0002829 ,
L0002830 , L0002831 , L0002832 , L0002833 , L0002834 , L0002835 , L0002836 , L0002837 ,
L0002838 , L0002839 , L0002840 , L0002841 , L0002842 , L0002843 , L0002844 , L0002845 ,
L0002846 , L0002847 , L0002848 , L0002849 , L0002850 , L0002851 , L0002852 , L0002853 ,
L0002854 , L0002855 , L0002856 , L0002857 , L0002858 , L0002859 , L0002860 , L0002861 ,
L0002862 , L0002863 , L0002864 , L0002865 , L0002866 , L0002867 , L0002868 , L0002869 ,
L0002870 , L0002871 , L0002872 , L0002873 , L0002874 , L0002875 , L0002876 , L0002877 ,
L0002878 , L0002879 , L0002880 , L0002881 , L0002882 , L0002883 , L0002884 , L0002885 ,
L0002886 , L0002887 , L0002888 , L0002889 , L0002890 , L0002891 , L0002892 , L0002893 ,
L0002894 , L0002895 , L0002896 , L0002897 , L0002898 , L0002899 , L0002900 , L0002901 ,
L0002902 , L0002903 , L0002904 , L0002905 , L0002906 , L0002907 , L0002908 , L0002909 ,
L0002910 , L0002911 , L0002912 , L0002913 , L0002914 , L0002915 , L0002916 , L0002917 ,
L0002918 , L0002919 , L0002920 , L0002921 , L0002922 , L0002923 , L0002924 , L0002925 ,
L0002926 , L0002927 , L0002928 , L0002929 , L0002930 , L0002931 , L0002932 , L0002933 ,
L0002934 , L0002935 , L0002936 , L0002937 , L0002938 , L0002939 , L0002940 , L0002941 ,
L0002942 , L0002943 , L0002944 , L0002945 , L0002946 , L0002947 , L0002948 , L0002949 ,



*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

| URBAN ID | URBAN POP | SOURCE IDs |
|---|---|---|

L0002950 , L0002951 , L0002952 , L0002953 , L0002954 , L0002955 , L0002956 , L0002957 ,
L0002958 , L0002959 , L0002960 , L0002961 , L0002962 , L0002963 , L0002964 , L0002965 ,
L0002966 , L0002967 , L0002968 , L0002969 , L0002970 , L0002971 , L0002972 , L0002973 ,
L0002974 , L0002975 , L0002976 , L0002977 , L0002978 , L0002979 , L0002980 , L0002981 ,
L0002982 , L0002983 , L0002984 , L0002985 , L0002986 , L0002987 , L0002988 , L0002989 ,
L0002990 , L0002991 , L0002992 , L0002993 , L0002994 , L0002995 , L0002996 , L0002997 ,
L0002998 , L0002999 , L0003000 , L0003001 , L0003002 , L0003003 , L0003004 , L0003005 ,
L0003006 , L0003007 , L0003008 , L0003009 , L0003010 , L0003011 , L0003012 , L0003013 ,
L0003014 , L0003015 , L0003016 , L0003017 , L0003018 , L0003019 , L0003020 , L0003021 ,
L0003022 , L0003023 , L0003024 , L0003025 , L0003026 , L0003027 , L0003028 , L0003029 ,
L0003030 , L0003031 , L0003032 , L0003033 , L0003034 , L0003035 , L0003036 , L0003037 ,
L0003038 , L0003039 , L0003040 , L0003041 , L0003042 , L0003043 , L0003044 , L0003045 ,
L0003046 , L0003047 , L0003048 , L0003049 , L0003050 , L0003051 , L0003052 , L0003053 ,
L0003054 , L0003055 , L0003056 , L0003057 , L0003058 , L0003059 , L0003060 , L0003061 ,
L0003062 , L0003063 , L0003064 , L0003065 , L0003066 , L0003067 , L0003068 , L0003069 ,
L0003070 , L0003071 , L0003072 , L0003073 , L0003074 , L0003075 , L0003076 , L0003077 ,
L0003078 , L0003079 , L0003080 , L0003081 , L0003082 , L0003083 , L0003084 , L0003085 ,
L0003086 , L0003087 , L0003088 , L0003089 , L0003090 , L0003091 , L0003092 , L0003093 ,
L0003094 , L0003095 , L0003096 , L0003097 , L0003098 , L0003099 , L0003100 , L0003101 ,
L0003102 , L0003103 , L0003104 , L0003105 , L0003106 , L0003107 , L0003108 , L0003109 ,



*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

| URBAN ID | URBAN POP | SOURCE IDs |
|---|---|---|

L0003110 , L0003111 , L0003112 , L0003113 , L0003114 , L0003115 , L0003116 , L0003117 ,
L0003118 , L0003119 , L0003120 , L0003121 , L0003122 , L0003123 , L0003124 , L0003125 ,
L0003126 , L0003127 , L0003128 , L0003129 , L0003130 , L0003131 , L0003132 , L0003133 ,
L0003134 , L0003135 , L0003136 , L0003137 , L0003138 , L0003139 , L0003140 , L0003141 ,
L0003142 , L0003143 , L0003144 , L0003145 , L0003146 , L0003147 , L0003148 , L0003149 ,
L0003150 , L0003151 , L0003152 , L0003153 , L0003154 , L0003155 , L0003156 , L0003157 ,
L0003158 , L0003159 , L0003160 , L0003161 , L0003162 , L0003163 , L0003164 , L0003165 ,
L0003166 , L0003167 , L0003168 , L0003169 , L0003170 , L0003171 , L0003172 , L0003173 ,
L0003174 , L0003175 , L0003176 , L0003177 , L0003178 , L0003179 , L0003180 , L0003181 ,
L0003182 , L0003183 , L0003184 , L0003185 , L0003186 , L0003187 , L0003188 , L0003189 ,
L0003190 , L0003191 , L0003192 , L0003193 , L0003194 , L0003195 , L0003196 , L0003197 ,
L0003198 , L0003199 , L0003200 , L0003201 , L0003202 , L0003203 , L0003204 , L0003205 ,
L0003206 , L0003207 , L0003208 , L0003209 , L0003210 , L0003211 , L0003212 , L0003213 ,
L0003214 , L0003215 , L0003216 , L0003217 , L0003218 , L0003219 , L0003220 , L0003221 ,
L0003222 , L0003223 , L0003224 , L0003225 , L0003226 , L0003227 , L0003228 , L0003229 ,
L0003230 , L0003231 , L0003232 , L0003233 , L0003234 , L0003235 , L0003236 , L0003237 ,
L0003238 , L0003239 , L0003240 , L0003241 , L0003242 , L0003243 , L0003244 , L0003245 ,
L0003246 , L0003247 , L0003248 , L0003249 , L0003250 , L0003251 , L0003252 , L0003253 ,
L0003254 , L0003255 , L0003256 , L0003257 , L0003258 , L0003259 , L0003260 , L0003261 ,
L0003262 , L0003263 , L0003264 , L0003265 , L0003266 , L0003267 , L0003268 , L0003269 ,



*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID URBAN POP SOURCE IDs

--------  ---------                                  ----------

L0003270 , L0003271 , L0003272 , L0003273 , L0003274 , L0003275 , L0003276 , L0003277 ,
L0003278 , L0003279 , L0003280 , L0003281 , L0003282 , L0003283 , L0003284 , L0003285 ,
L0003286 , L0003287 , L0003288 , L0003289 , L0003290 , L0003291 , L0003292 , L0003293 ,
L0003294 , L0003295 , L0003296 , L0003297 , L0003298 , L0003299 , L0003300 , L0003301 ,
L0003302 , L0003303 , L0003304 , L0003305 , L0003306 , L0003307 , L0003308 , L0003309 ,
L0003310 , L0003311 , L0003312 , L0003313 , L0003314 , L0003315 , L0003316 , L0003317 ,
L0003318 , L0003319 , L0003320 , L0003321 , L0003322 , L0003323 , L0003324 , L0003325 ,
L0003326 , L0003327 , L0003328 , L0003329 , L0003330 , L0003331 , L0003332 , L0003333 ,
L0003334 , L0003335 , L0003336 , L0003337 , L0003338 , L0003339 , L0003340 , L0003341 ,
L0003342 , L0003343 , L0003344 , L0003345 , L0003346 , L0003347 , L0003348 , L0003349 ,
L0003350 , L0003351 , L0003352 , L0003353 , L0003354 , L0003355 , L0003356 , L0003357 ,
L0003358 , L0003359 , L0003360 , L0003361 , L0003362 , L0003363 , L0003364 , L0003365 ,
L0003366 , L0003367 , L0003368 , L0003369 , L0003370 , L0003371 , L0003372 , L0003373 ,



*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: STCK1

| IFV | BH | BW | BL | XADJ | YADJ | IFV | BH | BW | BL | XADJ | YADJ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 11.0, | 264.0, | 144.2, | -115.4, | -95.0, | 2 | 11.0, | 270.4, | 176.8, | -116.8, | -100.6, |
| 3 | 11.0, | 268.6, | 205.8, | -114.6, | -103.1, | 4 | 11.0, | 258.7, | 231.8, | -109.0, | -102.5, |
| 5 | 11.0, | 240.8, | 250.8, | -100.0, | -98.8, | 6 | 11.0, | 215.7, | 262.1, | -88.0, | -92.1, |
| 7 | 11.0, | 184.0, | 265.5, | -73.4, | -82.6, | 8 | 11.0, | 146.7, | 260.9, | -56.5, | -70.5, |
| 9 | 11.0, | 107.2, | 249.6, | -38.2, | -56.8, | 10 | 11.0, | 144.2, | 264.0, | -37.0, | -43.3, |
| 11 | 11.0, | 176.8, | 270.4, | -34.6, | -28.4, | 12 | 11.0, | 205.8, | 268.6, | -31.2, | -11.7, |
| 13 | 11.0, | 231.8, | 258.7, | -26.8, | 6.9, | 14 | 11.0, | 250.8, | 240.8, | -21.6, | 25.4, |
| 15 | 11.0, | 262.1, | 215.7, | -15.8, | 43.0, | 16 | 11.0, | 265.5, | 184.0, | -9.4, | 59.4, |
| 17 | 11.0, | 260.9, | 146.7, | -2.8, | 73.9, | 18 | 11.0, | 249.6, | 107.2, | 3.2, | 86.6, |
| 19 | 11.0, | 264.0, | 144.2, | -28.9, | 95.0, | 20 | 11.0, | 270.4, | 176.8, | -60.0, | 100.6, |
| 21 | 11.0, | 268.6, | 205.8, | -91.1, | 103.1, | 22 | 11.0, | 258.7, | 231.8, | -122.8, | 102.5, |
| 23 | 11.0, | 240.8, | 250.8, | -150.7, | 98.8, | 24 | 11.0, | 215.7, | 262.1, | -174.1, | 92.1, |

```
  25   11.0,  184.0,  265.5, -192.2,   82.6,     26   11.0,  146.7,  260.9, -204.4,   70.5,
  27   11.0,  107.2,  249.6, -211.4,   56.8,     28   11.0,  144.2,  264.0, -227.1,   43.3,
  29   11.0,  176.8,  270.4, -235.8,   28.4,     30   11.0,  205.8,  268.6, -237.5,   11.7,
  31   11.0,  231.8,  258.7, -231.9,   -6.9,     32   11.0,  250.8,  240.8, -219.2,  -25.4,
  33   11.0,  262.1,  215.7, -199.9,  -43.0,     34   11.0,  265.5,  184.0, -174.6,  -59.4,
  35   11.0,  260.9,  146.7, -143.9,  -73.9,     36   11.0,  249.6,  107.2, -110.5,  -86.6,


SOURCE ID: STCK2
 IFV    BH      BW      BL     XADJ    YADJ      IFV    BH      BW      BL     XADJ    YADJ
   1   11.0,  264.0,  144.2, -121.7,  -64.8,      2   11.0,  270.4,  176.8, -128.2,  -72.0,
   3   11.0,  268.6,  205.8, -130.9,  -76.9,      4   11.0,  258.7,  231.8, -129.6,  -79.5,
   5   11.0,  240.8,  250.8, -124.3,  -79.7,      6   11.0,  215.7,  262.1, -115.3,  -77.5,
   7   11.0,  184.0,  265.5, -102.7,  -72.9,      8   11.0,  146.7,  260.9,  -87.1,  -66.1,
   9   11.0,  107.2,  249.6,  -69.1,  -57.8,     10   11.0,  144.2,  264.0,  -67.2,  -49.6,
  11   11.0,  176.8,  270.4,  -63.3,  -39.8,     12   11.0,  205.8,  268.6,  -57.4,  -28.0,
  13   11.0,  231.8,  258.7,  -49.8,  -13.7,     14   11.0,  250.8,  240.8,  -40.7,    1.1,
  15   11.0,  262.1,  215.7,  -30.4,   15.8,     16   11.0,  265.5,  184.0,  -19.1,   30.0,
  17   11.0,  260.9,  146.7,   -7.2,   43.4,     18   11.0,  249.6,  107.2,    4.2,   55.7,
  19   11.0,  264.0,  144.2,  -22.5,   64.8,     20   11.0,  270.4,  176.8,  -48.6,   72.0,
  21   11.0,  268.6,  205.8,  -74.9,   76.9,     22   11.0,  258.7,  231.8, -102.2,   79.5,
  23   11.0,  240.8,  250.8, -126.5,   79.7,     24   11.0,  215.7,  262.1, -146.9,   77.5,
  25   11.0,  184.0,  265.5, -162.8,   72.9,     26   11.0,  146.7,  260.9, -173.8,   66.1,
  27   11.0,  107.2,  249.6, -180.5,   57.8,     28   11.0,  144.2,  264.0, -196.8,   49.6,
  29   11.0,  176.8,  270.4, -207.2,   39.8,     30   11.0,  205.8,  268.6, -211.2,   28.0,
  31   11.0,  231.8,  258.7, -208.8,   13.7,     32   11.0,  250.8,  240.8, -200.1,   -1.1,
  33   11.0,  262.1,  215.7, -185.3,  -15.8,     34   11.0,  265.5,  184.0, -164.9,  -30.0,
  35   11.0,  260.9,  146.7, -139.5,  -43.4,     36   11.0,  249.6,  107.2, -111.4,  -55.7,


SOURCE ID: STCK3
 IFV    BH      BW      BL     XADJ    YADJ      IFV    BH      BW      BL     XADJ    YADJ
   1   11.0,  264.0,  144.2, -126.6,  -38.6,      2   11.0,  270.4,  176.8, -137.7,  -47.0,
   3   11.0,  268.6,  205.8, -144.5,  -54.0,      4   11.0,  258.7,  231.8, -146.9,  -59.3,
   5   11.0,  240.8,  250.8, -144.9,  -62.8,      6   11.0,  215.7,  262.1, -138.5,  -64.5,
   7   11.0,  184.0,  265.5, -127.9,  -64.1,      8   11.0,  146.7,  260.9, -113.4,  -61.8,
   9   11.0,  107.2,  249.6,  -95.7,  -58.1,     10   11.0,  144.2,  264.0,  -93.4,  -54.5,
  11   11.0,  176.8,  270.4,  -88.2,  -49.2,     12   11.0,  205.8,  268.6,  -80.3,  -41.6,
  13   11.0,  231.8,  258.7,  -70.0,  -31.1,     14   11.0,  250.8,  240.8,  -57.6,  -19.6,
  15   11.0,  262.1,  215.7,  -43.4,   -7.4,     16   11.0,  265.5,  184.0,  -27.9,    4.9,
  17   11.0,  260.9,  146.7,  -11.5,   17.1,     18   11.0,  249.6,  107.2,    4.5,   29.1,
  19   11.0,  264.0,  144.2,  -17.6,   38.6,     20   11.0,  270.4,  176.8,  -39.1,   47.0,
  21   11.0,  268.6,  205.8,  -61.3,   54.0,     22   11.0,  258.7,  231.8,  -84.8,   59.3,
  23   11.0,  240.8,  250.8, -105.8,   62.8,     24   11.0,  215.7,  262.1, -123.6,   64.5,
  25   11.0,  184.0,  265.5, -137.7,   64.1,     26   11.0,  146.7,  260.9, -147.5,   61.8,
  27   11.0,  107.2,  249.6, -153.8,   58.1,     28   11.0,  144.2,  264.0, -170.6,   54.5,
  29   11.0,  176.8,  270.4, -182.2,   49.2,     30   11.0,  205.8,  268.6, -188.3,   41.6,
  31   11.0,  231.8,  258.7, -188.6,   31.1,     32   11.0,  250.8,  240.8, -183.2,   19.6,
  33   11.0,  262.1,  215.7, -172.3,    7.4,     34   11.0,  265.5,  184.0, -156.1,   -4.9,
  35   11.0,  260.9,  146.7, -135.2,  -17.1,     36   11.0,  249.6,  107.2, -111.8,  -29.1,
```

SOURCE ID: STCK4

| IFV | BH | BW | BL | XADJ | YADJ | IFV | BH | BW | BL | XADJ | YADJ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 11.0, | 264.0, | 144.2, | -132.0, | -8.2, | 2 | 11.0, | 270.4, | 176.8, | -148.2, | -18.0, |
| 3 | 11.0, | 268.6, | 205.8, | -159.9, | -27.2, | 4 | 11.0, | 258.7, | 231.8, | -166.8, | -35.7, |
| 5 | 11.0, | 240.8, | 250.8, | -168.6, | -43.0, | 6 | 11.0, | 215.7, | 262.1, | -165.2, | -49.0, |
| 7 | 11.0, | 184.0, | 265.5, | -156.9, | -53.5, | 8 | 11.0, | 146.7, | 260.9, | -143.8, | -56.5, |
| 9 | 11.0, | 107.2, | 249.6, | -126.6, | -58.1, | 10 | 11.0, | 144.2, | 264.0, | -123.8, | -59.9, |
| 11 | 11.0, | 176.8, | 270.4, | -117.2, | -59.8, | 12 | 11.0, | 205.8, | 268.6, | -107.0, | -57.0, |
| 13 | 11.0, | 231.8, | 258.7, | -93.7, | -50.9, | 14 | 11.0, | 250.8, | 240.8, | -77.4, | -43.2, |
| 15 | 11.0, | 262.1, | 215.7, | -58.8, | -34.2, | 16 | 11.0, | 265.5, | 184.0, | -38.4, | -24.1, |
| 17 | 11.0, | 260.9, | 146.7, | -16.9, | -13.3, | 18 | 11.0, | 249.6, | 107.2, | 4.5, | -1.8, |
| 19 | 11.0, | 264.0, | 144.2, | -12.2, | 8.2, | 20 | 11.0, | 270.4, | 176.8, | -28.6, | 18.0, |
| 21 | 11.0, | 268.6, | 205.8, | -45.8, | 27.2, | 22 | 11.0, | 258.7, | 231.8, | -65.0, | 35.7, |
| 23 | 11.0, | 240.8, | 250.8, | -82.2, | 43.0, | 24 | 11.0, | 215.7, | 262.1, | -96.9, | 49.0, |
| 25 | 11.0, | 184.0, | 265.5, | -108.6, | 53.5, | 26 | 11.0, | 146.7, | 260.9, | -117.1, | 56.5, |
| 27 | 11.0, | 107.2, | 249.6, | -123.0, | 58.1, | 28 | 11.0, | 144.2, | 264.0, | -140.2, | 59.9, |
| 29 | 11.0, | 176.8, | 270.4, | -153.2, | 59.8, | 30 | 11.0, | 205.8, | 268.6, | -161.6, | 57.0, |
| 31 | 11.0, | 231.8, | 258.7, | -165.0, | 50.9, | 32 | 11.0, | 250.8, | 240.8, | -163.4, | 43.2, |
| 33 | 11.0, | 262.1, | 215.7, | -156.9, | 34.2, | 34 | 11.0, | 265.5, | 184.0, | -145.6, | 24.1, |
| 35 | 11.0, | 260.9, | 146.7, | -129.8, | 13.3, | 36 | 11.0, | 249.6, | 107.2, | -111.8, | 1.8, |



*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: STCK5

| IFV | BH | BW | BL | XADJ | YADJ | IFV | BH | BW | BL | XADJ | YADJ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 11.0, | 264.0, | 144.2, | -137.0, | 19.9, | 2 | 11.0, | 270.4, | 176.8, | -158.0, | 8.9, |
| 3 | 11.0, | 268.6, | 205.8, | -174.2, | -2.5, | 4 | 11.0, | 258.7, | 231.8, | -185.2, | -13.8, |
| 5 | 11.0, | 240.8, | 250.8, | -190.5, | -24.6, | 6 | 11.0, | 215.7, | 262.1, | -190.0, | -34.7, |
| 7 | 11.0, | 184.0, | 265.5, | -183.8, | -43.8, | 8 | 11.0, | 146.7, | 260.9, | -171.9, | -51.5, |
| 9 | 11.0, | 107.2, | 249.6, | -155.2, | -58.1, | 10 | 11.0, | 144.2, | 264.0, | -151.9, | -64.8, |
| 11 | 11.0, | 176.8, | 270.4, | -144.1, | -69.6, | 12 | 11.0, | 205.8, | 268.6, | -131.8, | -71.3, |
| 13 | 11.0, | 231.8, | 258.7, | -115.6, | -69.3, | 14 | 11.0, | 250.8, | 240.8, | -95.8, | -65.1, |
| 15 | 11.0, | 262.1, | 215.7, | -73.1, | -58.9, | 16 | 11.0, | 265.5, | 184.0, | -48.2, | -51.0, |
| 17 | 11.0, | 260.9, | 146.7, | -21.9, | -41.5, | 18 | 11.0, | 249.6, | 107.2, | 4.5, | -30.4, |
| 19 | 11.0, | 264.0, | 144.2, | -7.2, | -19.9, | 20 | 11.0, | 270.4, | 176.8, | -18.8, | -8.9, |
| 21 | 11.0, | 268.6, | 205.8, | -31.5, | 2.5, | 22 | 11.0, | 258.7, | 231.8, | -46.6, | 13.8, |
| 23 | 11.0, | 240.8, | 250.8, | -60.3, | 24.6, | 24 | 11.0, | 215.7, | 262.1, | -72.1, | 34.7, |
| 25 | 11.0, | 184.0, | 265.5, | -81.8, | 43.8, | 26 | 11.0, | 146.7, | 260.9, | -88.9, | 51.5, |
| 27 | 11.0, | 107.2, | 249.6, | -94.4, | 58.1, | 28 | 11.0, | 144.2, | 264.0, | -112.1, | 64.8, |
| 29 | 11.0, | 176.8, | 270.4, | -126.3, | 69.6, | 30 | 11.0, | 205.8, | 268.6, | -136.8, | 71.3, |
| 31 | 11.0, | 231.8, | 258.7, | -143.1, | 69.3, | 32 | 11.0, | 250.8, | 240.8, | -145.0, | 65.1, |
| 33 | 11.0, | 262.1, | 215.7, | -142.6, | 58.9, | 34 | 11.0, | 265.5, | 184.0, | -135.8, | 51.0, |
| 35 | 11.0, | 260.9, | 146.7, | -124.8, | 41.5, | 36 | 11.0, | 249.6, | 107.2, | -111.8, | 30.4, |

SOURCE ID: STCK6

| IFV | BH | BW | BL | XADJ | YADJ | IFV | BH | BW | BL | XADJ | YADJ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 11.0, | 264.0, | 144.2, | -142.4, | 48.7, | 2 | 11.0, | 270.4, | 176.8, | -168.3, | 36.2, |
| 3 | 11.0, | 268.6, | 205.8, | -189.1, | 22.7, | 4 | 11.0, | 258.7, | 231.8, | -204.2, | 8.4, |
| 5 | 11.0, | 240.8, | 250.8, | -213.1, | -6.1, | 6 | 11.0, | 215.7, | 262.1, | -215.5, | -20.4, |
| 7 | 11.0, | 184.0, | 265.5, | -211.4, | -34.1, | 8 | 11.0, | 146.7, | 260.9, | -200.8, | -46.7, |
| 9 | 11.0, | 107.2, | 249.6, | -184.5, | -58.5, | 10 | 11.0, | 144.2, | 264.0, | -180.7, | -70.2, |
| 11 | 11.0, | 176.8, | 270.4, | -171.5, | -79.9, | 12 | 11.0, | 205.8, | 268.6, | -157.0, | -86.2, |
| 13 | 11.0, | 231.8, | 258.7, | -137.8, | -88.3, | 14 | 11.0, | 250.8, | 240.8, | -114.4, | -87.7, |
| 15 | 11.0, | 262.1, | 215.7, | -87.5, | -84.4, | 16 | 11.0, | 265.5, | 184.0, | -57.9, | -78.6, |
| 17 | 11.0, | 260.9, | 146.7, | -26.6, | -70.4, | 18 | 11.0, | 249.6, | 107.2, | 4.8, | -59.7, |
| 19 | 11.0, | 264.0, | 144.2, | -1.9, | -48.7, | 20 | 11.0, | 270.4, | 176.8, | -8.5, | -36.2, |
| 21 | 11.0, | 268.6, | 205.8, | -16.6, | -22.7, | 22 | 11.0, | 258.7, | 231.8, | -27.6, | -8.4, |
| 23 | 11.0, | 240.8, | 250.8, | -37.7, | 6.1, | 24 | 11.0, | 215.7, | 262.1, | -46.6, | 20.4, |
| 25 | 11.0, | 184.0, | 265.5, | -54.2, | 34.1, | 26 | 11.0, | 146.7, | 260.9, | -60.1, | 46.7, |
| 27 | 11.0, | 107.2, | 249.6, | -65.1, | 58.5, | 28 | 11.0, | 144.2, | 264.0, | -83.3, | 70.2, |
| 29 | 11.0, | 176.8, | 270.4, | -99.0, | 79.9, | 30 | 11.0, | 205.8, | 268.6, | -111.6, | 86.2, |
| 31 | 11.0, | 231.8, | 258.7, | -120.9, | 88.3, | 32 | 11.0, | 250.8, | 240.8, | -126.5, | 87.7, |
| 33 | 11.0, | 262.1, | 215.7, | -128.2, | 84.4, | 34 | 11.0, | 265.5, | 184.0, | -126.1, | 78.6, |
| 35 | 11.0, | 260.9, | 146.7, | -120.1, | 70.4, | 36 | 11.0, | 249.6, | 107.2, | -112.1, | 59.7, |



*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** GRIDDED RECEPTOR NETWORK SUMMARY ***

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

*** X-COORDINATES OF GRID ***
(METERS)

376999.0, 377086.3, 377173.6, 377260.9, 377348.2, 377435.5, 377522.8, 377610.1, 377697.4, 377784.7,
377872.0, 377959.3, 378046.6, 378133.9, 378221.2, 378308.5, 378395.8, 378483.1, 378570.4, 378657.7,
378745.0,

*** Y-COORDINATES OF GRID ***
(METERS)

3746986.6, 3747043.0, 3747099.4, 3747155.8, 3747212.2, 3747268.5, 3747324.9, 3747381.3, 3747437.7, 3747494.1,
3747550.4, 3747606.8, 3747663.2, 3747719.6, 3747776.0, 3747832.3, 3747888.7, 3747945.1, 3748001.5, 3748057.9,
3748114.2,



*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

* ELEVATION HEIGHTS IN METERS *

| Y-COORD (METERS) | X-COORD (METERS) 376998.97 | 377086.27 | 377173.57 | 377260.87 | 377348.17 | 377435.47 | 377522.77 | 377610.07 | 377697.37 |
|---|---|---|---|---|---|---|---|---|---|
| 3748114.24 | 18.30 | 18.50 | 19.10 | 19.90 | 20.30 | 20.10 | 19.80 | 19.60 | 19.40 |
| 3748057.86 | 25.50 | 18.60 | 18.90 | 19.10 | 19.50 | 19.60 | 19.70 | 19.70 | 19.60 |
| 3748001.48 | 19.20 | 25.90 | 25.00 | 19.80 | 20.00 | 20.80 | 20.10 | 19.90 | 20.10 |
| 3747945.10 | 18.10 | 19.60 | 25.20 | 26.60 | 23.40 | 22.60 | 20.00 | 20.10 | 20.10 |
| 3747888.72 | 18.30 | 18.60 | 21.80 | 20.80 | 23.70 | 25.60 | 21.70 | 19.80 | 19.80 |
| 3747832.34 | 18.40 | 18.70 | 20.00 | 20.80 | 20.80 | 20.60 | 23.60 | 23.50 | 19.90 |
| 3747775.96 | 18.40 | 18.70 | 19.50 | 21.00 | 20.70 | 19.90 | 19.90 | 19.80 | 22.80 |
| 3747719.58 | 18.60 | 19.10 | 19.80 | 20.70 | 20.80 | 20.50 | 20.30 | 19.90 | 19.20 |
| 3747663.20 | 18.50 | 18.80 | 19.20 | 20.20 | 20.50 | 20.70 | 19.80 | 19.70 | 19.20 |
| 3747606.82 | 18.50 | 18.70 | 19.10 | 19.40 | 20.00 | 20.40 | 19.70 | 19.60 | 19.30 |
| 3747550.44 | 18.40 | 18.50 | 18.60 | 18.50 | 19.80 | 20.20 | 19.70 | 19.70 | 19.60 |
| 3747494.06 | 18.40 | 18.40 | 18.30 | 18.20 | 19.90 | 20.20 | 19.60 | 19.80 | 19.80 |
| 3747437.68 | 18.70 | 18.60 | 18.40 | 18.50 | 19.20 | 19.90 | 19.90 | 20.00 | 19.80 |
| 3747381.30 | 18.90 | 18.50 | 18.20 | 18.60 | 19.00 | 19.60 | 20.40 | 20.20 | 19.60 |
| 3747324.92 | 19.30 | 18.60 | 18.00 | 18.30 | 18.90 | 19.30 | 20.40 | 19.70 | 19.60 |
| 3747268.54 | 18.90 | 18.50 | 18.00 | 17.80 | 18.50 | 19.30 | 19.60 | 19.50 | 19.20 |
| 3747212.16 | 19.20 | 19.10 | 18.40 | 18.20 | 19.50 | 20.00 | 20.00 | 19.20 | 18.50 |
| 3747155.78 | 19.50 | 19.50 | 19.60 | 19.70 | 22.00 | 21.80 | 21.10 | 21.90 | 19.80 |
| 3747099.40 | 18.90 | 18.80 | 19.90 | 20.20 | 21.90 | 21.80 | 21.40 | 21.90 | 21.30 |
| 3747043.02 | 18.60 | 18.40 | 20.30 | 20.10 | 20.70 | 20.70 | 20.90 | 20.80 | 21.30 |
| 3746986.64 | 19.40 | 18.30 | 20.10 | 19.90 | 13.80 | 13.50 | 20.90 | 20.60 | 20.70 |



*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

* ELEVATION HEIGHTS IN METERS *

| Y-COORD (METERS) | X-COORD (METERS) 377784.67 | 377871.97 | 377959.27 | 378046.57 | 378133.87 | 378221.17 | 378308.47 | 378395.77 | 378483.07 |
|---|---|---|---|---|---|---|---|---|---|
| 3748114.24 | 19.20 | 19.10 | 18.90 | 18.80 | 18.70 | 18.70 | 18.20 | 17.60 | 17.60 |
| 3748057.86 | 19.60 | 19.50 | 19.40 | 19.20 | 18.90 | 18.60 | 18.30 | 18.00 | 17.80 |
| 3748001.48 | 19.90 | 19.50 | 19.50 | 19.80 | 19.20 | 18.80 | 18.70 | 18.30 | 18.00 |
| 3747945.10 | 19.60 | 19.20 | 19.40 | 20.10 | 19.10 | 19.00 | 18.90 | 18.50 | 18.10 |
| 3747888.72 | 19.20 | 19.10 | 19.20 | 20.10 | 19.60 | 19.40 | 19.00 | 18.60 | 18.30 |
| 3747832.34 | 19.10 | 19.00 | 19.60 | 19.90 | 19.90 | 19.30 | 19.30 | 19.20 | 18.90 |
| 3747775.96 | 22.70 | 19.10 | 19.40 | 19.60 | 20.10 | 19.50 | 19.20 | 18.80 | 18.60 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 3747719.58 | 19.90 | 24.00 | 23.10 | 20.00 | 20.10 | 19.50 | 19.30 | 19.00 | 18.60 |
| 3747663.20 | 19.10 | 19.40 | 22.60 | 25.80 | 21.30 | 19.40 | 19.20 | 18.80 | 18.50 |
| 3747606.82 | 19.60 | 19.30 | 19.50 | 20.30 | 23.70 | 25.00 | 19.90 | 18.80 | 18.80 |
| 3747550.44 | 19.70 | 19.30 | 19.20 | 19.50 | 19.90 | 19.90 | 24.50 | 22.10 | 18.80 |
| 3747494.06 | 19.50 | 19.30 | 19.10 | 19.50 | 20.00 | 19.20 | 20.00 | 20.60 | 22.40 |
| 3747437.68 | 19.50 | 18.90 | 18.60 | 19.30 | 19.90 | 20.00 | 20.10 | 20.00 | 20.10 |
| 3747381.30 | 19.40 | 19.00 | 18.80 | 19.10 | 20.10 | 20.10 | 20.10 | 19.70 | 19.90 |
| 3747324.92 | 19.40 | 19.30 | 19.50 | 19.70 | 20.00 | 20.10 | 19.90 | 19.60 | 19.70 |
| 3747268.54 | 19.10 | 18.90 | 19.60 | 19.70 | 20.00 | 20.10 | 19.80 | 19.40 | 19.60 |
| 3747212.16 | 18.10 | 18.70 | 19.30 | 19.70 | 20.20 | 20.10 | 19.80 | 19.50 | 19.10 |
| 3747155.78 | 17.40 | 22.30 | 22.60 | 23.40 | 20.30 | 20.40 | 20.40 | 20.90 | 20.10 |
| 3747099.40 | 17.60 | 20.00 | 20.30 | 23.20 | 20.10 | 20.50 | 20.60 | 20.10 | 20.00 |
| 3747043.02 | 17.70 | 17.40 | 18.60 | 23.30 | 19.60 | 20.00 | 19.80 | 20.30 | 20.40 |
| 3746986.64 | 17.60 | 16.20 | 19.00 | 22.70 | 19.60 | 19.70 | 20.00 | 19.90 | 20.50 |



*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

* ELEVATION HEIGHTS IN METERS *

| Y-COORD (METERS) | X-COORD (METERS) 378570.37 | 378657.67 | 378744.97 |
|---|---|---|---|
| 3748114.24 | 16.40 | 16.00 | 16.70 |
| 3748057.86 | 17.10 | 17.30 | 17.10 |
| 3748001.48 | 17.70 | 17.20 | 17.20 |
| 3747945.10 | 17.60 | 17.40 | 17.40 |
| 3747888.72 | 18.10 | 17.40 | 17.50 |
| 3747832.34 | 17.90 | 17.50 | 17.40 |
| 3747775.96 | 17.90 | 17.60 | 17.30 |
| 3747719.58 | 18.00 | 17.70 | 17.50 |
| 3747663.20 | 18.10 | 17.70 | 17.80 |
| 3747606.82 | 18.20 | 17.80 | 17.90 |
| 3747550.44 | 18.20 | 18.00 | 17.90 |
| 3747494.06 | 19.90 | 18.50 | 18.30 |
| 3747437.68 | 21.40 | 22.40 | 20.70 |
| 3747381.30 | 20.10 | 21.00 | 22.10 |
| 3747324.92 | 19.80 | 19.20 | 18.50 |
| 3747268.54 | 19.20 | 19.00 | 18.70 |
| 3747212.16 | 18.80 | 18.60 | 18.40 |
| 3747155.78 | 19.20 | 19.40 | 19.10 |
| 3747099.40 | 18.90 | 19.30 | 19.00 |
| 3747043.02 | 19.20 | 19.20 | 18.60 |
| 3746986.64 | 20.00 | 20.00 | 18.90 |

*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

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

* HILL HEIGHT SCALES IN METERS *

| Y-COORD (METERS) | X-COORD (METERS) 376998.97 | 377086.27 | 377173.57 | 377260.87 | 377348.17 | 377435.47 | 377522.77 | 377610.07 | 377697.37 |
|---|---|---|---|---|---|---|---|---|---|
| 3748114.24 | 25.50 | 18.50 | 19.10 | 19.90 | 20.30 | 20.10 | 19.80 | 19.60 | 19.40 |
| 3748057.86 | 25.50 | 26.00 | 26.20 | 19.10 | 19.50 | 19.60 | 19.70 | 19.70 | 19.60 |
| 3748001.48 | 25.70 | 25.90 | 26.20 | 26.60 | 20.00 | 20.80 | 20.10 | 19.90 | 20.10 |
| 3747945.10 | 25.50 | 26.20 | 25.20 | 26.60 | 26.50 | 22.60 | 20.00 | 20.10 | 20.10 |
| 3747888.72 | 18.30 | 24.40 | 21.80 | 26.60 | 26.50 | 25.60 | 24.80 | 19.80 | 19.80 |
| 3747832.34 | 18.40 | 18.70 | 20.00 | 20.80 | 20.80 | 25.50 | 23.60 | 23.50 | 19.90 |
| 3747775.96 | 18.40 | 18.70 | 19.50 | 21.00 | 20.70 | 19.90 | 19.90 | 23.50 | 22.80 |
| 3747719.58 | 18.60 | 19.10 | 19.80 | 20.70 | 20.80 | 20.50 | 20.30 | 19.90 | 19.20 |
| 3747663.20 | 18.50 | 18.80 | 19.20 | 20.20 | 20.50 | 20.70 | 19.80 | 19.70 | 19.20 |
| 3747606.82 | 18.50 | 18.70 | 19.10 | 19.40 | 20.00 | 20.40 | 19.70 | 19.60 | 19.30 |
| 3747550.44 | 18.40 | 18.50 | 18.60 | 18.50 | 19.80 | 20.20 | 19.70 | 19.70 | 19.60 |
| 3747494.06 | 18.40 | 18.40 | 18.30 | 18.20 | 19.90 | 20.20 | 19.60 | 19.80 | 19.80 |
| 3747437.68 | 18.70 | 18.60 | 18.40 | 18.50 | 19.20 | 19.90 | 19.90 | 20.00 | 19.80 |
| 3747381.30 | 18.90 | 18.50 | 18.20 | 18.60 | 19.00 | 19.60 | 20.40 | 20.20 | 19.60 |
| 3747324.92 | 19.30 | 18.60 | 18.00 | 18.30 | 18.90 | 19.30 | 20.40 | 19.70 | 19.60 |
| 3747268.54 | 18.90 | 18.50 | 18.00 | 17.80 | 18.50 | 19.30 | 19.60 | 19.50 | 19.20 |
| 3747212.16 | 19.20 | 19.10 | 18.40 | 18.20 | 19.50 | 20.00 | 20.00 | 19.20 | 18.50 |
| 3747155.78 | 19.50 | 19.50 | 19.60 | 19.70 | 22.00 | 21.80 | 21.10 | 21.90 | 19.80 |
| 3747099.40 | 18.90 | 18.80 | 19.90 | 20.20 | 21.90 | 21.80 | 21.40 | 21.90 | 21.30 |
| 3747043.02 | 18.60 | 18.40 | 20.30 | 20.10 | 20.70 | 20.70 | 20.90 | 20.80 | 21.30 |
| 3746986.64 | 19.40 | 18.30 | 20.10 | 19.90 | 20.60 | 21.70 | 20.90 | 20.60 | 20.70 |



*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

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

* HILL HEIGHT SCALES IN METERS *

| Y-COORD (METERS) | X-COORD (METERS) 377784.67 | 377871.97 | 377959.27 | 378046.57 | 378133.87 | 378221.17 | 378308.47 | 378395.77 | 378483.07 |
|---|---|---|---|---|---|---|---|---|---|
| 3748114.24 | 19.20 | 19.10 | 18.90 | 18.80 | 18.70 | 18.70 | 18.20 | 17.60 | 17.60 |
| 3748057.86 | 19.60 | 19.50 | 19.40 | 19.20 | 18.90 | 18.60 | 18.30 | 18.00 | 17.80 |
| 3748001.48 | 19.90 | 19.50 | 19.50 | 19.80 | 19.20 | 18.80 | 18.70 | 18.30 | 18.00 |
| 3747945.10 | 19.60 | 19.20 | 19.40 | 20.10 | 19.10 | 19.00 | 18.90 | 18.50 | 18.10 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 3747888.72 | 19.20 | 19.10 | 19.20 | 20.10 | 19.60 | 19.40 | 19.00 | 18.60 | 18.30 |
| 3747832.34 | 19.10 | 19.00 | 19.60 | 19.90 | 19.90 | 19.30 | 19.30 | 19.20 | 18.90 |
| 3747775.96 | 23.10 | 24.00 | 19.40 | 19.60 | 20.10 | 19.50 | 19.20 | 18.80 | 18.60 |
| 3747719.58 | 23.40 | 24.00 | 24.90 | 26.00 | 20.10 | 19.50 | 19.30 | 19.00 | 18.60 |
| 3747663.20 | 19.10 | 24.50 | 25.30 | 25.80 | 24.70 | 25.90 | 19.20 | 18.80 | 18.50 |
| 3747606.82 | 19.60 | 19.30 | 19.50 | 26.20 | 26.20 | 25.00 | 25.10 | 18.80 | 18.80 |
| 3747550.44 | 19.70 | 19.30 | 19.20 | 19.50 | 25.50 | 25.80 | 24.50 | 22.10 | 22.20 |
| 3747494.06 | 19.50 | 19.30 | 19.10 | 19.50 | 20.00 | 19.20 | 20.00 | 23.90 | 22.40 |
| 3747437.68 | 19.50 | 18.90 | 18.60 | 19.30 | 19.90 | 20.00 | 20.10 | 20.00 | 20.10 |
| 3747381.30 | 19.40 | 19.00 | 18.80 | 19.10 | 20.10 | 20.10 | 20.10 | 19.70 | 19.90 |
| 3747324.92 | 19.40 | 19.30 | 19.50 | 19.70 | 20.00 | 20.10 | 19.90 | 19.60 | 19.70 |
| 3747268.54 | 19.10 | 18.90 | 19.60 | 19.70 | 20.00 | 20.10 | 19.80 | 19.40 | 19.60 |
| 3747212.16 | 18.10 | 24.50 | 19.30 | 22.80 | 20.20 | 20.10 | 19.80 | 19.50 | 19.10 |
| 3747155.78 | 24.30 | 24.50 | 22.60 | 23.40 | 20.30 | 20.40 | 20.40 | 20.90 | 20.10 |
| 3747099.40 | 24.30 | 24.30 | 20.30 | 23.20 | 20.10 | 20.50 | 20.60 | 20.10 | 20.00 |
| 3747043.02 | 24.30 | 17.40 | 18.60 | 23.30 | 19.60 | 20.00 | 19.80 | 20.30 | 20.40 |
| 3746986.64 | 22.90 | 21.40 | 19.00 | 22.70 | 19.60 | 19.70 | 20.00 | 19.90 | 20.50 |



*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

* HILL HEIGHT SCALES IN METERS *

| Y-COORD (METERS) | X-COORD (METERS) 378570.37 | 378657.67 | 378744.97 |
|---|---|---|---|
| 3748114.24 | 16.40 | 16.00 | 16.70 |
| 3748057.86 | 17.10 | 17.30 | 17.10 |
| 3748001.48 | 17.70 | 17.20 | 17.20 |
| 3747945.10 | 17.60 | 17.40 | 17.40 |
| 3747888.72 | 18.10 | 17.40 | 17.50 |
| 3747832.34 | 17.90 | 17.50 | 17.40 |
| 3747775.96 | 17.90 | 17.60 | 17.30 |
| 3747719.58 | 18.00 | 17.70 | 17.50 |
| 3747663.20 | 18.10 | 17.70 | 17.80 |
| 3747606.82 | 18.20 | 17.80 | 17.90 |
| 3747550.44 | 18.20 | 18.00 | 17.90 |
| 3747494.06 | 19.90 | 18.50 | 18.30 |
| 3747437.68 | 21.40 | 22.40 | 23.30 |
| 3747381.30 | 20.10 | 21.00 | 24.00 |
| 3747324.92 | 19.80 | 19.20 | 18.50 |
| 3747268.54 | 19.20 | 19.00 | 18.70 |
| 3747212.16 | 18.80 | 18.60 | 18.40 |
| 3747155.78 | 19.20 | 19.40 | 19.10 |
| 3747099.40 | 18.90 | 19.30 | 19.00 |
| 3747043.02 | 19.20 | 19.20 | 18.60 |

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

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| ( 377146.6, 3747291.4, | 18.2, | 18.2, | 0.0); | ( 377230.5, 3747442.5, | 18.1, | 18.1, | 0.0); |
| ( 377253.4, 3747498.1, | 18.2, | 18.2, | 0.0); | ( 377259.3, 3747543.7, | 18.5, | 18.5, | 0.0); |
| ( 377259.3, 3747621.9, | 19.6, | 19.6, | 0.0); | ( 377260.6, 3747704.7, | 20.6, | 20.6, | 0.0); |
| ( 378132.2, 3747267.4, | 20.0, | 20.0, | 0.0); | ( 378294.5, 3747265.7, | 19.8, | 19.8, | 0.0); |



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

| SOURCE ID | - - RECEPTOR LOCATION - - XR (METERS) | YR (METERS) | DISTANCE (METERS) |
|---|---|---|---|
| L0002726 | 377610.1 | 3747381.3 | -0.57 |
| L0002727 | 377610.1 | 3747381.3 | 0.97 |
| L0002741 | 377610.1 | 3747324.9 | -0.25 |
| L0002742 | 377610.1 | 3747324.9 | -0.14 |
| L0002756 | 377610.1 | 3747268.5 | 0.62 |
| L0002757 | 377610.1 | 3747268.5 | -0.84 |
| L0002885 | 377173.6 | 3747268.5 | 0.15 |
| L0002886 | 377173.6 | 3747268.5 | -0.75 |
| L0002938 | 377260.9 | 3747437.7 | 0.40 |



*** 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
```

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,



*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

Surface file: E:\New MET data\KHHR_V9_ADJU\KHHR_v9.SFC Met Version: 16216
Profile file: E:\New MET data\KHHR_V9_ADJU\KHHR_v9.PFL
Surface format: FREE
Profile format: FREE
Surface station no.: 3167 Upper air station no.: 3190
Name: UNKNOWN Name: UNKNOWN
Year: 2012 Year: 2012

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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12 | 01 | 01 | 1 | 01 | -999.0 | -9.000 | -9.000 | -9.000 | -999. | -999. | -99999.0 | 0.24 | 2.79 | 1.00 | 0.00 | 0. | 7.9 | 283.8 | 2.0 |
| 12 | 01 | 01 | 1 | 02 | -2.1 | 0.068 | -9.000 | -9.000 | -999. | 43. | 13.3 | 0.24 | 2.79 | 1.00 | 0.53 | 305. | 7.9 | 283.1 | 2.0 |
| 12 | 01 | 01 | 1 | 03 | -9.0 | 0.127 | -9.000 | -9.000 | -999. | 109. | 20.8 | 0.24 | 2.79 | 1.00 | 1.18 | 323. | 7.9 | 282.5 | 2.0 |
| 12 | 01 | 01 | 1 | 04 | -2.2 | 0.068 | -9.000 | -9.000 | -999. | 43. | 13.3 | 0.24 | 2.79 | 1.00 | 0.53 | 296. | 7.9 | 282.0 | 2.0 |
| 12 | 01 | 01 | 1 | 05 | -999.0 | -9.000 | -9.000 | -9.000 | -999. | -999. | -99999.0 | 0.24 | 2.79 | 1.00 | 0.00 | 0. | 7.9 | 281.4 | 2.0 |
| 12 | 01 | 01 | 1 | 06 | -6.0 | 0.103 | -9.000 | -9.000 | -999. | 80. | 16.7 | 0.24 | 2.79 | 1.00 | 0.97 | 321. | 7.9 | 281.4 | 2.0 |
| 12 | 01 | 01 | 1 | 07 | -4.3 | 0.088 | -9.000 | -9.000 | -999. | 63. | 14.4 | 0.24 | 2.79 | 1.00 | 0.82 | 313. | 7.9 | 280.4 | 2.0 |
| 12 | 01 | 01 | 1 | 08 | 15.7 | -9.000 | -9.000 | -9.000 | -999. | -999. | -99999.0 | 0.24 | 2.79 | 0.55 | 0.00 | 0. | 7.9 | 281.4 | 2.0 |
| 12 | 01 | 01 | 1 | 09 | 35.7 | 0.115 | 0.353 | 0.013 | 45. | 93. | -3.8 | 0.24 | 2.79 | 0.32 | 0.63 | 179. | 7.9 | 285.4 | 2.0 |
| 12 | 01 | 01 | 1 | 10 | 109.0 | 0.141 | 0.727 | 0.009 | 128. | 127. | -2.3 | 0.24 | 2.79 | 0.24 | 0.70 | 170. | 7.9 | 289.2 | 2.0 |
| 12 | 01 | 01 | 1 | 11 | 164.4 | 0.149 | 1.186 | 0.005 | 370. | 138. | -1.8 | 0.24 | 2.79 | 0.21 | 0.70 | 222. | 7.9 | 297.0 | 2.0 |
| 12 | 01 | 01 | 1 | 12 | 191.7 | 0.163 | 1.525 | 0.005 | 672. | 158. | -2.1 | 0.24 | 2.79 | 0.20 | 0.79 | 12. | 7.9 | 299.9 | 2.0 |
| 12 | 01 | 01 | 1 | 13 | 191.3 | 0.170 | 1.819 | 0.005 | 1144. | 168. | -2.3 | 0.24 | 2.79 | 0.20 | 0.84 | 260. | 7.9 | 300.9 | 2.0 |
| 12 | 01 | 01 | 1 | 14 | 161.6 | 0.344 | 1.852 | 0.005 | 1428. | 483. | -22.7 | 0.24 | 2.79 | 0.21 | 2.49 | 260. | 7.9 | 298.8 | 2.0 |
| 12 | 01 | 01 | 1 | 15 | 105.0 | 0.367 | 1.638 | 0.005 | 1521. | 534. | -42.8 | 0.24 | 2.79 | 0.24 | 2.84 | 292. | 7.9 | 293.8 | 2.0 |
| 12 | 01 | 01 | 1 | 16 | 29.7 | 0.383 | 1.079 | 0.005 | 1539. | 570. | -172.5 | 0.24 | 2.79 | 0.33 | 3.22 | 276. | 7.9 | 290.4 | 2.0 |
| 12 | 01 | 01 | 1 | 17 | -24.8 | 0.287 | -9.000 | -9.000 | -999. | 374. | 90.3 | 0.24 | 2.79 | 0.59 | 2.52 | 284. | 7.9 | 289.2 | 2.0 |
| 12 | 01 | 01 | 1 | 18 | -26.7 | 0.269 | -9.000 | -9.000 | -999. | 336. | 79.8 | 0.24 | 2.79 | 1.00 | 2.38 | 285. | 7.9 | 287.5 | 2.0 |
| 12 | 01 | 01 | 1 | 19 | -10.2 | 0.137 | -9.000 | -9.000 | -999. | 133. | 22.7 | 0.24 | 2.79 | 1.00 | 1.26 | 287. | 7.9 | 287.5 | 2.0 |

```
12 01 01   1 20   -6.2  0.106 -9.000 -9.000 -999.   83.     17.2  0.24   2.79   1.00    0.99  303.    7.9  287.0    2.0
12 01 01   1 21   -7.6  0.117 -9.000 -9.000 -999.   96.     19.1  0.24   2.79   1.00    1.09  326.    7.9  286.4    2.0
12 01 01   1 22   -6.8  0.110 -9.000 -9.000 -999.   88.     18.0  0.24   2.79   1.00    1.03  297.    7.9  285.9    2.0
12 01 01   1 23  -19.9  0.200 -9.000 -9.000 -999.  214.     43.9  0.24   2.79   1.00    1.79  290.    7.9  285.9    2.0
12 01 01   1 24  -19.6  0.196 -9.000 -9.000 -999.  209.     42.3  0.24   2.79   1.00    1.76  282.    7.9  285.9    2.0


First hour of profile data
YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
12 01 01 01    7.9 1 -999.  -99.00   283.8   99.0  -99.00  -99.00

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

*** AERMOD - VERSION  19191 ***   *** 190th St Warehouse 2040-2053                                    ***        05/15/20
*** AERMET - VERSION  16216 ***   *** DPM concentrations second 14YR Exposure                         ***        08:46:26
                                                                                                               PAGE  45
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                          *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: ALL      ***
                              INCLUDING SOURCE(S):     STCK1       , STCK2       , STCK3       , STCK4       , STCK5       ,
               STCK6       , L0002636    , L0002637    , L0002638    , L0002639    , L0002640    , L0002641    , L0002642    ,
               L0002643    , L0002644    , L0002645    , L0002646    , L0002647    , L0002648    , L0002649    , L0002650    ,
               L0002651    , L0002652    , L0002653    , L0002654    , L0002655    , L0002656    , L0002657    ,  . . .      ,

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

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

   Y-COORD  |                                                X-COORD (METERS)
   (METERS) |    376998.97    377086.27    377173.57    377260.87    377348.17    377435.47    377522.77    377610.07    377697.37
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 3748114.24 |       0.00016      0.00017      0.00019      0.00020      0.00020      0.00020      0.00020      0.00020      0.00019
 3748057.86 |       0.00015      0.00020      0.00022      0.00023      0.00024      0.00024      0.00023      0.00023      0.00022
 3748001.48 |       0.00020      0.00019      0.00021      0.00028      0.00028      0.00027      0.00027      0.00027      0.00026
 3747945.10 |       0.00023      0.00027      0.00025      0.00027      0.00030      0.00030      0.00033      0.00032      0.00030
 3747888.72 |       0.00026      0.00031      0.00034      0.00044      0.00040      0.00033      0.00037      0.00038      0.00036
 3747832.34 |       0.00029      0.00036      0.00045      0.00069      0.00067      0.00051      0.00041      0.00041      0.00044
 3747775.96 |       0.00033      0.00042      0.00054      0.00088      0.00086      0.00064      0.00059      0.00057      0.00049
 3747719.58 |       0.00037      0.00048      0.00064      0.00102      0.00101      0.00078      0.00073      0.00071      0.00067
 3747663.20 |       0.00042      0.00055      0.00075      0.00120      0.00122      0.00098      0.00094      0.00091      0.00086
 3747606.82 |       0.00046      0.00062      0.00087      0.00140      0.00152      0.00131      0.00126      0.00122      0.00115
 3747550.44 |       0.00050      0.00069      0.00100      0.00165      0.00197      0.00188      0.00180      0.00175      0.00159
 3747494.06 |       0.00054      0.00075      0.00112      0.00202      0.00280      0.00305      0.00320      0.00274      0.00210
 3747437.68 |       0.00057      0.00081      0.00124      0.00318      0.00434      0.00481      0.00517      0.00514      0.00240
 3747381.30 |       0.00059      0.00085      0.00133      0.00245      0.00203      0.00459      0.00417      0.00483      0.00236
 3747324.92 |       0.00060      0.00087      0.00150      0.00227      0.00220      0.00392      0.00332      0.00331      0.00212
 3747268.54 |       0.00059      0.00086      0.00224      0.00212      0.00277      0.00311      0.00292      0.00347      0.00199
 3747212.16 |       0.00057      0.00082      0.00137      0.00184      0.00252      0.00291      0.00274      0.00213      0.00164
 3747155.78 |       0.00053      0.00073      0.00100      0.00131      0.00163      0.00203      0.00193      0.00148      0.00117
 3747099.40 |       0.00049      0.00064      0.00084      0.00106      0.00130      0.00153      0.00150      0.00123      0.00097
```

```
 3747043.02 |       0.00043      0.00056      0.00071      0.00090      0.00110      0.00127      0.00124      0.00106      0.00084
 3746986.64 |       0.00038      0.00048      0.00061      0.00076      0.00089      0.00100      0.00102      0.00089      0.00074

*** AERMOD - VERSION  19191 ***   *** 190th St Warehouse 2040-2053                                          ***        05/15/20
*** AERMET - VERSION  16216 ***   *** DPM concentrations second 14YR Exposure                               ***        08:46:26
                                                                                                                      PAGE  46
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                          *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: ALL      ***
                              INCLUDING SOURCE(S):     STCK1       , STCK2       , STCK3       , STCK4       , STCK5       ,
               STCK6       , L0002636    , L0002637    , L0002638    , L0002639    , L0002640    , L0002641    , L0002642    ,
               L0002643    , L0002644    , L0002645    , L0002646    , L0002647    , L0002648    , L0002649    , L0002650    ,
               L0002651    , L0002652    , L0002653    , L0002654    , L0002655    , L0002656    , L0002657    ,  . . .      ,

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

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

   Y-COORD  |                                          X-COORD (METERS)
   (METERS) |     377784.67    377871.97    377959.27    378046.57    378133.87    378221.17    378308.47    378395.77    378483.07
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 3748114.24 |       0.00018      0.00017      0.00016      0.00015      0.00014      0.00013      0.00012      0.00011      0.00010
 3748057.86 |       0.00021      0.00019      0.00018      0.00017      0.00015      0.00014      0.00013      0.00012      0.00011
 3748001.48 |       0.00024      0.00022      0.00021      0.00019      0.00017      0.00016      0.00014      0.00013      0.00012
 3747945.10 |       0.00028      0.00026      0.00024      0.00021      0.00019      0.00017      0.00016      0.00014      0.00013
 3747888.72 |       0.00034      0.00031      0.00028      0.00025      0.00022      0.00019      0.00017      0.00016      0.00014
 3747832.34 |       0.00040      0.00037      0.00033      0.00029      0.00025      0.00022      0.00019      0.00017      0.00015
 3747775.96 |       0.00047      0.00044      0.00039      0.00034      0.00029      0.00024      0.00021      0.00018      0.00016
 3747719.58 |       0.00062      0.00053      0.00047      0.00039      0.00033      0.00027      0.00023      0.00020      0.00017
 3747663.20 |       0.00079      0.00068      0.00056      0.00046      0.00037      0.00030      0.00025      0.00021      0.00018
 3747606.82 |       0.00102      0.00084      0.00066      0.00051      0.00041      0.00034      0.00026      0.00022      0.00019
 3747550.44 |       0.00130      0.00098      0.00073      0.00055      0.00043      0.00034      0.00030      0.00025      0.00020
 3747494.06 |       0.00149      0.00106      0.00077      0.00058      0.00045      0.00036      0.00030      0.00026      0.00023
 3747437.68 |       0.00157      0.00110      0.00081      0.00061      0.00048      0.00038      0.00032      0.00027      0.00024
 3747381.30 |       0.00158      0.00114      0.00085      0.00065      0.00052      0.00042      0.00035      0.00030      0.00027
 3747324.92 |       0.00156      0.00119      0.00092      0.00073      0.00059      0.00050      0.00043      0.00038      0.00034
 3747268.54 |       0.00165      0.00141      0.00121      0.00105      0.00092      0.00084      0.00078      0.00074      0.00071
 3747212.16 |       0.00138      0.00122      0.00106      0.00093      0.00081      0.00073      0.00066      0.00062      0.00058
 3747155.78 |       0.00093      0.00077      0.00066      0.00057      0.00049      0.00042      0.00037      0.00033      0.00030
 3747099.40 |       0.00078      0.00063      0.00053      0.00044      0.00038      0.00033      0.00028      0.00025      0.00022
 3747043.02 |       0.00068      0.00054      0.00044      0.00036      0.00031      0.00027      0.00023      0.00021      0.00019
 3746986.64 |       0.00059      0.00047      0.00038      0.00031      0.00027      0.00023      0.00020      0.00018      0.00016

*** AERMOD - VERSION  19191 ***   *** 190th St Warehouse 2040-2053                                          ***        05/15/20
*** AERMET - VERSION  16216 ***   *** DPM concentrations second 14YR Exposure                               ***        08:46:26
                                                                                                                      PAGE  47
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                          *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: ALL      ***
                              INCLUDING SOURCE(S):     STCK1       , STCK2       , STCK3       , STCK4       , STCK5       ,
```

```
                STCK6       , L0002636    , L0002637    , L0002638    , L0002639    , L0002640    , L0002641    , L0002642    ,
                L0002643    , L0002644    , L0002645    , L0002646    , L0002647    , L0002648    , L0002649    , L0002650    ,
                L0002651    , L0002652    , L0002653    , L0002654    , L0002655    , L0002656    , L0002657    ,  . . .      ,

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

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

   Y-COORD  |                                              X-COORD (METERS)
   (METERS) |     378570.37    378657.67    378744.97
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 3748114.24 |       0.00010      0.00009      0.00009
 3748057.86 |       0.00010      0.00010      0.00009
 3748001.48 |       0.00011      0.00010      0.00010
 3747945.10 |       0.00012      0.00011      0.00010
 3747888.72 |       0.00013      0.00012      0.00011
 3747832.34 |       0.00014      0.00012      0.00011
 3747775.96 |       0.00014      0.00013      0.00012
 3747719.58 |       0.00015      0.00014      0.00012
 3747663.20 |       0.00016      0.00014      0.00013
 3747606.82 |       0.00017      0.00015      0.00013
 3747550.44 |       0.00018      0.00016      0.00014
 3747494.06 |       0.00019      0.00016      0.00014
 3747437.68 |       0.00021      0.00019      0.00016
 3747381.30 |       0.00024      0.00021      0.00018
 3747324.92 |       0.00031      0.00026      0.00019
 3747268.54 |       0.00068      0.00061      0.00025
 3747212.16 |       0.00054      0.00047      0.00022
 3747155.78 |       0.00027      0.00022      0.00017
 3747099.40 |       0.00020      0.00017      0.00014
 3747043.02 |       0.00016      0.00014      0.00012
 3746986.64 |       0.00014      0.00013      0.00011

*** AERMOD - VERSION  19191 ***   *** 190th St Warehouse 2040-2053                                    ***        05/15/20
*** AERMET - VERSION  16216 ***   *** DPM concentrations second 14YR Exposure                         ***        08:46:26
                                                                                                                PAGE  48
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                            *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: ALL      ***
                                INCLUDING SOURCE(S):     STCK1       , STCK2       , STCK3       , STCK4       , STCK5       ,
                STCK6       , L0002636    , L0002637    , L0002638    , L0002639    , L0002640    , L0002641    , L0002642    ,
                L0002643    , L0002644    , L0002645    , L0002646    , L0002647    , L0002648    , L0002649    , L0002650    ,
                L0002651    , L0002652    , L0002653    , L0002654    , L0002655    , L0002656    , L0002657    ,  . . .      ,
```

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

| X-COORD (M) | Y-COORD (M) | CONC | X-COORD (M) | Y-COORD (M) | CONC |
|---|---|---|---|---|---|
| 377146.65 | 3747291.37 | 0.00128 | 377230.47 | 3747442.55 | 0.00182 |
| 377253.39 | 3747498.09 | 0.00185 | 377259.26 | 3747543.71 | 0.00166 |
| 377259.26 | 3747621.90 | 0.00132 | 377260.56 | 3747704.66 | 0.00106 |
| 378132.19 | 3747267.37 | 0.00095 | 378294.52 | 3747265.66 | 0.00084 |



*** THE SUMMARY OF MAXIMUM PERIOD ( 43848 HRS) RESULTS ***

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

| GROUP ID | AVERAGE CONC | RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG) | OF TYPE | NETWORK GRID-ID |
|---|---|---|---|---|
| ALL | 1ST HIGHEST VALUE IS | 0.00517 AT ( 377522.77, 3747437.68, 19.90, 19.90, 0.00) | GC | UCART1 |
| | 2ND HIGHEST VALUE IS | 0.00514 AT ( 377610.07, 3747437.68, 20.00, 20.00, 0.00) | GC | UCART1 |
| | 3RD HIGHEST VALUE IS | 0.00483 AT ( 377610.07, 3747381.30, 20.20, 20.20, 0.00) | GC | UCART1 |
| | 4TH HIGHEST VALUE IS | 0.00481 AT ( 377435.47, 3747437.68, 19.90, 19.90, 0.00) | GC | UCART1 |
| | 5TH HIGHEST VALUE IS | 0.00459 AT ( 377435.47, 3747381.30, 19.60, 19.60, 0.00) | GC | UCART1 |
| | 6TH HIGHEST VALUE IS | 0.00434 AT ( 377348.17, 3747437.68, 19.20, 19.20, 0.00) | GC | UCART1 |
| | 7TH HIGHEST VALUE IS | 0.00417 AT ( 377522.77, 3747381.30, 20.40, 20.40, 0.00) | GC | UCART1 |
| | 8TH HIGHEST VALUE IS | 0.00392 AT ( 377435.47, 3747324.92, 19.30, 19.30, 0.00) | GC | UCART1 |
| | 9TH HIGHEST VALUE IS | 0.00347 AT ( 377610.07, 3747268.54, 19.50, 19.50, 0.00) | GC | UCART1 |
| | 10TH HIGHEST VALUE IS | 0.00332 AT ( 377522.77, 3747324.92, 20.40, 20.40, 0.00) | GC | UCART1 |

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



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

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

```
A Total of            0 Fatal Error Message(s)
A Total of            8 Warning Message(s)
A Total of         1474 Informational Message(s)

A Total of        43848 Hours Were Processed

A Total of         1223 Calm Hours Identified

A Total of          251 Missing Hours Identified (  0.57 Percent)


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


   ********   WARNING MESSAGES   ********
SO W320     872        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320     873        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320     874        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320     875        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320     876        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320     877        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
ME W186    1862       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used          0.50
ME W187    1862       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

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

EMFAC2017 for Los Angeles (SC) PM10 Running and Idling Exhaust

| Area | Season | Veh | Fuel | MdlYr | Speed (Miles/hr) | 2022 (gms/mile) | 2023 (gms/mile) | 2024 (gms/mile) | 2025 (gms/mile) | 2026 (gms/mile) | 2027 (gms/mile) | 2028 (gms/mile) | 2029 (gms/mile) | 2030 (gms/mile) | 2031 (gms/mile) | 2032 (gms/mile) | 2033 (gms/mile) | 2034 (gms/mile) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Los Angeles (SC)* | *Annual* | *LHDT2* | *DSL* | Aggregated | *0* | 0.786999 | 0.787704 | 0.788815 | 0.79041 | 0.792099 | 0.793443 | 0.795102 | 0.796603 | 0.797478 | 0.795695 | 0.796184 | 0.795717 | 0.793787 |
| *Los Angeles (SC)* | Annual | LHDT2 | DSL | Aggregated | 5 | 0.068164 | 0.064801 | 0.061574 | 0.058555 | 0.055644 | 0.0529 | 0.050412 | 0.048159 | 0.046096 | 0.044133 | 0.042483 | 0.040943 | 0.039478 |
| *Los Angeles (SC)* | Annual | LHDT2 | DSL | Aggregated | 10 | 0.051687 | 0.049607 | 0.04761 | 0.045744 | 0.043936 | 0.042229 | 0.04068 | 0.039275 | 0.037984 | 0.036744 | 0.035705 | 0.034726 | 0.033781 |
| *Los Angeles (SC)* | Annual | LHDT2 | DSL | Aggregated | 35 | 0.01977 | 0.019287 | 0.018824 | 0.018391 | 0.017966 | 0.017562 | 0.017195 | 0.016859 | 0.016547 | 0.016238 | 0.015982 | 0.015733 | 0.015483 |
| *Los Angeles (SC)* | *Annual* | *MHDT* | *DSL* | Aggregated | *0* | 0.147006 | 0.043967 | 0.038351 | 0.032887 | 0.028163 | 0.024482 | 0.021469 | 0.019023 | 0.016871 | 0.014933 | 0.013514 | 0.012353 | 0.011424 |
| *Los Angeles (SC)* | Annual | MHDT | DSL | Aggregated | 5 | 0.070223 | 0.006736 | 0.006571 | 0.006394 | 0.006222 | 0.00606 | 0.005934 | 0.005821 | 0.005713 | 0.00561 | 0.005519 | 0.005445 | 0.005375 |
| *Los Angeles (SC)* | Annual | MHDT | DSL | Aggregated | 10 | 0.062291 | 0.005836 | 0.005702 | 0.005556 | 0.005413 | 0.005279 | 0.005175 | 0.005081 | 0.004991 | 0.004905 | 0.004829 | 0.004767 | 0.004709 |
| *Los Angeles (SC)* | Annual | MHDT | DSL | Aggregated | 35 | 0.034264 | 0.003935 | 0.003951 | 0.003952 | 0.003939 | 0.003919 | 0.00391 | 0.0039 | 0.003886 | 0.003869 | 0.003854 | 0.003842 | 0.003827 |
| *Los Angeles (SC)* | *Annual* | *HHDT* | *DSL* | Aggregated | *0* | 0.015028 | 0.012569 | 0.012319 | 0.012103 | 0.01185 | 0.011625 | 0.011464 | 0.01127 | 0.011067 | 0.010916 | 0.010806 | 0.010682 | 0.010536 |
| *Los Angeles (SC)* | Annual | HHDT | DSL | Aggregated | 5 | 0.043461 | 0.013015 | 0.013009 | 0.012891 | 0.012711 | 0.01253 | 0.01236 | 0.012167 | 0.01198 | 0.011821 | 0.011671 | 0.011519 | 0.011343 |
| *Los Angeles (SC)* | Annual | HHDT | DSL | Aggregated | 10 | 0.037097 | 0.011385 | 0.011388 | 0.011292 | 0.01114 | 0.010985 | 0.01084 | 0.010673 | 0.010511 | 0.010374 | 0.010245 | 0.010112 | 0.009959 |
| *Los Angeles (SC)* | Annual | HHDT | DSL | Aggregated | 35 | 0.01772 | 0.008784 | 0.008889 | 0.008899 | 0.008855 | 0.008797 | 0.008732 | 0.008648 | 0.008564 | 0.008494 | 0.008425 | 0.008356 | 0.008274 |

| | **14 yr** | **14 yr** | **14 yr** |
|---|---|---|---|
| | 2025-2039 | 2025-2039 | 2025-2039 |
| | **10 mph** | **35 mph** | **0 mph (idling)** |
| | Onsite | Offsite | Idling |
| LHDT2 | 0.03705 | 0.01629 | 0.79363 |
| MHDT | 0.00493 | 0.00386 | 0.01672 |
| HHDT | 0.01036 | 0.00848 | 0.01098 |

| | **14 yr** | **14 yr** | **14 yr** |
|---|---|---|---|
| | 2040-2053 | 2040-2053 | 2040-2053 |
| | **10 mph** | **35 mph** | **0 mph (idling)** |
| | Onsite | Offsite | Idling |
| LHDT2 | 0.02916 | 0.01434 | 0.79427 |
| MHDT | 0.00435 | 0.00368 | 0.00774 |
| HHDT | 0.00958 | 0.00810 | 0.01015 |

| | **2 yr** | **2 yr** | **2 yr** |
|---|---|---|---|
| | 2023-2024 | 2023-2024 | 2023-2024 |
| | **10 mph** | **35 mph** | **0 mph (idling)** |
| | Onsite | Offsite | Idling |
| LHDT2 | 0.04861 | 0.01906 | 0.78826 |
| MHDT | 0.00577 | 0.00394 | 0.04116 |
| HHDT | 0.01139 | 0.00884 | 0.01244 |

| | **1 yr** | **1 yr** | **1 yr** |
|---|---|---|---|
| | 2022 | 2022 | 2022 |
| | **10 mph** | **35 mph** | **0 mph (idling)** |
| | Onsite | Offsite | Idling |
| LHDT2 | 0.05169 | 0.01977 | 0.78700 |
| MHDT | 0.06229 | 0.03426 | 0.14701 |
| HHDT | 0.03710 | 0.01772 | 0.01503 |

| 2035 | 2036 | 2037 | 2038 | 2039 | 2040 | 2041 | 2042 | 2043 | 2044 | 2045 | 2046 | 2047 | 2048 | 2049 | 2050 | 2051 | 2052 | 2053 | 2054 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (gms/mile) | (gms/mile) | (gms/mile) | (gms/mile) | (gms/mile) | (gms/mile) | (gms/mile) | (gms/mile) | (gms/mile) | (gms/mile) | (gms/mile) | (gms/mile) | (gms/mile) | (gms/mile) | (gms/mile) | (gms/mile) | (gms/mile) | (gms/mile) | (gms/mile) | (gms/mile) |
| 0.791222 | 0.79107 | 0.791116 | 0.790956 | 0.791586 | 0.792098 | 0.792516 | 0.792807 | 0.79303 | 0.793517 | 0.793923 | 0.794428 | 0.794848 | 0.795265 | 0.795781 | 0.796661 | 0.796661 | 0.796661 | 0.796661 | 0.796661 |
| 0.037983 | 0.03704 | 0.036168 | 0.035381 | 0.034666 | 0.03411 | 0.033677 | 0.033368 | 0.033141 | 0.032711 | 0.032349 | 0.031916 | 0.031563 | 0.031221 | 0.03081 | 0.030128 | 0.030128 | 0.030128 | 0.030128 | 0.030128 |
| 0.032811 | 0.032218 | 0.031667 | 0.031168 | 0.030716 | 0.030368 | 0.030099 | 0.029912 | 0.02978 | 0.029515 | 0.029293 | 0.029024 | 0.028808 | 0.028599 | 0.028345 | 0.027917 | 0.027917 | 0.027917 | 0.027917 | 0.027917 |
| 0.015221 | 0.015075 | 0.014938 | 0.014812 | 0.014699 | 0.014616 | 0.014552 | 0.014512 | 0.014488 | 0.014427 | 0.014377 | 0.014314 | 0.014266 | 0.014219 | 0.014161 | 0.014057 | 0.014057 | 0.014057 | 0.014057 | 0.014057 |
| 0.010586 | 0.009897 | 0.009429 | 0.009035 | 0.008727 | 0.008434 | 0.008204 | 0.008022 | 0.007872 | 0.00774 | 0.007617 | 0.007526 | 0.00745 | 0.007401 | 0.007367 | 0.007339 | 0.007339 | 0.007339 | 0.007339 | 0.007339 |
| 0.005303 | 0.005233 | 0.005179 | 0.005131 | 0.005087 | 0.005047 | 0.005012 | 0.004985 | 0.004962 | 0.004943 | 0.004929 | 0.004918 | 0.00491 | 0.004906 | 0.004905 | 0.004904 | 0.004904 | 0.004904 | 0.004904 | 0.004904 |
| 0.004649 | 0.004591 | 0.004546 | 0.004505 | 0.004468 | 0.004434 | 0.004405 | 0.004382 | 0.004362 | 0.004347 | 0.004334 | 0.004325 | 0.004318 | 0.004315 | 0.004313 | 0.004313 | 0.004313 | 0.004313 | 0.004313 | 0.004313 |
| 0.003806 | 0.003787 | 0.003769 | 0.003752 | 0.003734 | 0.003718 | 0.003703 | 0.003692 | 0.003682 | 0.003674 | 0.003669 | 0.003665 | 0.003661 | 0.003658 | 0.003657 | 0.003657 | 0.003657 | 0.003657 | 0.003657 | 0.003657 |
| 0.010437 | 0.010378 | 0.010337 | 0.010304 | 0.010265 | 0.010238 | 0.010215 | 0.010194 | 0.010181 | 0.010167 | 0.010151 | 0.010136 | 0.010124 | 0.010111 | 0.0101 | 0.010093 | 0.010093 | 0.010093 | 0.010093 | 0.010093 |
| 0.011205 | 0.011113 | 0.011047 | 0.011001 | 0.010958 | 0.010935 | 0.010919 | 0.010908 | 0.010902 | 0.010894 | 0.010885 | 0.010876 | 0.010871 | 0.01087 | 0.010871 | 0.010875 | 0.010875 | 0.010875 | 0.010875 | 0.010875 |
| 0.009839 | 0.009762 | 0.009705 | 0.009666 | 0.009631 | 0.009612 | 0.009599 | 0.00959 | 0.009585 | 0.009579 | 0.009572 | 0.009565 | 0.009561 | 0.00956 | 0.009561 | 0.009564 | 0.009564 | 0.009564 | 0.009564 | 0.009564 |
| 0.008207 | 0.008167 | 0.008136 | 0.008115 | 0.008101 | 0.008095 | 0.008092 | 0.008094 | 0.008096 | 0.008099 | 0.008101 | 0.008103 | 0.008104 | 0.008104 | 0.008105 | 0.008108 | 0.008108 | 0.008108 | 0.008108 | 0.008108 |

# APPENDIX D

# CALEEMOD MODEL ANNUAL EMISSIONS PRINTOUTS

# 19260 190th Street Warehouse

**Los Angeles-South Coast County, Annual**

## 1.0 Project Characteristics

### 1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|---|---|---|---|---|---|
| General Office Building | 20.37 | 1000sqft | 0.13 | 20,370.00 | 0 |
| Manufacturing | 198.40 | 1000sqft | 4.55 | 198,400.00 | 0 |
| Unrefrigerated Warehouse-No Rail | 86.78 | 1000sqft | 1.99 | 86,780.00 | 0 |
| Other Non-Asphalt Surfaces | 0.90 | Acre | 0.90 | 39,204.00 | 0 |
| Parking Lot | 636.00 | Space | 5.72 | 254,400.00 | 0 |

### 1.2 Other Project Characteristics

| | | | | | |
|---|---|---|---|---|---|
| **Urbanization** | Urban | **Wind Speed (m/s)** | 2.2 | **Precipitation Freq (Days)** | 33 |
| **Climate Zone** | 8 | | | **Operational Year** | 2022 |
| **Utility Company** | Southern California Edison | | | | |
| **CO2 Intensity (lb/MWhr)** | 702.44 | **CH4 Intensity (lb/MWhr)** | 0.029 | **N2O Intensity (lb/MWhr)** | 0.006 |

### 1.3 User Entered Comments & Non-Default Data

19260 190th Street Warehouse - Los Angeles-South Coast County, Annual

Project Characteristics -

Land Use - 13.29 gross ac w/ (total bldg footrpint is 291TSF) 86.78TSF warehouse, 198.4TSF manufacturing, 20.37TSF office (includes ~14,550sf mezzanine), parking lot w/ 636 stalls, & rmdr detention basins/landscaping ~0.9 ac.

Construction Phase - Demolition anticipated to begin no earlier than mid-June 2020. All other site work & building construction anticipated to begin May 2021 and be completed by May 2022.

Off-road Equipment - CalEEMod default building construction timing decreased by ~33%; therefore, ~33% more equipement needed than CalEEMod defaults.

Off-road Equipment - Site Preparation of ~70% of site (~9.3 ac) to remove existing asphalt parking lot; therefore, only ~70% of CalEEMod default equipment needed for site preparation.

Trips and VMT -

Demolition - Demolition of an existing ~162,504 sf building.

Grading - Site Preparation of ~70% of site (~9.3 ac) to remove existing asphalt parking lot. ~19,930 CY import during grading.

Architectural Coating - SCAQMD Rule 1113 limits architectural coatings to 50g/L VOC for buildings & 100g/L VOC for parking lot striping.

Vehicle Trips - Per TIA, 1.74trips/TSF warehouse (non-PCE), 3.93trips/TSF manufacturing (non-PCE), & 9.74trips/TSf office. ITE10th Ed used Sat/Sun for warehouse & office. Truck trips 40 miles one-way. Trip % 20.4% C-W & 79.57% C-NW warehouse/manufacturing.

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation - ~0.02 miles NW Transit Rte 6 stop 190th/Honeywell & ~1.76 miles NE dwntwn Torrance. Sidewalks on/off site. LA County 1emp/1,306sf industrial & 1emp/302sf office = 285emp/6.68ac (job ac=bldg ftprnt only)= 42.7jobs/jb ac.

Energy Mitigation - Lighting that is ~34% more efficient than standard. EnergyStar appliances to be used on-site.

Water Mitigation - 20% indoor water reduction per CalGreen Standards. Water-efficient irrigation systems.

Waste Mitigation - AB 341 requires each jurisdiction in CA divert at least 75% of their waste away from landfills by 2020.

Fleet Mix - Revised vehicle mix per TIA of 79.57% autos, 3.46% 2 axle trucks, 4.64% 3 axle trucks, & 12.33% 4+ axle trucks for warehouse & manufacturing.

| Table Name | Column Name | Default Value | New Value |
|---|---|---|---|
| tblArchitecturalCoating | EF_Nonresidential_Exterior | 100.00 | 50.00 |
| tblArchitecturalCoating | EF_Nonresidential_Interior | 100.00 | 50.00 |
| tblConstDustMitigation | WaterUnpavedRoadVehicleSpeed | 0 | 15 |
| tblConstructionPhase | NumDays | 300.00 | 200.00 |
| tblConstructionPhase | NumDays | 20.00 | 30.00 |
| tblFleetMix | HHD | 0.03 | 0.12 |
| tblFleetMix | HHD | 0.03 | 0.12 |

| | | | |
|---|---|---|---|
| tblFleetMix | LDA | 0.55 | 0.47 |
| tblFleetMix | LDA | 0.55 | 0.47 |
| tblFleetMix | LDT1 | 0.04 | 0.04 |
| tblFleetMix | LDT1 | 0.04 | 0.04 |
| tblFleetMix | LDT2 | 0.20 | 0.18 |
| tblFleetMix | LDT2 | 0.20 | 0.18 |
| tblFleetMix | LHD1 | 0.02 | 0.02 |
| tblFleetMix | LHD1 | 0.02 | 0.02 |
| tblFleetMix | LHD2 | 6.1960e-003 | 9.7730e-003 |
| tblFleetMix | LHD2 | 6.1960e-003 | 9.7730e-003 |
| tblFleetMix | MCY | 5.1420e-003 | 4.4430e-003 |
| tblFleetMix | MCY | 5.1420e-003 | 4.4430e-003 |
| tblFleetMix | MDV | 0.12 | 0.10 |
| tblFleetMix | MDV | 0.12 | 0.10 |
| tblFleetMix | MH | 8.7600e-004 | 0.00 |
| tblFleetMix | MH | 8.7600e-004 | 0.00 |
| tblFleetMix | MHD | 0.02 | 0.05 |
| tblFleetMix | MHD | 0.02 | 0.05 |
| tblFleetMix | OBUS | 2.5150e-003 | 0.00 |
| tblFleetMix | OBUS | 2.5150e-003 | 0.00 |
| tblFleetMix | SBUS | 6.8700e-004 | 0.00 |
| tblFleetMix | SBUS | 6.8700e-004 | 0.00 |
| tblFleetMix | UBUS | 2.2010e-003 | 0.00 |
| tblFleetMix | UBUS | 2.2010e-003 | 0.00 |
| tblGrading | AcresOfGrading | 0.00 | 9.30 |
| tblGrading | MaterialImported | 0.00 | 19,930.00 |
| tblLandUse | LotAcreage | 0.47 | 0.13 |

| | | | |
|---|---|---|---|
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00 | 4.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 2.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00 | 2.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00 | 4.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 4.00 | 3.00 |
| tblVehicleTrips | CC_TTP | 28.00 | 0.00 |
| tblVehicleTrips | CNW_TTP | 13.00 | 79.57 |
| tblVehicleTrips | CNW_TTP | 41.00 | 79.57 |
| tblVehicleTrips | CW_TL | 16.60 | 40.00 |
| tblVehicleTrips | CW_TL | 16.60 | 40.00 |
| tblVehicleTrips | CW_TTP | 59.00 | 20.43 |
| tblVehicleTrips | CW_TTP | 59.00 | 20.43 |
| tblVehicleTrips | ST_TR | 2.46 | 2.21 |
| tblVehicleTrips | ST_TR | 1.49 | 3.93 |
| tblVehicleTrips | ST_TR | 1.68 | 0.15 |
| tblVehicleTrips | SU_TR | 1.05 | 0.70 |
| tblVehicleTrips | SU_TR | 0.62 | 3.93 |
| tblVehicleTrips | SU_TR | 1.68 | 0.06 |
| tblVehicleTrips | WD_TR | 11.03 | 9.74 |
| tblVehicleTrips | WD_TR | 3.82 | 3.93 |
| tblVehicleTrips | WD_TR | 1.68 | 1.74 |

## 2.0 Emissions Summary

## 2.1 Overall Construction

### Unmitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Year | tons/yr | | | | | | | | | | MT/yr | | | | | |
| 2020 | 0.0371 | 0.4423 | 0.2479 | 6.9000e-004 | 0.0880 | 0.0169 | 0.1049 | 0.0143 | 0.0158 | 0.0301 | 0.0000 | 64.0110 | 64.0110 | 0.0116 | 0.0000 | 64.3018 |
| 2021 | 0.3536 | 3.4715 | 3.0267 | 8.1400e-003 | 0.4484 | 0.1290 | 0.5774 | 0.1558 | 0.1210 | 0.2768 | 0.0000 | 741.5272 | 741.5272 | 0.0996 | 0.0000 | 744.0175 |
| 2022 | 0.8908 | 1.1429 | 1.3205 | 3.2500e-003 | 0.1190 | 0.0442 | 0.1631 | 0.0321 | 0.0417 | 0.0737 | 0.0000 | 293.6053 | 293.6053 | 0.0366 | 0.0000 | 294.5200 |
| **Maximum** | **0.8908** | **3.4715** | **3.0267** | **8.1400e-003** | **0.4484** | **0.1290** | **0.5774** | **0.1558** | **0.1210** | **0.2768** | **0.0000** | **741.5272** | **741.5272** | **0.0996** | **0.0000** | **744.0175** |

### Mitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Year | tons/yr | | | | | | | | | | MT/yr | | | | | |
| 2020 | 0.0371 | 0.4423 | 0.2479 | 6.9000e-004 | 0.0392 | 0.0169 | 0.0561 | 6.9000e-003 | 0.0158 | 0.0227 | 0.0000 | 64.0110 | 64.0110 | 0.0116 | 0.0000 | 64.3017 |
| 2021 | 0.3536 | 3.4715 | 3.0267 | 8.1400e-003 | 0.3286 | 0.1290 | 0.4576 | 0.1023 | 0.1210 | 0.2233 | 0.0000 | 741.5268 | 741.5268 | 0.0996 | 0.0000 | 744.0171 |
| 2022 | 0.8908 | 1.1429 | 1.3205 | 3.2500e-003 | 0.1190 | 0.0442 | 0.1631 | 0.0321 | 0.0417 | 0.0737 | 0.0000 | 293.6051 | 293.6051 | 0.0366 | 0.0000 | 294.5198 |
| **Maximum** | **0.8908** | **3.4715** | **3.0267** | **8.1400e-003** | **0.3286** | **0.1290** | **0.4576** | **0.1023** | **0.1210** | **0.2233** | **0.0000** | **741.5268** | **741.5268** | **0.0996** | **0.0000** | **744.0171** |

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N20 | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Percent Reduction** | **0.00** | **0.00** | **0.00** | **0.00** | **25.72** | **0.00** | **19.94** | **30.13** | **0.00** | **16.01** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** |

| Quarter | Start Date | End Date | Maximum Unmitigated ROG + NOX (tons/quarter) | Maximum Mitigated ROG + NOX (tons/quarter) |
|---|---|---|---|---|
| **1** | **6-15-2020** | **9-14-2020** | 0.4418 | 0.4418 |
| **4** | **3-15-2021** | **6-14-2021** | 0.9679 | 0.9679 |
| **5** | **6-15-2021** | **9-14-2021** | 1.3775 | 1.3775 |
| **6** | **9-15-2021** | **12-14-2021** | 1.2275 | 1.2275 |
| **7** | **12-15-2021** | **3-14-2022** | 1.1298 | 1.1298 |
| **8** | **3-15-2022** | **6-14-2022** | 1.1339 | 1.1339 |
| | | **Highest** | 1.3775 | 1.3775 |

## 2.2 Overall Operational

### Unmitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Area | 1.2699 | 1.1000e-004 | 0.0121 | 0.0000 | | 4.0000e-005 | 4.0000e-005 | | 4.0000e-005 | 4.0000e-005 | 0.0000 | 0.0234 | 0.0234 | 6.0000e-005 | 0.0000 | 0.0249 |
| Energy | 0.0252 | 0.2291 | 0.1925 | 1.3700e-003 | | 0.0174 | 0.0174 | | 0.0174 | 0.0174 | 0.0000 | 1,017.7670 | 1,017.7670 | 0.0365 | 0.0111 | 1,021.9979 |
| Mobile | 0.4219 | 5.0203 | 5.6636 | 0.0282 | 1.7773 | 0.0226 | 1.7999 | 0.4785 | 0.0212 | 0.4998 | 0.0000 | 2,644.8804 | 2,644.8804 | 0.1261 | 0.0000 | 2,648.0318 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 70.3425 | 0.0000 | 70.3425 | 4.1571 | 0.0000 | 174.2705 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 22.0708 | 296.4778 | 318.5486 | 2.2791 | 0.0561 | 392.2322 |
| **Total** | **1.7170** | **5.2495** | **5.8681** | **0.0295** | **1.7773** | **0.0400** | **1.8174** | **0.4785** | **0.0387** | **0.5172** | **92.4133** | **3,959.1487** | **4,051.5619** | **6.5989** | **0.0672** | **4,236.5573** |

## 2.2 Overall Operational

**Mitigated Operational**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Area | 1.2699 | 1.1000e-004 | 0.0121 | 0.0000 | | 4.0000e-005 | 4.0000e-005 | | 4.0000e-005 | 4.0000e-005 | 0.0000 | 0.0234 | 0.0234 | 6.0000e-005 | 0.0000 | 0.0249 |
| Energy | 0.0252 | 0.2291 | 0.1925 | 1.3700e-003 | | 0.0174 | 0.0174 | | 0.0174 | 0.0174 | 0.0000 | 908.7520 | 908.7520 | 0.0320 | 0.0102 | 912.5929 |
| Mobile | 0.3184 | 3.7482 | 3.6223 | 0.0170 | 1.0117 | 0.0135 | 1.0252 | 0.2724 | 0.0127 | 0.2851 | 0.0000 | 1,600.3952 | 1,600.3952 | 0.0859 | 0.0000 | 1,602.5415 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 17.5856 | 0.0000 | 17.5856 | 1.0393 | 0.0000 | 43.5676 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 17.6567 | 238.7532 | 256.4099 | 1.8234 | 0.0449 | 315.3623 |
| **Total** | **1.6135** | **3.9774** | **3.8268** | **0.0184** | **1.0117** | **0.0310** | **1.0426** | **0.2724** | **0.0301** | **0.3025** | **35.2423** | **2,747.9238** | **2,783.1661** | **2.9806** | **0.0551** | **2,874.0893** |

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N20 | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Percent Reduction** | **6.03** | **24.23** | **34.79** | **37.77** | **43.08** | **22.70** | **42.63** | **43.08** | **22.10** | **41.51** | **61.86** | **30.59** | **31.31** | **54.83** | **18.07** | **32.16** |

## 3.0 Construction Detail

**Construction Phase**

| Phase Number | Phase Name | Phase Type | Start Date | End Date | Num Days Week | Num Days | Phase Description |
|---|---|---|---|---|---|---|---|
| 1 | Demolition | Demolition | 6/15/2020 | 7/10/2020 | 5 | 20 | |
| 2 | Site Preparation | Site Preparation | 5/1/2021 | 5/14/2021 | 5 | 10 | |
| 3 | Grading | Grading | 5/15/2021 | 6/25/2021 | 5 | 30 | |
| 4 | Building Construction | Building Construction | 6/26/2021 | 4/2/2022 | 5 | 200 | |
| 5 | Paving | Paving | 3/21/2022 | 4/15/2022 | 5 | 20 | |
| 6 | Architectural Coating | Architectural Coating | 3/22/2022 | 5/2/2022 | 5 | 30 | |

**Acres of Grading (Site Preparation Phase): 9.3**

**Acres of Grading (Grading Phase): 75**

**Acres of Paving: 6.62**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 458,325; Non-Residential Outdoor: 152,775; Striped Parking Area: 17,616 (Architectural Coating – sqft)**

**OffRoad Equipment**

19260 190th Street Warehouse - Los Angeles-South Coast County, Annual

| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|---|---|---|---|---|---|
| Demolition | Concrete/Industrial Saws | 1 | 8.00 | 81 | 0.73 |
| Demolition | Excavators | 3 | 8.00 | 158 | 0.38 |
| Demolition | Rubber Tired Dozers | 2 | 8.00 | 247 | 0.40 |
| Site Preparation | Rubber Tired Dozers | 2 | 8.00 | 247 | 0.40 |
| Site Preparation | Tractors/Loaders/Backhoes | 3 | 8.00 | 97 | 0.37 |
| Grading | Excavators | 2 | 8.00 | 158 | 0.38 |
| Grading | Graders | 1 | 8.00 | 187 | 0.41 |
| Grading | Rubber Tired Dozers | 1 | 8.00 | 247 | 0.40 |
| Grading | Scrapers | 2 | 8.00 | 367 | 0.48 |
| Grading | Tractors/Loaders/Backhoes | 2 | 8.00 | 97 | 0.37 |
| Building Construction | Cranes | 1 | 7.00 | 231 | 0.29 |
| Building Construction | Forklifts | 4 | 8.00 | 89 | 0.20 |
| Building Construction | Generator Sets | 2 | 8.00 | 84 | 0.74 |
| Building Construction | Tractors/Loaders/Backhoes | 4 | 7.00 | 97 | 0.37 |
| Building Construction | Welders | 1 | 8.00 | 46 | 0.45 |
| Paving | Pavers | 2 | 8.00 | 130 | 0.42 |
| Paving | Paving Equipment | 2 | 8.00 | 132 | 0.36 |
| Paving | Rollers | 2 | 8.00 | 80 | 0.38 |
| Architectural Coating | Air Compressors | 1 | 6.00 | 78 | 0.48 |

**Trips and VMT**

| Phase Name | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|---|---|---|---|---|---|---|---|---|---|---|
| Demolition | 6 | 15.00 | 0.00 | 739.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Site Preparation | 5 | 13.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Grading | 8 | 20.00 | 0.00 | 2,491.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Building Construction | 12 | 250.00 | 98.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Paving | 6 | 15.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Architectural Coating | 1 | 50.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |

## 3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

## 3.2 Demolition - 2020

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 0.0800 | 0.0000 | 0.0800 | 0.0121 | 0.0000 | 0.0121 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0331 | 0.3320 | 0.2175 | 3.9000e-004 | | 0.0166 | 0.0166 | | 0.0154 | 0.0154 | 0.0000 | 33.9986 | 33.9986 | 9.6000e-003 | 0.0000 | 34.2386 |
| **Total** | **0.0331** | **0.3320** | **0.2175** | **3.9000e-004** | **0.0800** | **0.0166** | **0.0966** | **0.0121** | **0.0154** | **0.0275** | **0.0000** | **33.9986** | **33.9986** | **9.6000e-003** | **0.0000** | **34.2386** |

## 3.2 Demolition - 2020

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 3.2600e-003 | 0.1097 | 0.0242 | 2.9000e-004 | 6.3500e-003 | 3.4000e-004 | 6.6900e-003 | 1.7400e-003 | 3.3000e-004 | 2.0700e-003 | 0.0000 | 28.4804 | 28.4804 | 1.9800e-003 | 0.0000 | 28.5300 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 6.9000e-004 | 5.6000e-004 | 6.1700e-003 | 2.0000e-005 | 1.6400e-003 | 1.0000e-005 | 1.6600e-003 | 4.4000e-004 | 1.0000e-005 | 4.5000e-004 | 0.0000 | 1.5320 | 1.5320 | 5.0000e-005 | 0.0000 | 1.5332 |
| **Total** | **3.9500e-003** | **0.1103** | **0.0304** | **3.1000e-004** | **7.9900e-003** | **3.5000e-004** | **8.3500e-003** | **2.1800e-003** | **3.4000e-004** | **2.5200e-003** | **0.0000** | **30.0124** | **30.0124** | **2.0300e-003** | **0.0000** | **30.0632** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 0.0312 | 0.0000 | 0.0312 | 4.7200e-003 | 0.0000 | 4.7200e-003 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0331 | 0.3320 | 0.2175 | 3.9000e-004 | | 0.0166 | 0.0166 | | 0.0154 | 0.0154 | 0.0000 | 33.9986 | 33.9986 | 9.6000e-003 | 0.0000 | 34.2385 |
| **Total** | **0.0331** | **0.3320** | **0.2175** | **3.9000e-004** | **0.0312** | **0.0166** | **0.0478** | **4.7200e-003** | **0.0154** | **0.0201** | **0.0000** | **33.9986** | **33.9986** | **9.6000e-003** | **0.0000** | **34.2385** |

## 3.2 Demolition - 2020

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 3.2600e-003 | 0.1097 | 0.0242 | 2.9000e-004 | 6.3500e-003 | 3.4000e-004 | 6.6900e-003 | 1.7400e-003 | 3.3000e-004 | 2.0700e-003 | 0.0000 | 28.4804 | 28.4804 | 1.9800e-003 | 0.0000 | 28.5300 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 6.9000e-004 | 5.6000e-004 | 6.1700e-003 | 2.0000e-005 | 1.6400e-003 | 1.0000e-005 | 1.6600e-003 | 4.4000e-004 | 1.0000e-005 | 4.5000e-004 | 0.0000 | 1.5320 | 1.5320 | 5.0000e-005 | 0.0000 | 1.5332 |
| **Total** | **3.9500e-003** | **0.1103** | **0.0304** | **3.1000e-004** | **7.9900e-003** | **3.5000e-004** | **8.3500e-003** | **2.1800e-003** | **3.4000e-004** | **2.5200e-003** | **0.0000** | **30.0124** | **30.0124** | **2.0300e-003** | **0.0000** | **30.0632** |

## 3.3 Site Preparation - 2021

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 0.0652 | 0.0000 | 0.0652 | 0.0336 | 0.0000 | 0.0336 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0133 | 0.1382 | 0.0743 | 1.3000e-004 | | 7.0000e-003 | 7.0000e-003 | | 6.4400e-003 | 6.4400e-003 | 0.0000 | 11.6002 | 11.6002 | 3.7500e-003 | 0.0000 | 11.6940 |
| **Total** | **0.0133** | **0.1382** | **0.0743** | **1.3000e-004** | **0.0652** | **7.0000e-003** | **0.0722** | **0.0336** | **6.4400e-003** | **0.0401** | **0.0000** | **11.6002** | **11.6002** | **3.7500e-003** | **0.0000** | **11.6940** |

## 3.3 Site Preparation - 2021

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 2.8000e-004 | 2.2000e-004 | 2.4600e-003 | 1.0000e-005 | 7.1000e-004 | 1.0000e-005 | 7.2000e-004 | 1.9000e-004 | 1.0000e-005 | 1.9000e-004 | 0.0000 | 0.6428 | 0.6428 | 2.0000e-005 | 0.0000 | 0.6433 |
| **Total** | **2.8000e-004** | **2.2000e-004** | **2.4600e-003** | **1.0000e-005** | **7.1000e-004** | **1.0000e-005** | **7.2000e-004** | **1.9000e-004** | **1.0000e-005** | **1.9000e-004** | **0.0000** | **0.6428** | **0.6428** | **2.0000e-005** | **0.0000** | **0.6433** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 0.0254 | 0.0000 | 0.0254 | 0.0131 | 0.0000 | 0.0131 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0133 | 0.1382 | 0.0743 | 1.3000e-004 | | 7.0000e-003 | 7.0000e-003 | | 6.4400e-003 | 6.4400e-003 | 0.0000 | 11.6002 | 11.6002 | 3.7500e-003 | 0.0000 | 11.6940 |
| **Total** | **0.0133** | **0.1382** | **0.0743** | **1.3000e-004** | **0.0254** | **7.0000e-003** | **0.0324** | **0.0131** | **6.4400e-003** | **0.0196** | **0.0000** | **11.6002** | **11.6002** | **3.7500e-003** | **0.0000** | **11.6940** |

## 3.3 Site Preparation - 2021

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 2.8000e-004 | 2.2000e-004 | 2.4600e-003 | 1.0000e-005 | 7.1000e-004 | 1.0000e-005 | 7.2000e-004 | 1.9000e-004 | 1.0000e-005 | 1.9000e-004 | 0.0000 | 0.6428 | 0.6428 | 2.0000e-005 | 0.0000 | 0.6433 |
| **Total** | **2.8000e-004** | **2.2000e-004** | **2.4600e-003** | **1.0000e-005** | **7.1000e-004** | **1.0000e-005** | **7.2000e-004** | **1.9000e-004** | **1.0000e-005** | **1.9000e-004** | **0.0000** | **0.6428** | **0.6428** | **2.0000e-005** | **0.0000** | **0.6433** |

## 3.4 Grading - 2021

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 0.1312 | 0.0000 | 0.1312 | 0.0541 | 0.0000 | 0.0541 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0629 | 0.6960 | 0.4632 | 9.3000e-004 | | 0.0298 | 0.0298 | | 0.0274 | 0.0274 | 0.0000 | 81.7425 | 81.7425 | 0.0264 | 0.0000 | 82.4034 |
| **Total** | **0.0629** | **0.6960** | **0.4632** | **9.3000e-004** | **0.1312** | **0.0298** | **0.1610** | **0.0541** | **0.0274** | **0.0815** | **0.0000** | **81.7425** | **81.7425** | **0.0264** | **0.0000** | **82.4034** |

## 3.4 Grading - 2021

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0105 | 0.3448 | 0.0804 | 9.6000e-004 | 0.0214 | 1.0300e-003 | 0.0224 | 5.8800e-003 | 9.9000e-004 | 6.8700e-003 | 0.0000 | 94.9440 | 94.9440 | 6.5900e-003 | 0.0000 | 95.1087 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 1.2900e-003 | 1.0000e-003 | 0.0113 | 3.0000e-005 | 3.2900e-003 | 3.0000e-005 | 3.3100e-003 | 8.7000e-004 | 2.0000e-005 | 9.0000e-004 | 0.0000 | 2.9668 | 2.9668 | 9.0000e-005 | 0.0000 | 2.9689 |
| **Total** | **0.0118** | **0.3458** | **0.0917** | **9.9000e-004** | **0.0247** | **1.0600e-003** | **0.0258** | **6.7500e-003** | **1.0100e-003** | **7.7700e-003** | **0.0000** | **97.9107** | **97.9107** | **6.6800e-003** | **0.0000** | **98.0777** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 0.0512 | 0.0000 | 0.0512 | 0.0211 | 0.0000 | 0.0211 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0629 | 0.6960 | 0.4632 | 9.3000e-004 | | 0.0298 | 0.0298 | | 0.0274 | 0.0274 | 0.0000 | 81.7424 | 81.7424 | 0.0264 | 0.0000 | 82.4033 |
| **Total** | **0.0629** | **0.6960** | **0.4632** | **9.3000e-004** | **0.0512** | **0.0298** | **0.0810** | **0.0211** | **0.0274** | **0.0485** | **0.0000** | **81.7424** | **81.7424** | **0.0264** | **0.0000** | **82.4033** |

## 3.4 Grading - 2021

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0105 | 0.3448 | 0.0804 | 9.6000e-004 | 0.0214 | 1.0300e-003 | 0.0224 | 5.8800e-003 | 9.9000e-004 | 6.8700e-003 | 0.0000 | 94.9440 | 94.9440 | 6.5900e-003 | 0.0000 | 95.1087 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 1.2900e-003 | 1.0000e-003 | 0.0113 | 3.0000e-005 | 3.2900e-003 | 3.0000e-005 | 3.3100e-003 | 8.7000e-004 | 2.0000e-005 | 9.0000e-004 | 0.0000 | 2.9668 | 2.9668 | 9.0000e-005 | 0.0000 | 2.9689 |
| **Total** | **0.0118** | **0.3458** | **0.0917** | **9.9000e-004** | **0.0247** | **1.0600e-003** | **0.0258** | **6.7500e-003** | **1.0100e-003** | **7.7700e-003** | **0.0000** | **97.9107** | **97.9107** | **6.6800e-003** | **0.0000** | **98.0777** |

## 3.5 Building Construction - 2021

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.1722 | 1.5819 | 1.5799 | 2.5500e-003 | | 0.0883 | 0.0883 | | 0.0834 | 0.0834 | 0.0000 | 219.6937 | 219.6937 | 0.0478 | 0.0000 | 220.8891 |
| **Total** | **0.1722** | **1.5819** | **1.5799** | **2.5500e-003** | | **0.0883** | **0.0883** | | **0.0834** | **0.0834** | **0.0000** | **219.6937** | **219.6937** | **0.0478** | **0.0000** | **220.8891** |

## 3.5 Building Construction - 2021

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0205 | 0.6528 | 0.1770 | 1.6800e-003 | 0.0417 | 1.3300e-003 | 0.0430 | 0.0120 | 1.2700e-003 | 0.0133 | 0.0000 | 163.0575 | 163.0575 | 0.0100 | 0.0000 | 163.3075 |
| Worker | 0.0726 | 0.0565 | 0.6381 | 1.8500e-003 | 0.1849 | 1.5200e-003 | 0.1864 | 0.0491 | 1.4000e-003 | 0.0505 | 0.0000 | 166.8798 | 166.8798 | 4.9100e-003 | 0.0000 | 167.0025 |
| **Total** | **0.0932** | **0.7094** | **0.8151** | **3.5300e-003** | **0.2266** | **2.8500e-003** | **0.2294** | **0.0611** | **2.6700e-003** | **0.0638** | **0.0000** | **329.9372** | **329.9372** | **0.0149** | **0.0000** | **330.3101** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.1722 | 1.5819 | 1.5799 | 2.5500e-003 | | 0.0883 | 0.0883 | | 0.0834 | 0.0834 | 0.0000 | 219.6935 | 219.6935 | 0.0478 | 0.0000 | 220.8888 |
| **Total** | **0.1722** | **1.5819** | **1.5799** | **2.5500e-003** | | **0.0883** | **0.0883** | | **0.0834** | **0.0834** | **0.0000** | **219.6935** | **219.6935** | **0.0478** | **0.0000** | **220.8888** |

## 3.5 Building Construction - 2021

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0205 | 0.6528 | 0.1770 | 1.6800e-003 | 0.0417 | 1.3300e-003 | 0.0430 | 0.0120 | 1.2700e-003 | 0.0133 | 0.0000 | 163.0575 | 163.0575 | 0.0100 | 0.0000 | 163.3075 |
| Worker | 0.0726 | 0.0565 | 0.6381 | 1.8500e-003 | 0.1849 | 1.5200e-003 | 0.1864 | 0.0491 | 1.4000e-003 | 0.0505 | 0.0000 | 166.8798 | 166.8798 | 4.9100e-003 | 0.0000 | 167.0025 |
| **Total** | **0.0932** | **0.7094** | **0.8151** | **3.5300e-003** | **0.2266** | **2.8500e-003** | **0.2294** | **0.0611** | **2.6700e-003** | **0.0638** | **0.0000** | **329.9372** | **329.9372** | **0.0149** | **0.0000** | **330.3101** |

## 3.5 Building Construction - 2022

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.0746 | 0.6846 | 0.7524 | 1.2300e-003 | | 0.0359 | 0.0359 | | 0.0340 | 0.0340 | 0.0000 | 105.8158 | 105.8158 | 0.0228 | 0.0000 | 106.3868 |
| **Total** | **0.0746** | **0.6846** | **0.7524** | **1.2300e-003** | | **0.0359** | **0.0359** | | **0.0340** | **0.0340** | **0.0000** | **105.8158** | **105.8158** | **0.0228** | **0.0000** | **106.3868** |

## 3.5 Building Construction - 2022

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 9.2800e-003 | 0.2986 | 0.0806 | 8.0000e-004 | 0.0201 | 5.6000e-004 | 0.0206 | 5.7900e-003 | 5.4000e-004 | 6.3300e-003 | 0.0000 | 77.8196 | 77.8196 | 4.6500e-003 | 0.0000 | 77.9358 |
| Worker | 0.0328 | 0.0246 | 0.2831 | 8.6000e-004 | 0.0890 | 7.1000e-004 | 0.0897 | 0.0237 | 6.5000e-004 | 0.0243 | 0.0000 | 77.5251 | 77.5251 | 2.1400e-003 | 0.0000 | 77.5785 |
| **Total** | **0.0421** | **0.3232** | **0.3637** | **1.6600e-003** | **0.1091** | **1.2700e-003** | **0.1104** | **0.0294** | **1.1900e-003** | **0.0306** | **0.0000** | **155.3447** | **155.3447** | **6.7900e-003** | **0.0000** | **155.5142** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.0746 | 0.6846 | 0.7524 | 1.2300e-003 | | 0.0359 | 0.0359 | | 0.0340 | 0.0340 | 0.0000 | 105.8157 | 105.8157 | 0.0228 | 0.0000 | 106.3867 |
| **Total** | **0.0746** | **0.6846** | **0.7524** | **1.2300e-003** | | **0.0359** | **0.0359** | | **0.0340** | **0.0340** | **0.0000** | **105.8157** | **105.8157** | **0.0228** | **0.0000** | **106.3867** |

## 3.5 Building Construction - 2022

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 9.2800e-003 | 0.2986 | 0.0806 | 8.0000e-004 | 0.0201 | 5.6000e-004 | 0.0206 | 5.7900e-003 | 5.4000e-004 | 6.3300e-003 | 0.0000 | 77.8196 | 77.8196 | 4.6500e-003 | 0.0000 | 77.9358 |
| Worker | 0.0328 | 0.0246 | 0.2831 | 8.6000e-004 | 0.0890 | 7.1000e-004 | 0.0897 | 0.0237 | 6.5000e-004 | 0.0243 | 0.0000 | 77.5251 | 77.5251 | 2.1400e-003 | 0.0000 | 77.5785 |
| **Total** | **0.0421** | **0.3232** | **0.3637** | **1.6600e-003** | **0.1091** | **1.2700e-003** | **0.1104** | **0.0294** | **1.1900e-003** | **0.0306** | **0.0000** | **155.3447** | **155.3447** | **6.7900e-003** | **0.0000** | **155.5142** |

## 3.6 Paving - 2022

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.0110 | 0.1113 | 0.1458 | 2.3000e-004 | | 5.6800e-003 | 5.6800e-003 | | 5.2200e-003 | 5.2200e-003 | 0.0000 | 20.0276 | 20.0276 | 6.4800e-003 | 0.0000 | 20.1895 |
| Paving | 7.4900e-003 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Total** | **0.0185** | **0.1113** | **0.1458** | **2.3000e-004** | | **5.6800e-003** | **5.6800e-003** | | **5.2200e-003** | **5.2200e-003** | **0.0000** | **20.0276** | **20.0276** | **6.4800e-003** | **0.0000** | **20.1895** |

## 3.6 Paving - 2022

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 6.1000e-004 | 4.5000e-004 | 5.2300e-003 | 2.0000e-005 | 1.6400e-003 | 1.0000e-005 | 1.6600e-003 | 4.4000e-004 | 1.0000e-005 | 4.5000e-004 | 0.0000 | 1.4312 | 1.4312 | 4.0000e-005 | 0.0000 | 1.4322 |
| **Total** | **6.1000e-004** | **4.5000e-004** | **5.2300e-003** | **2.0000e-005** | **1.6400e-003** | **1.0000e-005** | **1.6600e-003** | **4.4000e-004** | **1.0000e-005** | **4.5000e-004** | **0.0000** | **1.4312** | **1.4312** | **4.0000e-005** | **0.0000** | **1.4322** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.0110 | 0.1113 | 0.1458 | 2.3000e-004 | | 5.6800e-003 | 5.6800e-003 | | 5.2200e-003 | 5.2200e-003 | 0.0000 | 20.0275 | 20.0275 | 6.4800e-003 | 0.0000 | 20.1895 |
| Paving | 7.4900e-003 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Total** | **0.0185** | **0.1113** | **0.1458** | **2.3000e-004** | | **5.6800e-003** | **5.6800e-003** | | **5.2200e-003** | **5.2200e-003** | **0.0000** | **20.0275** | **20.0275** | **6.4800e-003** | **0.0000** | **20.1895** |

## 3.6 Paving - 2022

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 6.1000e-004 | 4.5000e-004 | 5.2300e-003 | 2.0000e-005 | 1.6400e-003 | 1.0000e-005 | 1.6600e-003 | 4.4000e-004 | 1.0000e-005 | 4.5000e-004 | 0.0000 | 1.4312 | 1.4312 | 4.0000e-005 | 0.0000 | 1.4322 |
| **Total** | **6.1000e-004** | **4.5000e-004** | **5.2300e-003** | **2.0000e-005** | **1.6400e-003** | **1.0000e-005** | **1.6600e-003** | **4.4000e-004** | **1.0000e-005** | **4.5000e-004** | **0.0000** | **1.4312** | **1.4312** | **4.0000e-005** | **0.0000** | **1.4322** |

## 3.7 Architectural Coating - 2022

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Archit. Coating | 0.7489 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 3.0700e-003 | 0.0211 | 0.0272 | 4.0000e-005 | | 1.2300e-003 | 1.2300e-003 | | 1.2300e-003 | 1.2300e-003 | 0.0000 | 3.8299 | 3.8299 | 2.5000e-004 | 0.0000 | 3.8361 |
| **Total** | **0.7520** | **0.0211** | **0.0272** | **4.0000e-005** | | **1.2300e-003** | **1.2300e-003** | | **1.2300e-003** | **1.2300e-003** | **0.0000** | **3.8299** | **3.8299** | **2.5000e-004** | **0.0000** | **3.8361** |

## 3.7 Architectural Coating - 2022

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 3.0300e-003 | 2.2700e-003 | 0.0261 | 8.0000e-005 | 8.2200e-003 | 7.0000e-005 | 8.2800e-003 | 2.1800e-003 | 6.0000e-005 | 2.2400e-003 | 0.0000 | 7.1562 | 7.1562 | 2.0000e-004 | 0.0000 | 7.1611 |
| **Total** | **3.0300e-003** | **2.2700e-003** | **0.0261** | **8.0000e-005** | **8.2200e-003** | **7.0000e-005** | **8.2800e-003** | **2.1800e-003** | **6.0000e-005** | **2.2400e-003** | **0.0000** | **7.1562** | **7.1562** | **2.0000e-004** | **0.0000** | **7.1611** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Archit. Coating | 0.7489 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 3.0700e-003 | 0.0211 | 0.0272 | 4.0000e-005 | | 1.2300e-003 | 1.2300e-003 | | 1.2300e-003 | 1.2300e-003 | 0.0000 | 3.8299 | 3.8299 | 2.5000e-004 | 0.0000 | 3.8361 |
| **Total** | **0.7520** | **0.0211** | **0.0272** | **4.0000e-005** | | **1.2300e-003** | **1.2300e-003** | | **1.2300e-003** | **1.2300e-003** | **0.0000** | **3.8299** | **3.8299** | **2.5000e-004** | **0.0000** | **3.8361** |

### 3.7 Architectural Coating - 2022

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 3.0300e-003 | 2.2700e-003 | 0.0261 | 8.0000e-005 | 8.2200e-003 | 7.0000e-005 | 8.2800e-003 | 2.1800e-003 | 6.0000e-005 | 2.2400e-003 | 0.0000 | 7.1562 | 7.1562 | 2.0000e-004 | 0.0000 | 7.1611 |
| **Total** | **3.0300e-003** | **2.2700e-003** | **0.0261** | **8.0000e-005** | **8.2200e-003** | **7.0000e-005** | **8.2800e-003** | **2.1800e-003** | **6.0000e-005** | **2.2400e-003** | **0.0000** | **7.1562** | **7.1562** | **2.0000e-004** | **0.0000** | **7.1611** |

## 4.0 Operational Detail - Mobile

### 4.1 Mitigation Measures Mobile

Increase Density

Improve Destination Accessibility

Increase Transit Accessibility

Improve Pedestrian Network

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Mitigated | 0.3184 | 3.7482 | 3.6223 | 0.0170 | 1.0117 | 0.0135 | 1.0252 | 0.2724 | 0.0127 | 0.2851 | 0.0000 | 1,600.3952 | 1,600.3952 | 0.0859 | 0.0000 | 1,602.5415 |
| Unmitigated | 0.4219 | 5.0203 | 5.6636 | 0.0282 | 1.7773 | 0.0226 | 1.7999 | 0.4785 | 0.0212 | 0.4998 | 0.0000 | 2,644.8804 | 2,644.8804 | 0.1261 | 0.0000 | 2,648.0318 |

## 4.2 Trip Summary Information

| | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|---|---|---|---|---|---|
| Land Use | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| General Office Building | 198.40 | 45.02 | 14.26 | 483,815 | 275,397 |
| Manufacturing | 779.71 | 779.71 | 779.71 | 3,616,692 | 2,058,687 |
| Other Non-Asphalt Surfaces | 0.00 | 0.00 | 0.00 | | |
| Parking Lot | 0.00 | 0.00 | 0.00 | | |
| Unrefrigerated Warehouse-No Rail | 151.00 | 13.02 | 5.21 | 512,362 | 291,646 |
| Total | 1,129.11 | 837.75 | 799.18 | 4,612,869 | 2,625,729 |

## 4.3 Trip Type Information

| | Miles | | | Trip % | | | Trip Purpose % | | |
|---|---|---|---|---|---|---|---|---|---|
| Land Use | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary | Diverted | Pass-by |
| General Office Building | 16.60 | 8.40 | 6.90 | 33.00 | 48.00 | 19.00 | 77 | 19 | 4 |
| Manufacturing | 40.00 | 8.40 | 6.90 | 20.43 | 0.00 | 79.57 | 92 | 5 | 3 |
| Other Non-Asphalt Surfaces | 16.60 | 8.40 | 6.90 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |
| Parking Lot | 16.60 | 8.40 | 6.90 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |
| Unrefrigerated Warehouse-No | 40.00 | 8.40 | 6.90 | 20.43 | 0.00 | 79.57 | 92 | 5 | 3 |

### 4.4 Fleet Mix

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| General Office Building | 0.546501 | 0.044961 | 0.204016 | 0.120355 | 0.015740 | 0.006196 | 0.020131 | 0.030678 | 0.002515 | 0.002201 | 0.005142 | 0.000687 | 0.000876 |
| Manufacturing | 0.472164 | 0.038845 | 0.176265 | 0.103984 | 0.024827 | 0.009773 | 0.046400 | 0.123300 | 0.000000 | 0.000000 | 0.004443 | 0.000000 | 0.000000 |
| Other Non-Asphalt Surfaces | 0.546501 | 0.044961 | 0.204016 | 0.120355 | 0.015740 | 0.006196 | 0.020131 | 0.030678 | 0.002515 | 0.002201 | 0.005142 | 0.000687 | 0.000876 |
| Parking Lot | 0.546501 | 0.044961 | 0.204016 | 0.120355 | 0.015740 | 0.006196 | 0.020131 | 0.030678 | 0.002515 | 0.002201 | 0.005142 | 0.000687 | 0.000876 |
| Unrefrigerated Warehouse-No Rail | 0.472164 | 0.038845 | 0.176265 | 0.103984 | 0.024827 | 0.009773 | 0.046400 | 0.123300 | 0.000000 | 0.000000 | 0.004443 | 0.000000 | 0.000000 |

## 5.0 Energy Detail

Historical Energy Use: N

### 5.1 Mitigation Measures Energy

Install High Efficiency Lighting

Install Energy Efficient Appliances

19260 190th Street Warehouse - Los Angeles-South Coast County, Annual

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Electricity Mitigated | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 659.3409 | 659.3409 | 0.0272 | 5.6300e-003 | 661.6997 |
| Electricity Unmitigated | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 768.3559 | 768.3559 | 0.0317 | 6.5600e-003 | 771.1047 |
| NaturalGas Mitigated | 0.0252 | 0.2291 | 0.1925 | 1.3700e-003 | | 0.0174 | 0.0174 | | 0.0174 | 0.0174 | 0.0000 | 249.4111 | 249.4111 | 4.7800e-003 | 4.5700e-003 | 250.8932 |
| NaturalGas Unmitigated | 0.0252 | 0.2291 | 0.1925 | 1.3700e-003 | | 0.0174 | 0.0174 | | 0.0174 | 0.0174 | 0.0000 | 249.4111 | 249.4111 | 4.7800e-003 | 4.5700e-003 | 250.8932 |

## 5.2 Energy by Land Use - NaturalGas

**Unmitigated**

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Land Use | kBTU/yr | tons/yr | | | | | | | | | | MT/yr | | | | | |
| General Office Building | 186182 | 1.0000e-003 | 9.1300e-003 | 7.6700e-003 | 5.0000e-005 | | 6.9000e-004 | 6.9000e-004 | | 6.9000e-004 | 6.9000e-004 | 0.0000 | 9.9354 | 9.9354 | 1.9000e-004 | 1.8000e-004 | 9.9944 |
| Manufacturing | 4.14656e+006 | 0.0224 | 0.2033 | 0.1707 | 1.2200e-003 | | 0.0155 | 0.0155 | | 0.0155 | 0.0155 | 0.0000 | 221.2762 | 221.2762 | 4.2400e-003 | 4.0600e-003 | 222.5912 |
| Other Non-Asphalt Surfaces | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Unrefrigerated Warehouse-No Rail | 341045 | 1.8400e-003 | 0.0167 | 0.0140 | 1.0000e-004 | | 1.2700e-003 | 1.2700e-003 | | 1.2700e-003 | 1.2700e-003 | 0.0000 | 18.1995 | 18.1995 | 3.5000e-004 | 3.3000e-004 | 18.3076 |
| **Total** | | **0.0252** | **0.2291** | **0.1925** | **1.3700e-003** | | **0.0174** | **0.0174** | | **0.0174** | **0.0174** | **0.0000** | **249.4111** | **249.4111** | **4.7800e-003** | **4.5700e-003** | **250.8932** |

## 5.2 Energy by Land Use - NaturalGas

**Mitigated**

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Land Use | kBTU/yr | tons/yr | | | | | | | | | | MT/yr | | | | | |
| General Office Building | 186182 | 1.0000e-003 | 9.1300e-003 | 7.6700e-003 | 5.0000e-005 | | 6.9000e-004 | 6.9000e-004 | | 6.9000e-004 | 6.9000e-004 | 0.0000 | 9.9354 | 9.9354 | 1.9000e-004 | 1.8000e-004 | 9.9944 |
| Manufacturing | 4.14656e+006 | 0.0224 | 0.2033 | 0.1707 | 1.2200e-003 | | 0.0155 | 0.0155 | | 0.0155 | 0.0155 | 0.0000 | 221.2762 | 221.2762 | 4.2400e-003 | 4.0600e-003 | 222.5912 |
| Other Non-Asphalt Surfaces | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Unrefrigerated Warehouse-No Rail | 341045 | 1.8400e-003 | 0.0167 | 0.0140 | 1.0000e-004 | | 1.2700e-003 | 1.2700e-003 | | 1.2700e-003 | 1.2700e-003 | 0.0000 | 18.1995 | 18.1995 | 3.5000e-004 | 3.3000e-004 | 18.3076 |
| **Total** | | **0.0252** | **0.2291** | **0.1925** | **1.3700e-003** | | **0.0174** | **0.0174** | | **0.0174** | **0.0174** | **0.0000** | **249.4111** | **249.4111** | **4.7800e-003** | **4.5700e-003** | **250.8932** |

## 5.3 Energy by Land Use - Electricity

**Unmitigated**

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | kWh/yr | MT/yr | | | |
| General Office Building | 284976 | 90.7996 | 3.7500e-003 | 7.8000e-004 | 91.1244 |
| Manufacturing | 1.67648e+006 | 534.1625 | 0.0221 | 4.5600e-003 | 536.0734 |
| Other Non-Asphalt Surfaces | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Parking Lot | 89040 | 28.3701 | 1.1700e-003 | 2.4000e-004 | 28.4716 |
| Unrefrigerated Warehouse-No Rail | 361005 | 115.0239 | 4.7500e-003 | 9.8000e-004 | 115.4354 |
| **Total** | | **768.3559** | **0.0317** | **6.5600e-003** | **771.1047** |

### 5.3 Energy by Land Use - Electricity

**Mitigated**

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | kWh/yr | MT/yr | | | |
| General Office Building | 253757 | 80.8525 | 3.3400e-003 | 6.9000e-004 | 81.1417 |
| Manufacturing | 1.45366e+006 | 463.1663 | 0.0191 | 3.9600e-003 | 464.8232 |
| Other Non-Asphalt Surfaces | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Parking Lot | 58766.4 | 18.7242 | 7.7000e-004 | 1.6000e-004 | 18.7912 |
| Unrefrigerated Warehouse-No Rail | 303175 | 96.5979 | 3.9900e-003 | 8.3000e-004 | 96.9435 |
| **Total** | | **659.3409** | **0.0272** | **5.6400e-003** | **661.6997** |

## 6.0 Area Detail

### 6.1 Mitigation Measures Area

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Mitigated | 1.2699 | 1.1000e-004 | 0.0121 | 0.0000 | | 4.0000e-005 | 4.0000e-005 | | 4.0000e-005 | 4.0000e-005 | 0.0000 | 0.0234 | 0.0234 | 6.0000e-005 | 0.0000 | 0.0249 |
| Unmitigated | 1.2699 | 1.1000e-004 | 0.0121 | 0.0000 | | 4.0000e-005 | 4.0000e-005 | | 4.0000e-005 | 4.0000e-005 | 0.0000 | 0.0234 | 0.0234 | 6.0000e-005 | 0.0000 | 0.0249 |

## 6.2 Area by SubCategory

**Unmitigated**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SubCategory | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Architectural Coating | 0.1457 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 1.1231 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Landscaping | 1.1200e-003 | 1.1000e-004 | 0.0121 | 0.0000 | | 4.0000e-005 | 4.0000e-005 | | 4.0000e-005 | 4.0000e-005 | 0.0000 | 0.0234 | 0.0234 | 6.0000e-005 | 0.0000 | 0.0249 |
| **Total** | **1.2699** | **1.1000e-004** | **0.0121** | **0.0000** | | **4.0000e-005** | **4.0000e-005** | | **4.0000e-005** | **4.0000e-005** | **0.0000** | **0.0234** | **0.0234** | **6.0000e-005** | **0.0000** | **0.0249** |

### 6.2 Area by SubCategory

**Mitigated**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SubCategory | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Architectural Coating | 0.1457 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 1.1231 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Landscaping | 1.1200e-003 | 1.1000e-004 | 0.0121 | 0.0000 | | 4.0000e-005 | 4.0000e-005 | | 4.0000e-005 | 4.0000e-005 | 0.0000 | 0.0234 | 0.0234 | 6.0000e-005 | 0.0000 | 0.0249 |
| **Total** | **1.2699** | **1.1000e-004** | **0.0121** | **0.0000** | | **4.0000e-005** | **4.0000e-005** | | **4.0000e-005** | **4.0000e-005** | **0.0000** | **0.0234** | **0.0234** | **6.0000e-005** | **0.0000** | **0.0249** |

## 7.0 Water Detail

### 7.1 Mitigation Measures Water

Apply Water Conservation Strategy

Use Water Efficient Irrigation System

| | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|
| Category | MT/yr | | | |
| Mitigated | 256.4099 | 1.8234 | 0.0449 | 315.3623 |
| Unmitigated | 318.5486 | 2.2791 | 0.0561 | 392.2322 |

## 7.2 Water by Land Use

**Unmitigated**

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | Mgal | MT/yr | | | |
| General Office Building | 3.62044 / 2.21898 | 24.0239 | 0.1189 | 2.9800e-003 | 27.8851 |
| Manufacturing | 45.88 / 0 | 204.9012 | 1.5029 | 0.0369 | 253.4766 |
| Other Non-Asphalt Surfaces | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Parking Lot | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Unrefrigerated Warehouse-No Rail | 20.0679 / 0 | 89.6236 | 0.6574 | 0.0162 | 110.8705 |
| **Total** | | **318.5486** | **2.2791** | **0.0561** | **392.2322** |

### 7.2 Water by Land Use

**Mitigated**

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | Mgal | MT/yr | | | |
| General Office Building | 2.89635 / 2.21898 | 20.7901 | 0.0952 | 2.4000e-003 | 23.8847 |
| Manufacturing | 36.704 / 0 | 163.9209 | 1.2023 | 0.0295 | 202.7813 |
| Other Non-Asphalt Surfaces | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Parking Lot | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Unrefrigerated Warehouse-No Rail | 16.0543 / 0 | 71.6989 | 0.5259 | 0.0129 | 88.6964 |
| **Total** | | **256.4099** | **1.8234** | **0.0449** | **315.3623** |

## 8.0 Waste Detail

### 8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

**Category/Year**

| | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|
| | MT/yr | | | |
| Mitigated | 17.5856 | 1.0393 | 0.0000 | 43.5676 |
| Unmitigated | 70.3425 | 4.1571 | 0.0000 | 174.2705 |

## 8.2 Waste by Land Use

**Unmitigated**

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | tons | MT/yr | | | |
| General Office Building | 18.94 | 3.8447 | 0.2272 | 0.0000 | 9.5250 |
| Manufacturing | 246.02 | 49.9398 | 2.9514 | 0.0000 | 123.7238 |
| Other Non-Asphalt Surfaces | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Unrefrigerated Warehouse-No Rail | 81.57 | 16.5580 | 0.9786 | 0.0000 | 41.0217 |
| **Total** | | **70.3425** | **4.1571** | **0.0000** | **174.2705** |

## 8.2 Waste by Land Use

**Mitigated**

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | tons | MT/yr | | | |
| General Office Building | 4.735 | 0.9612 | 0.0568 | 0.0000 | 2.3812 |
| Manufacturing | 61.505 | 12.4850 | 0.7378 | 0.0000 | 30.9310 |
| Other Non-Asphalt Surfaces | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Unrefrigerated Warehouse-No Rail | 20.3925 | 4.1395 | 0.2446 | 0.0000 | 10.2554 |
| **Total** | | **17.5856** | **1.0393** | **0.0000** | **43.5676** |

## 9.0 Operational Offroad

| Equipment Type | Number | Hours/Day | Days/Year | Horse Power | Load Factor | Fuel Type |
|---|---|---|---|---|---|---|

## 10.0 Stationary Equipment

**Fire Pumps and Emergency Generators**

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

**Boilers**

| Equipment Type | Number | Heat Input/Day | Heat Input/Year | Boiler Rating | Fuel Type |
|---|---|---|---|---|---|

**User Defined Equipment**

| Equipment Type | Number |
|---|---|

## 11.0 Vegetation

**GANDDINI GROUP, INC.**
550 Parkcenter Drive, Suite 202, Santa Ana, CA 92705
714.795.3100 | www.ganddini.com